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MENTAL WELLBEING OF PATIENTS FROM ETHNIC MINORITY GROUPS DURING CRITICAL CARE: AN ETHNOGRAPHIC STUDY

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Complete List of Authors:	Van Keer , RL; Vrije Universiteit Brussel, Public Health Deschepper, Reginald; Vrije Universiteit Brussel, Public Health Huyghens, Luc; Universitair Ziekenhuis Brussel, Critical Care Bilsen, Johan; Vrije Universiteit Brussel, Public Health
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3	T	MENTAL WELLBEING OF PATIENTS FROM ETHNIC MINORITY GROOPS DORING CRITICAL CARE. AN
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7	3	Rose-Lima Van Keer ¹ , Reginald Deschepper ² , Luc Huyghens ³ , Johan Bilsen ⁴
8		
10		
11	4	(1) Mental Health and Wellbeing Research Group (MENT), Department of Public Health, Faculty of
12	5	Medicine and Pharmacy, Vrije Universiteit Brussel
13		
14 15	6	Laarbeeklaan 103 1090 Brussel
16	7	Druccolo, Dolgium
17	/	Brussels, Belgium
18	8	e-mail: rvkeer@vub.ac.be
19		
20	9	(2) Mental Health and Wellbeing Research Group (MENT), Department of Public Health, Faculty of
21	10	Medicine and Pharmacy Vrije Universiteit Brussel
23	10	Medicine and Fharmacy, vije onversiteit Brusser
24	11	Laarbeeklaan 103 1090 Brussel
25		
26 27	12	Brussels, Belgium
28	13	e-mail: rdeschen@vub ac be
29	15	
30	14	(3) Critical care Department/Service of Intensive Care Medicine, Vrije Universiteit Brussel;
31	4 5	
32	15	Universitair Ziekenhuis Brussel
34	16	Laarbeeklaan 101 1090 Brussel
35	-	
36	17	Brussels, Belgium
37	10	a maile lue Hunghans @uzhrussal ha
38 30	10	e-mail. Luc.Huyghens@uzbrussel.be
40	19	(4) Mental Health and Wellbeing Research Group (MENT), Department of Public Health, Faculty
41		
42	20	of Medicine and Pharmacy, Vrije Universiteit Brussel
43	21	Laarbeeklaan 103, 1090 Brussel
44 45	21	
46	22	Brussels, Belgium
47	• •	
48	23	e-mail: johan.bilsen@vub.ac.be
49 50		
50 51	24	Correspondence to: R. Van Keer rvkeer@vub.ac.be or +32 2 4774608
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27 Abstract

Objectives: To investigate the state of the mental wellbeing of patients from ethnic minority groups

and possible related risk factors for the development of mental health problems among these

30 patients during critical medical situations in hospital.

Design: Qualitative ethnographic design.

32 Setting: 1 intensive care unit (ICU) of a multi-ethnic urban hospital in Belgium.

33 Participants: All doctors and nurses at the ICU, 10 patients from ethnic-minority groups, and their

34 visiting family members.

Results: The mental wellbeing of critically ill patients from ethnic minority groups is basically characterized by 'extreme emotional loneliness'. Patients had several human basic needs for which they could not sufficiently turn to anybody, neither to their healthcare professionals, nor to their relatives, nor to other patients. These needs included the need for social contact, the need to increase comfort and alleviate pain, the need to express desperation and participate in end-of-life decision making. Three interrelated risk factors for the development of mental health problems among the patients included were identified: Firstly, healthcare professionals' mainly biomedical care approach (e.g. focus on curing the patient, limited psychosocial support), secondly, the ICU context (e.g. time pressure, uncertainty, regulatory frameworks) and thirdly, patients' different ethno-cultural background (e.g. religious and phenotypical differences).

45 Conclusions: The mental state of patients from ethnic minority groups during critical care is alarming, 46 and is characterized by extreme emotional loneliness. It is important that staff should identify and 47 meet patients' unique basic needs in good time with regard to their mental wellbeing, taking into 48 account important threats related to their own mainly biomedical approach to care, the ICU's 49 structural context as well as the patients' different ethno-cultural background.

2 3	51	Article summary
4 5 6	52	Strengths and limitations of this study
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8	E 2	• As far as we know this is the first study where the mental wellbeing of patients from ethnic
9 10	55 54	 As fail as we know, this is the first study where the mental weibeing of patients non-ethnic minority groups is profoundly investigated by means of an ethnographic research design
10	55	
12	56	• By studying the mental wellbeing of these patients as is 'genuinely expressed', from multiple
13	57	perspectives and in a contextual manner, through ethnographic fieldwork in an intensive
14	58	care unit of a multi-ethnic urban hospital in Belgium, we have tried to develop a nuanced,
15 16	59	non-stereotypical and rich insight into such patients' mental wellbeing.
10	60	
18	61	• A limitation of this research could be the fact that the fieldwork was done in only one ICU.
19	62	Therefore transferability to other situations must be done with caution. However, by
20	63	spending a lot of time in a variety of situations (with 10 patients and their families, and all
21	64	their healthcare professionals) it was possible to gain a rich insight into our sensitive research
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70 INTRODUCTION

During critical care, patients' mental wellbeing comes under threat in several ways.[1-2] Hallucinations, fear, and depression frequently occur among patients admitted to the intensive care unit (ICU).[3-6] Several risk factors are identified, including dependency and poor communication.[2,3,7,8] Although disturbances in critically ill patients' mental health negatively affect their whole care process, healthcare professionals working in a critical care setting lack adequate strategies to improve patients' mental health.[7,9]

- Additionally, healthcare professionals have to communicate increasingly with patients from ethnic minority groups [10] as a result of societies' increased ethno-cultural diversity. We might assume that critically ill patients from ethnic minority groups are at an even higher risk of mental health problems. Inattention by healthcare professionals to specific ethno-cultural habits (e.g. gender segregation) can contribute to traumatic experiences for such patients. [11,12] Furthermore, language differences and ethno-cultural norms prescribing acceptance of physical suffering can lead to less adequate communication and pain relief[13,14], which can endanger such patients' psychological state. [5,11,15] Yet, although we increasingly live in a multi-ethnic society, in-depth research about the mental wellbeing of patients from ethnic minority groups is rather scarce. In this study we therefore aim to investigate 'the state of the mental wellbeing of patients from ethnic minority groups and possible related risk factors for the development of mental health problems among these patients in a multi-ethnic ICU'. In-depth understanding of occurrences of mental health problems among
- 87 patients from ethnic minority groups can contribute to the development of recommendations to prevent such
- 88 problems for these patients.

90 METHODS

- 91 Patients' mental wellbeing in a multi-ethnic critical care setting is a sensitive, complex, and novel topic of
- 92 research. Therefore an ethnographic research design has been used.[16-18]

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94 Participants & setting

Ethnographic fieldwork was done in one ICU of a multi-ethnic urban hospital in Belgium over 6 months (January 2014-June 2014). Staff's, patients', and relatives' behaviour, interactions, and experiences were studied for 360 hours. The selected patients and the family members who accompanied them, as well as their healthcare professionals, were followed for the whole critical period. Patients and their family members were purposefully selected. They were only eligible for inclusion in the study if the patient or at least one of his/her legal parents was born abroad, if at least one of the family members was able to speak Dutch, French, or English, and if the patient was at least 18 years old. In total we selected 10 patients and their visiting family members, who were originally from North Africa, Turkey, Central Africa, and Southern Europe, i.e. regions of origin of large ethnic minority groups in Belgium.[19]The patients were between 40 and 82 years old and consisted of 6 males and 4 females. The critical care team consisted of 80 nurses and 12 doctors, who were almost all white Caucasians from the dominant ethnic group.

108 Data collection

Data were collected through triangulation of several data collection strategies, namely negotiated interactive observation,[16] in-depth- interviews with healthcare professionals,[17] and the reading of patients' medical records. The researcher engaged in 'negotiated interactive observation', which gave her the opportunity to have 480 informal conversations with healthcare professionals, family members, and patients, attend 144 staff meetings, and witness 375 interactions between healthcare professionals, relatives, and patients during visiting hours.

When the researcher was in the ICU she made notes in a logbook. After the researcher had left the ICU, she transformed these notes into comprehensive descriptive field notes containing observations of participants' discourse, behaviour, and interaction, informal conversations with them as well as researcher's reflections on her behaviour and feelings in the field.[17] Formal in-depth- interviews were held with nine healthcare BMJ Open: first published as 10.1136/bmjopen-2016-014075 on 27 September 2017. Downloaded from http://bmjopen.bmj.com/ on August 26, 2023 by guest. Protected by copyright.

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professionals. These interviews were recorded. All data were collected by the first author (RVK), a trained
ethnographer and sociologist.

123 Data analysis

The analysis started with a 'thick description' [20] of participants' discourse, behaviour, and interaction and was followed by a grounded theory analysis.[21] In depth-interviews were transcribed, and data were conceptualized by means of a three-step coding process, supported by NVIVO 8 (QSR International, 2008). This process resulted in the creation of a conceptual model, consisting of different themes and subthemes. Firstly, an open coding phase was performed, involving the reading and rereading of the data. This resulted in the formation of different codes, for instance 'physical contact', 'proximity', and 'fighting'. To find similarities and differences between these codes, new codes were constantly compared with already existing codes. Secondly, axial coding took place. This led to the formation of groupings of similar codes, i.e. categories, for example 'social contact' and 'saving patient'. Relationships between the categories were also established, for instance 'basic needs' and 'care strategies'. Thirdly, selective coding was performed to determine the core category ('emotional loneliness') around which the related categories are clustered.[21,22] Data collection and analysis were stopped when the point of saturation was reached. [21,23] Reliability was strengthened by the first author (RVK) doing the data analysis and two co-authors (RD & JB) doing a peer-revision of the analysis. The process of data collection and data analysis was also regularly discussed by members of the multidisciplinary academic research group in which these authors participate, consisting of a health scientist, a psychiatric nurse, 2 anthropologists, and 1 sociologist. To improve the reliability and accuracy of the study, the results were also read by an intensive care specialist who is part of the intensive care team at the hospital in which the researcher did her fieldwork.

144 Ethics

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145	The research protocol (reference 2013/371) was approved by the university ethics committee of the XXX. The
146	privacy of the research participants and confidentiality of the data were respected, e.g. by using pseudonyms.
147	Written consent to participation in the study was sought from healthcare professionals, family members, and
148	patients who were still able to communicate. If the patient lacked the capacity to give consent, consent was
149	sought from his/her legal representative.
150	
151	RESULTS
152	The patients included were admitted for complicated pneumonia (3), abdominal problems (1), heart problems
153	(2), brain haemorrhage (2), cancer (1), and trauma (1). Mental health problems came overtly to the fore among
154	patients. Patients had several basic needs for which they could not sufficiently turn to anybody, neither to their
155	healthcare professionals, nor to their relatives, nor to other patients. These needs comprised 'the need for
156	social contact, non-medical information exchange, the need to increase comfort and alleviate pain, the need to
157	express desperation, and to participate in end-of-life decision making'.
158	
159	1) Need for social contact
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4.54	
161	Patients longed for social contact with relatives, healthcare professionals and other patients, and not only
162	verbally but also non-verbally. This need became even more significant when patients were unable to
163	communicate verbally as a result of their medical state and/or language differences. More specifically, patients
164	longed for proximity of others, physical contact, and chatting.
165	Patients wanted their relatives and friends to be close to them, felt the need to touch and/or kiss them and
166	talk or write to them. Therefore, patients wanted their loved ones to stay longer than accepted during visiting
167	time, to come more often, or to take them back home (see appendix table 1). Some patients also wanted to
168	phone home to request visits from relatives (see appendix table 2). Furthermore, patients wanted healthcare
169	professionals to communicate more often with them. However, the rules concerning visits, the infrastructure/

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accommodation (e.g. no telephone) and healthcare professionals' focus on the patients' disease made it difficult for staff to fully satisfy patients' need for social contact. Moreover, pressure of work and time made it tough to communicate with patients. Furthermore language differences and misconceptions of healthcare professionals towards patients' ability to communicate in the language of the host country, sometimes based on patients' different skin colour, endangered the meeting of patients' social needs. (see appendix table 3 and 4). Some patients also felt the urge to connect with other patients. This became indirectly apparent when patients stared at other beds and/or asked questions about other patients' conditions. Nonetheless, infrastructural constraints (e.g. remote beds) and language differences made communication between patients impossible. (see appendix table 5) 2) Need for non-medical information exchange with healthcare professionals The information exchange between doctors and patients was primarily of a medical nature. When patients were conscious, doctors explained to patients their medical situation, which medical actions they had undertaken as well those they would undertake in the future, and which medical decisions had been taken. However, patients not only felt the need to get medical information regarding their physical state from healthcare professionals, but equally to exchange information with them on matters that were not strictly medical, e.g. practical issues, visual aspects (e.g. activities going on around them) and their family (see appendix table 6 and 7). Furthermore, nurses regularly did not communicate with patients or only communicated with them in a task-related manner (see appendix table 8). Despite healthcare professionals' good intentions, they often perceived it as impossible to communicate with patients about non-medical issues due to their prime task of safeguarding the patients' clinical state, time pressure, and their workload (see appendix table 9). Also language differences made communication between patients and healthcare professionals about non-medical matters more difficult (see appendix table 10). In addition, communication with relatives about non-medical issues was limited as well. Relatives often focused on their search for exhaustive medical information from doctors during the restricted visiting hours.

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196	3) Need to increase comfort and alleviate pain
197	Patients wanted to increase their comfort and be free from pain. This need was often expressed through verbal
198	and non-verbal communication. Patients verbally requested acts of care to increase comfort in the language of
199	the host society or in their own mother tongue. They also often indirectly requested comfort-increasing care by
200	expressing their suffering through non-verbal signs, e.g. pointing with their heads. However, sometimes these
201	expressions of patients' hardship were not noticed, minimally acknowledged, not apprehended or
202	misunderstood, even neglected, normalized or temporarily medically suppressed by giving tranquilizers, by
203	healthcare professionals. Inadequately meeting patients' need for comfort and pain alleviation was related to
204	healthcare professionals' workload, time pressure, their focus on strictly medical care task and actual/falsely
205	perceived language differences. Consequently, comfort and pain was often addressed based on healthcare
206	professionals' unilateral assessment, sometimes leading to mistrust between themselves and patients.
207	Patients' non-verbal care requests were sometimes not seen or neglected by healthcare professionals
208	because they were too occupied with medical care tasks (see appendix table 11). Apprehension by healthcare
209	professionals of patients' verbal messages was sometimes hampered by language differences (see appendix
210	table 12). Moreover, when patients' non-verbal expressions of suffering were noticed, communication with
211	patients sometimes unfolded inadequately or no communication occurred, in both cases sometimes grounded
212	in healthcare professionals' misconceptions of patients' language proficiency (see appendix table 13 and 14).
213	On the other hand, some patients who were at moments totally unable to communicate as a result of
214	medical and linguistic barriers were automatically perceived as quiet patients who were comfortable/painless
215	(see appendix table 15). When patients experienced discomfort for a longer time some of them did not want to
216	ask healthcare professionals for help anymore and wanted to leave the ICU (see appendix table 16).
217	
218	4) Need to express desperation
219	Among some patients, feelings of desperation were observed at times. Some of them wanted to leave the
220	hospital, others wanted to completely give up treatment (see appendix table 17).

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Patients felt the need to express and share these feelings with others. However, patients regularly felt obliged
to suppress their hopelessness during critical care in front of healthcare professionals and relatives, resulting in
frustration and sadness.

Healthcare professionals did not stimulate expressions of desperation. They frequently presented patients with their situation in a hopeful manner and tried to motivate them to not give up, leaving little space for

226 patients to express their negative feelings. And even when patients did express their hopelessness, healthcare

227 professionals often did not respond. Moreover, when patients became very overtly anxious/hopeless,

tranquilizers/antidepressants were given (see appendix table 18).

Additionally, family members remained hopeful and consequently also spoke in a hopeful tone to patients

230 (see appendix table 19). Relatives' religious beliefs and high expectations for cure in western hospitals

231 functioned as sources of hope. Furthermore, negative information was hidden for some family members by

232 other relatives so as to not create unrest within their large transnational families, which affected relatives'

233 positive outlook on the patients' situation (see appendix table 20). Additionally, families' considerable size led

234 to group pressure among its members to remain hopeful. Moreover, patients themselves presented their

235 situation in a more positive manner towards visiting relatives coming from the home country so as to not worry

their relatives there (see appendix table 21).

- 239 5) Need to participate in end-of-life decision making
- 240 Enduring physical and mental suffering triggered a need for some patients to participate in a decision to
- 241 withdraw therapy. This need was verbally and non-verbally expressed at several points (see appendix table 22).

242 However healthcare professionals regularly acknowledged these patients' communication only minimally,

- 243 neglected it, forgot it or tried to change patients' opinions. Doctors mostly saw themselves as the central
- decision makers and wanted to continue treatment, when they believed that patients still had a chance to
- survive within the context of their specific pathology. Patients were seen as lacking the required expertise to
- 246 make a decision to withdraw therapy. Furthermore, their wishes were perceived as irrational/fluctuating, as

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they could change after a hopeful conversation with a healthcare professional, after appropriate treatment or after taking anti-depressants (see appendix table 23). Further, healthcare professionals saw it as their mission to save patients' lives, which was reinforced by their daily contact with many hopeful relatives of the patient who saw God as the ultimate decision maker. Consequently, not being able to save the patient was seen by some healthcare professionals as a personal failure. (see appendix table 24 and 25)

253 DISCUSSION

This ethnographic study investigates the state of the mental wellbeing of patients from ethnic minority groups and possible related risk factors for the development of mental health problems among these patients in a multi-ethnic ICU in Belgium. We found that the mental state of critically ill patients from ethnic minority groups is basically characterized by an 'extreme emotional loneliness'. Patients had several human basic needs for which they could not sufficiently turn to anybody, neither to their healthcare professionals, nor to their relatives, nor to other patients. It concerned the need for social contact, for non-medical information exchange, the need to increase comfort and alleviate pain, the need to express desperation, and participate in end-of-life decision making. Three interrelated risk factors for the development of mental health problems among the included patients were identified: firstly healthcare professionals' mainly biomedical approach to care, secondly the ICU context, and thirdly the patients' different ethno-cultural background. The mental wellbeing of patients from ethnic minority groups in a critical care setting is an under-researched topic. Although a body of research has recently begun to grow that focuses on the lifeworld of patients in a critical care context [see for example:2,3,7,9], still very few of these studies focus on specific vulnerable patient groups, e.g. patients from ethnic minority groups. As far as we know, this is the first study where the mental wellbeing of these patients is investigated in depth by means of an ethnographic research design. A study design of this kind is the most appropriate way to gain nuanced/deep insight into complex themes e.g. mental wellbeing of patients from ethnic minority groups in a critical care setting. Ethnographic day-by-day observations on the ward allow the study of patients' mental wellbeing as it is 'genuinely expressed' and from the perspective of the different people involved, from a non-prejudiced perspective. A

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weakness of this research could be the fact that the fieldwork was done in only one ICU. Therefore transferability to other situations must be done with caution. However, by spending a lot of time in a variety of situations (with 10 patients and their families, and all their healthcare professionals) it was possible to gain a rich insight into our sensitive research topic. There is no specific reason to believe our findings are not valuable for other similar settings. Our study shows that the patients included felt extremely emotionally lonely because several of their basic needs were insufficiently met. This seems to confirm previous research showing that ICU patients favour a holistic care approach and thus value attention from healthcare professionals not only to their bio-physiological needs but also to other general psycho-social and existential human needs, e.g. the need for social contact, for non-medical information exchange, religious needs and participation in decision making.[7,11,12,24] Healthcare professionals' care strategies were inspired by a biomedical model of care. According to this model, healthcare professionals primarily focus on the diagnosis, treatment, and cure of somatic problems, caused by biological processes and expressed in signs and symptoms. [25] Care is orchestrated by healthcare professionals who try to remove patients' disease as quickly as possible by applying evidence-based medicine, although 'trial and error' can play a role. Such care strategies go often together with enforcing regulatory frameworks (e.g. concerning visits) to safeguard patients' clinical condition, which is regarded as a central responsibility of healthcare professionals, a predominantly medical, unidirectional information flow interlaced with hope, little focus on psychosocial support, and minimal attention to patients' communication. These care strategies perfectly align with the ICU care context, characterized by the performance of life-saving tasks, making life and death decisions, a technological orientation, a specific regulatory framework and infrastructure (e.g. beds that are distant from each other, no telephone for patients), time pressure, uncertainty and professional stress. As a result, in ICUs, measurable, visual and auditable disease-related aspects are highly prioritized by staff, while less visible aspects, e.g. patients' emotions, are much less acknowledged. [5,7] On the other hand, taking into account patients' emotions becomes even more complex and challenging when patients have a different ethno-cultural background. The included patients' different ethno-cultural backgrounds entail specific characteristics on 3 interrelated levels: the patient's level (e.g. religious beliefs and

- collectivistic orientations), the family level (e.g. large and transnational family structures, specific views on care

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and suffering , communication forms and families' history of migration), and the level of patient-staff
 interaction (e.g. phenotypical features, language).
 Staff, occupied with urgent lifesaving care tasks, were frequently unable to react effectively to patients'
 verbal and non-verbal communications, often expressed by patients who completely lacked knowledge of the

305 language of the host country. However, adequately decoding ethno-culturally diverse patients' non-verbal

306 communication is crucial for optimal pain management and shared medical decision making.[26,27]

307 Furthermore, pressured healthcare professionals had little time to gain in-depth-knowledge of patients' level of

308 skill in the language of the host society. Therefore the staff easily developed misconceptions of patients'

309 language proficiency based, for example, on their general knowledge of the patient's country of origin or

310 specific phenotypical features, which led to inadequate communication or a complete absence of

311 communication with patients about their needs. Moreover, insufficiently satisfying specific needs which were

312 ethno-culturally inspired led to high emotional loneliness among patients. For example, a failure to meet

313 patients' needs for multiple types of social contact (e.g. proximity of others) strengthened by the collectivistic

314 orientation of their minority cultures, led to high emotional suffering among patients. Moreover, because

315 relatives shared ethno-cultural expectations towards patients to remain stoic and hopeful in difficult times,

316 they did not pay enough attention to patients' specific unique basic needs, i.e. their need to express

desperation and participate in end of life decisions, which made patients feel left behind. In line with this

318 finding, previous research has shown that overt communication about pain and sorrow between patients from

certain ethnic minority groups and their relatives is limited. [28] Additionally, relatives' high levels of hope

320 triggered healthcare professionals, caring for patients with an uncertain prognosis, to continue life-saving

321 treatments and reinforced their belief in their core responsibility to save patients' lives, while these patients'

322 voices were largely unheard. Likewise, previous research demonstrates that more aggressive interventions

323 occur at the end of the lives of patients from ethnic minority groups.[29] Relatives shared high levels of hope,

324 which were associated with an ethno-cultural non-disclosure of negative information by some relatives

325 towards other relatives, ethno-religious beliefs,[30] migration-related expectations towards an unlimited field

326 of medical possibilities in western hospitals, and group pressure among the many relatives to remain hopeful.

