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Patient safety in primary care: where next for research and practice? A James Lind Alliance Priority Setting Partnership

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Title: Patient safety in primary care: where next for research and practice? A James Lind Alliance Priority Setting Partnership

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Abstract

Objectives: to identify the top 10 unanswered research questions for primary care patient safety research.

Design: a modified nominal group technique.

Setting: UK

Participants: Anyone with experience of primary care including: patients, carers and healthcare professionals. 341 patients and 86 healthcare professionals submitted questions.

Main outcomes: A top 10, and top 30, future research questions for primary care patient safety

Results: 443 research questions were submitted by 341 patients and 86 healthcare professionals, through a national survey. After checking for relevance and rephrasing, a total of 173 questions were collated into themes. The themes were largely focused on communication, team and system working, interfaces across primary and secondary care, medication, self-management support and technology. The questions were then prioritised through a national survey, the top 30 questions were taken forward to the final prioritisation workshop. The top 10 research questions focused on the most vulnerable in society, holistic whole-person care, safer communication and co-ordination between care providers, work intensity, continuity of care, suicide risk, complex care at home, and confidentiality.

Conclusions: This study was the first national prioritisation exercise to identify patient and health care professional priorities for primary care patient safety research. The research priorities identified a range of important gaps in the existing evidence to inform everyday practice to address primary care patient safety.

Key words: patient safety; primary care; James Lind Alliance; pharmacy; general practice

Strengths and limitations of this study

This is the first national research prioritisation exercise to identify primary care patient safety research priorities.

- The study adheres to the James Lind Alliance process and principles of being patient- and health care professional-centric.
- The top 10 research uncertainties for primary care patient safety research were identified in the process.
- While the process identifies the top 10, and top 30, research priorities for future research it is not guaranteed that this will be funded.
- The process identified new areas of research focus as well as understanding how existing clinical concepts might be understood from a patient safety perspective.

INTRODUCTION

Patient safety in healthcare is a policy priority at international, national, regional and local levels and is important to, and the responsibility of, everyone. Globally the majority of patient contacts with healthcare occur out of hospitals in primary care, family medicine and transitional settings between providers, yet patient safety research has been done mostly in hospital settings [1]. Patient safety can be defined as "the avoidance, prevention, and amelioration of adverse outcomes or injuries stemming from the processes of healthcare" [2]. The knowledge base to inform safer care and clinical decision making needs to be expanded to address questions that are needed in everyday clinical practice and potential strategies for system-wide improvement of care safety need to be prioritised [3]. Primary care includes a number of healthcare areas including general practice, community pharmacies, dentistry, high street optometrists and others working in community settings. The nature of much of the clinical work in primary care centres on treatment uncertainties, which are often complex and not necessarily acute in nature, and co-ordination across services, which poses many challenges to patient safety [4,5].

Clinical research aims to improve the evidence upon which decisions are made about prevention, treatment, care, management and cure whilst avoiding a waste of research resources [6]. In the last ten years there has been a growth in primary care patient safety research [1], which has focused mostly on medication safety and errors. As there is limited time and resources available for research it is important that priority is given to areas of patient and healthcare professional priority to address issues that affect everyday practice [7]. There is an increasing recognition of the role of

patients and healthcare professionals in co-setting the research agenda and the research community has been challenged to prioritise and fund research questions that are of relevance to a diverse range of stakeholders, including patients and healthcare professionals [8]. The James Lind Alliance (JLA) priority setting partnership (PSP) approach works with patients, carers and healthcare professionals to identify the priorities that are most important for research to address [9]. There have been over 60 JLA PSPs investigating a range of treatment uncertainties, which focus on discrete clinical topics such as asthma, endometrial cancer, schizophrenia and vitiligo [10-13]. This approach addresses the possible divergence between clinical research and patient priorities, which brings about the largest improvements in our knowledge of disease and service delivery [8].

Involving a wider set of stakeholders in prioritising research questions may identify key areas that have not been prioritised previously by funding bodies [10]. In the UK, the Department of Health funds health and care research through the National Institute for Health Research (NIHR) [14]. The NIHR aims to improve health through research and supports the active involvement of the public to achieve this aim. The JLA is overseen by the NIHR to support the research priorities identified through the partnerships so that they can feed directly in to national funding priorities [14, 15]. The Primary Care Patient Safety PSP pushed the boundaries of the JLA process by looking at unanswered questions in the diverse area of primary care, as opposed to a single clinical topic [4, 16]. The aim of the Primary Care Patient Safety PSP was to identify unanswered research questions in the field of primary care patient safety research and to identify the top research priorities for primary care patient safety from patients, carers, and primary care healthcare professionals.

METHOD

This study followed the JLA methodology [9]. This project was led and funded by the NIHR Greater Manchester Primary Care Patient Safety Translational Research Centre (Greater Manchester PSTRC) which is a partnership between Salford Royal National Health Service (NHS) Foundation Trust and The University of Manchester working with clinical and patient partner organisations. Partner organisations included representatives from the Royal College of General Practitioners, Royal College of Nursing, British Dental Association, Healthwatch Manchester, Carers UK, The Patients Association, Pharmacy Voice, NHS Salford Clinical Commissioning Group, Royal Pharmaceutical Society, and the Lesbian, Gay, Bisexual and Trans (LGBT) Foundation. The JLA provided an independent chair, advised on methodology and facilitated the final prioritisation setting workshop [9].