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329	This study shows that the mental state of patients from ethnic minority groups during critical care is alarming.
330	These patients had specific basic needs for which they could not sufficiently turn to anybody, leaving them in a
331	state of extreme emotional loneliness. Three interrelated risk factors for the development of mental health
332	problems among these patients were identified: firstly, healthcare professionals' mainly biomedical care
333	approach, secondly the ICU work context and thirdly the patients' different ethno-cultural background.
334	Mental health problems among patients, irrespective of their ethno-cultural background, can primarily be
335	reduced by investing in patient-centred care, which requires the implementation of intervention measures
336	stimulating the coexistence of biomedical and more holistic views on health and care among staff, on the level
337	of daily work, training and education, and ICU policy/organization. Such structural measures include staff
338	training in mental health, flexible visiting policies, the presence of a social worker on the ward, questioning the
339	division of labour and working hours, close cooperation with a psychologist/psychiatrist, etc. Additionally, in a
340	multi-ethnic ICU context, extra measures are urgently required, e.g. cultural sensitivity training for staff and
341	students, language facilitation, and the presence of religious figures on the ward. Further (evidence-based)
342	research is greatly needed to measure the specific impact of these recommendations in a multi-ethnic critical
343	care setting.
344	
345	Abbreviations
346	ICU, intensive care unit
347	
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352	Authors' contributions: RVK contributed to the research design, applied for the ethical approval, completed
353	the data collection, contributed to the data analysis, contributed to the interpretation of the data, wrote the
354	manuscript and is the guarantor of the manuscript. RD applied for the FWO grant, contributed to the research
355	design, applied for the ethical approval, contributed to the data analysis, contributed to the interpretation of
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2 3	356	the data and wrote the manuscript. LH applied for the FWO grant, contributed to the research design and	
4 5	357	applied for the ethical approval, contributed to the interpretation of the data and wrote the manuscript. JB	
6 7	358	applied for the FWO grant, contributed to the research design, applied for the ethical approval, contributed	to
8 9	359	the data analysis, contributed to the interpretation of the data, wrote the manuscript and is the guarantor of	of
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18 19	364	interpretation of the data and in writing the manuscript.	
20 21	365		
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24 25	367	Universiteit Brussel in December 2013.	
26 27	368		
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APPENDIX

Table 1

Patient: I've had enough... I've gone mad.

(..)

Researcher: But when your children are here, does that lift your spirits?

Patient: Yes, at the time...

Researcher: And at other times?

Patient: When they've gone? I'd like them to stay here longer.

[Field note, Norah]

Table 2

Patient: 'Telephone'.

..... Researcher: 'Do you want to use the telephone?'

Patient: 'Yes'.

Researcher: Who do you want to call?

(...)

Patient: 'Home'.

Researcher: 'Why'?

Patient: 'To say they have to come.'

[Field note, Zacharia]

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Table 3

When I come in the patient is writing, along with his daughter Barbara. I notice that he is already able to write better than in the previous days. He points to me and writes 'NAME' on the paper. So he is asking my name. Then he points to his daughter and writes 'Barbara' on the paper. I say my name and then write my name on the paper.

[...]

During the change of nursing shift, the following is said about the patient:

'The patient wants to write all the time'. A nurse remarks: '*But he writes in Arabic*!' (...)'. Annoyed, the nurse continues, saying: '*I'm not going to learn Arabic so that I can understand him! We can never get anything right*'. (...) The nurse storms angrily out of the meeting. Some of the other nurses look shocked but they continue with the meeting. Another nurse asks: '*How can he write? He can't even hold a glass, talk* ...' However the patient does not know any Arabic and speaks languages including French.

[field note, Quintus]

Table 4	2
Researcher: So there aren't many people you can talk to?	
Patient: Here in hospital?	
Researcher: Nods, uh huh	
Patient: No They don't answer you	
Researcher: Who?	
Patient: The nurses [] They came when I had almost gone mad.	
Researcher: And why?	
Patient: I don't know.	
	2

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Researcher: And wh	it do you think about that?			
Patient: Leave the h	ospital.			
[Field note, Norah]				
Table 5				
Patient: Is there a sid	k person over there?			
The patient lifts her	nead a little and looks curiou	isly at the bed in th	ne distance that is o	diagonally opposite h
bed. She can only ca	ch a glimpse of that bed			
Patient: She has bee	n ill for a week			
Researcher: There a	e six beds here			
[]				
Patient: Six in intens	ve care Is it serious?			
Researcher: Some a	e more seriously ill than oth	ers		
[Field note, Norah]				

Table 6

The doctor gives a medical explanation to the patient. (...) During the doctor's explanation, the patient looks questioningly at the doctor. She asks the doctor: '*When can I go to the room?*' (Meaning: The patient asks the doctor when she can leave the ICU and go to a room in another ward). The doctor says: '*today*'. [Field note, Norah]

Table 7

I try to talk about his medical situation with him (patient) a bit and say: 'Your cannula has gone' and point to his throat. He says bluntly: 'I'm not interested in that'. I'm shocked by what he says. I ask what does interest him. He says: 'My wife'.

[Field note, Zacharia]

Table 8

The patient is lying with his eyes open. He has to gasp for air the whole time, is looking around which makes him seem very frightened (...) A nurse comes to aspirate the phlegm. He simply carries out his task and does not speak to the patient. [Field note, Zacharia]

Table 9

Researcher: Erm, how did you experience your care for the patient? (..)

Nurse: Very difficult! Erm, not always easy. Erm. He wasn't always easy to deal with himself. The patient. Which is sometimes understandable, of course, if you are that ill. Erm, but because of the, the pressure of work we're actually under, sometimes you can erm, with him, not as much, I mean sometimes we couldn't give him as much time as we would like to. Erm and sometimes I find that the most difficult part of your job, that you do want to stay in a room longer sometimes to, well, to be able to talk to your patient a bit more, or take your time a bit more with everything, but that sometimes that's not possible because you've got other things to do and you have to say "No, I have to go!" and, erm, yes, that's pretty much that. If I just look at the patient themselves, I mean. [Interview with nurse Vanessa]

Table 10

The nurse comes into quarantine without saying anything to the patient. She looks at the medication and does several things on the PC. The patient looks at the nurse and says: *'tranquil'*, relax. I deduce from this that the patient wants to talk to the nurse. The nurse doesn't react to the patient's words. Then she pours the patient's urine into a plastic bottle. The patient asks me: *'What is she doing?'* I say to her: *'He's asking what you're doing'*. She replies in Dutch, a language the patient doesn't understand: *'I'm pouring his pee into a bottle'*. Then she leaves quarantine.

[Field note, Zacharia]

Table 11

10 minutes later, the patient is shivering with cold. He points to the blanket. He wants an extra blanket, but there are no nurses nearby. I leave quarantine again and go and ask the nurses for a blanket. One of them says: 'Now he's messing us around. I was with him just a moment ago. ' There was no response to his request. [Field note, Abdallah]

Table 12

I sit down at the nurses' table. The patient sees us and calls out to us in Arabic. The nurses stay where they are and say: '*It is annoying, though, that we don't understand them*' (...). Apparently these carers feel powerless. The patient continues to call out and complain, and waves her arms in the air. She also bangs her arms against her head. Clearly she is trying to tell us something. None of the carers go over to her.

[Field note, Fadila]

Table 13

I ask the nurses who are checking the parameters shown on the monitor by the patient's bed: 'Does he speak French?' One nurse answers: 'Yes, because French is an official language in Algeria, isn't it.' However the visitor

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told me that the patient only speaks Arabic. The patient is very distressed. 2 nurses stand around his bed after visiting hour and ask him in French: '*Can you breathe properly? Are you comfortable? Bilal, Bilal, are you comfortable?*' The patient is still very distressed and every time the nurses say something to him, he moves his head from left to right. (...) The carers therefore assume that this patient understands them on the basis of their presuppositions.

[Field note, Bilal]

Table 14

The patient clearly looks around when the nurse comes into the unit. The nurse notices but does not stop and consider the patient's conspicuous head movements. I ask the nurse: 'Do you think the patient can understand us?' He says: 'He's conscious, he's reacting because he is looking at me but I don't think he understands me (...) I think he only speaks Moroccan, he lives with his son and the family speak Moroccan with him.' However the patient does speak French.

[Field note, Zacharia]

Table 15

During the nurses' meeting in the unit, the patient's situation was discussed. Among other things, he is said not to be a difficult patient: *'He doesn't cause trouble, he's not in pain and he doesn't complain'*. It strikes me that the patient has little opportunity to 'complain' given that he had a cannula that rendered him unable to speak. Besides, according to the visitor, he does not speak Dutch, French or English, so he cannot speak to the nurses. It is also strange that the nurses decide he has no pain purely on the basis of the absence of verbal communication between the patient and the carers.

[field note, Bilal]

Patient: I'm not going to stay in intensive care, this place is death.

Researcher: Why?

Patient: I don't like it...Nobody comes, nobody listens... Even the nurses, one in ten glances your way for a moment, that's all ...(...) 'I can't manage yet, when I'm done'...Anyway, I don't like it.

[...]

The patient looks sad and dejected. She says to her daughter that she wants to be moved because her back hurts. She says the nurses aren't friendly to her and that they don't often come when she asks them to. Suddenly she starts to cry. [Field note, Norah]

Table 17

Patient: Nothing has changed...

Researcher: How does that feel?

(Silence; she's thinking)

Patient: It doesn't change anything.

Researcher: You don't think it changes anything? And why do you think that?

Patient: I'm disgusted with life.

Researcher: You're ...?

Patient: Disgusted with life.

Researcher: Disgusted with life ... And that means?

Patient: I've no more hope.....I want to leave the hospital...

[Field note, Norah]

Table 18

The nurse says that the patient is nervous and that that is why she is giving her a Xanax. The nurse speaks to the patient in Dutch, asking: '*Why are you nervous?!*, *You have to do your best, you know!!*'. I have the impression that the patient doesn't understand the nurse. (...) The patient says in French: 'Don't understand.'

[Field note, Norah]

Table 19

I hear from the nurses that the patient gets panic attacks, hyperventilates and that his heart rhythm has increased (...) During visiting hour the patient says to his wife: *'it's fucked,'* to which the wife replies hopefully: *'You'll get through it, you'll get better. The infection has gone down'*. The patient rolls his eyes at this. [Field note, Abdallah]

Table 20

In the meantime, the patient's daughter tells me her brother talked to another doctor the previous evening and that it was a 'good' conversation. The patient was apparently a bit better and they would see how he was later in the week. This has clearly given the daughter more hope today. However I witnessed the conversation the day before between the doctor and the patient's son from a distance and the news the doctor brought was not good news. I deduce from this that the patient's son is hiding the confronting information the doctor gave him from his sister and giving her a rosier picture of the patient's situation so that she would continue to hope. [Field note, Onur] BMJ Open: first published as 10.1136/bmjopen-2016-014075 on 27 September 2017. Downloaded from http://bmjopen.bmj.com/ on August 26, 2023 by guest. Protected by copyright.

Table 21

Then the uncle says: 'Will you fight for your children?' The patient nods. The uncle continues: 'You came out of the coma, that's a sign that you want to continue, that you want to fight. Your face looks better.' Then the patient shakes his head and lowers his eyes. (...) Then the patient's brother comes into quarantine. He flew over yesterday from Morocco. When he asks the patient how he is, the tone is more cheerful. The patient lifts his hand into the air and makes small, successive striking motions in the air, with which he means to indicate that his medical situation is improving. The brother laughs and says he saw him a while ago in a coma and that he is pleased he is now awake and eating. So he says to the patient that he sees clear progress. It is striking that the patient says to his brother who has flown over from Morocco that he is better, whereas he tells his wife and uncle that he is not doing well.

[field note, Abdallah (died in the ICU)]

Table 22

I ask him (the patient) if he is okay. He shakes his head, indicating '*no*', then breathes in and out loudly. He looks like a fish gasping for air. He means by this that he has difficulty breathing, even with the machines. He points to the machines. He looks angry and very sad at the same time. (...) He strikes the air with his hand, a gesture that I believe means he wants to give up. He points to the machines again and says '*that's useless*'. (...) The patient sighs and looks really contorted. I ask in French if he is in pain. '*Vous avez mal*'? He nods and points to his chest.

[Field note, Abdallah]

Table 23

I see the doctor walking into the unit. I go over to him for a moment and tell him about the patient's panic attacks. He says: 'That is normal, because he has already been in here for three months... We can hardly tell his body it has to stop... And even if the patient or family wanted us to stop treatment, we couldn't comply with

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that....I ask him: 'Why not?' He replies: 'The patient and his family are not competent to decide because they are in a phase of pain and emotion... If we say we are going to continue, we will continue...

[Field note, Abdallah]

Table 24

Nurse: And I think he had indicated a couple of times himself that he had had enough.

Researcher: How did he indicate that?

Nurse: Yes, by actually, erm by saying, and by saying "It doesn't help, does it! Don't do that, it doesn't help!"

He said that very often at the end.

Researcher: And who did he say that to then?

Nurse: He said it to me a couple of times. (...) He definitely said to me: "Just leave it like this, it's not going to,

you know..." Erm, but even helping to decide "We're going to stop!" I don't think he did that. (..)

[..]

Researcher: Erm, and did you talk about that to other people, about the fact that the man told you he would prefer the treatment to stop?

Nurse: Yes. Yes. We do tell each other that. Yes, I did say it to my colleagues, and to the doctor as well, that he wanted, that those words had been said and that that... Well it's heartbreaking, isn't it, because, well, somehow you know he's right but, you still do it, don't you.

Researcher: Yes. And how did the doctors react to this?

Nurse: It wasn't easy. Because the doctor also had real difficulty with it, to take the decision to let him go. Yes. I

think, well, at times like that, still not being able to admit it and saying anyway "We're going to keep going".

[Interview Nurse Vanessa]

Table 25
Nurse: I think the doctor, well, sometimes she gets really involved in the family's emotions too.
Researcher: She does?
Nurse: () With the gentleman too, I think she found it really difficult. As well as that, I think, well, it's different,
isn't it, it's anonymous, I'm going to say it, "I think that she sometimes sees it as a personal failure!"
Researcher:

Nurse: "I, I couldn't save the patient."

[interview nurse Conny]

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MENTAL WELLBEING OF PATIENTS FROM ETHNIC MINORITY GROUPS DURING CRITICAL CARE: A QUALITATIVE ETHNOGRAPHIC STUDY

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2 3	1	MENTAL WELLBEING OF PATIENTS FROM ETHNIC MINORITY GROUPS DURING CRITICAL CARE: A
4 5 6	2	QUALITATIVE ETHNOGRAPHIC STUDY
7 8 9	3	Rose-Lima Van Keer ¹ , Reginald Deschepper ² , Luc Huyghens ³ , Johan Bilsen ⁴
10 11	4	(1) Mental Health and Wellbeing Research Group (MENT), Department of Public Health, Faculty of
12 13	5	Medicine and Pharmacy, Vrije Universiteit Brussel
14 15	6	Laarbeeklaan 103 1090 Brussel
16 16 17	7	Brussels, Belgium
18 19	8	e-mail: rvkeer@vub.ac.be
20 21	9	(2) Mental Health and Wellbeing Research Group (MENT), Department of Public Health, Faculty of
22 23	10	Medicine and Pharmacy, Vrije Universiteit Brussel
23 24 25	11	Laarbeeklaan 103 1090 Brussel
26 27	12	Brussels, Belgium
28 29	13	e-mail: rdeschep@vub.ac.be
30 31	14	(3) Critical care Department/Service of Intensive Care Medicine, Vrije Universiteit Brussel;
32 33	15	Universitair Ziekenhuis Brussel
34 35	16	Laarbeeklaan 101 1090 Brussel
36 37	17	Brussels, Belgium
38 20	18	e-mail: Luc.Huyghens@uzbrussel.be
39 40	19	(4) Mental Health and Wellbeing Research Group (MENT), Department of Public Health, Faculty
41 42	20	of Medicine and Pharmacy, Vrije Universiteit Brussel
43 44	21	Laarbeeklaan 103 1090 Brussel
45 46	22	Brussels, Belgium
47 48 49	23	e-mail: johan.bilsen@vub.ac.be
50 51 52	24	Correspondence to: R. Van Keer rvkeer@vub.ac.be or +32 2 4774608
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56 57 58 59 60	26	Key words: intensive care units, patients, cultural diversity, communication, mental health

27 Abstract

Objectives: To investigate the state of the mental wellbeing of patients from ethnic minority groups

and possible related risk factors for the development of mental health problems among these

30 patients during critical medical situations in hospital.

Design: Qualitative ethnographic design.

Setting: 1 intensive care unit (ICU) of a multi-ethnic urban hospital in Belgium.

Participants: 84 ICU staff members, 10 patients from ethnic-minority groups, and their visiting family
 members.

Results: Patients had several human basic needs for which they could not sufficiently turn to anybody, neither to their healthcare professionals, nor to their relatives, nor to other patients. These needs included the need for social contact, the need to incpatientease comfort and alleviate pain, the need to express desperation and participate in end-of-life decision making. Three interrelated risk factors for the development of mental health problems among the patients included were identified: Firstly, healthcare professionals' mainly biomedical care approach (e.g. focus on curing the patient, limited psychosocial support), secondly, the ICU context (e.g. time pressure, uncertainty, regulatory frameworks) and thirdly, patients' different ethno-cultural background (e.g. religious and phenotypical differences).

Conclusions: The mental state of patients from ethnic minority groups during critical care is

45 characterized by extreme emotional loneliness. It is important that staff should identify and meet

46 patients' unique basic needs in good time with regard to their mental wellbeing, taking into account

47 important threats related to their own mainly biomedical approach to care, the ICU's structural

48 context as well as the patients' different ethno-cultural background.

2 3	50	Article summary
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5	۲1	Chronothe and limitations of this study.
6	51	Strengths and limitations of this study
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0 Q	52	• As far as we know, this is the first study where the mental wellbeing of patients from ethnic
9 10	52	minority groups is profoundly investigated by means of an ethnographic research design
11	54	minority groups is protounally investigated by means of an ethnographic rescurencesign.
12	55	By studying the mental wellbeing of these natients as is 'genuinely expressed' from multiple
13	56	nerspectives and in a contextual manner, through ethnographic fieldwork in an intensive
14	57	care unit of a multi-ethnic urban bospital in Belgium, we have tried to develop a nuanced
15	58	non-stereotypical and rich insight into such nations? mental wellbeing
16	50	non-stereotypical and nen insight into such patients mental wendenig.
17	59	
18	60	• One limitation of this research could be the fact that the fieldwork was done in only one ICU.
19	61	Therefore transferability to other situations must be done with caution. However, by
20	62	spending a lot of time in a variety of situations (with 10 patients and their families, and all
21	63	their healthcare professionals) it was possible to gain a rich insight into our sensitive research
22	64	topic.
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69 INTRODUCTION

Having a good mental health/wellbeing means more than not having a mental disorder. The WHO defines mental wellbeing as 'a state of well-being in which an individual realizes his or her own abilities, can cope with the normal stresses of life, can work productively and is able to make a contribution to his or her community'. It is perceived as crucial to our capacity as people to think, communicate with others, earn money and enjoy life. Risk factors include individual factors on e.g. the socio-economical level (e.g. being poor, having a low educational level), cultural level (e.g. belonging to an ethnic minority group) and behavioural level (e.g. having an unhealthy life style, having little sleep), contextual/structural factors (e.g. facing adverse work conditions, discrimination) and biological/genetical factors (e.g. being physically ill) [1,2]. It is then no surprise that during critical care patients' mental wellbeing comes under threat, and especially when other risk factors are involved, e.g. when patients have a different ethno-cultural background [3,4]. Hallucinations, fear, and depression frequently occur among patients admitted to the intensive care unit (ICU).[5-8] Several risk factors are identified, including invasive treatments, separation from family, physical pain, immobility, dependency, lack of control, lack of privacy and poor communication. [4,5,9,10, 11] Although disturbances in critically ill patients' mental health negatively affect their whole care process, healthcare professionals working in a critical care setting lack adequate strategies to improve patients' mental health. They are often not aware of patients' mental health problems as they mainly focus on the technological care aspects and lack training in mental care. Many critical care nurses for example do not have enough insight in the elements that might affect their patients' psychological state. [9,12] Furthermore in society at large, mental health problems remain a sensitive issue as such problems are often difficult acknowledged and talked about. Additionally, healthcare professionals have to communicate increasingly with patients from ethnic minority groups, i.e. persons of a different origin who share certain cultural characteristics to some extent [13], as a result of societies' increased ethno-cultural diversity. In Belgium, healthcare for migrants is basically organized in the same manner as for people from the ethnic majority group. However it is known that during the care for migrants problems regularly arise which are situated on mainly 2 levels, namely firstly health differences

95 (ethnic minorities have less chance on a healthy life than people from the ethnic majority group) and secondly

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96	problems regarding the accessibility and use of healthcare services (ethnic minorities have lower access to
97	healthcare services and receive less quality care than members of the ethnic majority group). Problems are
98	often very complex and related to different factors, such as linguistic and cultural differences. [14] We might
99	assume that critically ill patients from ethnic minority groups are at an even higher risk of mental health
100	problems and that ethno-cultural differences render mental health problems more complex and multifaceted.
101	Inattention by healthcare professionals to specific ethno-cultural habits (e.g. gender segregation),
102	discrimination, unfamiliarity with the western healthcare system and different foodways can contribute to
103	traumatic experiences for ethnic minorities.[15,16, 17, 18] Furthermore, language differences and ethno-
104	cultural norms prescribing acceptance of physical suffering can lead to less adequate communication and pain
105	relief[19,20], which can endanger such patients' psychological state.[7,15,21] Yet, although we increasingly live
106	in a multi-ethnic society, research about the mental wellbeing of patients from ethnic minority groups during
107	critical care is rather scarce and there are very few in-depth studies which try to understand this topic in its
108	specific context and from different angles.
109	In this study we therefore aim to investigate 'the state of the mental wellbeing of patients from ethnic
110	minority groups and possible related risk factors for the development of mental health problems among these
111	patients in a multi-ethnic ICU'. In-depth understanding of occurrences of mental health problems among
112	patients from ethnic minority groups can contribute to the development of recommendations to prevent such
113	problems for these patients.
114	
115	METHODS
116	Patients' mental wellbeing in a multi-ethnic critical care setting is a sensitive, complex, and novel topic of
117	research. Therefore an ethnographic research design has been used. which gave the researcher the
118	opportunity to immerse herself into her study field and study the research topic for a long period on the
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- 119 workfloor itself. By getting a feel of the lifeworld of the ICU, observing and interacting with different parties,
- 120 the researcher was able to grasp the research topic in all its different facets and from different angles.
 - 121 [22-24]

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122 Participants & setting

> Ethnographic fieldwork was done in one ICU of a multi-ethnic urban hospital in Belgium over 6 months (January 2014-June 2014). 40 % of the ICU patients are estimated to belong to an ethnic minority group. Staff's, patients', and relatives' behaviour, interactions, and experiences were studied for 360 hours. The selected patients and the family members who accompanied them, as well as their healthcare professionals, were followed for the whole critical period. No relationship was established with the research participants prior to the beginning of the study. Patients and their family members were purposefully selected and approached face-to-face. They were only eligible for inclusion in the study if the patient or at least one of his/her legal parents was born abroad, if at least one of the family members (patient/his or her relatives) was able to speak Dutch, French, or English, and if the patient was at least 18 years old. In total we selected 10 patients and their visiting family members, who were originally from Morocco, Algeria, Turkey, Congo and Portugal. No patients and relatives refused to participate. The patients were between 40 and 82 years old and consisted of 6 males and 4 females. They were admitted for complicated pneumonia (3), abdominal problems (1), heart problems (2), brain haemorrhage (2), cancer (1), and a severe accident (1). All patients were sedated for some time, and as a result were unable to communicate or only had limited ability to communicate, depending on the level of sedation. The critical care team consisted of 80 nurses and 12 doctors, who were almost all white Caucasians from the dominant ethnic group. 8 staff members refused to participate in the study. Of course also other people were present during the ethnographic fieldwork, e.g. doctors who mostly work in other wards. Research participants were aware of the researcher's reason for doing the research (improving intercultural communication in the ICU). (For further information about patients' characteristics: see table) **Data collection** Data were collected through triangulation of several data collection strategies, namely negotiated interactive observation, [22] in-depth- interviews with healthcare professionals, [23] and the reading of patients' medical records. In an ICU setting, typified among other things by time pressure and highly specialized lifesaving care

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tasks, it is very difficult for the researcher to fully participate in the core activities of social life on the ward. Therefore 'negotiated interactive observation' was chosen, meaning that before starting the observations the researcher always implicitly or explicitly asked permission for it to the research participants [22]. This technique enabled the researcher to gain the trust of the research participants easily. Negotiated interactive observation gave the researcher the opportunity to have 480 informal conversations with healthcare professionals, family members, and patients, attend 144 staff meetings, and witness 375 interactions between healthcare professionals, relatives, and patients during visiting hours. When the researcher was in the ICU she made notes in a logbook. After the researcher had left the ICU, she transformed these notes into comprehensive descriptive field notes containing observations of participants' discourse, behaviour, and interaction, informal conversations with them as well as researcher's reflections on her behaviour and feelings in the field. [23] Formal in-depth- interviews were held with nine healthcare professionals in two meeting rooms in the hospital. The interview questions were based on an interview guide, which was discussed among experts before the actual data collection started and pilot tested among a limited number of persons. The interviews lasted between 50 minutes and 1h30 and were audio recorded. Interview transcripts were not returned to the research participants for comments or corrections. All data were collected by the first author (RVK), a trained ethnographer and sociologist (MSc) who was doing academic scientific research at university at the time of the study. She is extensively trained in qualitative research.