The University of Manchester Research Ethics Committee approved the study (REC reference: 16141)

Stage 1: Initiation

The first stage involved identifying potential partner organisations to be members of the steering group to direct the project as well as having access to a wide range of potential participants to submit questions and reflected the diversity of people who work and/or use primary care services. The steering group was responsible for from agreeing the initial focus, publicising the PSP, overseeing and collating the priorities as well as taking the final priorities to research funders [9]. Anyone living in the UK who uses primary care services, carers, or who are healthcare professionals in primary care were eligible to participate in the identification and prioritisation of uncertainties. Non-clinical researchers and employees of pharmaceutical or medical devices companies were excluded from the survey [9]. A website was created

(<u>http://research.bmh.manchester.ac.uk/PatientSafetyPSP</u>) to advertise the partnership and the online survey.

Stage 2: Gathering 'uncertainties'

The first consultation was conducted via an electronic questionnaire with paper copies available on request. Participants were asked "What are your questions about primary care (general practice, pharmacy, dentistry) patient safety?" and a short demographic survey available through the PSP website (the full survey is available as online supplementary material). The questionnaire was open from 1st June to 13th July, 2016. Participants were recruited via a range of convenience sampling in line with the aim of the JLA approach which promotes that the process is as inclusive as possible of patient and healthcare professional views [9]. The steering group members and the Greater Manchester PSTRC promoted the survey through a range of newsletters to members, social media, and through professional and patient networks.

Stage 3: Analysis and verification of uncertainties

The submitted questions were grouped into key themes. Questions were then analysed to identify duplicates and indicative questions were created when there were multiple questions submitted

that asked similar questions. Duplicate questions, comments or questions outside the scope of the PSP were removed. RM led the identification of the indicative questions with initial discussion with SC and JS. The steering group then reviewed the indicative questions, and questions identified as duplicate or out of scope which had been removed, alongside the initial submitted questions to confirm the final question set maintained the intent of the initial submitted questions. Every question was then searched against the existing literature. The literature was searched by an independent group of health information specialists led by SG and JW from Trust library service, Manchester University NHS Foundation Trust used a pre-defined systematic criteria. Analysis of the search results was completed by RM and RA. A question was considered to have met the certainty criteria if a recent (within 5 years) systematic review concluded that there was sufficient evidence to answer the question [11,17].

Stage 4: interim prioritisation

The steering group ranked the questions via an online survey where questions were presented to each member in a random order to reduce bias. The top 60 questions were then taken to a second national survey. The second survey was open from 13th January to 24th January, 2017. Patients, carers and healthcare providers were invited to rank the importance of each of the questions for primary care patient safety research from 'very important' to 'very unimportant.' To reduce bias questions were presented in a random order to each participant.

Stage 5: Final Prioritisation workshop

The top 30 questions ranked as the most important were taken forward to a final prioritisation workshop which was a face-to-face consensus meeting held on the 16th March, 2017. Steering group members, volunteers from partner organisations, patients and carers were recruited through networks to take part in the final workshop. Attendees were divided into 3 equal sized groups with a mix of healthcare professionals, patients and carers. The groups were asked to rank the questions through guided discussion facilitated by three independent JLA advisors. The rankings were then collated and the groups mixed and then ranked the questions a second time. The aggregate ranking from the small group exercise was then taken forward to a whole group discussion where the final order of question priority was agreed. The final top ten most important unanswered questions in primary care patient safety were agreed by the full group (Figure 1).

Patient Involvement

Patients were involved in the study as members of the steering group as representatives of patient groups. Patient steering group members, along with other steering group members, directed the study, develop and agree the scope of the PSP, recruitment of patients as representatives of patient groups, reviewing and agreeing indicative questions, ranking of questions and in all stages of the prioritisation and dissemination processes through advertising the survey and its results to their networks.

RESULTS

Question gathering

448 participants answered all or part of the initial national free text survey with 237 people submitting 443 questions (see Figure 1). 341 questions were submitted by patients or carers (Table 1). The initial survey yielded 9124 views. 182 submissions either did not include a question or stated that they did not have a question about primary care patient safety (n=144) or did not understand the question (n=38). From the remaining 270 submissions, 443 individual research questions were identified.

Table 1: Participant demographics

Table 1: Participant demogra	phics First survey	Second survey	2
Patient or carer	341	373	
Healthcare professional	86	51	
Preferred not to say	3	1	
Other	3	19	
Left blank	5	3	
Age			
16 to 24 years	4	5	
25 to 34 years	25	43	
35 to 44 years	38	45	

45 to 54 years	62	86	
55 to 64 years	87	117	
65 to 74 years	75	115	
75 and over	20 1	30 3	
Prefer not to say		-	
Left blank	6	3	
Ethnicity			
Arab	1	1	
Asian or Asian British: Indian	7	5	
Asian or Asian British: Chinese	3	0	
Asian or Asian British: Other	1	1	
Asian or Asian British: Pakistani	2	3	
Black or Black British: Caribbean	4	1	
Black or Black British: African	2	0	
Black or Black British: Other	1	0	
Prefer not to say	7	8	
Scottish	0	1	
White	411	412	
White English	0	1	
White and Asian	1	3	
White and Black African	1	2	
White and Black Caribbean	1	2	
White and North African	0	1	
White British	0	1	
Other	2	0	
Missing Gender	2	5	
Female	225	237	
Male	218	202	
In another way	1	0	
Prefer not to say	0	5	
Left blank	4	3	
Gender same as at birth			
No	3	1	

Yes	427	434
Prefer not to say	0	5
Left blank	7	7
Did not understand the question	1	0

Analysis and verification of uncertainties

46 questions were excluded as outside of the scope of the PSP; for example a request for research in stem cell research. The remaining 397 questions were then grouped into themes. The key themes identified were medication (n=50), diabetes care (n=46), access (n=32), education and training (n=29), communication (n=28), patient records (n=14), workforce and capacity (n=13), continuity of care (n=10), governance (n=9), multimorbidity (n=7), foot care (n=7), reception (n=6), harm (n=6), out of hours care (n=6), patient awareness of patient safety (n=6), hygiene (n=6) (for all topic themes see table 2).