167 Data analysis

The analysis started with a 'thick description' [25] of participants' discourse, behaviour, and interaction and was followed by a grounded theory analysis.[26] In depth-interviews were transcribed, and data were conceptualized by means of a three-step coding process, supported by NVIVO 8 (QSR International, 2008). This process resulted in the creation of a conceptual model, consisting of different themes and subthemes. Firstly, an open coding phase was performed, involving the reading and rereading of the data. This resulted in the formation of different codes, for instance 'physical contact', 'proximity', and 'fighting'. To find similarities and differences between these codes, new codes were constantly compared with already existing codes. Secondly,

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axial coding took place. This led to the formation of groupings of similar codes, i.e. categories, for example 'social contact' and 'saving patient'. Relationships between the categories were also established, for instance 'basic needs' and 'care strategies'. Thirdly, selective coding was performed to determine the core category ('emotional loneliness') around which the related categories are clustered.[26,27] Data collection and analysis were stopped when the point of saturation was reached. [26,28] Reliability was strengthened by the first author (RVK) doing the data analysis and two co-authors (RD & JB) doing a peer-revision of the analysis. The process of data collection and data analysis was also regularly discussed by members of the multidisciplinary academic research group in which these authors participate, consisting of a health scientist, a psychiatric nurse, 2 anthropologists, and 1 sociologist. To improve the reliability and accuracy of the study, the results were also read by an intensive care specialist who is part of the intensive care team at the hospital in which the researcher did her fieldwork. Furthermore the study results were presented to and discussed with the nurses who had participated in this study during a conference. Ethics The research protocol (reference 2013/371) was approved by the university ethics committee of the Vrije Universiteit Brussel. The privacy of the research participants and confidentiality of the data were respected, e.g. by using pseudonyms. Written consent to participation in the study was sought from healthcare professionals, family members, and patients who were still able to communicate. If the patient lacked the capacity to give consent, consent was sought from his/her legal representative. RESULTS

197 The patients included were admitted for complicated pneumonia (3), abdominal problems (1), heart problems 198 (2), brain haemorrhage (2), cancer (1), and trauma (1). Mental health problems came overtly to the fore among 199 patients. Patients had several basic needs for which they could not sufficiently turn to anybody, neither to their 200 healthcare professionals, nor to their relatives, nor to other patients. These needs comprised 'the need for

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201	social contact, non-medical information exchange, the need to increase comfort and alleviate pain, the need to	Э
202	express desperation, and to participate in end-of-life decision making'.	
203		
204	1) Need for social contact	
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206	Patients longed for social contact with relatives, healthcare professionals and other patients, and not only	
207	verbally but also non-verbally. This need became even more significant when patients were unable to	
208	communicate verbally as a result of their medical state and/or language differences. More specifically, patient	S
209	longed for proximity of others, physical contact, and chatting.	
210	Patients wanted their relatives and friends to be close to them, felt the need to touch and/or kiss them and	ł
211	talk or write to them. Therefore, patients wanted their loved ones to stay longer than accepted during visiting	
212	time, to come more often, or to take them back home (see appendix table 1a). Some patients also wanted to	
213	phone home to request visits from relatives (see appendix table 1b). Furthermore, patients wanted healthcare	<u>}</u>
214	professionals to communicate more often with them (see appendix table 1c). However, the rules concerning	
215	visits, the infrastructure/ accommodation (e.g. no telephone) and healthcare professionals' focus on the	
216	patients' disease made it difficult for staff to fully satisfy patients' need for social contact. Moreover, pressure	
217	of work and time made it tough to communicate with patients. Furthermore language differences and	
218	misconceptions of healthcare professionals towards patients' ability to communicate in the language of the	
219	host country, sometimes based on patients' different skin colour, endangered the meeting of patients' social	
220	needs. (see appendix table 1d). Some patients also felt the urge to connect with other patients. This became	
221	indirectly apparent when patients stared at other beds and/or asked questions about other patients'	
222	conditions. Nonetheless, infrastructural constraints (e.g. remote beds) and language differences made	
223	communication between patients impossible. (see appendix table 1e)	
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226 2) Need for non-medical information exchange with healthcare professionals

The information exchange between doctors and patients was primarily of a medical nature. When patients were conscious, doctors explained to patients their medical situation, which medical actions they had undertaken as well those they would undertake in the future, and which medical decisions had been taken. However, patients not only felt the need to get medical information regarding their physical state from healthcare professionals, but equally to exchange information with them on matters that were not strictly medical, e.g. practical issues, visual aspects (e.g. activities going on around them) and their family (see appendix table 2a and 2b). Furthermore, nurses regularly did not communicate with patients or only communicated with them in a task-related manner (see appendix table 2c). Despite healthcare professionals' good intentions, they often perceived it as impossible to communicate with patients about non-medical issues due to their prime task of safeguarding the patients' clinical state, time pressure, and their workload (see appendix table 2d). Also language differences made communication between

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238 patients and healthcare professionals about non-medical matters more difficult (see appendix table 2e). In

addition, communication with relatives about non-medical issues was limited as well. Relatives often focused

on their search for exhaustive medical information from doctors, which was reinforced by group pressure

241 within their families, during the restricted visiting hours.

242 3) Need to increase comfort and alleviate pain

Patients wanted to increase their comfort and be free from pain. This need was often expressed through verbal and non-verbal communication. Patients verbally requested acts of care to increase comfort in the language of the host society or in their own mother tongue. They also often indirectly requested comfort-increasing care by expressing their suffering through non-verbal signs, e.g. pointing with their heads. However, sometimes these expressions of patients' hardship were not noticed, minimally acknowledged, not apprehended or misunderstood, even neglected, normalized or temporarily medically suppressed by giving tranquilizers, by healthcare professionals. Inadequately meeting patients' need for comfort and pain alleviation was related to healthcare professionals' workload, time pressure, their focus on strictly medical care task and actual/falsely perceived language differences. Consequently, comfort and pain was often addressed based on healthcare

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professionals' unilateral assessment, sometimes leading to mistrust between themselves and patients and
irritation and insecurity occurred on both sides (see appendix table 3a).

Patients' non-verbal care requests were sometimes not seen or neglected by healthcare professionals
because they were too occupied with medical care tasks. Apprehension by healthcare professionals of patients'
verbal messages was sometimes hampered by language differences (see appendix table 3b). Moreover, when
patients' non-verbal expressions of suffering were noticed, communication with patients sometimes unfolded
inadequately or no communication occurred. This was sometimes related to healthcare professionals'
misconceptions of patients' language proficiency, based on the very quick and minimal moments of interaction

they had with patients and relatives and patients' different skin colour. Also staff's general knowledge of

261 patients' country of origin which they sometimes easily applied to all patients from that country contributed to

these misconceptions (see appendix table 3c).

263 On the other hand, some patients who were at moments totally unable to communicate as a result of 264 medical and linguistic barriers were automatically perceived as quiet patients who were comfortable/painless 265 (see appendix table 3d). When patients experienced discomfort for a longer time some of them did not want to 266 ask healthcare professionals for help anymore and wanted to leave the ICU (see appendix table 3e).

268 4) Need to express desperation

Among some patients, feelings of desperation were observed at times. Some of them wanted to leave the
hospital, others wanted to completely give up treatment (see appendix table 4a). Patients felt the need to

- 271 express and share these feelings with others. However, patients regularly felt obliged to suppress their
- 272 hopelessness during critical care in front of healthcare professionals and relatives, resulting in frustration and273 sadness.

Healthcare professionals did not stimulate expressions of desperation. They frequently presented patients
with their situation in a hopeful manner and tried to motivate them to not give up, leaving little space for
patients to express their negative feelings. And even when patients did express their hopelessness, healthcare

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277 professionals often did not respond. Moreover, when patients became very overtly anxious/hopeless,

tranquilizers/antidepressants were given (see appendix table 4b).

279 Additionally, family members remained hopeful and consequently also spoke in a hopeful tone to patients

- 280 (see appendix table 4c). Relatives' religious beliefs and high expectations for cure in western hospitals
- 281 functioned as sources of hope. Furthermore, negative information was hidden for some family members by
- 282 other relatives so as to not create unrest within their large transnational families, which affected relatives'
- 283 positive outlook on the patients' situation (see appendix table 4d). Additionally, families' considerable size led
- 284 to group pressure among its members to remain hopeful. Moreover, patients themselves presented their
- situation in a more positive manner towards visiting relatives coming from the home country so as to not worry
- their relatives there (see appendix table 4e).

289 5) Need to participate in end-of-life decision making

290 Enduring physical and mental suffering triggered a need for some patients to participate in a decision to

291 withdraw therapy. This need was verbally and non-verbally expressed at several points (see appendix table 5a).

However healthcare professionals regularly acknowledged these patients' communication only minimally, neglected it, forgot it or tried to change patients' opinions. Doctors mostly saw themselves as the central decision makers and wanted to continue treatment, when they believed that patients still had a chance to survive within the context of their specific pathology. Patients were seen as lacking the required expertise to make a decision to withdraw therapy. Furthermore, their wishes were perceived as irrational/fluctuating, as they could change after a hopeful conversation with a healthcare professional, after appropriate treatment or after taking anti-depressants (see appendix table 5b). Further, healthcare professionals saw it as their mission to save patients' lives, which was reinforced by their daily contact with many hopeful relatives of the patient who saw God as the ultimate decision maker. Consequently, not being able to save the patient was seen by some healthcare professionals as a personal failure. (see appendix table 5c)

DISCUSSION

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304	Health has
305	This ethnographic study investigates the state of the mental wellbeing of patients from ethnic minority groups
306	and possible related risk factors for the development of mental health problems among these patients in a
307	multi-ethnic ICU in Belgium. We found that the mental state of critically ill patients from ethnic minority groups
308	is basically characterized by an 'extreme emotional loneliness'. Patients had several human basic needs for
309	which they could not sufficiently turn to anybody, neither to their healthcare professionals, nor to their
310	relatives, nor to other patients. It concerned the need for social contact, for non-medical information
311	exchange, the need to increase comfort and alleviate pain, the need to express desperation, and participate in
312	end-of-life decision making. Three interrelated risk factors for the development of mental health problems
313	among the included patients were identified: firstly healthcare professionals' mainly biomedical approach to
314	care, secondly the ICU context, and thirdly the patients' different ethno-cultural background.
315	The mental wellbeing of patients from ethnic minority groups in a critical care setting is an under-
316	researched topic. Although a body of research has recently begun to grow that focuses on the lifeworld of
317	patients in a critical care context [see for example:4,5,9,12], still very few of these studies focus on specific
318	vulnerable patient groups, e.g. patients from ethnic minority groups, and mental health issues. Furthermore
319	some researchers that do focus on critically ill patients from ethnic minority groups study their experiences
320	mainly through interviews with patients, their relatives or staff [see for example: 15, 29]. So as far as we know,
321	this is the first study where specifically the mental wellbeing of patients from ethnic minority groups is
322	investigated in one particular context, namely the critical care context, by means of an ethnographic research
323	design. A study design of this kind is the most appropriate way to gain nuanced/deep insight into complex
324	themes e.g. mental wellbeing of patients from ethnic minority groups in a critical care setting. Ethnographic
325	day-by-day observations on the ward allow the study of patients' mental wellbeing as it is 'genuinely
326	expressed' and from the perspective of the different people involved, from a non-prejudiced perspective.
327	The researcher might have had an impact on the field and the research findings as she herself has a non-
328	Belgian ethnic background and collected data for a long period which enabled her to gain a lot of trust from
329	patients and their families and made the latter speak to her in a very open manner. This subjectivity is a basic

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 feature of qualitative ethnographic research [23]. A weakness of this research could be the fact that the fieldwork was done in only one ICU. Therefore transferability to other situations must be done with caution. However, by spending a lot of time in a variety of situations (with 10 patients and their families, and all their healthcare professionals) it was possible to gain a rich insight into our sensitive research topic. There is no specific reason to believe our findings are not valuable for other similar settings. Another weakness of this study is that the researcher has only used a limited amount of ethnographic data collection techniques (in-depth interviews only with staff, negotiated interactive observation, consulting patients' medical files). This can be explained by the fact the specific ICU setting and the vulnerability of the patients and their relatives don't allow other techniques, such as video recording and full participant observation, for ethical reasons. Our study shows that the patients included felt extremely emotionally lonely because several of their basic needs were insufficiently met. This seems to confirm previous research showing that ICU patients favour a holistic care approach and thus value attention from healthcare professionals not only to their bio-physiological needs but also to other general psycho-social and existential human needs, e.g. the need for social contact, for non-medical information exchange, religious needs and participation in decision making.[9,15,16,30] Healthcare professionals' care strategies were inspired by a biomedical model of care. According to this model, healthcare professionals primarily focus on the diagnosis, treatment, and cure of somatic problems, caused by biological processes and expressed in signs and symptoms.[31] Care is orchestrated by healthcare professionals who try to remove patients' disease as quickly as possible by applying evidence-based medicine, although 'trial and error' can play a role. Such care strategies go often together with enforcing regulatory frameworks (e.g. concerning visits) to safeguard patients' clinical condition, which is regarded as a central responsibility of healthcare professionals, a predominantly medical, unidirectional information flow interlaced with hope, little focus on psychosocial support, and minimal attention to patients' communication. These care strategies perfectly align with the ICU care context, characterized by the performance of life-saving tasks, making life and death decisions, a technological orientation, a specific regulatory framework and infrastructure (e.g. beds that are distant from each other, no telephone for patients), time pressure, uncertainty and professional stress. As a result, in ICUs, measurable, visual and auditable disease-related aspects are highly prioritized by staff, while less visible aspects, e.g. patients' emotions, are much less acknowledged. [7,9] On the

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3	358	other hand, taking into account patients' emotions becomes even more complex and challenging when
4 5	359	patients have a different ethno-cultural background. The included patients' different ethno-cultural
6 7	360	backgrounds entail specific characteristics on 3 interrelated levels: the patient's level (e.g. religious beliefs and
8 9	361	collectivistic orientations), the family level (e.g. large and transnational family structures, specific views on care
10 11	362	and suffering , communication forms and families' history of migration), and the level of patient-staff
12 13	363	interaction (e.g. phenotypical features, language).
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15 16	364	Staff, occupied with urgent lifesaving care tasks, were frequently unable to react effectively to patients'
17 18	365	verbal and non-verbal communications, often expressed by patients who completely lacked knowledge of the
19 20	366	language of the host country. However, adequately decoding ethno-culturally diverse patients' non-verbal
21 22	367	communication is crucial for optimal pain management and shared medical decision making.[32,33]
23 24	368	Furthermore, pressured healthcare professionals had little time to gain in-depth-knowledge of patients' level of
25 26	369	skill in the language of the host society. Therefore the staff easily developed misconceptions of patients'
27 28	370	language proficiency based, for example, on their general knowledge of the patient's country of origin or
29 30	371	specific phenotypical features, which led to inadequate communication or a complete absence of
31 32	372	communication with patients about their needs. Moreover, insufficiently satisfying specific needs which were
33 34	373	ethno-culturally inspired led to high emotional loneliness among patients. For example, a failure to meet
35 36	374	patients' needs for multiple types of social contact (e.g. proximity of others) strengthened for some patients by
37 38	375	the collectivistic orientation of their minority cultures, led to high emotional suffering among particular
39 40	376	patients. Moreover, because relatives shared ethno-cultural expectations towards patients to remain stoic and
41 42	377	hopeful in difficult times, they did not pay enough attention to patients' specific unique basic needs, i.e. their
43 44	378	need to express desperation and participate in end of life decisions, which made patients feel left behind. In
45 46	379	line with this finding, previous research has shown that overt communication about pain and sorrow between
47 48	380	patients from certain ethnic minority groups and their relatives is limited.[34] Additionally, relatives' high levels
49 50	381	of hope triggered healthcare professionals, caring for patients with an uncertain prognosis, to continue life-
51 52	382	saving treatments and reinforced their belief in their core responsibility to save patients' lives, while these
53 54	383	patients' voices were largely unheard. Likewise, previous research demonstrates that more aggressive
55 56	384	interventions occur at the end of the lives of patients from ethnic minority groups.[35] Relatives shared high
57 58 59	385	levels of hope, which were associated with an ethno-cultural non-disclosure of negative information by some

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relatives towards other relatives, ethno-religious beliefs, [29] migration-related expectations towards an unlimited field of medical possibilities in western hospitals, and group pressure among the many relatives to remain hopeful. Finally, another striking observation is that not only patients' mental health but also the mental state of healthcare professionals working in such interethnic critical medical situations can become severely threatened due to their experiences of powerlessness towards meeting some of their patients' human basic needs. This can further negatively affect patients' mental state. Our study results are certainly also of relevance to patients from majority ethnic backgrounds because we found that the ICU context and staff's biomedical approach, factors to which all patients are exposed, hindered the satisfaction of several human basic needs which are shared by all patients irrespective of their ethno-cultural background. Patients from ethnic minority groups their different ethno-cultural background forms an extra important risk factor for not meeting their basic needs. Of course the relative importance of this risk factor is different for each patient. Mental health problems among patients, irrespective of their ethno-cultural background, can primarily be reduced by investing in patient-centred care, which requires the implementation of intervention measures stimulating the coexistence of biomedical and more holistic views on health and care among staff, on the level of daily work, training and education, and ICU policy/organization. Such structural measures include staff training in mental health, flexible visiting policies, the presence of a social worker on the ward, questioning the division of labour and working hours, close cooperation with a psychologist/psychiatrist, etc. Additionally, in a multi-ethnic ICU context, extra measures are urgently required, e.g. cultural sensitivity training for staff and students, language facilitation, and the presence of religious figures on the ward. Further (evidence-based) research is greatly needed to measure the specific impact of these recommendations in a multi-ethnic critical care setting. CONCLUSION

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Abbreviations

ICU, intensive care unit

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The followed patients had specific basic needs for which they could not sufficiently turn to anybody, leaving

them in a state of extreme emotional loneliness. Three interrelated risk factors for the development of mental

health problems among these patients were identified: firstly, healthcare professionals' mainly biomedical care

approach, secondly the ICU work context and thirdly the patients' different ethno-cultural background.

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the data collection, contributed to the data analysis, contributed to the interpretation of the data, wrote the

manuscript and is the guarantor of the manuscript. RD applied for the FWO grant, contributed to the research

design, applied for the ethical approval, contributed to the data analysis, contributed to the interpretation of

the data and wrote the manuscript. LH applied for the FWO grant, contributed to the research design and

applied for the ethical approval, contributed to the interpretation of the data and wrote the manuscript. JB

applied for the FWO grant, contributed to the research design, applied for the ethical approval, contributed to

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the manuscript. All the authors read and approved the final manuscript.

interpretation of the data and in writing the manuscript.

Universiteit Brussel in December 2013.

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APPENDIX

(Note: all the names are pseudonyms)

TABLE 1. NEED FOR SOCIAL CONTACT

a) Longer visits

Patient: I've had enough... I've gone mad.

(..)

Researcher: But when your children are here, does that lift your spirits?

Patient: Yes, at the time...

Researcher: And at other times?

Patient: When they've gone? I'd like them to stay here longer.

[Field note, Norah]

b) Phone home

Patient: 'Telephone'.

Researcher: 'Do you want to use the telephone?'

Patient: 'Yes'.

Researcher: Who do you want to call?

(...)

Patient: 'Home'.

Researcher: 'Why'?

Patient: 'To say they have to come.'

[Field note, Zacharia]

c) More communication with staff

Researcher: So there aren't many people you can talk to?

Patient: Here in hospital?

Researcher: Nods, uh huh...

Patient: No... They don't answer you ...

Researcher: Who?

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Patient: The nurses [...] They came when I had almost gone mad.

Researcher: And why?

Patient: I don't know.

Researcher: And what do you think about that?

Patient: Leave the hospital.

[Field note, Norah]

d) Misconceptions of staff towards patients' language proficiency

When I come in the patient, a dark-skinned man, is writing, along with his daughter Barbara. I notice that he is already able to write better than in the previous days during which he wrote a lot of indecipherable signs on the paper. He points to me and writes 'NAME' on the paper. So he is asking my name. Then he points to his daughter and writes 'Barbara' on the paper. I say my name and then write my name on the paper.

[...]

During the change of nursing shift, the following is said about the patient:

'The patient wants to write all the time'. A nurse remarks: '*But he writes in Arabic*!' (...)'. Annoyed, the nurse continues, saying: '*I'm not going to learn Arabic so that I can understand him! We can never get anything right*'. (...) The nurse storms angrily out of the meeting. Some of the other nurses look shocked but they continue with the meeting. Another nurse asks: '*How can he write? He can't even hold a glass, talk ...*' However the patient does not know any Arabic and can talk French, an official language in Belgium. Apparently the nurse wrongfully believed that the patient could only talk a foreign language because he has a different skin colour and has been writing a lot of unreadable signs lately. [field note, Quintus]

e) Infrastructural constraints

Patient: Is there a sick person over there?

The patient lifts her head a little and looks curiously at the bed in the distance that is diagonally opposite her bed. She can only catch a glimpse of that bed ...

Patient: She has been ill for a week ...

[...]

Patient: Six in intensive care... Is it serious?

Researcher: Some are more seriously ill than others...