Table 2: Topic themes of submitted questions

Topic theme	Number of questions submitted
Medication	50
Diabetes care	46
Access	32
Education and training	29
Communication	28
Patient records	14
Workforce and capacity	13
Continuity of care	10
Governance	9
Multimorbidity	7
Foot care	7
Reception	6
Harm	6
Out of hours care	6
Patient awareness of patient safety	6
Hygiene	6
Interface	5
Blood tests	5
Diagnosis	5
Treatment	5
NICE guidance	4
Dispensing	4
Appointment time	3

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Disability	3
Information	3
Long term condition management	3
Pain	3
Risk assessment	3
Multidisciplinary teams	2
Holistic views of patients	2
Understanding patient safety	2
Implementation of research or guidelines	2
Co-ordination of care	2
Confidentiality	2
Cost of safety	2
Intervention development	2
Knowledge	2
Mental health	2
Annual follow-up	2
Patient experience	2
Medical errors	2
Identifying people at risk of suicide	1
Care Quality Commission	1
Definition of patient safety	1
Dementia	1
Diet	1
NHS changes	1
Dental infection	1
Condition awareness	1
Consultation	1
Contextual approaches to safety	1
Errors	
Geographical differences	1
Health and social care development	1
Impact of patient safety awareness	1
	1
Integrated approach to safety	1
Locum doctors	1
Minor injuries Models of care	1
	1
Obesity	
Patient engagement with healthcare Palliative care	1
Patient role in safety	1
Physical safety	1
Polypharmacy	1
Population versus personalised care	1
Patient and public involvement	1
Prescription	1
Prevention of issues	1
Priorities	1
Quality improvement	1
Referrals	1
Regional care	1



Resources	1
Review appointments	1
Safety boundaries	1
Safety causing other issues	1
Safer care at home	1
Service changes	1
Technology	1
Test results	1
Transferability of patient safety initiatives	1
Violent patient management	1
Yellow Card scheme	1

Questions focused on primary care broadly (n=240), General Practice (n=95), patient level selfmanagement (n=30), pharmacy (n=14), out of hours care (n=6), patient and public involvement in research (n=2), and physiotherapy (n=1).

Indicative questions were created from duplicate entries and narrative submissions so that they kept the original meaning of the submission, leaving 216 questions to be verified against the existing literature evidence. All indicative questions were agreed by the steering group. In total, 173 questions were considered unanswered by research.

Interim prioritisation

The 60 most important unanswered research questions were then prioritised by a second national online survey completed by 447 people, including 374 patients or carers. The top 30 questions that were ranked as most important were taken forwards to the final consensus meeting (see table 3 for ranking by patients and healthcare professionals).

Table 3: Ranking of Top 30 questions (final and pre-workshop)

	Final rank post workshop	Overall rank (pre final	Rank pre workshop (by patients	Rank pre workshop by healthcare
Question		workshop)	or carers)	professionals
How can patient safety be assured for the most vulnerable in society (e.g. people who are frail, have mental health problems or cognitive				
impairments)?	1	3	3	5

How can we make sure that the whole patient				
is treated, not just one condition and with				
mental health and physical health both being				
treated together?	2	1	1	2
How can we improve safe communication and				
co-ordination of care between primary and				
secondary care?	3	10	15	
In what ways does work intensity, hours	4			
worked & staffing levels affect patient				
safety/near misses?		7	9	
How does continuity of care influence patient				
safety?	5	11	11	2
How well do patients understand the				
information that has been conveyed to them				
during the consultation?	6	9	8	
What can primary care do to identify and				
support people who may be at risk of suicide?	7	5	6	
Which type of practitioner (GP, advanced nurse			<u> </u>	
practitioner, practice nurse) is safest to see				
which types of patients (acute illnesses, acute				
on chronic multi-morbid)?	8	22	21	2
How can information within patient medical	0			
records be made available to patients and care				
providers in a way that protects privacy and				
improves safety and quality of care?	9	30	30	1
How can risks be mitigated to allow for safe		50	50	
complex care at home?	10	29	29	2
Are difficulties in contacting doctors and/or	10	25	23	
making appointments associated with more				
delays or errors in diagnosis or other failures of				
care?	11	15	13	2
How many patients actually know what		10	10	
medication they are taking, what for and what				
the potential side effects are?	12	20	25	1
What can be done to improve access to GP		20	23	
surgery for someone with mental health				
problems?	13	8	7	1
How can communication between healthcare	15		,	1
professionals be improved for people with				
multiple long term conditions?	14	2	2	
How safe is treatment in out of hours care if	11	£	2	
patient notes are not available?	15	4	5	
What do patients understand about when they	15	_		
should or shouldn't contact a GP and who they				
should see instead?	16	25	27	2
How can we encourage patients and clinicians	10	25	27	2
to be more open about patient safety incidents				
within a culture of learning rather than blame?	17	28	32	1
What steps can be taken to improve patient	1/	20	52	
safety in out of hours care?	18	12	12	1
•	10			
What is the role of the receptionist in patient		26	24	42

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safety i.e. facilitating access to urgent				
appointments?	19			
How well trained are receptionists as acting as				
gatekeepers to GPs and prioritising patients?	20	24	22	
How can GP practices appointment systems				
(e.g. telephone, online) be improved?	21	13	10	
What types of prescribing errors are occurring				
in GP prescribing practice and how often are				
they occurring?	22	27	31	
How do GPs inform their patients of the side				
effects and potential risks when prescribing a				
new medication?	23	21	19	
How are medical errors in primary care				
prevented and recorded?	24	18	20	
Do GP practices keep patient records up to				
date to ensure safety when a patient is seen by				
a different GP?	25	6	4	
Why is there such a time lag between seeing				
the hospital consultant and the GP getting				
information about a medication change?	26	16	17	
How frequent are the misdiagnosis of				
symptoms by GPs resulting in patient safety	27			
incidents?		14	14	
Do GPs and other healthcare professionals				
record patients who are vulnerable/at risk in	$\mathbf{\hat{\mathbf{n}}}$			
the patient notes?	28	17	16	
Does seeing a named GP who knows an				
individual have safer care than seeing a GP				
who doesn't know me?	29	19	18	
Do the actions of receptionists have potential				
ramifications for patient safety?	30	23	23	

Final prioritisation

A mixed group of 22 stakeholders discussed and ranked the final 30 questions at a final face-to-face meeting (13 patients or carers, 3 GPs, 5 pharmacists and 1 nurse). The discussions were facilitated by independent JLA facilitators [9]. The top 10 questions were agreed by all stakeholders as the most important unanswered questions (see table 4).

Table 4: Top 10 research priorities

	How can patient safety be assured for the most vulnerable in society (e.g. people who	
1	are frail, have mental health problems or cognitive impairments)?	

ĺ	How can we make sure that the whole patient is treated, not just one condition and
2	with mental health and physical health both being treated together?
	How can we improve safe communication and co-ordination of care between primary
3	and secondary care?
	In what ways does work intensity, hours worked and staffing levels affect patient
4	safety/near misses?
5	How does continuity of care influence patient safety?
	How well do patients understand the information that has been conveyed to them
6	during the consultation?
	What can primary care do to identify and support people who may be at risk of
7	suicide?
	Which type of practitioner (GP, advanced nurse practitioner, practice nurse) is safest to
8	see which types of patients (acute illnesses, acute or chronic multi-morbid)?
	How can information within patient medical records be made available to patients and
9	care providers in a way that protects privacy and improves safety and quality of care?
10	How can risks be mitigated to allow for safe complex care at home?
DISCUSS	ION

DISCUSSION

This study has identified the limited evidence available currently to address some key questions and priorities about patient safety in primary care. Of 270 questions submitted, 173 unique questions were identified for prioritisation. The top 10 research priorities (see table 4) included how patient safety can be assured for the most vulnerable in society, taking holistic approaches to care, transitions and communication of care between primary and secondary care, staffing issues, continuity of care, communication between patients and care providers, identifying and support people at risk of suicide, the appropriateness of different practitioners for different types of clinical work, accessing patient medical records and safe care at home. The questions incorporated understanding existing concepts and challenges (e.g. continuity of care, holistic care and communication) with emerging issues and widening the focus of patient safety priorities (e.g. safer care at home or patients accessing their medical records) [18-21]. These results will be used by funders and researchers to identify future research priorities that are most relevance to patients and

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healthcare professionals in an attempt to address this lack of evidence to support patient and healthcare professional everyday questions about patient safety in primary care and research activity.

The limited evidence to support patients and healthcare professionals to inform primary care service design and delivery is important given the growing priority of patient safety both nationally and internationally [22]. Whilst the focus of this PSP was within the UK, the top 10 uncertainties reflect many universal commonalities addressing patient safety in care delivery and management (such as staffing issues, communications, and transitions between care settings) that are of relevance internationally and for which there are limited tools or strategies to measure, monitor and improve patient safety; for example, diagnostics and transitions of care [1]. The fact that the number one priority was about understanding patient safety for the most vulnerable in society is particularly relevant given that this includes people where there has traditionally received less research focus [23]. Furthermore, the recognition of treating the patient as a whole person, rather than focusing on individual conditions, is of particular relevance given that many of the guidelines and support available has focused on individual conditions (for example, in the UK the National Institute for Health and Care Excellence [24]) and do not address the everyday decisions and prioritisations that patients and healthcare professionals must make when faced with multiple conditions and treatment options [25,26].

Communication and care co-ordination was a focus of many questions that were submitted, despite the fact that there is a large body of research in these areas and these issues. In addition, a focus on holistic care is not a new priority with personal and holistic care having been advocated for many years [27], suggesting that in an ever more complex and digital era of medicine, personal care remains of importance. It suggests also that there remains a gap between rhetoric and reality [28]. It is still not understood clearly how these issues are conceptualised and understood from a patient safety perspective; for example, continuity of care [29]. This suggests that there remain unanswered questions about how to implement research into practice and potentially the impact, or awareness, of research to inform policy, commissioning and clinical practice [8, 22, 30]. Whilst research exists in part to address some of these questions [31], there remains an imbalance of research evidence across primary care professions that responds to the context in which decisions are being made by

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different professionals (e.g. dentists, pharmacists, practice nurses) and a lack of strong evidence, improvement studies or replication studies to support these decisions [32].

Strengths and limitations of the study

This was a large national prioritisation exercise with 341 patients and/or carers, and 94 healthcare professionals submitting questions and the priorities identified unanswered question which are of relevance across the UK. The imbalance of submissions between patients and healthcare professional was noticeable given the targeted approach by representatives of primary healthcare professional groups and professional networks. Adverts were sent to members of various organisations including patient support groups, members of professional organisations as well as through Twitter and other non-specific targeted adverts. Although this process is unlikely to be representative given that certain groups maybe more active and more likely to submit questions, this is mitigated by the process of creating indicative questions for similar submissions and the prioritisation exercises meaning that the final top 10 questions were from the full range of submissions reflecting patient and health care professional priorities. The breadth of different key stakeholders throughout the process was a strength, which ensured the credibility and relevance of the top 10 throughout the process [11, 33, 34]. However, the JLA procedure excludes non-clinical researchers, whilst including clinical researchers [9], assumes healthcare professional researchers are able to remove their research bias whereas non-clinical researchers (who may be users of primary care services as either patients or carers) are not. One potential limitation of this process is the breadth of questions that were submitted, as primary care is a broad and diverse service area and some questions suggested large programmes of research (for example: "At what level can patient safety interventions in primary care be applied, e.g. nationally, regionally, clinical commissioning groups, practice cluster, practice, individual clinician, patient?"). These questions were deliberately kept broad in order to ensure that questions kept the original intent of the submitted question in align with the JLA process. Rephrasing and indicative question were checked by the steering group to ensure that the original intent of the questions were maintained but it was difficult in some circumstances to be able to focus the question to fit within a searchable criteria. The questions are generally broad, potential programmes of work which reflects the broad nature of the question focusing on a core component of service delivery rather than a specific disease focus. In these instances, we were as open and inclusive in the literature searching and reviewing as possible. Another strength of this approach was that the areas of priority from the initial open survey were reflected in the top 10 final priorities: communication, team and system working,