[Field note, Norah]

TABLE 2. NEED FOR NON-MEDICAL INFORMATION EXCHANGE WITH HEALTHCARE PROFESSIONALS

a) Practicalities

The doctor gives a medical explanation to the patient. (...) During the doctor's explanation, the patient looks questioningly at the doctor. She asks the doctor: '*When can I go to the room?*' (Meaning: The patient asks the doctor when she can leave the ICU and go to a room in another ward). The doctor says: '*today*'. [Field note, Norah]

b) Family

I try to talk about his medical situation with him (patient) a bit and say: 'Your cannula has gone' and point to his throat. He says bluntly: 'I'm not interested in that'. I'm shocked by what he says. I ask what does interest him. He says: 'My wife'.

[Field note, Zacharia]

c) No communication from staff

The patient is lying with his eyes open. He has to gasp for air the whole time, is looking around which makes him seem very frightened (...) A nurse comes to aspirate the phlegm. He simply carries out his task and does not speak to the patient.

[Field note, Zacharia]

d) Time pressure and workload

Researcher: Erm, how did you experience your care for the patient? (..)

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Nurse: Very difficult! Erm, not always easy. Erm. He wasn't always easy to deal with himself. The patient. Which is sometimes understandable, of course, if you are that ill. Erm, but because of the, the pressure of work we're actually under, sometimes you can erm, with him, not as much, I mean sometimes we couldn't give him as much time as we would like to. Erm and sometimes I find that the most difficult part of your job, that you do want to stay in a room longer sometimes to, well, to be able to talk to your patient a bit more, or take your time a bit more with everything, but that sometimes that's not possible because you've got other things to do and you have to say "No, I have to go!" and, erm, yes, that's pretty much that. If I just look at the patient themselves, I mean.

[Interview with nurse Vanessa]

e) Language differences

The nurse comes into quarantine without saying anything to the patient. She looks at the medication and does several things on the PC. The patient looks at the nurse and says: '*tranquil*', relax. I deduce from this that the patient wants to talk to the nurse. The nurse doesn't react to the patient's words. Then she pours the patient's urine into a plastic bottle. The patient asks me: '*What is she doing?*' I say to her: '*He's asking what you're doing*'. She replies in Dutch, a language the patient doesn't understand: '*I'm pouring his pee into a bottle'*. Then she leaves quarantine.

[Field note, Zacharia]

TABLE 3. NEED TO INCREASE COMFORT AND ALLEVIATE PAIN

a) Mistrust and irritation

10 minutes later, the patient is shivering with cold. He points to the blanket. He wants an extra blanket, but there are no nurses nearby. I leave quarantine again and go and ask the nurses for a blanket. One of them says: 'Now he's messing us around. I was with him just a moment ago. ' There was no response to his request.

[Field note, Abdallah]

b) Language differences

I sit down at the nurses' table. The patient sees us and calls out to us in Arabic. The nurses stay where they are and say: '*It is annoying, though, that we don't understand them*' (...). Apparently these carers feel powerless. The patient continues to call out and complain, and waves her arms in the air. She also bangs her arms against her head. Clearly she is trying to tell us something. None of the carers go over to her. [Field note, Fadila]

c) Misconceptions of staff towards patients' language proficiency

I ask the nurses who are checking the parameters shown on the monitor by the patient's bed: 'Does he speak French?' One nurse answers: 'Yes, because French is an official language in Algeria, isn't it.' However the visitor told me that the patient only speaks Arabic. The patient is very distressed. 2 nurses stand around his bed after visiting hour and ask him in French: 'Can you breathe properly? Are you comfortable? Bilal, Bilal, are you comfortable?' The patient is still very distressed and every time the nurses say something to him, he moves his head from left to right. (...) The carers therefore assume that this patient understands them on the basis of their presuppositions.

[Field note, Bilal]

d) Quiet comfortable patient

During the nurses' meeting in the unit, the patient's situation was discussed. Among other things, he is said not to be a difficult patient: '*He doesn't cause trouble, he's not in pain and he doesn't complain'*. It strikes me that the patient has little opportunity to 'complain' given that he had a cannula that rendered him unable to speak. Besides, according to the visitor, he does not speak Dutch, French or English, so he cannot speak to the nurses. It is also strange that the nurses decide he has no pain purely on the basis of the absence of verbal communication between the patient and the carers.

[field note, Bilal]

e) Wish to leave the ICU

Patient: I'm not going to stay in intensive care, this place is death.

Researcher: Why?

Suddenly she starts to cry.

[...]

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Patient: I don't like it...Nobody comes, nobody listens... Even the nurses, one in ten glances your way for a

The patient looks sad and dejected. She says to her daughter that she wants to be moved because her back

hurts. She says the nurses aren't friendly to her and that they don't often come when she asks them to.

moment, that's all ...(...) 'I can't manage yet, when I'm done'...Anyway, I don't like it.

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[Field note, Norah]
TABLE 4. NEED TO EXPRESS DESPERATION
a) Wish to give up treatment and leave the hospital
Patient: Nothing has changed...
Researcher: How does that feel?
(Silence; she's thinking)
Patient: It doesn't change anything.
Researcher: You don't think it changes anything? And why do you think that?
Patient: I'm disgusted with life.
Researcher: You're...?
Patient: Disgusted with life ... And that means?
Patient: I've no more hope......I want to leave the hospital...
[Field note, Norah]

b) Tranquilizers

The nurse says that the patient is nervous and that that is why she is giving her a Xanax. The nurse speaks to the patient in Dutch, asking: '*Why are you nervous?!, You have to do your best, you know!!*'. I have the impression that the patient doesn't understand the nurse. (..) The patient says in French: 'Don't understand.' [Field note, Norah]

c) Hopeful relatives

 I hear from the nurses that the patient gets panic attacks, hyperventilates and that his heart rhythm has increased (...) During visiting hour the patient says to his wife: '*it's fucked*,' to which the wife replies hopefully: '*You'll get through it, you'll get better. The infection has gone down'*. The patient rolls his eyes at this.

[Field note, Abdallah]

d) Relatives hiding negative medical information for each other

In the meantime, the patient's daughter tells me her brother talked to another doctor the previous evening and that it was a 'good' conversation. The patient was apparently a bit better and they would see how he was later in the week. This has clearly given the daughter more hope today. However I witnessed the conversation the day before between the doctor and the patient's son from a distance and the news the doctor brought was not good news. I deduce from this that the patient's son is hiding the confronting information the doctor gave him from his sister and giving her a rosier picture of the patient's situation so that she would continue to hope.

[Field note, Onur]

e) Patient more positive towards relatives from his home country

Then the uncle says: 'Will you fight for your children?' The patient nods. The uncle continues: 'You came out of the coma, that's a sign that you want to continue, that you want to fight. Your face looks better.' Then the patient shakes his head and lowers his eyes. (...) Then the patient's brother comes into quarantine. He flew over yesterday from Morocco. When he asks the patient how he is, the tone is more cheerful. The patient lifts his hand into the air and makes small, successive striking motions in the air, with which he means to indicate that his medical situation is improving. The brother laughs and says he saw him a while ago in a coma and that he is pleased he is now awake and eating. So he says to the patient that he sees clear progress. It is striking that the patient says to his brother who has flown over from Morocco that he is better, whereas he tells his wife and uncle that he is not doing well. [field note, Abdallah (died in the ICU)]

TABLE 5. NEED TO PARTICIPATE IN END-OF-LIFE DECISION MAKING

a) Verbal and non-verbal communication by patient

I ask him (the patient) if he is okay. He shakes his head, indicating '*no*', then breathes in and out loudly. He looks like a fish gasping for air. He means by this that he has difficulty breathing, even with the machines. He points to the machines. He looks angry and very sad at the same time. (...) He strikes the air with his hand, a gesture that I believe means he wants to give up. He points to the machines again and says '*that's useless*'. (...) The patient sighs and looks really contorted. I ask in French if he is in pain. '*Vous avez mal*'? He nods and points to his chest.

[Field note, Abdallah]

b) Patient seen as incompetent by staff

I see the doctor walking into the unit. I go over to him for a moment and tell him about the patient's panic attacks. He says: 'That is normal, because he has already been in here for three months... We can hardly tell his body it has to stop... And even if the patient or family wanted us to stop treatment, we couldn't comply with that....I ask him: 'Why not?' He replies: 'The patient and his family are not competent to decide because they are in a phase of pain and emotion... If we say we are going to continue, we will continue... [Field note, Abdallah]

c) Saving the patient as doctors' mission

Nurse: And I think he had indicated a couple of times himself that he had had enough.

Researcher: How did he indicate that?

Nurse: Yes, by actually, erm by saying, and by saying "It doesn't help, does it! Don't do that, it doesn't help!"

He said that very often at the end.

Researcher: And who did he say that to then?

Nurse: He said it to me a couple of times. (...) He definitely said to me: "Just leave it like this, it's not going

to, you know..." Erm, but even helping to decide "We're going to stop!" I don't think he did that. (..)

[..]

Researcher: Erm, and did you talk about that to other people, about the fact that the man told you he would prefer the treatment to stop?

Nurse: Yes. Yes. We do tell each other that. Yes, I did say it to my colleagues, and to the doctor as well, that he wanted, that those words had been said and that that... Well it's heartbreaking, isn't it, because, well,

somehow you know he's right but, you still do it, don't you.

Researcher: Yes. And how did the doctors react to this?

Nurse: It wasn't easy. Because the doctor also had real difficulty with it, to take the decision to let him go. Yes. I think, well, at times like that, still not being able to admit it and saying anyway "We're going to keep going".

[Interview Nurse Vanessa]

Patients' characteristics

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Consolidated criteria for reporting	qualitative studies	(COREQ): 32-item
checklist		

No	Item	Guide questions/description	Answer (including page number where the item can be found)
Doma	n 1: Research team a	nd reflexivity	
1	Interviewer/facilitator	Which author/s conducted the interview or focus group?	RVK conducted the entire data collection (including interviews): see p. 7 line 163-165.
2	Credentials	What were the researcher's credentials? <i>E.g. PhD, MD</i>	The researcher is MSc in sociology and MSc in social and cultural anthropology. She is extensively trained in qualitative research. Researcher's credentials were added in the revised manuscript: see p. 7, line 163-165
3	Occupation	What was their occupation at the time of the study?	The researcher was doing academic scientific research at university as sociologist and anthropologist: see p. 7, line 163-165
4	Gender	Was the researcher male or female?	The researcher is female. In the section 'data collection' we refer to the researcher with 'she', e.g. see p. 7, line 156
5	Experience and training	What experience or training did the researcher have?	The researcher is trained in sociology and anthropology. She is extensively trained in quantitative and qualitative research techniques, which is added in the revised manuscript. See p. 7, line 163-165
Relation	ship with participants	-	
6	Relationship established	Was a relationship established prior to study commencement?	No relationship was established with the research participants prior to study commencement. This was added in the revised manuscript: see p. 6, line 128-129
7	Participant knowledge of the interviewer	What did the participants know about the researcher? e.g. personal goals, reasons for doing the research	Participants were aware of the researcher's reason for doing the research (improving intercultural communication in the ICU). This was mentioned by the researcher verbally and written in the forms on

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			informed consent which the study participants had to sign. This information was added in the revised manuscript: See p. 6, line 141-142
8	Interviewer characteristics	What characteristics were reported about the interviewer/facilitator? e.g. <i>Bias, assumptions, reasons and</i> <i>interests in the research topic</i>	See 7
Domain Theoret	2: study design		
9	Methodological orientation and Theory	What methodological orientation was stated to underpin the study? e.g. grounded theory, discourse analysis, ethnography, phenomenology, content analysis	Grounded theory was used. See p. 7, line 170
Participa	ants selection		
10	Sampling	How were participants selected? e.g. purposive, convenience, consecutive, snowball	The participants (patients and families) were selected purposefully. See p. 6, line 129-132
11	Method of approach	How were participants approached? e.g. face-to-face, telephone, mail, email	Participants were approached face-to-face. This was added to the revised manuscript: See p. 6, line 129-130
12	Sample size	How many participants were in the study?	Our sample consisted of staff members (nurses and doctors), patients and their relatives. In total 144 participants were included in the study (observations and interviews). See p. 6, line 132-133 and line 138- 139.
13	Non-participation	How many people refused to participate or dropped out? Reasons?	No patients and relatives refused to participate. 8 healthcare professionals refused to participate because they were not interested in the study topic. This was added to the revised manuscript, p. 6, line 133-134 and line 139.
Setting	Setting of data collection	Where was the data collected? e.g.	The data was collected in
14		home, clinic, workplace	the clinic (ICU). See p. 6, line 124-125
15	Presence of non- participants	vvas anyone else present besides the participants and researchers?	As common in ethnographic studies sometimes also non- participants were present during the data collection, e.g. doctors who mostly work in other wards, relatives of patients who were not included in the study. This was added in

			the revised manuscript: See p. 6. line 139-140
16	Description of sample	What are the important characteristics of the sample? <i>e.g.</i> <i>demographic data, date</i>	Following important characteristics of the sample has been mentioned: ethno-cultural background (p. 6, line 131- 132 and line 137-138), age (see p. 6, line 133), gender (see p. 6, line 133-134), medical condition (see p. 6, line 134-137). See also our included table on patients' characteristics.
Data c	ollection		
17	Interview guide	Were questions, prompts, guides provided by the authors? Was it pilot tested?	Interview questions were based on an interview guide, which was discussed among experts before the actual data collection started and pilot tested among a limited number of persons. This was added in the revised manuscript (see p. 7, line 160-162)
18	Repeat interviews	Were repeat interviews carried out? If	We don't know what is
		yes, how many?	meant with the word repeat interviews.
19	Audio/visual recording	Did the research use audio or visual recording to collect the data?	The researcher used audio recording to collect the data (Interviews were audio recorded). This was added in the revised manuscript. See p. 7, line 162.
20	Field notes	Were field notes made during and/or after the interview or focus group?	Fieldnotes were made in 2 stages: firstly, in the field during the data collection (by making short notes in a logbook during observations and after interviews); secondly, after the researcher had left the field (by transforming the short notes in longer comprehensive descriptive field notes): see p. 7, line 156-159
21	Duration	What was the duration of the interviews or focus group?	The interviews lasted between 50 minutes and 1h30. See p. 7. line 162
22	Data saturation	Was data saturation discussed?	Data saturation was referred to. See p. 8, line 180
23	Transcripts returned	Were transcripts returned to participants for comment and/or correction?	No. This was added to the revised manuscript (see p. 7, line 163)
Domai	in 3: analysis and findings	6	
Data a	nalysis		0
24	Number of data coders	How many data coders coded the data?	3 researchers were involved in the coding of

			the data (RVK, RD, JB). See p. 8, line 180-182.
25	Description of the coding tree	Did authors provide a description of the coding tree?	The coding tree is described. See p. 7-8, line 170-179
26	Derivation of themes	Were themes identified in advance or derived from the data?	The themes were derived from the data. See p.7-8, line 170-179
27	Software	What software, if applicable, was used to manage the data?	NVIVO 8 (QSR International, 2008) was used to manage the data. See p. 7, line 170-171.
28	Participant checking	Did participants provide feedback on the findings?	Participant provided feedback on the findings. See p. 8 line 184-187.
Reportir	ng		
29	Quotations presented	Were participant quotations presented to illustrate the themes / findings? Was each quotation identified? e.g. participant number	In the appendix transcripts from fieldnotes and interviews are presented to illustrate the themes/findings. Each transcript was identified by stating the name of the case to which it belongs (fieldnotes) or by referring to the name of the interviewee (interviews). All names are pseudonyms. See appendix.
30	Data and findings consistent	Was there consistency between the data presented and the findings?	There was consistency between the data presented (see transcripts in the appendix) and the findings in the manuscript. This consistency is reflected in the title of each transcript which accords with the presented findings.
31	Clarity of major themes	Were major themes clearly presented in the findings?	Major themes are clearly presented in the results section. Each subtitle in the results sections refers to one of the 5 major themes.
32	Clarity of minor themes	Is there a description of diverse cases or discussion of minor themes?	No

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MENTAL WELLBEING OF PATIENTS FROM ETHNIC MINORITY GROUPS DURING CRITICAL CARE: A QUALITATIVE ETHNOGRAPHIC STUDY

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Complete List of Authors:	Van Keer , RL; Vrije Universiteit Brussel, Public Health Deschepper, Reginald; Vrije Universiteit Brussel, Public Health Huyghens, Luc; Universitair Ziekenhuis Brussel, Critical Care Bilsen, Johan; Vrije Universiteit Brussel, Public Health
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2 3	1	MENTAL WELLBEING OF PATIENTS FROM ETHNIC MINORITY GROUPS DURING CRITICAL CARE: A	
4 5	2	QUALITATIVE ETHNOGRAPHIC STUDY	
6			
7 8 9	3	Rose-Lima Van Keer ¹ , Reginald Deschepper ² , Luc Huyghens ³ , Johan Bilsen ⁴	
10 11	4	(1) Mental Health and Wellbeing Research Group (MENT), Department of Public Health, Faculty of	
12 13	5	Medicine and Pharmacy, Vrije Universiteit Brussel	
14 15	6	Laarbeeklaan 103 1090 Brussel	
16 17	7	Brussels, Belgium	
17 18 10	8	e-mail: rvkeer@vub.ac.be	
20 21	9	(2) Mental Health and Wellbeing Research Group (MENT), Department of Public Health, Faculty of	
22	10	Medicine and Pharmacy, Vrije Universiteit Brussel	
23 24 25	11	Laarbeeklaan 103 1090 Brussel	
25 26	12	Brussels, Belgium	
27	13	e-mail: rdeschep@vub.ac.be	
29 30	14	(3) Critical care Department/Service of Intensive Care Medicine, Vrije Universiteit Brussel;	
31 32	15	Universitair Ziekenhuis Brussel	
33 34	16	Laarbeeklaan 101 1090 Brussel	
35 36	17	Brussels, Belgium	
37 38	18	e-mail: Luc.Huyghens@uzbrussel.be	
39 40	19	(4) Mental Health and Wellbeing Research Group (MENT), Department of Public Health, Faculty	
41 42	20	of Medicine and Pharmacy, Vrije Universiteit Brussel	
43 44	21	Laarbeeklaan 103 1090 Brussel	
45 46	22	Brussels, Belgium	
47 48	23	e-mail: johan.bilsen@vub.ac.be	
49 50	24		
51 52	24	Correspondence to: R. Van Keer rvkeer@vub.ac.be or +32 2 4774608	
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27 Abstract

Objectives: To investigate the state of the mental wellbeing of patients from ethnic minority groups

and possible related risk factors for the development of mental health problems among these

30 patients during critical medical situations in hospital.

Design: Qualitative ethnographic design.

Setting: 1 intensive care unit (ICU) of a multi-ethnic urban hospital in Belgium.

Participants: 84 ICU staff members, 10 patients from ethnic-minority groups, and their visiting family
 members.

Results: Patients had several human basic needs for which they could not sufficiently turn to anybody, neither to their healthcare professionals, nor to their relatives, nor to other patients. These needs included the need for social contact, the need to increase comfort and alleviate pain, the need to express desperation and participate in end-of-life decision making. Three interrelated risk factors for the development of mental health problems among the patients included were identified: Firstly, healthcare professionals' mainly biomedical care approach (e.g. focus on curing the patient, limited psychosocial support), secondly, the ICU context (e.g. time pressure, uncertainty, regulatory frameworks) and thirdly, patients' different ethno-cultural background (e.g. religious and phenotypical differences).

Conclusions: The mental state of patients from ethnic minority groups during critical care is

45 characterized by extreme emotional loneliness. It is important that staff should identify and meet

46 patients' unique basic needs in good time with regard to their mental wellbeing, taking into account

47 important threats related to their own mainly biomedical approach to care, the ICU's structural

48 context as well as the patients' different ethno-cultural background.

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2 3	50	Article summary
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5	51	Strongths and limitations of this study
6 7	51	Strengths and initiations of this study
8		
9	52	• As far as we know, this is the first study where the mental wellbeing of patients from ethnic
10	53	minority groups is profoundly investigated by means of an ethnographic research design.
11	54	
12	55	• By studying the mental wellbeing of these patients as is 'genuinely expressed', from multiple
13	56	perspectives and in a contextual manner, through ethnographic fieldwork in an intensive
14 15	57	care unit of a multi-ethnic urban hospital in Belgium, we have tried to develop a nuanced,
15	58	non-stereotypical and rich insight into such patients' mental wellbeing.
17	59	
18	60	• One limitation of this research could be the fact that the fieldwork was done in only one ICU.
19	61	Therefore transferability to other situations must be done with caution. However, by
20	62	spending a lot of time in a variety of situations (with 10 patients and their families, and all
21	63	their healthcare professionals) it was possible to gain a rich insight into our sensitive research
22	64	topic.
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69 INTRODUCTION

Having a good mental health/wellbeing means more than not having a mental disorder. The WHO defines mental wellbeing as 'a state of well-being in which an individual realizes his or her own abilities, can cope with the normal stresses of life, can work productively and is able to make a contribution to his or her community'. It is perceived as crucial to our capacity as people to think, communicate with others, earn money and enjoy life. Risk factors include individual factors on e.g. the socio-economical level (e.g. being poor, having a low educational level), cultural level (e.g. belonging to an ethnic minority group) and behavioural level (e.g. having an unhealthy life style, having little sleep), contextual/structural factors (e.g. facing adverse work conditions, discrimination) and biological/genetical factors (e.g. being physically ill) [1,2]. It is then no surprise that during critical care patients' mental wellbeing comes under threat, and especially when other risk factors are involved, e.g. when patients have a different ethno-cultural background [3,4]. Hallucinations, fear, and depression frequently occur among patients admitted to the intensive care unit (ICU).[5-8] Several risk factors are identified, including invasive treatments, separation from family, physical pain, immobility, dependency, lack of control, lack of privacy and poor communication. [4,5,9,10, 11] Although disturbances in critically ill patients' mental health negatively affect their whole care process, healthcare professionals working in a critical care setting lack adequate strategies to improve patients' mental health. They are often not aware of patients' mental health problems as they mainly focus on the technological care aspects and lack training in mental care. Many critical care nurses for example do not have enough insight in the elements that might affect their patients' psychological state. [9,12] Furthermore in society at large, mental health problems remain a sensitive issue as such problems are often difficult acknowledged and talked about. Additionally, healthcare professionals have to communicate increasingly with patients from ethnic minority groups, i.e. persons of a different origin who share certain cultural characteristics to some extent [13], as a result of societies' increased ethno-cultural diversity. In Belgium, healthcare for migrants is basically organized in the same manner as for people from the ethnic majority group. However it is known that during the care for

- 94 migrants problems regularly arise which are situated on mainly 2 levels, namely firstly health differences
- 95 (ethnic minorities have less chance on a healthy life than people from the ethnic majority group) and secondly

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96	problems regarding the accessibility and use of healthcare services (ethnic minorities have lower access to
97	healthcare services and receive less quality care than members of the ethnic majority group). Problems are
98	often very complex and related to different factors, such as linguistic and cultural differences. [14] We might
99	assume that critically ill patients from ethnic minority groups are at an even higher risk of mental health
100	problems and that ethno-cultural differences render mental health problems more complex and multifaceted.
101	Inattention by healthcare professionals to specific ethno-cultural habits (e.g. gender segregation),
102	discrimination, unfamiliarity with the western healthcare system and different foodways can contribute to
103	traumatic experiences for ethnic minorities. [15,16, 17, 18] Furthermore, language differences and ethno-
104	cultural norms prescribing acceptance of physical suffering can lead to less adequate communication and pain
105	relief[19,20], which can endanger such patients' psychological state.[7,15,21] Yet, although we increasingly live
106	in a multi-ethnic society, research about the mental wellbeing of patients from ethnic minority groups during
107	critical care is rather scarce and there are very few in-depth studies which try to understand this topic in its
108	specific context and from different angles.
109	In this study we therefore aim to investigate 'the state of the mental wellbeing of patients from ethnic
110	minority groups and possible related risk factors for the development of mental health problems among these
111	patients in a multi-ethnic ICU'. In-depth understanding of occurrences of mental health problems among
112	patients from ethnic minority groups can contribute to the development of recommendations to prevent such
113	problems for these patients.
114	
115	METHODS
116	Patients' mental wellbeing in a multi-ethnic critical care setting is a sensitive, complex, and novel topic of
117	research. Therefore an ethnographic research design has been used, which gave the researcher the
118	opportunity to immerse herself into her study field and study the research topic for a long period on the
119	workfloor itself. By getting a feel of the lifeworld of the ICU, observing and interacting with different parties,
120	the researcher was able to grasp the research topic in all its different facets and from different angles.