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interfaces across primary and secondary care, medication, self-management support and technology. One limitation of this study is that the majority of patients who completed the first survey were white (92%) and over 55 (58%) despite broad promotional activities. A consultation process like this will be more likely to reach people who were more engaged with research and this is a similar critique to the evaluations of other patient and public involvement activities who were more likely to involve white, older people [23]. Engaging with black and minority ethnic groups across a range of ages is an important component of future work.

Future work

This project will inform the development of future research priorities and funding applications. It is important that research in primary care patient safety prioritises questions that address practical issues to support care delivery and use. Future research could focus on understanding the priorities for particular communities, such as black and minority ethnic groups, who have often not participated in traditional research and patient and public involvement.

Conclusions

The top 10 primary care patient safety research priorities were generated using an established transparent and systematic approach. The research priorities covered a range of areas of priority for patients, carers and healthcare professionals; how patient safety can be assured for the most vulnerable in society, taking holistic approaches to care, transitions and communication of care between primary and secondary care, staffing issues, continuity of care, communication between patients and care providers, identifying and support people at risk of suicide, the appropriateness of different practitioners for different types of clinical work, accessing patient medical records and safe care at home. These findings will be used to address these issues to set the research agenda to support patients, carers and healthcare professionals and to maximise the utility and impact of patient safety research in primary care.

What is already known on this topic

Patient safety in healthcare is an international priority for research and practice but despite the majority of patient contacts occurring in primary care the majority of research to inform practice has occurred in secondary care.

What this study adds

The top priorities for primary care patient safety research for healthcare professionals and patients focused on the most vulnerable in society, holistic whole-person care, safer communication and coordination between care providers, work intensity and continuity of care.

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We have read and understood BMJ policy on declaration of interests and declare that we have no competing interests

Details of author contributions

SC and ST designed the study and convened the steering group. RM led the study, carried out data collection, analysis, and interpretation of data. CR was responsible for promoting the surveys and coordinating members of the steering group. RA and JS were involved in the data collection and interpretation. SG and JW led the literature searching. RM drafted the initial manuscript and all authors have been involved in revising the manuscript and have given final approval of the version to be published. RM is the guarantor.

All authors, external and internal, had full access to all of the data (including statistical reports and tables) in the study and can take responsibility for the integrity of the data and the accuracy of the data analysis.

Identifiable patient information

No identifiable patient information has been included in the manuscript.

Data sharing statement

Data sharing: no additional data available

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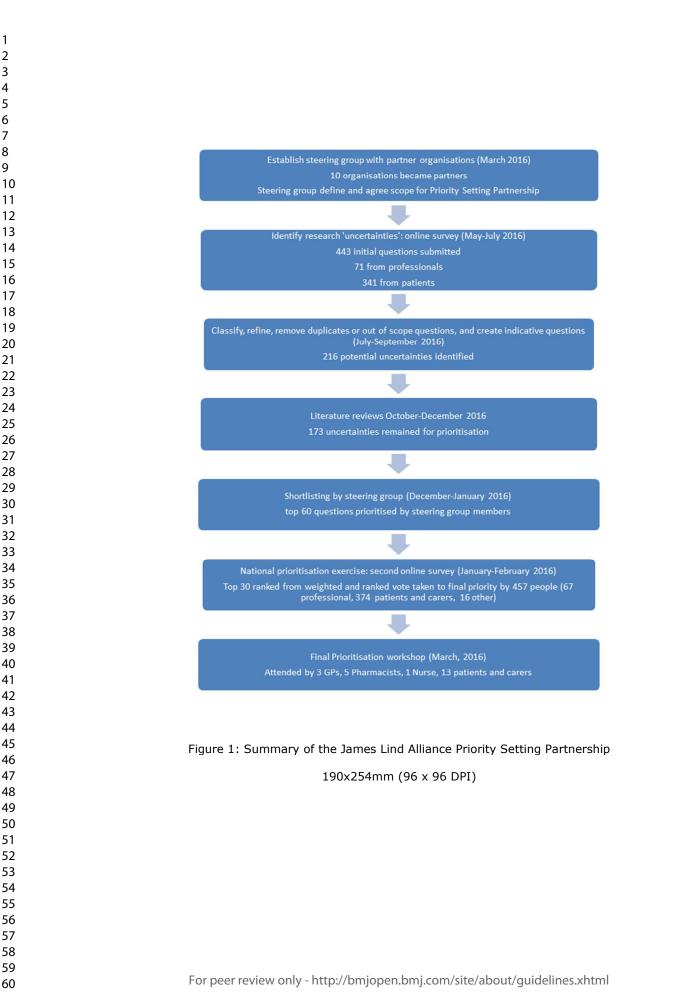
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FIGURE LEGEND

Figure 1: Summary of the James Lind Alliance Priority Setting Partnership

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Patient safety in primary care: where next for research and practice? A James Lind Alliance Priority Setting Partnership

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Title: Patient safety in primary care: where next for research and practice? A James Lind Alliance Priority Setting Partnership

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Abstract

Objectives: to identify the top 10 unanswered research questions for primary care patient safety research.

Design: a modified nominal group technique.

Setting: UK

Participants: Anyone with experience of primary care including: patients, carers and healthcare professionals. 341 patients and 86 healthcare professionals submitted questions.

Main outcomes: A top 10, and top 30, future research questions for primary care patient safety

Results: 443 research questions were submitted by 341 patients and 86 healthcare professionals, through a national survey. After checking for relevance and rephrasing, a total of 173 questions were collated into themes. The themes were largely focused on communication, team and system working, interfaces across primary and secondary care, medication, self-management support and technology. The questions were then prioritised through a national survey, the top 30 questions were taken forward to the final prioritisation workshop. The top 10 research questions focused on the most vulnerable in society, holistic whole-person care, safer communication and co-ordination between care providers, work intensity, continuity of care, suicide risk, complex care at home, and confidentiality.

Conclusions: This study was the first national prioritisation exercise to identify patient and health care professional priorities for primary care patient safety research. The research priorities identified a range of important gaps in the existing evidence to inform everyday practice to address primary care patient safety.

Key words: patient safety; primary care; James Lind Alliance; pharmacy; general practice

Strengths and limitations of this study

- This is the first national research prioritisation exercise to identify primary care patient safety research priorities.
- The study adheres to the James Lind Alliance process and principles of being patient- and health care professional-centric.
- The top 10 research uncertainties for primary care patient safety research were identified in the process.
- While the process identifies the top 10, and top 30, research priorities for future research it is not guaranteed that this will be funded.
- The process identified new areas of research focus as well as understanding how existing clinical concepts might be understood from a patient safety perspective.

INTRODUCTION

Patient safety in healthcare is a policy priority at international, national, regional and local levels and is important to, and the responsibility of, everyone. Globally the majority of patient contacts with healthcare occur out of hospitals in primary care, family medicine and transitional settings between providers, yet patient safety research has been done mostly in hospital settings [1]. Patient safety can be defined as "the avoidance, prevention, and amelioration of adverse outcomes or injuries stemming from the processes of healthcare" [2]. The knowledge base to inform safer care and clinical decision making needs to be expanded to address questions that are needed in everyday clinical practice and potential strategies for system-wide improvement of care safety need to be prioritised [3]. Primary care includes a number of healthcare areas including general practice, community pharmacies, dentistry, high street optometrists and others working in community settings. The nature of much of the clinical work in primary care centres on treatment uncertainties, which are often complex and not necessarily acute in nature, and co-ordination across services, which poses many challenges to patient safety [4,5].

Clinical research aims to improve the evidence upon which decisions are made about prevention, treatment, care, management and cure whilst avoiding a waste of research resources [6]. In the last ten years there has been a growth in primary care patient safety research [1], which has focused mostly on medication safety and errors. As there is limited time and resources available for research

it is important that priority is given to areas of patient and healthcare professional priority to address issues that affect everyday practice [7]. There is an increasing recognition of the role of patients and healthcare professionals in co-setting the research agenda and the research community has been challenged to prioritise and fund research questions that are of relevance to a diverse range of stakeholders, including patients and healthcare professionals [8]. The James Lind Alliance (JLA) priority setting partnership (PSP) approach works with patients, carers and healthcare professionals to identify the priorities that are most important for research to address [9]. There have been over 60 JLA PSPs investigating a range of treatment uncertainties, which focus on discrete clinical topics such as asthma, endometrial cancer, schizophrenia and vitiligo [10-13]. This approach addresses the possible divergence between clinical research and patient priorities, which brings about the largest improvements in our knowledge of disease and service delivery [8].

Involving a wider set of stakeholders in prioritising research questions may identify key areas that have not been prioritised previously by funding bodies [10]. In the UK, the Department of Health funds health and care research through the National Institute for Health Research (NIHR) [14]. The NIHR aims to improve health through research and supports the active involvement of the public to achieve this aim. The JLA is overseen by the NIHR to support the research priorities identified through the partnerships so that they can feed directly in to national funding priorities [14, 15]. The Primary Care Patient Safety PSP pushed the boundaries of the JLA process by looking at unanswered questions in the diverse area of primary care, as opposed to a single clinical topic [4, 16]. The aim of the Primary Care Patient Safety PSP was to identify unanswered research questions in the field of primary care patient safety research and to identify the top research priorities for primary care patient safety from patients, carers, and primary care healthcare professionals.

METHOD

This study followed the JLA methodology [9]. This project was led and funded by the NIHR Greater Manchester Primary Care Patient Safety Translational Research Centre (Greater Manchester PSTRC) which is a partnership between Salford Royal National Health Service (NHS) Foundation Trust and The University of Manchester working with clinical and patient partner organisations. Partner organisations included representatives from the Royal College of General Practitioners, Royal College of Nursing, British Dental Association, Healthwatch Manchester, Carers UK, The Patients Association, Pharmacy Voice, NHS Salford Clinical Commissioning Group, Royal Pharmaceutical Society, and the

Lesbian, Gay, Bisexual and Trans (LGBT) Foundation. The JLA provided an independent chair, advised on methodology and facilitated the final prioritisation setting workshop [9].

The University of Manchester Research Ethics Committee approved the study (REC reference: 16141)

Stage 1: Initiation

Steering group set up

The first stage involved identifying potential partner organisations to be members of the steering group to direct the project as well as having access to a wide range of potential participants to submit questions and reflected the diversity of people who work and/or use primary care services. The steering group included representatives from the Royal College of Nursing; the British Dental Association; the Royal College of General Practitioners; Healthwatch Manchester; Carers UK; the Patients Association; Pharmacy Voice; National Health Service Salford Clinical Commissioning Group; Royal Pharmaceutical Society; and Lesbian, Gay, Bisexual and Trans Foundation The steering group was responsible for from agreeing the initial focus, publicising the PSP, overseeing and collating the priorities as well as taking the final priorities to research funders [9].