121 [22-24]

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122	Participants	&	setting
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> Ethnographic fieldwork was done in one ICU of a multi-ethnic urban hospital in Belgium over 6 months (January 2014-June 2014). 40 % of the ICU patients are estimated to belong to an ethnic minority group. Staff's, patients', and relatives' behaviour, interactions, and experiences were studied for 360 hours. The selected patients and the family members who accompanied them, as well as their healthcare professionals, were followed for the whole critical period. No relationship was established with the research participants prior to the beginning of the study. Patients and their family members were purposefully selected and approached face-to-face. They were only eligible for inclusion in the study if the patient or at least one of his/her legal parents was born abroad, if at least one of the family members (patient/his or her relatives) was able to speak Dutch, French, or English, and if the patient was at least 18 years old. In total we selected 10 patients and their visiting family members, who were originally from Morocco, Algeria, Turkey, Congo and Portugal. No patients and relatives refused to participate. The patients were between 40 and 82 years old and consisted of 6 males and 4 females. They were admitted for complicated pneumonia (3), abdominal problems (1), heart problems (2), brain haemorrhage (2), cancer (1), and a severe accident (1). All patients were sedated for some time, and as a result were unable to communicate or only had limited ability to communicate, depending on the level of sedation. The critical care team consisted of 80 nurses and 12 doctors, who were almost all white Caucasians from the dominant ethnic group. 8 staff members refused to participate in the study. Of course also other people were present during the ethnographic fieldwork, e.g. doctors who mostly work in other wards. Research participants were aware of the researcher's reason for doing the research (improving intercultural communication in the ICU). (For further information about patients: see supplementary file) **Data collection** Data were collected through triangulation of several data collection strategies, namely negotiated interactive observation, [22] in-depth- interviews with healthcare professionals, [23] and the reading of patients' medical records. In an ICU setting, typified among other things by time pressure and highly specialized lifesaving care

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tasks, it is very difficult for the researcher to fully participate in the core activities of social life on the ward. Therefore 'negotiated interactive observation' was chosen, meaning that before starting the observations the researcher always implicitly or explicitly asked permission for it to the research participants [22]. This technique enabled the researcher to gain the trust of the research participants easily. Negotiated interactive observation gave the researcher the opportunity to have 480 informal conversations with healthcare professionals, family members, and patients, attend 144 staff meetings, and witness 375 interactions between healthcare professionals, relatives, and patients during visiting hours. When the researcher was in the ICU she made notes in a logbook. After the researcher had left the ICU, she transformed these notes into comprehensive descriptive field notes containing observations of participants' discourse, behaviour, and interaction, informal conversations with them as well as researcher's reflections on her behaviour and feelings in the field. [23] Formal in-depth- interviews were held with nine healthcare

160 professionals in two meeting rooms in the hospital. The interview questions were based on an interview guide,

161 which was discussed among experts before the actual data collection started and pilot tested among a limited

162 number of persons (Topic list in-depth interviews: see supplementary file). The interviews lasted between 50

163 minutes and 1h30 and were audio recorded. Interview transcripts were not returned to the research

164 participants for comments or corrections. All data were collected by the first author (RVK), a trained

165 ethnographer and sociologist (MSc) who was doing academic scientific research at university at the time of the

166 study. She is extensively trained in qualitative research.

168 Data analysis

The analysis started with a 'thick description' [25] of participants' discourse, behaviour, and interaction and
was followed by a grounded theory analysis.[26] In depth-interviews were transcribed, and data were
conceptualized by means of a three-step coding process, supported by NVIVO 8 (QSR International, 2008). This
process resulted in the creation of a conceptual model, consisting of different themes and subthemes. Firstly,
an open coding phase was performed, involving the reading and rereading of the data. This resulted in the
formation of different codes, for instance 'physical contact', 'proximity', and 'fighting'. To find similarities and

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differences between these codes, new codes were constantly compared with already existing codes. Secondly, axial coding took place. This led to the formation of groupings of similar codes, i.e. categories, for example 'social contact' and 'saving patient'. Relationships between the categories were also established, for instance 'basic needs' and 'care strategies'. Thirdly, selective coding was performed to determine the core category ('emotional loneliness') around which the related categories are clustered.[26,27] Data collection and analysis were stopped when the point of saturation was reached. [26,28] Reliability was strengthened by the first author (RVK) doing the data analysis and two co-authors (RD & JB) doing a peer-revision of the analysis. The process of data collection and data analysis was also regularly discussed by members of the multidisciplinary academic research group in which these authors participate, consisting of a health scientist, a psychiatric nurse, 2 anthropologists, and 1 sociologist. To improve the reliability and accuracy of the study, the results were also read by an intensive care specialist who is part of the intensive care team at the hospital in which the researcher did her fieldwork. Furthermore the study results were presented to and discussed with the nurses who had participated in this study during a conference.

190 Ethics

- 191 The research protocol (reference 2013/371) was approved by the university ethics committee of the Vrije
- 192 Universiteit Brussel. The privacy of the research participants and confidentiality of the data were respected,
- e.g. by using pseudonyms. Written consent to participation in the study was sought from healthcare
- 194 professionals, family members, and patients who were still able to communicate. If the patient lacked the
- 195 capacity to give consent, consent was sought from his/her legal representative.

197 RESULTS

The patients included were admitted for complicated pneumonia (3), abdominal problems (1), heart problems (2), brain haemorrhage (2), cancer (1), and trauma (1). Mental health problems came overtly to the fore among patients. Patients had several basic needs for which they could not sufficiently turn to anybody, neither to their healthcare professionals, nor to their relatives, nor to other patients. These needs comprised 'the need for

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202	social contact, non-medical information exchange, the need to increase comfort and alleviate pain, the need to
203	express desperation, and to participate in end-of-life decision making'.
204	
205	
205	1) Need for social contact
206	Patients longed for social contact with relatives, healthcare professionals and other patients, and not only
207	verbally but also non-verbally. This need became even more significant when patients were unable to
208	communicate verbally as a result of their medical state and/or language differences. More specifically, patients
209	longed for proximity of others, physical contact, and chatting.
210	Patients wanted their relatives and friends to be close to them, felt the need to touch and/or kiss them and
211	talk or write to them. Therefore, patients wanted their loved ones to stay longer than accepted during visiting
212	time to come more often or to take them back home (supplementary file 1a). Some patients also wanted to
213	phone home to request visits from relatives (supplementary file 1b). Furthermore, patients wanted healthcare
213	professionals to communicate more often with them (supplementary file 1c). However, the rules concerning
215	visits the infrastructure/ accommodation (e.g. no telephone) and healthcare professionals' focus on the
216	natients' disease made it difficult for staff to fully satisfy patients' need for social contact. Moreover, pressure
217	of work and time made it tough to communicate with natients. Furthermore language differences and
218	misconcentions of healthcare professionals towards patients' ability to communicate in the language of the
219	host country sometimes based on patients' different skin colour, endangered the meeting of natients' social
220	needs (supplementary file 1d). Some patients also felt the urge to connect with other patients. This became
220	indirectly apparent when nationts stared at other bods and/or asked questions about other nationts'
221	conditions. Nonotheless, infrastructural constraints (e.g. remote hede) and language differences made
222	communication between nationts impassible. (supplementary file 1e)
225	communication between patients impossible. (supplementary file re)
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227 2) Need for non-medical information exchange with healthcare professionals

228	The information exchange between doctors and patients was primarily of a medical nature. When patients
229	were conscious, doctors explained to patients their medical situation, which medical actions they had
230	undertaken as well those they would undertake in the future, and which medical decisions had been taken.
231	However, patients not only felt the need to get medical information regarding their physical state from
232	healthcare professionals, but equally to exchange information with them on matters that were not strictly
233	medical, e.g. practical issues, visual aspects (e.g. activities going on around them) and their family
234	(supplementary file 2a and 2b). Furthermore, nurses regularly did not communicate with patients or only
235	communicated with them in a task-related manner (supplementary file 2c).
236	Despite healthcare professionals' good intentions, they often perceived it as impossible to communicate
237	with patients about non-medical issues due to their prime task of safeguarding the patients' clinical state, time
238	pressure, and their workload (supplementary file 2d). Also language differences made communication between
239	patients and healthcare professionals about non-medical matters more difficult (supplementary file 2e). In

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240 addition, communication with relatives about non-medical issues was limited as well. Relatives often focused

on their search for exhaustive medical information from doctors, which was reinforced by group pressure

242 within their families, during the restricted visiting hours.

3) Need to increase comfort and alleviate pain

Patients wanted to increase their comfort and be free from pain. This need was often expressed through verbal and non-verbal communication. Patients verbally requested acts of care to increase comfort in the language of the host society or in their own mother tongue. They also often indirectly requested comfort-increasing care by expressing their suffering through non-verbal signs, e.g. pointing with their heads. However, sometimes these expressions of patients' hardship were not noticed, minimally acknowledged, not apprehended or misunderstood, even neglected, normalized or temporarily medically suppressed by giving tranquilizers, by healthcare professionals. Inadequately meeting patients' need for comfort and pain alleviation was related to healthcare professionals' workload, time pressure, their focus on strictly medical care task and actual/falsely perceived language differences. Consequently, comfort and pain was often addressed based on healthcare

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professionals' unilateral assessment, sometimes leading to mistrust between themselves and patients and
irritation and insecurity occurred on both sides (supplementary file 3a).

Patients' non-verbal care requests were sometimes not seen or neglected by healthcare professionals
because they were too occupied with medical care tasks. Apprehension by healthcare professionals of patients'

verbal messages was sometimes hampered by language differences (supplementary file 3b). Moreover, when

259 patients' non-verbal expressions of suffering were noticed, communication with patients sometimes unfolded

260 inadequately or no communication occurred. This was sometimes related to healthcare professionals'

261 misconceptions of patients' language proficiency, based on the very quick and minimal moments of interaction

262 they had with patients and relatives and patients' different skin colour. Also staff's general knowledge of

263 patients' country of origin which they sometimes easily applied to all patients from that country contributed to

these misconceptions (supplementary file 3c).

265 On the other hand, some patients who were at moments totally unable to communicate as a result of 266 medical and linguistic barriers were automatically perceived as quiet patients who were comfortable/painless 267 (supplementary file 3d). When patients experienced discomfort for a longer time some of them did not want to 268 ask healthcare professionals for help anymore and wanted to leave the ICU (supplementary file 3e).

270 4) Need to express desperation

271 Among some patients, feelings of desperation were observed at times. Some of them wanted to leave the

hospital, others wanted to completely give up treatment (supplementary file 4a). Patients felt the need to

- 273 express and share these feelings with others. However, patients regularly felt obliged to suppress their
- 274 hopelessness during critical care in front of healthcare professionals and relatives, resulting in frustration and275 sadness.

Healthcare professionals did not stimulate expressions of desperation. They frequently presented patients
with their situation in a hopeful manner and tried to motivate them to not give up, leaving little space for
patients to express their negative feelings. And even when patients did express their hopelessness, healthcare

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279 professionals often did not respond. Moreover, when patients became very overtly anxious/hopeless,

tranquilizers/antidepressants were given (supplementary file 4b).

Additionally, family members remained hopeful and consequently also spoke in a hopeful tone to patients

- 282 (supplementary file 4c). Relatives' religious beliefs and high expectations for cure in western hospitals
- 283 functioned as sources of hope. Furthermore, negative information was hidden for some family members by
- 284 other relatives so as to not create unrest within their large transnational families, which affected relatives'
- 285 positive outlook on the patients' situation (supplementary file 4d). Additionally, families' considerable size led
- 286 to group pressure among its members to remain hopeful. Moreover, patients themselves presented their
 - 287 situation in a more positive manner towards visiting relatives coming from the home country so as to not worry
 - their relatives there (supplementary file 4e).
- - 290 5) Need to participate in end-of-life decision making

291 Enduring physical and mental suffering triggered a need for some patients to participate in a decision to

292 withdraw therapy. This need was verbally and non-verbally expressed at several points (supplementary file 5a).

However healthcare professionals regularly acknowledged these patients' communication only minimally, neglected it, forgot it or tried to change patients' opinions. Doctors mostly saw themselves as the central decision makers and wanted to continue treatment, when they believed that patients still had a chance to survive within the context of their specific pathology. Patients were seen as lacking the required expertise to make a decision to withdraw therapy. Furthermore, their wishes were perceived as irrational/fluctuating, as they could change after a hopeful conversation with a healthcare professional, after appropriate treatment or after taking anti-depressants (supplementary file 5b). Further, healthcare professionals saw it as their mission to save patients' lives, which was reinforced by their daily contact with many hopeful relatives of the patient

- 301 who saw God as the ultimate decision maker. Consequently, not being able to save the patient was seen by
- 302 some healthcare professionals as a personal failure. (supplementary file 5c)

DISCUSSION

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306	This ethnographic study investigates the state of the mental wellbeing of patients from ethnic minority groups
307	and possible related risk factors for the development of mental health problems among these patients in a
308	multi-ethnic ICU in Belgium. We found that the mental state of critically ill patients from ethnic minority groups
309	is basically characterized by an 'extreme emotional loneliness'. Patients had several human basic needs for
310	which they could not sufficiently turn to anybody, neither to their healthcare professionals, nor to their
311	relatives, nor to other patients. It concerned the need for social contact, for non-medical information
312	exchange, the need to increase comfort and alleviate pain, the need to express desperation, and participate in
313	end-of-life decision making. Insufficiently meeting patients' basic needs endangered patients' mental
314	wellbeing as defined by the WHO, e.g. in the sense that they couldn't cope adequately with stress and didn't
315	feel to contribute to their family/community anymore. Three interrelated risk factors for the development of
316	mental health problems among the included patients were identified: firstly healthcare professionals' mainly
317	biomedical approach to care, secondly the ICU context, and thirdly the patients' different ethno-cultural
318	background.
319	The mental wellbeing of patients from ethnic minority groups in a critical care setting is an under-
320	researched topic. Although a body of research has recently begun to grow that focuses on the lifeworld of
321	patients in a critical care context [see for example:4,5,9,12], still very few of these studies focus on specific
322	vulnerable patient groups, e.g. patients from ethnic minority groups, and mental health issues. Furthermore
323	some researchers that do focus on critically ill patients from ethnic minority groups study their experiences
324	mainly through interviews with patients, their relatives or staff [see for example: 15, 29]. So as far as we know,
325	this is the first study where specifically the mental wellbeing of patients from ethnic minority groups is
326	investigated in one particular context, namely the critical care context, by means of an ethnographic research

- 327 design. A study design of this kind is the most appropriate way to gain nuanced/deep insight into complex
- 328 themes e.g. mental wellbeing of patients from ethnic minority groups in a critical care setting. Ethnographic
- 329 day-by-day observations on the ward allow the study of patients' mental wellbeing as it is 'genuinely
- 330 expressed' and from the perspective of the different people involved, from a non-prejudiced perspective.

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331 The researcher might have had an impact on the field and the research findings as she herself has a non-332 Belgian ethnic background and collected data for a long period which enabled her to gain a lot of trust from 333 patients and their families and made the latter speak to her in a very open manner. This subjectivity is a basic 334 feature of qualitative ethnographic research [23]. A weakness of this research could be the fact that the 335 fieldwork was done in only one ICU. Therefore transferability to other situations must be done with caution. 336 However, by spending a lot of time in a variety of situations (with 10 patients and their families, and all their 337 healthcare professionals) it was possible to gain a rich insight into our sensitive research topic. There is no 338 specific reason to believe our findings are not valuable for other similar settings. Another weakness of this 339 study is that the researcher has only used a limited amount of ethnographic data collection techniques (in-340 depth interviews only with staff, negotiated interactive observation, consulting patients' medical files). This can 341 be explained by the fact the specific ICU setting and the vulnerability of the patients and their relatives don't 342 allow other techniques, such as video recording and full participant observation, for ethical reasons. 343 Our study shows that the patients included felt extremely emotionally lonely because several of their basic 344 needs were insufficiently met. This seems to confirm previous research showing that ICU patients favour a 345 holistic care approach and thus value attention from healthcare professionals not only to their bio-346 physiological needs but also to other general psycho-social and existential human needs, e.g. the need for 347 social contact, for non-medical information exchange, religious needs and participation in decision 348 making.[9,15,16,30] 349 Healthcare professionals' care strategies were inspired by a biomedical model of care. According to this 350 model, healthcare professionals primarily focus on the diagnosis, treatment, and cure of somatic problems, 351 caused by biological processes and expressed in signs and symptoms.[31] Care is orchestrated by healthcare 352 professionals who try to remove patients' disease as quickly as possible by applying evidence-based medicine, 353 although 'trial and error' can play a role. Such care strategies go often together with enforcing regulatory

354 frameworks (e.g. concerning visits) to safeguard patients' clinical condition, which is regarded as a central

responsibility of healthcare professionals, a predominantly medical, unidirectional information flow interlaced

356 with hope, little focus on psychosocial support, and minimal attention to patients' communication. These care

357 strategies perfectly align with the ICU care context, characterized by the performance of life-saving tasks,

358 making life and death decisions, a technological orientation, a specific regulatory framework and infrastructure

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2 3	359	(e.g. beds that are distant from each other, no telephone for patients), time pressure, uncertainty and
4 5	360	professional stress. As a result, in ICUs, measurable, visual and auditable disease-related aspects are highly
6 7	361	prioritized by staff, while less visible aspects, e.g. patients' emotions, are much less acknowledged.[7,9] On the
8 9	362	other hand, taking into account patients' emotions becomes even more complex and challenging when
10 11	363	patients have a different ethno-cultural background. The included patients' different ethno-cultural
12 13	364	backgrounds entail specific characteristics on 3 interrelated levels: the patient's level (e.g. religious beliefs and
14 15	365	collectivistic orientations), the family level (e.g. large and transnational family structures, specific views on care
16 17	366	and suffering , communication forms and families' history of migration), and the level of patient-staff
18 19	367	interaction (e.g. phenotypical features, language).
20 21 22	368	Staff, occupied with urgent lifesaving care tasks, were frequently unable to react effectively to patients'
23 24	369	verbal and non-verbal communications, often expressed by patients who completely lacked knowledge of the
25 26	370	language of the host country. However, adequately decoding ethno-culturally diverse patients' non-verbal
27 28	371	communication is crucial for optimal pain management and shared medical decision making.[32,33]
29 30	372	Furthermore, pressured healthcare professionals had little time to gain in-depth-knowledge of patients' level of
31 32	373	skill in the language of the host society. Therefore the staff easily developed misconceptions of patients'
33 34	374	language proficiency based, for example, on their general knowledge of the patient's country of origin or
35 36	375	specific phenotypical features, which led to inadequate communication or a complete absence of
37 38	376	communication with patients about their needs. Moreover, insufficiently satisfying specific needs which were
39 40	377	ethno-culturally inspired led to high emotional loneliness among patients. For example, a failure to meet
40 41 42	378	patients' needs for multiple types of social contact (e.g. proximity of others) strengthened for some patients by
42 43	379	the collectivistic orientation of their minority cultures, led to high emotional suffering among particular
44 45	380	patients. Moreover, because relatives shared ethno-cultural expectations towards patients to remain stoic and
46 47	381	hopeful in difficult times, they did not pay enough attention to patients' specific unique basic needs, i.e. their
48 49	382	need to express desperation and participate in end of life decisions, which made patients feel left behind. In
50 51	383	line with this finding, previous research has shown that overt communication about pain and sorrow between
52 53	384	patients from certain ethnic minority groups and their relatives is limited.[34] Additionally, relatives' high levels
54 55	385	of hope triggered healthcare professionals, caring for patients with an uncertain prognosis, to continue life-
56 57 58 59	386	saving treatments and reinforced their belief in their core responsibility to save patients' lives, while these

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387 patients' voices were largely unheard. Likewise, previous research demonstrates that more aggressive 388 interventions occur at the end of the lives of patients from ethnic minority groups.[35] Relatives shared high 389 levels of hope, which were associated with an ethno-cultural non-disclosure of negative information by some 390 relatives towards other relatives, ethno-religious beliefs, [29] migration-related expectations towards an 391 unlimited field of medical possibilities in western hospitals, and group pressure among the many relatives to 392 remain hopeful. 393 Finally, another striking observation is that not only patients' mental health but also the mental state of 394 healthcare professionals working in such interethnic critical medical situations can become severely threatened 395 due to their experiences of powerlessness towards meeting some of their patients' human basic needs. This 396 can further negatively affect patients' mental state. 397 Our study results are certainly also of relevance to patients from majority ethnic backgrounds because we 398 found that the ICU context and staff's biomedical approach, factors to which all patients are exposed, hindered 399 the satisfaction of several human basic needs which are shared by all patients irrespective of their ethno-400 cultural background. Patients from ethnic minority groups their different ethno-cultural background forms an 401 extra important risk factor for not meeting their basic needs. Of course the relative importance of this risk 402 factor is different for each patient. 403 Mental health problems among patients, irrespective of their ethno-cultural background, can primarily be 404 reduced by investing in patient-centred care, which requires the implementation of intervention measures 405 stimulating the coexistence of biomedical and more holistic views on health and care among staff, on the level 406 of daily work, training and education, and ICU policy/organization. Such structural measures include staff 407 training in mental health, flexible visiting policies, the presence of a social worker on the ward, questioning the 408 division of labour and working hours, close cooperation with a psychologist/psychiatrist, etc. Additionally, in a 409 multi-ethnic ICU context, extra measures are urgently required, e.g. cultural sensitivity training for staff and 410 students, language facilitation, and the presence of religious figures on the ward. Further (evidence-based) 411 research is greatly needed to measure the specific impact of these recommendations in a multi-ethnic critical 412 care setting. 413 414

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415	CONCLUSION
416	The followed patients had specific basic needs for which they could not sufficiently turn to anybody, leaving
417	them in a state of extreme emotional loneliness. Three interrelated risk factors for the development of mental
418	health problems among these patients were identified: firstly, healthcare professionals' mainly biomedical care
419	approach, secondly the ICU work context and thirdly the patients' different ethno-cultural background.
420	
421	Abbreviations
422	ICU, intensive care unit
423	
424	Contributors: All authors have met the four authorship criteria as stated in the International Committee of
425	Medical Journal Editors Recommendations for the Conduct, Reporting, Editing and Publication of Scholarly
426	Work in Medical Journals.
427	
428	Authors' contributions: RVK contributed to the research design, applied for the ethical approval, completed
429	the data collection, contributed to the data analysis, contributed to the interpretation of the data, wrote the
430	manuscript and is the guarantor of the manuscript. RD applied for the FWO grant, contributed to the research
431	design, applied for the ethical approval, contributed to the data analysis, contributed to the interpretation of
432	the data and wrote the manuscript. LH applied for the FWO grant, contributed to the research design and

- 433 applied for the ethical approval, contributed to the interpretation of the data and wrote the manuscript. JB
- 434 applied for the FWO grant, contributed to the research design, applied for the ethical approval, contributed to
- the data analysis, contributed to the interpretation of the data, wrote the manuscript and is the guarantor of
- 436 the manuscript. All the authors read and approved the final manuscript.
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Ethics: The study (reference 2013/371) was approved by the ethics committee of the university Vrije Universiteit Brussel in December 2013. detare the. **Competing interests:** The authors declare that they have no competing interests. Data sharing: Extra data is available by emailing RVK.