Project initiation and eligibility

Anyone living in the UK who uses primary care services, carers, or who are healthcare professionals in primary care were eligible to participate in the identification and prioritisation of uncertainties. Non-clinical researchers and employees of pharmaceutical or medical devices companies were excluded from the survey [9]. A website was created

(<u>http://research.bmh.manchester.ac.uk/PatientSafetyPSP</u>) to advertise the partnership and the online survey.

Stage 2: Gathering 'uncertainties'

The first consultation was conducted via an electronic questionnaire with paper copies available on request (online supplementary material 1). Participants were asked "What are your questions about primary care (general practice, pharmacy, dentistry) patient safety?" and a short demographic

survey available through the PSP website (the full survey is available as online supplementary material). The questionnaire was open from 1st June to 13th July, 2016. Participants were recruited via a range of convenience sampling in line with the aim of the JLA approach which promotes that the process is as inclusive as possible of patient and healthcare professional views [9]. The steering group members and the Greater Manchester PSTRC promoted the survey through a range of newsletters to members, social media, and through professional and patient networks.

Stage 3: Analysis and verification of uncertainties

The submitted questions were grouped into key themes. Questions were then analysed to identify duplicates and indicative questions were created when there were multiple questions submitted that asked similar questions. Duplicate questions, comments or questions outside the scope of the PSP were removed. RM led the identification of the indicative questions with initial discussion with SC and JS. The steering group then reviewed the indicative questions, and questions identified as duplicate or out of scope which had been removed, alongside the initial submitted questions. Every question was then searched against the existing literature. The literature was searched by an independent group of health information specialists led by SG and JW from Trust library service, Manchester University NHS Foundation Trust used a pre-defined systematic criteria. Analysis of the search results was completed by RM and RA. A question was considered to have met the certainty criteria if a recent (within 5 years) systematic review concluded that there was sufficient evidence to answer the question [11,17].

Stage 4: interim prioritisation

The steering group ranked the questions via an online survey where questions were presented to each member in a random order to reduce bias. The top 60 questions were then taken to a second national survey. The second survey was open from 13th January to 24th January, 2017. Patients, carers and healthcare providers were invited to rank the importance of each of the questions for primary care patient safety research from 'very important' to 'very unimportant.' To reduce bias questions were presented in a random order to each participant.

Stage 5: Final Prioritisation workshop

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The top 30 questions ranked as the most important were taken forward to a final prioritisation workshop which was a face-to-face consensus meeting held on the 16th March, 2017. Steering group members, volunteers from partner organisations, patients and carers were recruited through networks to take part in the final workshop. Attendees were divided into 3 equal sized groups with a mix of healthcare professionals, patients and carers. The groups were asked to rank the questions through guided discussion facilitated by three independent JLA advisors. The rankings were then collated and the groups mixed and then ranked the questions a second time. The aggregate ranking from the small group exercise was then taken forward to a whole group discussion where the final order of question priority was agreed. The final top ten most important unanswered questions in primary care patient safety were agreed by the full group (Figure 1).

Patient Involvement

Patients were involved in the study as members of the steering group as representatives of patient groups. Patient steering group members, along with other steering group members, directed the study, develop and agree the scope of the PSP, recruitment of patients as representatives of patient groups, reviewing and agreeing indicative questions, ranking of questions and in all stages of the prioritisation and dissemination processes through advertising the survey and its results to their networks.

RESULTS

Question gathering

448 participants answered all or part of the initial national free text survey with 237 people submitting 443 questions (see Figure 1). 341 questions were submitted by patients or carers (Table 1). The initial survey yielded 9124 views. 182 submissions either did not include a question or stated that they did not have a question about primary care patient safety (n=144) or did not understand the question (n=38). From the remaining 270 submissions, 443 individual research questions were identified.

Table 1: Participant demographics

Participant characteristic	First survey	Second survey
Patient or carer	341	373
Healthcare professional	86	51
Preferred not to say	3	1
Other	3	19
Left blank	5	3
Age		
16 to 24 years	4	5
25 to 34 years	25	43
35 to 44 years	38	45
45 to 54 years	62	86
55 to 64 years	87	117
65 to 74 years 🥢 🦯	75	115
75 and over	20	30
Prefer not to say	1	3
Left blank	6	3
Ethnicity		
Arab	1	1
Asian or Asian British: Indian	7	5
Asian or Asian British: Chinese	3	0
Asian or Asian British: Other	1	1
Asian or Asian British: Pakistani	2	3
Black or Black British:	4	9
Caribbean	2	1
Black or Black British: African		0
Black or Black British: Other	1	0
Prefer not to say	7	8
Scottish	0	1
White	411	412
White English	0	1
White and Asian	1	3
White and Black African	1	2
White and Black Caribbean	1	2
White and North African	0	1
White British	0	1
	2	

Missing	2	5
Gender		
Female	225	237
Male	218	202
In another way	1	0
Prefer not to say	0	5
Left blank	4	3
Gender same as at birth		
No	3	1
Yes	427	434
Prefer not to say	0	5
Left blank	7	7
Did not understand the question	1	0
Sexual orientation	N.	
Lesbian or Gay	13	Unknown
Bisexual	6	Unknown
Heterosexual	392	Unknown
Other	3	Unknown
Prefer not to say	15	Unknown
Left blank	19	Unknown

Analysis and verification of uncertainties

46 questions were excluded as outside of the scope of the PSP; for example a request for research in stem cell research. The remaining 397 questions were then grouped into themes. The key themes identified were medication (n=50), diabetes care (n=46), access (n=32), education and training (n=29), communication (n=28), patient records (n=14), workforce and capacity (n=13), continuity of care (n=10), governance (n=9), multimorbidity (n=7), foot care (n=7), reception (n=6), harm (n=6), out of hours care (n=6), patient awareness of patient safety (n=6), hygiene (n=6) (for all topic themes see table 2).