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Patients' characteristics

Number	Pseudonym	Country of origin	Medical condition
1	Amrani	Turkey	Complicated
			pneumonia
2	Fadila	Morocco	Heart
			problems
3	Norah	Morocco	Complicated
			pneumonia
4	Abdallah	Morocco	Complicated
			pneumonia
5	Zacharia	Morocco	Heart
			problems
6	Bilal	Algeria	Abdominal
			problems
7	Quintus	Congo	Brain
			haemorrhage
8	Onur	Turkey	cancer
9	Kabibe	Congo	Brain
			haemorrhage
10	Ali	Portugal	Severe
			accident

accident

Topic list for formal in-depth interviews

- Pathology
- Experiences with communication (patient relatives intra-team)
 - Difficult communication/disagreements (if applicable)
- Decision making
 - o Role nurse doctor patient relatives
 - o Course
 - o Difficult communication/disagreements (if applicable)
 - Final medical decision
- Care for patient
 - Positive and negative experiences
- Death of patient
 - Communication with relatives
- Prevention of difficult communication

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(Note: all the names are pseudonyms)
1. NEED FOR SOCIAL CONTACT
a) Longer visits
Patient: I've had enough I've gone mad.
()
Researcher: But when your children are here, does that lift your spirits?
Patient: Yes, at the time
Researcher: And at other times?
Patient: When they've gone? I'd like them to stay here longer.
[Field note, Norah]
b) Phone home
Patient: 'Telephone'.
Researcher: 'Do you want to use the telephone?'
Patient: 'Yes'.
Researcher: Who do you want to call?
()
Patient: 'Home'.
Researcher: 'Why'?
Patient: 'To say they have to come.'
[Field note, Zacharia]
c) More communication with staff
Researcher: So there aren't many people you can talk to?
Patient: Here in hospital?
Researcher: Nods, uh huh
Patient: No They don't answer you
Researcher: Who?

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Patient: The nurses [...] They came when I had almost gone mad.

Researcher: And why?

Patient: I don't know.

Researcher: And what do you think about that?

Patient: Leave the hospital.

[Field note, Norah]

d) Misconceptions of staff towards patients' language proficiency

When I come in the patient, a dark-skinned man, is writing, along with his daughter Barbara. I notice that he is already able to write better than in the previous days during which he wrote a lot of indecipherable signs on the paper. He points to me and writes 'NAME' on the paper. So he is asking my name. Then he points to his daughter and writes 'Barbara' on the paper. I say my name and then write my name on the paper.

[...]

During the change of nursing shift, the following is said about the patient:

'The patient wants to write all the time'. A nurse remarks: '*But he writes in Arabic*!' (...)'. Annoyed, the nurse continues, saying: '*I'm not going to learn Arabic so that I can understand him! We can never get anything right*'. (...) The nurse storms angrily out of the meeting. Some of the other nurses look shocked but they continue with the meeting. Another nurse asks: '*How can he write? He can't even hold a glass, talk ...*' However the patient does not know any Arabic and can talk French, an official language in Belgium. Apparently the nurse wrongfully believed that the patient could only talk a foreign language because he has a different skin colour and has been writing a lot of unreadable signs lately.

[field note, Quintus]

e) Infrastructural constraints

Patient: Is there a sick person over there?

The patient lifts her head a little and looks curiously at the bed in the distance that is diagonally opposite her bed. She can only catch a glimpse of that bed ...

Patient: She has been ill for a week ...

[...]

Patient: Six in intensive care... Is it serious?

Researcher: Some are more seriously ill than others...

[Field note, Norah]

2. NEED FOR NON-MEDICAL INFORMATION EXCHANGE WITH HEALTHCARE PROFESSIONALS

a) Practicalities

The doctor gives a medical explanation to the patient. (...) During the doctor's explanation, the patient looks questioningly at the doctor. She asks the doctor: '*When can I go to the room?*' (Meaning: The patient asks the doctor when she can leave the ICU and go to a room in another ward). The doctor says: '*today*'. [Field note, Norah]

b) Family

I try to talk about his medical situation with him (patient) a bit and say: 'Your cannula has gone' and point to his throat. He says bluntly: 'I'm not interested in that'. I'm shocked by what he says. I ask what does interest him. He says: 'My wife'.

[Field note, Zacharia]

c) No communication from staff

The patient is lying with his eyes open. He has to gasp for air the whole time, is looking around which makes him seem very frightened (...) A nurse comes to aspirate the phlegm. He simply carries out his task and does not speak to the patient.

[Field note, Zacharia]

d) Time pressure and workload

Researcher: Erm, how did you experience your care for the patient? (..)

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Nurse: Very difficult! Erm, not always easy. Erm. He wasn't always easy to deal with himself. The patient. Which is sometimes understandable, of course, if you are that ill. Erm, but because of the, the pressure of work we're actually under, sometimes you can erm, with him, not as much, I mean sometimes we couldn't give him as much time as we would like to. Erm and sometimes I find that the most difficult part of your job, that you do want to stay in a room longer sometimes to, well, to be able to talk to your patient a bit more, or take your time a bit more with everything, but that sometimes that's not possible because you've got other things to do and you have to say "No, I have to go!" and, erm, yes, that's pretty much that. If I just look at the patient themselves, I mean.

[Interview with nurse Vanessa]

e) Language differences

The nurse comes into quarantine without saying anything to the patient. She looks at the medication and does several things on the PC. The patient looks at the nurse and says: '*tranquil*', relax. I deduce from this that the patient wants to talk to the nurse. The nurse doesn't react to the patient's words. Then she pours the patient's urine into a plastic bottle. The patient asks me: '*What is she doing?*' I say to her: '*He's asking what you're doing*'. She replies in Dutch, a language the patient doesn't understand: '*I'm pouring his pee into a bottle'*. Then she leaves quarantine.

[Field note, Zacharia]

3. NEED TO INCREASE COMFORT AND ALLEVIATE PAIN

a) Mistrust and irritation

10 minutes later, the patient is shivering with cold. He points to the blanket. He wants an extra blanket, but there are no nurses nearby. I leave quarantine again and go and ask the nurses for a blanket. One of them says: 'Now he's messing us around. I was with him just a moment ago. ' There was no response to his request.

[Field note, Abdallah]

b) Language differences

I sit down at the nurses' table. The patient sees us and calls out to us in Arabic. The nurses stay where they are and say: '*It is annoying, though, that we don't understand them*' (...). Apparently these carers feel powerless. The patient continues to call out and complain, and waves her arms in the air. She also bangs her arms against her head. Clearly she is trying to tell us something. None of the carers go over to her. [Field note, Fadila]

c) Misconceptions of staff towards patients' language proficiency

I ask the nurses who are checking the parameters shown on the monitor by the patient's bed: 'Does he speak French?' One nurse answers: 'Yes, because French is an official language in Algeria, isn't it.' However the visitor told me that the patient only speaks Arabic. The patient is very distressed. 2 nurses stand around his bed after visiting hour and ask him in French: 'Can you breathe properly? Are you comfortable? Bilal, Bilal, are you comfortable?' The patient is still very distressed and every time the nurses say something to him, he moves his head from left to right. (...) The carers therefore assume that this patient understands them on the basis of their presuppositions.

[Field note, Bilal]

d) Quiet comfortable patient

During the nurses' meeting in the unit, the patient's situation was discussed. Among other things, he is said not to be a difficult patient: '*He doesn't cause trouble, he's not in pain and he doesn't complain'*. It strikes me that the patient has little opportunity to 'complain' given that he had a cannula that rendered him unable to speak. Besides, according to the visitor, he does not speak Dutch, French or English, so he cannot speak to the nurses. It is also strange that the nurses decide he has no pain purely on the basis of the absence of verbal communication between the patient and the carers.

[field note, Bilal]

e) Wish to leave the ICU

Patient: I'm not going to stay in intensive care, this place is death.

Researcher: Wh	γ?
Patient: I don't l	ike itNobody comes, nobody listens Even the nurses, one in ten glances your way for a
moment, that's	all() ' <i>I can't manage yet, when I'm done'</i> Anyway, I don't like it.
[]	
The patient look	s sad and dejected. She says to her daughter that she wants to be moved because her back
hurts. She says t	he nurses aren't friendly to her and that they don't often come when she asks them to.
Suddenly she sta	arts to cry.
[Field note, Nora	ah]
4. NEED TO EXP	RESS DESPERATION
a) Wish to give (up treatment and leave the hospital
Patient: Nothing	g has changed
Researcher: How	w does that feel?
(Silence; she's th	ninking)
Patient: It doesr	1't change anything.
Researcher: You	don't think it changes anything? And why do you think that?
Patient: I'm disg	usted with life.
Researcher: You	ı're?
Patient: Disgust	ed with life.
Researcher: Dis	gusted with life And that means?
Patient: l've no	more hopeI want to leave the hospital
[Field note, Nora	ah]
b) Tranquilizers	
The nurse says t	hat the patient is nervous and that that is why she is giving her a Xanax. The nurse speaks to
the patient in Du	utch, asking: 'Why are you nervous?!, You have to do your best, you know!!'. I have the
impression that	the patient doesn't understand the nurse. () The patient says in French: 'Don't understand.'
[Field note, Nora	ah]

c) Hopeful relatives

 I hear from the nurses that the patient gets panic attacks, hyperventilates and that his heart rhythm has increased (...) During visiting hour the patient says to his wife: '*it's fucked*,' to which the wife replies hopefully: '*You'll get through it, you'll get better. The infection has gone down'*. The patient rolls his eyes at this.

[Field note, Abdallah]

d) Relatives hiding negative medical information for each other

In the meantime, the patient's daughter tells me her brother talked to another doctor the previous evening and that it was a 'good' conversation. The patient was apparently a bit better and they would see how he was later in the week. This has clearly given the daughter more hope today. However I witnessed the conversation the day before between the doctor and the patient's son from a distance and the news the doctor brought was not good news. I deduce from this that the patient's son is hiding the confronting information the doctor gave him from his sister and giving her a rosier picture of the patient's situation so that she would continue to hope.

[Field note, Onur]

e) Patient more positive towards relatives from his home country

Then the uncle says: '*Will you fight for your children*?' The patient nods. The uncle continues: '*You came out of the coma, that's a sign that you want to continue, that you want to fight. Your face looks better.*' Then the patient shakes his head and lowers his eyes. (...) Then the patient's brother comes into quarantine. He flew over yesterday from Morocco. When he asks the patient how he is, the tone is more cheerful. The patient lifts his hand into the air and makes small, successive striking motions in the air, with which he means to indicate that his medical situation is improving. The brother laughs and says he saw him a while ago in a coma and that he is pleased he is now awake and eating. So he says to the patient that he sees clear progress. It is striking that the patient says to his brother who has flown over from Morocco that he is better, whereas he tells his wife and uncle that he is not doing well. [field note, Abdallah (died in the ICU)]

5. NEED TO PARTICIPATE IN END-OF-LIFE DECISION MAKING

a) Verbal and non-verbal communication by patient

I ask him (the patient) if he is okay. He shakes his head, indicating 'no', then breathes in and out loudly. He looks like a fish gasping for air. He means by this that he has difficulty breathing, even with the machines. He points to the machines. He looks angry and very sad at the same time. (...) He strikes the air with his hand, a gesture that I believe means he wants to give up. He points to the machines again and says 'that's useless'. (...) The patient sighs and looks really contorted. I ask in French if he is in pain. '*Vous avez mal*'? He nods and points to his chest.

[Field note, Abdallah]

b) Patient seen as incompetent by staff

I see the doctor walking into the unit. I go over to him for a moment and tell him about the patient's panic attacks. He says: 'That is normal, because he has already been in here for three months... We can hardly tell his body it has to stop... And even if the patient or family wanted us to stop treatment, we couldn't comply with that....I ask him: 'Why not?' He replies: 'The patient and his family are not competent to decide because they are in a phase of pain and emotion... If we say we are going to continue, we will continue... [Field note, Abdallah]

c) Saving the patient as doctors' mission

Nurse: And I think he had indicated a couple of times himself that he had had enough.

Researcher: How did he indicate that?

Nurse: Yes, by actually, erm by saying, and by saying "It doesn't help, does it! Don't do that, it doesn't help!"

He said that very often at the end.

Researcher: And who did he say that to then?

Nurse: He said it to me a couple of times. (...) He definitely said to me: "Just leave it like this, it's not going

to, you know..." Erm, but even helping to decide "We're going to stop!" I don't think he did that. (..)

[..]

Researcher: Erm, and did you talk about that to other people, about the fact that the man told you he would prefer the treatment to stop?

Nurse: Yes. Yes. We do tell each other that. Yes, I did say it to my colleagues, and to the doctor as well, that he wanted, that those words had been said and that that... Well it's heartbreaking, isn't it, because, well, somehow you know he's right but, you still do it, don't you.

Researcher: Yes. And how did the doctors react to this?

Nurse: It wasn't easy. Because the doctor also had real difficulty with it, to take the decision to let him go. Yes. I think, well, at times like that, still not being able to admit it and saying anyway "We're going to keep going".

[Interview Nurse Vanessa]

Answer (including page number where the item can be

RVK conducted the entire data collection (including interviews): see p. 7 line

The researcher is MSc in sociology and MSc in social and cultural anthropology. She is extensively trained in qualitative research. Researcher's credentials were added in the revised manuscript: see p. 7, line

The researcher was doing academic scientific research at university as

anthropologist: see p. 7,

The researcher is female. In the section 'data collection' we refer to the researcher with 'she', e.g.

The researcher is trained in

found)

163-165.

163-165

sociologist and

see p. 7, line 156

sociology and anthropology. She is extensively trained in quantitative and qualitative research techniques, which is added in the revised manuscript. See p. 7, line

163-165

No relationship was

established with the research participants prior to study commencement. This was added in the revised manuscript: see p.

6, line 128-129

doing the research (improving intercultural communication in the ICU). This was mentioned by the researcher verbally and written in the forms on

Participants were aware of

the researcher's reason for

line 163-165

NO	Item	Guide questions
Dom	ain 1: Research team a	and reflexivity
Perso	onal characteristics	
1	Interviewer/facilitator	Which author/s conc interview or focus gr
2	Credentials	What were the researcredentials? <i>E.g. Ph</i>
3	Occupation	What was their occu time of the study?
4	Gender	Was the researcher
5	Experience and training	What experience or researcher have?
Polati	anship with participants	
6	Relationship established	Was a relationship e to study commencer
7	Participant knowledge of the interviewer	What did the particip the researcher? e.g. reasons for doing the

es (COREQ): 32-item

			informed consent which the study participants had to sign. This information was added in the revised manuscript: See p. 6, line 141-142
8	Interviewer characteristics	What characteristics were reported about the interviewer/facilitator? e.g. <i>Bias, assumptions, reasons and</i> <i>interests in the research topic</i>	See 7
Domain	2: study design		
		What methodological orientation was	Grounded theory was used
Destision	orientation and Theory	stated to underpin the study? e.g. grounded theory, discourse analysis, ethnography, phenomenology, content analysis	See p. 7, line 170
Participa			The nexticipents (nexticute
10	Sampling	purposive, convenience, consecutive, snowball	and families) were selected purposefully. See p. 6, line 129-132
11	Method of approach	How were participants approached? e.g. face-to-face, telephone, mail, email	Participants were approached face-to-face. This was added to the revised manuscript: See p. 6, line 129-130
12	Sample size	How many participants were in the study?	Our sample consisted of staff members (nurses and doctors), patients and their relatives. In total 144 participants were included in the study (observations and interviews). See p. 6, line 132-133 and line 138- 139.
13	Non-participation	How many people refused to participate or dropped out? Reasons?	No patients and relatives refused to participate. 8 healthcare professionals refused to participate because they were not interested in the study topic. This was added to the revised manuscript, p. 6, line 133-134 and line 139.
Setting 14	Setting of data collection	Where was the data collected? e.g. home, clinic, workplace	The data was collected in the clinic (ICU). See p. 6, line 124-125
15	Presence of non- participants	Was anyone else present besides the participants and researchers?	As common in ethnographic studies sometimes also non- participants were present during the data collection, e.g. doctors who mostly work in other wards, relatives of patients who were not included in the study. This was added in

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			the revised manuscript: See p. 6, line 139-140
16	Description of sample	What are the important characteristics of the sample? <i>e.g.</i> <i>demographic data, date</i>	Following important characteristics of the sample has been mentioned: ethno-cultural background (p. 6, line 131- 132 and line 137-138), age (see p. 6, line 133), gender (see p. 6, line 133-134), medical condition (see p. 6, line 134-137). See also our included table on patients' characteristics.
17		Were questions prompts quides	Interview questions were
		provided by the authors? Was it pilot tested?	based on an interview guide, which was discussed among experts before the actual data collection started and pilot tested among a limited number of persons. This was added in the revised manuscript (see p. 7, line 160-162)
18	Repeat interviews	Were repeat interviews carried out? If	We don't know what is meant with the word repeat
		yes, now many:	interviews.
19	Audio/visual recording	Did the research use audio or visual recording to collect the data?	The researcher used audio recording to collect the data (Interviews were audio recorded). This was added in the revised manuscript. See p. 7, line 162.
20	Field notes	Were field notes made during and/or after the interview or focus group?	Fieldnotes were made in 2 stages: firstly, in the field during the data collection (by making short notes in a logbook during observations and after interviews); secondly, after the researcher had left the field (by transforming the short notes in longer comprehensive descriptive field notes): see p. 7, line 156-159
21	Duration	What was the duration of the interviews or focus group?	The interviews lasted between 50 minutes and 1h30. See p. 7, line 162
22	Data saturation	Was data saturation discussed?	Data saturation was referred to. See p. 8, line 180
23	Transcripts returned	Were transcripts returned to participants for comment and/or correction?	No. This was added to the revised manuscript (see p. 7, line 163)
Domain	3: analysis and findings		
24	Number of data coders	How many data coders coded the	3 researchers were
27		data?	involved in the coding of

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			the data (RVK, RD, JB). See p. 8, line 180-182.
25	Description of the coding tree	Did authors provide a description of the coding tree?	The coding tree is described. See p. 7-8, line 170-179
26	Derivation of themes	Were themes identified in advance or derived from the data?	The themes were derived from the data. See p.7-8, line 170-179
27	Software	What software, if applicable, was used to manage the data?	NVIVO 8 (QSR International, 2008) was used to manage the data. See p. 7, line 170-171.
28	Participant checking	Did participants provide feedback on the findings?	Participant provided feedback on the findings. See p. 8 line 184-187.
Reportin	g		
29	Quotations presented	Were participant quotations presented to illustrate the themes / findings? Was each quotation identified? e.g. participant number	In the appendix transcripts from fieldnotes and interviews are presented to illustrate the themes/findings. Each transcript was identified by stating the name of the case to which it belongs (fieldnotes) or by referring to the name of the interviewee (interviews). All names are pseudonyms. See appendix.
30	Data and findings consistent	Was there consistency between the data presented and the findings?	There was consistency between the data presented (see transcripts in the appendix) and the findings in the manuscript. This consistency is reflected in the title of each transcript which accords with the presented findings.
31	Clarity of major themes	Were major themes clearly presented in the findings?	Major themes are clearly presented in the results section. Each subtitle in the results sections refers to one of the 5 major themes.
32	Clarity of minor themes	Is there a description of diverse cases or discussion of minor themes?	No

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# MENTAL WELLBEING OF PATIENTS FROM ETHNIC MINORITY GROUPS DURING CRITICAL CARE: A QUALITATIVE ETHNOGRAPHIC STUDY

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Complete List of Authors:	Van Keer , RL; Vrije Universiteit Brussel, Public Health Deschepper, Reginald; Vrije Universiteit Brussel, Public Health Huyghens, Luc; Universitair Ziekenhuis Brussel, Critical Care Bilsen, Johan; Vrije Universiteit Brussel, Public Health
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2	MENTAL WELLBEING OF PATIENTS FROM ETHNIC MINORITY GROUPS DURING CRITICAL CARE: A			
4				
5	QUALITATIVE ETHNOGRAPHIC STUDY			
6				
7				
8	Rose-Lima Van Keer [*] , Reginald Deschepper [*] , Luc Huyghens [*] , Johan Bilsen [*]			
9				
10	(1) Mental Health and Wellbeing Research Group (MENT). Department of Public Health. Faculty of			
11	(=)			
12	Medicine and Pharmacy, Vrije Universiteit Brussel			
13				
14	Laarbeeklaan 103 1090 Brussel			
10				
17	Brussels, Belgium			
18	a maile refear Queb as ha			
19	e-mail. Tykeer@vub.ac.be			
20	(2) Mental Health and Wellbeing Research Group (MENT). Department of Public Health. Faculty of			
21				
22	Medicine and Pharmacy, Vrije Universiteit Brussel			
23				
24	Laarbeeklaan 103 1090 Brussel			
25				
26	Brussels, Belgium			
27	a maile relacabar Quub as ba			
20	e-mail: rdeschep@vub.ac.be			
30	(3) Critical care Department/Service of Intensive Care Medicine, Vrije Universiteit Brussel			
31				
32	Universitair Ziekenhuis Brussel			
33				
34	Laarbeeklaan 101 1090 Brussel			
35				
36	Brussels, Belgium			
37	a mail: Luc Huwghans@uzhrussal.ha			
30 30	e-mail. Luc. huyghens@uzbrussel.be			
40	(4) Mental Health and Wellbeing Research Group (MENT). Department of Public Health. Faculty			
40	(,, , , , , , , , , , , , , , , , , , ,			
42	of Medicine and Pharmacy, Vrije Universiteit Brussel			
43				
44	Laarbeeklaan 103 1090 Brussel			
45				
46	Brusseis, Beigium			
47	e-mail: iohan hilsen@vub ac he			
48				
49 50				
51	Correspondence to: R. Van Keer rvkeer@vub.ac.be or +32 2 4774608			
52				
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56	Key words: intensive care units, patients, cultural diversity, communication, mental health			
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#### Abstract

**Objectives**: To investigate the state of the mental wellbeing of patients from ethnic minority groups and possible related risk factors for the development of mental health problems among these patients during critical medical situations in hospital.

Design: Qualitative ethnographic design.

Setting: 1 intensive care unit (ICU) of a multi-ethnic urban hospital in Belgium.

**Participants:** 84 ICU staff members, 10 patients from ethnic-minority groups, and their visiting family members.

**Results:** Patients had several human basic needs for which they could not sufficiently turn to anybody, neither to their healthcare professionals, nor to their relatives, nor to other patients. These needs included the need for social contact, the need to increase comfort and alleviate pain, the need to express desperation and participate in end-of-life decision making. Three interrelated risk factors for the development of mental health problems among the patients included were identified: Firstly, healthcare professionals' mainly biomedical care approach (e.g. focus on curing the patient, limited psychosocial support), secondly, the ICU context (e.g. time pressure, uncertainty, regulatory frameworks) and thirdly, patients' different ethno-cultural background (e.g. religious and phenotypical differences).

**Conclusions:** The mental state of patients from ethnic minority groups during critical care is characterized by extreme emotional loneliness. It is important that staff should identify and meet patients' unique basic needs in good time with regard to their mental wellbeing, taking into account important threats related to their own mainly biomedical approach to care, the ICU's structural context as well as the patients' different ethno-cultural background.
# Strengths and limitations of this study

- As far as we know, this is the first study where the mental wellbeing of patients from ethnic minority groups is profoundly investigated by means of an ethnographic research design.
- By studying the mental wellbeing of these patients as is 'genuinely expressed', from multiple perspectives and in a contextual manner, through ethnographic fieldwork in an intensive care unit of a multi-ethnic urban hospital in Belgium, we have tried to develop a nuanced, non-stereotypical and rich insight into such patients' mental wellbeing.
- One limitation of this research could be the fact that the fieldwork was done in only one ICU. Therefore transferability to other situations must be done with caution. However, by spending a lot of time in a variety of situations (with 10 patients and their families, and all their healthcare professionals) it was possible to gain a rich insight into our sensitive research topic.

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#### INTRODUCTION

Having a good mental health/wellbeing means more than not having a mental disorder. The WHO defines mental wellbeing as 'a state of well-being in which an individual realizes his or her own abilities, can cope with the normal stresses of life, can work productively and is able to make a contribution to his or her community'. It is perceived as crucial to our capacity as people to think, communicate with others, earn money and enjoy life. Risk factors include individual factors on e.g. the socio-economical level (e.g. being poor, having a low educational level), cultural level (e.g. belonging to an ethnic minority group) and behavioural level (e.g. having an unhealthy life style, having little sleep), contextual/structural factors ( e.g. facing adverse work conditions, discrimination) and biological/genetical factors (e.g. being physically ill) [1,2]. It is then no surprise that during critical care patients' mental wellbeing comes under threat, and especially when other risk factors are involved, e.g. when patients have a different ethno-cultural background [3,4].

Hallucinations, fear, and depression frequently occur among patients admitted to the intensive care unit (ICU).[5-8] Several risk factors are identified, including invasive treatments, separation from family, physical pain, immobility, dependency, lack of control, lack of privacy and poor communication.[4,5,9,10, 11] Although disturbances in critically ill patients' mental health negatively affect their whole care process, healthcare professionals working in a critical care setting lack adequate strategies to improve patients' mental health. They are often not aware of patients' mental health problems as they mainly focus on the technological care aspects and lack training in mental care. Many critical care nurses for example do not have enough insight in the elements that might affect their patients' psychological state. [9,12] Furthermore in society at large, mental health problems remain a sensitive issue as such problems are often difficult acknowledged and talked about.

Additionally, healthcare professionals have to communicate increasingly with patients from ethnic minority groups, i.e. persons of a different origin who share certain cultural characteristics to some extent [13], as a result of societies' increased ethno-cultural diversity. In Belgium, healthcare for migrants is basically organized in the same manner as for people from the ethnic majority group. However it is known that during the care for migrants problems regularly arise which are situated on mainly 2 levels, namely firstly health differences (ethnic minorities have less chance on a healthy life than people from the ethnic majority group) and secondly

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problems regarding the accessibility and use of healthcare services (ethnic minorities have lower access to healthcare services and receive less quality care than members of the ethnic majority group). Problems are often very complex and related to different factors, such as linguistic and cultural differences. [14] We might assume that critically ill patients from ethnic minority groups are at an even higher risk of mental health problems and that ethno-cultural differences render mental health problems more complex and multifaceted. Inattention by healthcare professionals to specific ethno-cultural habits (e.g. gender segregation), discrimination, unfamiliarity with the western healthcare system and different foodways can contribute to traumatic experiences for ethnic minorities. [15, 16, 17, 18] Furthermore, language differences and ethnocultural norms prescribing acceptance of physical suffering can lead to less adequate communication and pain relief[19,20], which can endanger such patients' psychological state.[7,15,21] Yet, although we increasingly live in a multi-ethnic society, research about the mental wellbeing of patients from ethnic minority groups during critical care is rather scarce and there are very few in-depth studies which try to understand this topic in its specific context and from different angles.

In this study we therefore aim to investigate 'the state of the mental wellbeing of patients from ethnic minority groups and possible related risk factors for the development of mental health problems among these patients in a multi-ethnic ICU'. In-depth understanding of occurrences of mental health problems among patients from ethnic minority groups can contribute to the development of recommendations to prevent such problems for these patients.

#### METHODS

Patients' mental wellbeing in a multi-ethnic critical care setting is a sensitive, complex, and novel topic of research. Therefore an ethnographic research design has been used, which gave the researcher the opportunity to immerse herself into her study field and study the research topic for a long period on the workfloor itself. By getting a feel of the lifeworld of the ICU, observing and interacting with different parties, the researcher was able to grasp the research topic in all its different facets and from different angles.

[22-24]

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#### **Participants & setting**

 Ethnographic fieldwork was done in one ICU of a multi-ethnic urban hospital in Belgium over 6 months (January 2014-June 2014). 40 % of the ICU patients are estimated to belong to an ethnic minority group. Staff's, patients', and relatives' behaviour, interactions, and experiences were studied for 360 hours. The selected patients and the family members who accompanied them, as well as their healthcare professionals, were followed for the whole critical period. No relationship was established with the research participants prior to the beginning of the study. Patients and their family members were purposefully selected and approached face-to-face. They were only eligible for inclusion in the study if the patient or at least one of his/her legal parents was born abroad, if at least one of the family members (patient/his or her relatives) was able to speak Dutch, French, or English, and if the patient was at least 18 years old. In total we selected 10 patients and their visiting family members, who were originally from Morocco, Algeria, Turkey, Congo and Portugal. No patients and relatives refused to participate. The patients were between 40 and 82 years old and consisted of 6 males and 4 females. They were admitted for complicated pneumonia (3), abdominal problems (1), heart problems (2), brain haemorrhage (2), cancer (1), and a severe accident (1). All patients were sedated for some time, and as a result were unable to communicate or only had limited ability to communicate, depending on the level of sedation. The critical care team consisted of 80 nurses and 12 doctors, who were almost all white Caucasians from the dominant ethnic group. 8 staff members refused to participate in the study. Of course also other people were present during the ethnographic fieldwork, e.g. doctors who mostly work in other wards. Research participants were aware of the researcher's reason for doing the research (improving intercultural communication in the ICU). (For further information about patients: see supplementary file 'Patients characteristics').

## Data collection

Data were collected through triangulation of several data collection strategies, namely negotiated interactive observation, [22] in-depth- interviews with healthcare professionals, [23] and the reading of patients' medical

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records. In an ICU setting, typified among other things by time pressure and highly specialized lifesaving care tasks, it is very difficult for the researcher to fully participate in the core activities of social life on the ward. Therefore 'negotiated interactive observation' was chosen, meaning that before starting the observations the researcher always implicitly or explicitly asked permission for it to the research participants [22]. This technique enabled the researcher to gain the trust of the research participants easily. Negotiated interactive observation gave the researcher the opportunity to have 480 informal conversations with healthcare professionals, family members, and patients, attend 144 staff meetings, and witness 375 interactions between healthcare professionals, relatives, and patients during visiting hours.

When the researcher was in the ICU she made notes in a logbook. After the researcher had left the ICU, she transformed these notes into comprehensive descriptive field notes containing observations of participants' discourse, behaviour, and interaction, informal conversations with them as well as researcher's reflections on her behaviour and feelings in the field.[23] Formal in-depth- interviews were held with nine healthcare professionals in two meeting rooms in the hospital. The interview questions were based on an interview guide, which was discussed among experts before the actual data collection started and pilot tested among a limited number of persons (see supplementary file 'Topic list interviews'). The interviews lasted between 50 minutes and 1h30 and were audio recorded. Interview transcripts were not returned to the research participants for comments or corrections. All data were collected by the first author (RVK), a trained ethnographer and sociologist (MSc) who was doing academic scientific research at university at the time of the study. She is extensively trained in qualitative research.

#### Data analysis

The analysis started with a 'thick description' [25] of participants' discourse, behaviour, and interaction and was followed by a grounded theory analysis.[26] In depth-interviews were transcribed, and data were conceptualized by means of a three-step coding process, supported by NVIVO 8 (QSR International, 2008). This process resulted in the creation of a conceptual model, consisting of different themes and subthemes. Firstly, an open coding phase was performed, involving the reading and rereading of the data. This resulted in the

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formation of different codes, for instance 'physical contact', 'proximity', and 'fighting'. To find similarities and differences between these codes, new codes were constantly compared with already existing codes. Secondly, axial coding took place. This led to the formation of groupings of similar codes, i.e. categories, for example 'social contact' and 'saving patient'. Relationships between the categories were also established, for instance 'basic needs' and 'care strategies'. Thirdly, selective coding was performed to determine the core category ('emotional loneliness') around which the related categories are clustered.[26,27]

Data collection and analysis were stopped when the point of saturation was reached.[26,28] Reliability was strengthened by the first author (RVK) doing the data analysis and two co-authors (RD & JB) doing a peer-revision of the analysis. The process of data collection and data analysis was also regularly discussed by members of the multidisciplinary academic research group in which these authors participate, consisting of a health scientist, a psychiatric nurse, 2 anthropologists, and 1 sociologist. To improve the reliability and accuracy of the study, the results were also read by an intensive care specialist who is part of the intensive care team at the hospital in which the researcher did her fieldwork. Furthermore the study results were presented to and discussed with the nurses who had participated in this study during a conference.

#### Ethics

 The research protocol (reference 2013/371) was approved by the university ethics committee of the Vrije Universiteit Brussel. The privacy of the research participants and confidentiality of the data were respected, e.g. by using pseudonyms. Written consent to participation in the study was sought from healthcare professionals, family members, and patients who were still able to communicate. If the patient lacked the capacity to give consent, consent was sought from his/her legal representative.

#### RESULTS

The patients included were admitted for complicated pneumonia (3), abdominal problems (1), heart problems (2), brain haemorrhage (2), cancer (1), and trauma (1). Mental health problems came overtly to the fore among patients. Patients had several basic needs for which they could not sufficiently turn to anybody, neither to their

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healthcare professionals, nor to their relatives, nor to other patients. These needs comprised 'the need for social contact, non-medical information exchange, the need to increase comfort and alleviate pain, the need to express desperation, and to participate in end-of-life decision making'.

#### 1) Need for social contact

Patients longed for social contact with relatives, healthcare professionals and other patients, and not only verbally but also non-verbally. This need became even more significant when patients were unable to communicate verbally as a result of their medical state and/or language differences. More specifically, patients longed for proximity of others, physical contact, and chatting.

Patients wanted their relatives and friends to be close to them, felt the need to touch and/or kiss them and talk or write to them. Therefore, patients wanted their loved ones to stay longer than accepted during visiting time, to come more often, or to take them back home (see table 1a in supplementary file 'Quotes'). Some patients also wanted to phone home to request visits from relatives (see table 1b in supplementary file 'Quotes'). Furthermore, patients wanted healthcare professionals to communicate more often with them (see table 1c in supplementary file 'Quotes'). However, the rules concerning visits, the infrastructure/ accommodation (e.g. no telephone) and healthcare professionals' focus on the patients' disease made it difficult for staff to fully satisfy patients' need for social contact. Moreover, pressure of work and time made it tough to communicate with patients. Furthermore language differences and misconceptions of healthcare professionals towards patients' ability to communicate in the language of the host country, sometimes based on patients' different skin colour, endangered the meeting of patients' social needs. (see table 1d in supplementary file 'Quotes'). Some patients also felt the urge to connect with other patients. This became indirectly apparent when patients stared at other beds and/or asked questions about other patients' conditions. Nonetheless, infrastructural constraints (e.g. remote beds) and language differences made communication between patients impossible. (see table 1e in supplementary file 'Quotes')

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#### 2) Need for non-medical information exchange with healthcare professionals

The information exchange between doctors and patients was primarily of a medical nature. When patients were conscious, doctors explained to patients their medical situation, which medical actions they had undertaken as well those they would undertake in the future, and which medical decisions had been taken. However, patients not only felt the need to get medical information regarding their physical state from healthcare professionals, but equally to exchange information with them on matters that were not strictly medical, e.g. practical issues, visual aspects (e.g. activities going on around them) and their family (see table 2a and 2b in supplementary file 'Quotes'). Furthermore, nurses regularly did not communicate with patients or only communicated with them in a task-related manner (see table 2c in supplementary file 'Quotes').

Despite healthcare professionals' good intentions, they often perceived it as impossible to communicate with patients about non-medical issues due to their prime task of safeguarding the patients' clinical state, time pressure, and their workload (see table 2d in supplementary file 'Quotes'). Also language differences made communication between patients and healthcare professionals about non-medical matters more difficult (see table 2e in supplementary file 'Quotes'). In addition, communication with relatives about non-medical issues was limited as well. Relatives often focused on their search for exhaustive medical information from doctors, which was reinforced by group pressure within their families, during the restricted visiting hours.

#### 3) Need to increase comfort and alleviate pain

Patients wanted to increase their comfort and be free from pain. This need was often expressed through verbal and non-verbal communication. Patients verbally requested acts of care to increase comfort in the language of the host society or in their own mother tongue. They also often indirectly requested comfort-increasing care by expressing their suffering through non-verbal signs, e.g. pointing with their heads. However, sometimes these expressions of patients' hardship were not noticed, minimally acknowledged, not apprehended or misunderstood, even neglected, normalized or temporarily medically suppressed by giving tranquilizers, by healthcare professionals. Inadequately meeting patients' need for comfort and pain alleviation was related to

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healthcare professionals' workload, time pressure, their focus on strictly medical care task and actual/falsely perceived language differences. Consequently, comfort and pain was often addressed based on healthcare professionals' unilateral assessment, sometimes leading to mistrust between themselves and patients and irritation and insecurity occurred on both sides (see table 3a in supplementary file 'Quotes').

Patients' non-verbal care requests were sometimes not seen or neglected by healthcare professionals because they were too occupied with medical care tasks. Apprehension by healthcare professionals of patients' verbal messages was sometimes hampered by language differences (see table 3b in supplementary file 'Quotes'). Moreover, when patients' non-verbal expressions of suffering were noticed, communication with patients sometimes unfolded inadequately or no communication occurred. This was sometimes related to healthcare professionals' misconceptions of patients' language proficiency, based on the very quick and minimal moments of interaction they had with patients and relatives and patients' different skin colour. Also staff's general knowledge of patients' country of origin which they sometimes easily applied to all patients from that country contributed to these misconceptions (see table 3c in supplementary file 'Quotes').

On the other hand, some patients who were at moments totally unable to communicate as a result of medical and linguistic barriers were automatically perceived as quiet patients who were comfortable/painless (see table 3d in supplementary file 'Quotes'). When patients experienced discomfort for a longer time some of them did not want to ask healthcare professionals for help anymore and wanted to leave the ICU (see table 3e in supplementary file 'Quotes').

#### 4) Need to express desperation

Among some patients, feelings of desperation were observed at times. Some of them wanted to leave the hospital, others wanted to completely give up treatment (see table 4a in supplementary file 'Quotes'). Patients felt the need to express and share these feelings with others. However, patients regularly felt obliged to suppress their hopelessness during critical care in front of healthcare professionals and relatives, resulting in frustration and sadness.

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Healthcare professionals did not stimulate expressions of desperation. They frequently presented patients with their situation in a hopeful manner and tried to motivate them to not give up, leaving little space for patients to express their negative feelings. And even when patients did express their hopelessness, healthcare professionals often did not respond. Moreover, when patients became very overtly anxious/hopeless, tranquilizers/antidepressants were given (see table 4b in supplementary file 'Quotes').

Additionally, family members remained hopeful and consequently also spoke in a hopeful tone to patients (see table 4c in supplementary file 'Quotes'). Relatives' religious beliefs and high expectations for cure in western hospitals functioned as sources of hope. Furthermore, negative information was hidden for some family members by other relatives so as to not create unrest within their large transnational families, which affected relatives' positive outlook on the patients' situation (see table 4d in supplementary file 'Quotes'). Additionally, families' considerable size led to group pressure among its members to remain hopeful. Moreover, patients themselves presented their situation in a more positive manner towards visiting relatives coming from the home country so as to not worry their relatives there (see table 4e in supplementary file 'Quotes').

#### 5) Need to participate in end-of-life decision making

 Enduring physical and mental suffering triggered a need for some patients to participate in a decision to withdraw therapy. This need was verbally and non-verbally expressed at several points (see table 5a in supplementary file 'Quotes'').

However healthcare professionals regularly acknowledged these patients' communication only minimally, neglected it, forgot it or tried to change patients' opinions. Doctors mostly saw themselves as the central decision makers and wanted to continue treatment, when they believed that patients still had a chance to survive within the context of their specific pathology. Patients were seen as lacking the required expertise to make a decision to withdraw therapy. Furthermore, their wishes were perceived as irrational/fluctuating, as they could change after a hopeful conversation with a healthcare professional, after appropriate treatment or after taking anti-depressants (see table 5b in supplementary file 'Quotes'). Further, healthcare professionals saw it as their mission to save patients' lives, which was reinforced by their daily contact with many hopeful

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relatives of the patient who saw God as the ultimate decision maker. Consequently, not being able to save the patient was seen by some healthcare professionals as a personal failure. (see table 5c in supplementary file 'Quotes')

#### DISCUSSION

This ethnographic study investigates the state of the mental wellbeing of patients from ethnic minority groups and possible related risk factors for the development of mental health problems among these patients in a multi-ethnic ICU in Belgium. We found that the mental state of critically ill patients from ethnic minority groups is basically characterized by an 'extreme emotional loneliness'. Patients had several human basic needs for which they could not sufficiently turn to anybody, neither to their healthcare professionals, nor to their relatives, nor to other patients. It concerned the need for social contact, for non-medical information exchange, the need to increase comfort and alleviate pain, the need to express desperation, and participate in end-of-life decision making. Insufficiently meeting patients' basic needs endangered patients' mental wellbeing as defined by the WHO, e.g. in the sense that they couldn't cope adequately with stress and didn't feel to contribute to their family/community anymore. Three interrelated risk factors for the development of mental health problems among the included patients were identified: firstly healthcare professionals' mainly biomedical approach to care, secondly the ICU context, and thirdly the patients' different ethno-cultural background.

The mental wellbeing of patients from ethnic minority groups in a critical care setting is an underresearched topic. Although a body of research has recently begun to grow that focuses on the lifeworld of patients in a critical care context [see for example:4,5,9,12], still very few of these studies focus on specific vulnerable patient groups, e.g. patients from ethnic minority groups, and mental health issues. Furthermore some researchers that do focus on critically ill patients from ethnic minority groups study their experiences mainly through interviews with patients, their relatives or staff [see for example: 15, 29]. So as far as we know, this is the first study where specifically the mental wellbeing of patients from ethnic minority groups is investigated in one particular context, namely the critical care context, by means of an ethnographic research

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design. A study design of this kind is the most appropriate way to gain nuanced/deep insight into complex themes e.g. mental wellbeing of patients from ethnic minority groups in a critical care setting. Ethnographic day-by-day observations on the ward allow the study of patients' mental wellbeing as it is 'genuinely expressed' and from the perspective of the different people involved, from a non-prejudiced perspective.

The researcher might have had an impact on the field and the research findings as she herself has a non-Belgian ethnic background and collected data for a long period which enabled her to gain a lot of trust from patients and their families and made the latter speak to her in a very open manner. This subjectivity is a basic feature of qualitative ethnographic research [23]. A weakness of this research could be the fact that the fieldwork was done in only one ICU. Therefore transferability to other situations must be done with caution. However, by spending a lot of time in a variety of situations (with 10 patients and their families, and all their healthcare professionals) it was possible to gain a rich insight into our sensitive research topic. There is no specific reason to believe our findings are not valuable for other similar settings. Another weakness of this study is that the researcher has only used a limited amount of ethnographic data collection techniques (indepth interviews only with staff, negotiated interactive observation, consulting patients' medical files). This can be explained by the fact the specific ICU setting and the vulnerability of the patients and their relatives don't allow other techniques, such as video recording and full participant observation, for ethical reasons.

Our study shows that the patients included felt extremely emotionally lonely because several of their basic needs were insufficiently met. This seems to confirm previous research showing that ICU patients favour a holistic care approach and thus value attention from healthcare professionals not only to their biophysiological needs but also to other general psycho-social and existential human needs, e.g. the need for social contact, for non-medical information exchange, religious needs and participation in decision making.[9,15,16,30]

Healthcare professionals' care strategies were inspired by a biomedical model of care. According to this model, healthcare professionals primarily focus on the diagnosis, treatment, and cure of somatic problems, caused by biological processes and expressed in signs and symptoms.[31] Care is orchestrated by healthcare professionals who try to remove patients' disease as quickly as possible by applying evidence-based medicine, although 'trial and error' can play a role. Such care strategies go often together with enforcing regulatory

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frameworks (e.g. concerning visits) to safeguard patients' clinical condition, which is regarded as a central responsibility of healthcare professionals, a predominantly medical, unidirectional information flow interlaced with hope, little focus on psychosocial support, and minimal attention to patients' communication. These care strategies perfectly align with the ICU care context, characterized by the performance of life-saving tasks, making life and death decisions, a technological orientation, a specific regulatory framework and infrastructure (e.g. beds that are distant from each other, no telephone for patients), time pressure, uncertainty and professional stress. As a result, in ICUs, measurable, visual and auditable disease-related aspects are highly prioritized by staff, while less visible aspects, e.g. patients' emotions, are much less acknowledged.[7,9] On the other hand, taking into account patients' emotions becomes even more complex and challenging when patients have a different ethno-cultural background. The included patients' different ethno-cultural backgrounds entail specific characteristics on 3 interrelated levels: the patient's level (e.g. religious beliefs and collectivistic orientations), the family level (e.g. large and transnational family structures, specific views on care and suffering , communication forms and families' history of migration), and the level of patient-staff interaction (e.g. phenotypical features, language).

Staff, occupied with urgent lifesaving care tasks, were frequently unable to react effectively to patients' verbal and non-verbal communications, often expressed by patients who completely lacked knowledge of the language of the host country. However, adequately decoding ethno-culturally diverse patients' non-verbal communication is crucial for optimal pain management and shared medical decision making.[32,33] Furthermore, pressured healthcare professionals had little time to gain in-depth-knowledge of patients' level of skill in the language of the host society. Therefore the staff easily developed misconceptions of patients' language proficiency based, for example, on their general knowledge of the patient's country of origin or specific phenotypical features, which led to inadequate communication or a complete absence of communication with patients about their needs. Moreover, insufficiently satisfying specific needs which were ethno-culturally inspired led to high emotional loneliness among patients. For example, a failure to meet patients' needs for multiple types of social contact (e.g. proximity of others) strengthened for some patients by the collectivistic orientation of their minority cultures, led to high emotional suffering among particular patients. Moreover, because relatives shared ethno-cultural expectations towards patients to remain stoic and hopeful in difficult times, they did not pay enough attention to patients' specific unique basic needs, i.e. their

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 need to express desperation and participate in end of life decisions, which made patients feel left behind. In line with this finding, previous research has shown that overt communication about pain and sorrow between patients from certain ethnic minority groups and their relatives is limited.[34] Additionally, relatives' high levels of hope triggered healthcare professionals, caring for patients with an uncertain prognosis, to continue lifesaving treatments and reinforced their belief in their core responsibility to save patients' lives, while these patients' voices were largely unheard. Likewise, previous research demonstrates that more aggressive interventions occur at the end of the lives of patients from ethnic minority groups.[35] Relatives shared high levels of hope, which were associated with an ethno-cultural non-disclosure of negative information by some relatives towards other relatives, ethno-religious beliefs,[29] migration-related expectations towards an unlimited field of medical possibilities in western hospitals, and group pressure among the many relatives to remain hopeful.

Finally, another striking observation is that not only patients' mental health but also the mental state of healthcare professionals working in such interethnic critical medical situations can become severely threatened due to their experiences of powerlessness towards meeting some of their patients' human basic needs. This can further negatively affect patients' mental state.

Our study results are certainly also of relevance to patients from majority ethnic backgrounds because we found that the ICU context and staff's biomedical approach, factors to which all patients are exposed, hindered the satisfaction of several human basic needs which are shared by all patients irrespective of their ethnocultural background. Patients from ethnic minority groups their different ethno-cultural background forms an extra important risk factor for not meeting their basic needs. Of course the relative importance of this risk factor is different for each patient.

Mental health problems among patients, irrespective of their ethno-cultural background, can primarily be reduced by investing in patient-centred care, which requires the implementation of intervention measures stimulating the coexistence of biomedical and more holistic views on health and care among staff, on the level of daily work, training and education, and ICU policy/organization. Such structural measures include staff training in mental health, flexible visiting policies, the presence of a social worker on the ward, questioning the division of labour and working hours, close cooperation with a psychologist/psychiatrist, etc. Additionally, in a multi-ethnic ICU context, extra measures are urgently required, e.g. cultural sensitivity training for staff and students, language facilitation, and the presence of religious figures on the ward. Further (evidence-based)

research is greatly needed to measure the specific impact of these recommendations in a multi-ethnic critical care setting.

#### CONCLUSION

The followed patients had specific basic needs for which they could not sufficiently turn to anybody, leaving them in a state of extreme emotional loneliness. Three interrelated risk factors for the development of mental health problems among these patients were identified: firstly, healthcare professionals' mainly biomedical care approach, secondly the ICU work context and thirdly the patients' different ethno-cultural background.

#### Abbreviations

ICU, intensive care unit

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**Authors' contributions:** RVK contributed to the research design, applied for the ethical approval, completed the data collection, contributed to the data analysis, contributed to the interpretation of the data, wrote the manuscript and is the guarantor of the manuscript. RD applied for the FWO grant, contributed to the research design, applied for the ethical approval, contributed to the data analysis, contributed to the interpretation of the data and wrote the manuscript. LH applied for the FWO grant, contributed to the research design and applied for the ethical approval, contributed to the interpretation of the data and wrote the manuscript. JB applied for the FWO grant, contributed to the research design, applied for the FWO grant, contributed to the research design, applied for the ethical approval, contributed to the research design, applied for the ethical approval, contributed to the interpretation of the data analysis, contributed to the interpretation of the data analysis, contributed to the interpretation of the data and wrote the manuscript. JB applied for the FWO grant, contributed to the research design, applied for the ethical approval, contributed to the research design, applied for the ethical approval, contributed to the research design. Applied for the ethical approval, contributed to the research design, applied for the ethical approval, contributed to the research design.

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# Patients' characteristics

Number	Pseudonym	Country of origin	Medical condition
1	Amrani	Turkey	Complicated
			pneumonia
2	Fadila	Morocco	Heart
			problems
3	Norah	Morocco	Complicated
			pneumonia
4	Abdallah	Morocco	Complicated
			pneumonia
5	Zacharia	Morocco	Heart
			problems
6	Bilal	Algeria	Abdominal
			problems
7	Quintus	Congo	Brain
			haemorrhage
8	Onur	Turkey	cancer
9	Kabibe	Congo	Brain
			haemorrhage
10	Ali	Portugal	Severe
			accident

accident

# Topic list for formal in-depth interviews

- Pathology
- Experiences with communication (patient relatives intra-team)
  - Difficult communication/disagreements (if applicable)
- Decision making
  - o Role nurse doctor patient relatives
  - o Course
  - o Difficult communication/disagreements (if applicable)
  - Final medical decision
- Care for patient
  - Positive and negative experiences
- Death of patient
  - Communication with relatives
- Prevention of difficult communication

Quotes	(Note: all the names are pseudonyms)
1. NEED FOR SOCIAL CONTACT	
a) Longer visits	
Patient: I've had enough I've gone mad.	
()	
Researcher: But when your children are here, does that lift your spirits?	
Patient: Yes, at the time	
Researcher: And at other times?	
Patient: When they've gone? I'd like them to stay here longer.	
[Field note, Norah]	
b) Phone home	
Patient: 'Telephone'.	
Researcher: 'Do you want to use the telephone?'	
Patient: 'Yes'.	
Researcher: Who do you want to call?	
()	
Patient: 'Home'.	
Researcher: 'Why'?	
Patient: 'To say they have to come.'	
[Field note, Zacharia]	
c) More communication with staff	
<b>Researcher:</b> So there aren't many people you can talk to?	
Patient: Here in hospital?	
Researcher: Nods, uh huh	
Patient: No They don't answer you	
Researcher: Who?	

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Patient: The nurses [...] They came when I had almost gone mad.

Researcher: And why?

Patient: I don't know.

Researcher: And what do you think about that?

Patient: Leave the hospital.

[Field note, Norah]

# d) Misconceptions of staff towards patients' language proficiency

When I come in the patient, a dark-skinned man, is writing, along with his daughter Barbara. I notice that he is already able to write better than in the previous days during which he wrote a lot of indecipherable signs on the paper. He points to me and writes 'NAME' on the paper. So he is asking my name. Then he points to his daughter and writes 'Barbara' on the paper. I say my name and then write my name on the paper.

[...]

During the change of nursing shift, the following is said about the patient:

'The patient wants to write all the time'. A nurse remarks: '*But he writes in Arabic*!' (...)'. Annoyed, the nurse continues, saying: '*I'm not going to learn Arabic so that I can understand him! We can never get anything right*'. (...) The nurse storms angrily out of the meeting. Some of the other nurses look shocked but they continue with the meeting. Another nurse asks: '*How can he write? He can't even hold a glass, talk ...*' However the patient does not know any Arabic and can talk French, an official language in Belgium. Apparently the nurse wrongfully believed that the patient could only talk a foreign language because he has a different skin colour and has been writing a lot of unreadable signs lately.

[field note, Quintus]

## e) Infrastructural constraints

Patient: Is there a sick person over there?

The patient lifts her head a little and looks curiously at the bed in the distance that is diagonally opposite her bed. She can only catch a glimpse of that bed ...

Patient: She has been ill for a week ...

<b>Researcher:</b>	There	are six	beds	here	
--------------------	-------	---------	------	------	--

[...]

 Patient: Six in intensive care... Is it serious?

Researcher: Some are more seriously ill than others...

[Field note, Norah]

## 2. NEED FOR NON-MEDICAL INFORMATION EXCHANGE WITH HEALTHCARE PROFESSIONALS

#### a) Practicalities

The doctor gives a medical explanation to the patient. (...) During the doctor's explanation, the patient looks questioningly at the doctor. She asks the doctor: '*When can I go to the room?*' (Meaning: The patient asks the doctor when she can leave the ICU and go to a room in another ward). The doctor says: '*today*'. [Field note, Norah]

#### b) Family

I try to talk about his medical situation with him (patient) a bit and say: 'Your cannula has gone' and point to his throat. He says bluntly: 'I'm not interested in that'. I'm shocked by what he says. I ask what does interest him. He says: 'My wife'.

[Field note, Zacharia]

## c) No communication from staff

The patient is lying with his eyes open. He has to gasp for air the whole time, is looking around which makes him seem very frightened (...) A nurse comes to aspirate the phlegm. He simply carries out his task and does not speak to the patient.

[Field note, Zacharia]

#### d) Time pressure and workload

Researcher: Erm, how did you experience your care for the patient? (..)

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**Nurse:** Very difficult! Erm, not always easy. Erm. He wasn't always easy to deal with himself. The patient. Which is sometimes understandable, of course, if you are that ill. Erm, but because of the, the pressure of work we're actually under, sometimes you can erm, with him, not as much, I mean sometimes we couldn't give him as much time as we would like to. Erm and sometimes I find that the most difficult part of your job, that you do want to stay in a room longer sometimes to, well, to be able to talk to your patient a bit more, or take your time a bit more with everything, but that sometimes that's not possible because you've got other things to do and you have to say "No, I have to go!" and, erm, yes, that's pretty much that. If I just look at the patient themselves, I mean.

[Interview with nurse Vanessa]

## e) Language differences

The nurse comes into quarantine without saying anything to the patient. She looks at the medication and does several things on the PC. The patient looks at the nurse and says: '*tranquil*', relax. I deduce from this that the patient wants to talk to the nurse. The nurse doesn't react to the patient's words. Then she pours the patient's urine into a plastic bottle. The patient asks me: '*What is she doing?*' I say to her: '*He's asking what you're doing*'. She replies in Dutch, a language the patient doesn't understand: '*I'm pouring his pee into a bottle'*. Then she leaves quarantine.

[Field note, Zacharia]

## 3. NEED TO INCREASE COMFORT AND ALLEVIATE PAIN

## a) Mistrust and irritation

10 minutes later, the patient is shivering with cold. He points to the blanket. He wants an extra blanket, but there are no nurses nearby. I leave quarantine again and go and ask the nurses for a blanket. One of them says: 'Now he's messing us around. I was with him just a moment ago. ' There was no response to his request.

[Field note, Abdallah]

# b) Language differences

 I sit down at the nurses' table. The patient sees us and calls out to us in Arabic. The nurses stay where they are and say: '*It is annoying, though, that we don't understand them*' (...). Apparently these carers feel powerless. The patient continues to call out and complain, and waves her arms in the air. She also bangs her arms against her head. Clearly she is trying to tell us something. None of the carers go over to her. [Field note, Fadila]

## c) Misconceptions of staff towards patients' language proficiency

I ask the nurses who are checking the parameters shown on the monitor by the patient's bed: 'Does he speak French?' One nurse answers: 'Yes, because French is an official language in Algeria, isn't it.' However the visitor told me that the patient only speaks Arabic. The patient is very distressed. 2 nurses stand around his bed after visiting hour and ask him in French: 'Can you breathe properly? Are you comfortable? Bilal, Bilal, are you comfortable?' The patient is still very distressed and every time the nurses say something to him, he moves his head from left to right. (...) The carers therefore assume that this patient understands them on the basis of their presuppositions.

[Field note, Bilal]

## d) Quiet comfortable patient

During the nurses' meeting in the unit, the patient's situation was discussed. Among other things, he is said not to be a difficult patient: '*He doesn't cause trouble, he's not in pain and he doesn't complain'*. It strikes me that the patient has little opportunity to 'complain' given that he had a cannula that rendered him unable to speak. Besides, according to the visitor, he does not speak Dutch, French or English, so he cannot speak to the nurses. It is also strange that the nurses decide he has no pain purely on the basis of the absence of verbal communication between the patient and the carers.

[field note, Bilal]

#### e) Wish to leave the ICU

**Patient:** I'm not going to stay in intensive care, this place is death.

# Researcher: Why?

**Patient:** I don't like it...Nobody comes, nobody listens... Even the nurses, one in ten glances your way for a moment, that's all ...(...) 'I can't manage yet, when I'm done'...Anyway, I don't like it.

[...]

The patient looks sad and dejected. She says to her daughter that she wants to be moved because her back

hurts. She says the nurses aren't friendly to her and that they don't often come when she asks them to.

Suddenly she starts to cry.

[Field note, Norah]

# 4. NEED TO EXPRESS DESPERATION

# a) Wish to give up treatment and leave the hospital

Patient: Nothing has changed...

Researcher: How does that feel?

(Silence; she's thinking)

**Patient:** It doesn't change anything.

Researcher: You don't think it changes anything? And why do you think that?

Patient: I'm disgusted with life.

Researcher: You're ...?

Patient: Disgusted with life.

Researcher: Disgusted with life ... And that means?

Patient: I've no more hope.....I want to leave the hospital...

[Field note, Norah]

# b) Tranquilizers

The nurse says that the patient is nervous and that that is why she is giving her a Xanax. The nurse speaks to the patient in Dutch, asking: '*Why are you nervous?!, You have to do your best, you know!!*'. I have the impression that the patient doesn't understand the nurse. (..) The patient says in French: 'Don't understand.' [Field note, Norah]

# c) Hopeful relatives

 I hear from the nurses that the patient gets panic attacks, hyperventilates and that his heart rhythm has increased (...) During visiting hour the patient says to his wife: '*it's fucked*,' to which the wife replies hopefully: '*You'll get through it, you'll get better. The infection has gone down'*. The patient rolls his eyes at this.

[Field note, Abdallah]

# d) Relatives hiding negative medical information for each other

In the meantime, the patient's daughter tells me her brother talked to another doctor the previous evening and that it was a 'good' conversation. The patient was apparently a bit better and they would see how he was later in the week. This has clearly given the daughter more hope today. However I witnessed the conversation the day before between the doctor and the patient's son from a distance and the news the doctor brought was not good news. I deduce from this that the patient's son is hiding the confronting information the doctor gave him from his sister and giving her a rosier picture of the patient's situation so that she would continue to hope.

[Field note, Onur]

# e) Patient more positive towards relatives from his home country

Then the uncle says: 'Will you fight for your children?' The patient nods. The uncle continues: 'You came out of the coma, that's a sign that you want to continue, that you want to fight. Your face looks better.' Then the patient shakes his head and lowers his eyes. (...) Then the patient's brother comes into quarantine. He flew over yesterday from Morocco. When he asks the patient how he is, the tone is more cheerful. The patient lifts his hand into the air and makes small, successive striking motions in the air, with which he means to indicate that his medical situation is improving. The brother laughs and says he saw him a while ago in a coma and that he is pleased he is now awake and eating. So he says to the patient that he sees clear progress. It is striking that the patient says to his brother who has flown over from Morocco that he is better, whereas he tells his wife and uncle that he is not doing well. [field note, Abdallah (died in the ICU)]

## 5. NEED TO PARTICIPATE IN END-OF-LIFE DECISION MAKING

## a) Verbal and non-verbal communication by patient

I ask him (the patient) if he is okay. He shakes his head, indicating '*no*', then breathes in and out loudly. He looks like a fish gasping for air. He means by this that he has difficulty breathing, even with the machines. He points to the machines. He looks angry and very sad at the same time. (...) He strikes the air with his hand, a gesture that I believe means he wants to give up. He points to the machines again and says '*that's useless*'. (...) The patient sighs and looks really contorted. I ask in French if he is in pain. '*Vous avez mal*'? He nods and points to his chest.

[Field note, Abdallah]

## b) Patient seen as incompetent by staff

I see the doctor walking into the unit. I go over to him for a moment and tell him about the patient's panic attacks. He says: 'That is normal, because he has already been in here for three months... We can hardly tell his body it has to stop... And even if the patient or family wanted us to stop treatment, we couldn't comply with that....I ask him: 'Why not?' He replies: 'The patient and his family are not competent to decide because they are in a phase of pain and emotion... If we say we are going to continue, we will continue... [Field note, Abdallah]

## c) Saving the patient as doctors' mission

Nurse: And I think he had indicated a couple of times himself that he had had enough.

Researcher: How did he indicate that?

Nurse: Yes, by actually, erm by saying, and by saying "It doesn't help, does it! Don't do that, it doesn't help!"

He said that very often at the end.

Researcher: And who did he say that to then?

Nurse: He said it to me a couple of times. (...) He definitely said to me: "Just leave it like this, it's not going

to, you know..." Erm, but even helping to decide "We're going to stop!" I don't think he did that. (..)

[..]

**Researcher**: Erm, and did you talk about that to other people, about the fact that the man told you he would prefer the treatment to stop?

**Nurse:** Yes. Yes. We do tell each other that. Yes, I did say it to my colleagues, and to the doctor as well, that he wanted, that those words had been said and that that... Well it's heartbreaking, isn't it, because, well, somehow you know he's right but, you still do it, don't you.

Researcher: Yes. And how did the doctors react to this?

Nurse: It wasn't easy. Because the doctor also had real difficulty with it, to take the decision to let him go. Yes. I think, well, at times like that, still not being able to admit it and saying anyway "We're going to keep

going".

[Interview Nurse Vanessa]

NO	Item	Guide questions
Dom	ain 1: Research team a	and reflexivity
Perso	onal characteristics	
1	Interviewer/facilitator	Which author/s cond interview or focus gr
2	Credentials	What were the researcredentials? <i>E.g. Ph</i>
3	Occupation	What was their occu time of the study?
4	Gender	Was the researcher
5	Experience and training	What experience or
		researcher have?
Relatio	onship with participants	
6	Relationship established	Was a relationship e to study commencer
7	Participant knowledge of the interviewer	What did the particip the researcher? e.g. reasons for doing the

# dies (COREQ): 32-item

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Answer (including page number where the item can be

RVK conducted the entire data collection (including interviews ): see p. 7 line

The researcher is MSc in

and cultural anthropology. She is extensively trained in qualitative research.

Researcher's credentials

were added in the revised

manuscript: see p. 7, line

The researcher was doing academic scientific research at university as

anthropologist: see p. 7,

The researcher is female. In the section 'data

collection' we refer to the researcher with 'she', e.g.

The researcher is trained in

research techniques, which

is added in the revised manuscript. See p. 7, line

No relationship was

established with the

research participants prior

revised manuscript: see p.

Participants were aware of

the researcher's reason for

communication in the ICU). This was mentioned by the researcher verbally and written in the forms on

to study commencement.

This was added in the

6, line 128-129

doing the research (improving intercultural

sociology and MSc in social

found)

163-165.

163-165

sociologist and

see p. 7, line 156

sociology and anthropology. She is extensively trained in quantitative and qualitative

163-165

line 163-165

			informed consent which the study participants had to sign. This information was added in the revised manuscript: See p. 6, line 141-142
8	Interviewer characteristics	What characteristics were reported about the interviewer/facilitator? e.g. <i>Bias, assumptions, reasons and</i> <i>interests in the research topic</i>	See 7
Domain	2: study design		
		What methodological orientation was	Grounded theory was used
Destision	orientation and Theory	stated to underpin the study? e.g. grounded theory, discourse analysis, ethnography, phenomenology, content analysis	See p. 7, line 170
Participa			The nexticipents (nexticute
10	Sampling	purposive, convenience, consecutive, snowball	and families) were selected purposefully. See p. 6, line 129-132
11	Method of approach	How were participants approached? e.g. face-to-face, telephone, mail, email	Participants were approached face-to-face. This was added to the revised manuscript: See p. 6, line 129-130
12	Sample size	How many participants were in the study?	Our sample consisted of staff members (nurses and doctors), patients and their relatives. In total 144 participants were included in the study (observations and interviews). See p. 6, line 132-133 and line 138- 139.
13	Non-participation	How many people refused to participate or dropped out? Reasons?	No patients and relatives refused to participate. 8 healthcare professionals refused to participate because they were not interested in the study topic. This was added to the revised manuscript, p. 6, line 133-134 and line 139.
Setting 14	Setting of data collection	Where was the data collected? e.g. home, clinic, workplace	The data was collected in the clinic (ICU). See p. 6, line 124-125
15	Presence of non- participants	Was anyone else present besides the participants and researchers?	As common in ethnographic studies sometimes also non- participants were present during the data collection, e.g. doctors who mostly work in other wards, relatives of patients who were not included in the study. This was added in

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			the revised manuscript: See p. 6, line 139-140
16	Description of sample	What are the important characteristics of the sample? <i>e.g.</i> <i>demographic data, date</i>	Following important characteristics of the sample has been mentioned: ethno-cultural background (p. 6, line 131- 132 and line 137-138), age (see p. 6, line 133), gender (see p. 6, line 133-134), medical condition (see p. 6, line 134-137). See also our included table on patients' characteristics.
17		Were questions prompts quides	Interview questions were
		provided by the authors? Was it pilot tested?	based on an interview guide, which was discussed among experts before the actual data collection started and pilot tested among a limited number of persons. This was added in the revised manuscript (see p. 7, line 160-162)
18	Repeat interviews	Were repeat interviews carried out? If	We don't know what is meant with the word repeat
		yes, now many:	interviews.
19	Audio/visual recording	Did the research use audio or visual recording to collect the data?	The researcher used audio recording to collect the data (Interviews were audio recorded). This was added in the revised manuscript. See p. 7, line 162.
20	Field notes	Were field notes made during and/or after the interview or focus group?	Fieldnotes were made in 2 stages: firstly, in the field during the data collection (by making short notes in a logbook during observations and after interviews); secondly, after the researcher had left the field (by transforming the short notes in longer comprehensive descriptive field notes): see p. 7, line 156-159
21	Duration	What was the duration of the interviews or focus group?	The interviews lasted between 50 minutes and 1h30. See p. 7, line 162
22	Data saturation	Was data saturation discussed?	Data saturation was referred to. See p. 8, line 180
23	Transcripts returned	Were transcripts returned to participants for comment and/or correction?	No. This was added to the revised manuscript (see p. 7, line 163)
Domain	3: analysis and findings		
24	Number of data coders	How many data coders coded the	3 researchers were
27		data?	involved in the coding of

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			the data (RVK, RD, JB). See p. 8, line 180-182.
25	Description of the coding tree	Did authors provide a description of the coding tree?	The coding tree is described. See p. 7-8, line 170-179
26	Derivation of themes	Were themes identified in advance or derived from the data?	The themes were derived from the data. See p.7-8, line 170-179
27	Software	What software, if applicable, was used to manage the data?	NVIVO 8 (QSR International, 2008) was used to manage the data. See p. 7, line 170-171.
28	Participant checking	Did participants provide feedback on the findings?	Participant provided feedback on the findings. See p. 8 line 184-187.
Reportin	g		
29	Quotations presented	Were participant quotations presented to illustrate the themes / findings? Was each quotation identified? e.g. participant number	In the appendix transcripts from fieldnotes and interviews are presented to illustrate the themes/findings. Each transcript was identified by stating the name of the case to which it belongs (fieldnotes) or by referring to the name of the interviewee (interviews). All names are pseudonyms. See appendix.
30	Data and findings consistent	Was there consistency between the data presented and the findings?	There was consistency between the data presented (see transcripts in the appendix) and the findings in the manuscript. This consistency is reflected in the title of each transcript which accords with the presented findings.
31	Clarity of major themes	Were major themes clearly presented in the findings?	Major themes are clearly presented in the results section. Each subtitle in the results sections refers to one of the 5 major themes.
32	Clarity of minor themes	Is there a description of diverse cases or discussion of minor themes?	No