Table 2: Topic themes of submitted questions

Topic theme	Number of questions submitted
Medication	50
Diabetes care	46
Access	32
Education and training	29
Communication	28
Patient records	14
Workforce and capacity	13
Continuity of care	10
Governance	9
Multimorbidity	7
Foot care	7
Reception	6
Harm	6
Out of hours care	6
Patient awareness of patient safety	6
Hygiene	6
Interface	5
Blood tests	5
Diagnosis	5
Treatment	5
NICE guidance	4
Dispensing	4
Appointment time	3
Disability	3
Information	3
Long term condition management	3
Pain	3
Risk assessment	3
Multidisciplinary teams	2
Holistic views of patients	2
Understanding patient safety	2
Implementation of research or guidelines	2
Co-ordination of care	2
Confidentiality	2
Cost of safety	2
Intervention development	2
Knowledge	2
Mental health	2
Annual follow-up	2
Patient experience	2
Medical errors	2
Identifying people at risk of suicide	1
Care Quality Commission	1
Definition of patient safety	1
Dementia	1
Diet	1
NHS changes	1
Dental infection	1
Condition awareness	1

Consultation	1
Contextual approaches to safety	1
Errors	1
Geographical differences	1
Health and social care development	1
Impact of patient safety awareness	1
Integrated approach to safety	1
Locum doctors	1
Minor injuries	1
Models of care	1
Obesity	1
Patient engagement with healthcare	1
Palliative care	1
Patient role in safety	1
Physical safety	1
Polypharmacy	1
Population versus personalised care	1
Patient and public involvement	1
Prescription	1
Prevention of issues	1
Priorities	1
Quality improvement	1
Referrals	1
Regional care	1
Resources	1
Review appointments	1
Safety boundaries	1
Safety causing other issues	1
Safer care at home	1
Service changes	1
Technology	1
Test results	1
Transferability of patient safety initiatives	1
Violent patient management	1
Yellow Card scheme	1

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Questions focused on primary care broadly (n=240), General Practice (n=95), patient level selfmanagement (n=30), pharmacy (n=14), out of hours care (n=6), patient and public involvement in research (n=2), and physiotherapy (n=1).

Indicative questions were created from duplicate entries and narrative submissions so that they kept the original meaning of the submission, leaving 216 questions to be verified against the existing literature evidence. All indicative questions were agreed by the steering group. In total, 173 questions were considered unanswered by research.

Interim prioritisation

The 60 most important unanswered research questions were then prioritised by a second national online survey completed by 447 people, including 374 patients or carers (online supplementary material 2). The top 30 questions that were ranked as most important were taken forwards to the final consensus meeting (see table 3 for ranking by patients and healthcare professionals).

Table 3: Ranking of Top 30 questions (final and pre-workshop)

	Final rank		Rank pre	Rank pre
	post	Overall rank	workshop	workshop by
	workshop	(pre final	(by patients	healthcare
Question		workshop)	or carers)	professionals
How can patient safety be assured for the most				
vulnerable in society (e.g. people who are frail,				
have mental health problems or cognitive				
impairments)?	1	3	3	L ,
How can we make sure that the whole patient				
is treated, not just one condition and with				
mental health and physical health both being				
treated together?	2	1	1	2
How can we improve safe communication and				
co-ordination of care between primary and				
secondary care?	3	10	15	1
In what ways does work intensity, hours	4			
worked & staffing levels affect patient				
safety/near misses?		7	9	
How does continuity of care influence patient				
safety?	5	11	11	22
How well do patients understand the				
information that has been conveyed to them		_		
during the consultation?	6	9	8	e
What can primary care do to identify and				
support people who may be at risk of suicide?	7	5	6	8
Which type of practitioner (GP, advanced nurse				
practitioner, practice nurse) is safest to see				
which types of patients (acute illnesses, acute				
on chronic multi-morbid)?	8	22	21	29
How can information within patient medical				
records be made available to patients and care				
providers in a way that protects privacy and				
improves safety and quality of care?	9	30	30	19
How can risks be mitigated to allow for safe				
complex care at home?	10	29	29	20

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Are difficulties in contacting doctors and/or				
making appointments associated with more				
delays or errors in diagnosis or other failures of				
care?	11	15	13	2
How many patients actually know what				
medication they are taking, what for and what				
the potential side effects are?	12	20	25	1
What can be done to improve access to GP				
surgery for someone with mental health				
problems?	13	8	7	1
How can communication between healthcare				
professionals be improved for people with				
multiple long term conditions?	14	2	2	
How safe is treatment in out of hours care if				
patient notes are not available?	15	4	5	
What do patients understand about when they				
should or shouldn't contact a GP and who they				
should see instead?	16	25	27	2
How can we encourage patients and clinicians				
to be more open about patient safety incidents				
within a culture of learning rather than blame?	17	28	32	-
What steps can be taken to improve patient				
safety in out of hours care?	18	12	12	-
What is the role of the receptionist in patient				
safety i.e. facilitating access to urgent				
appointments?	19	26	24	4
How well trained are receptionists as acting as				
gatekeepers to GPs and prioritising patients?	20	24	22	3
How can GP practices appointment systems				
(e.g. telephone, online) be improved?	21	13	10	4
What types of prescribing errors are occurring				
in GP prescribing practice and how often are				
they occurring?	22	27	31	
How do GPs inform their patients of the side				
effects and potential risks when prescribing a				
new medication?	23	21	19	
How are medical errors in primary care				
prevented and recorded?	24	18	20	
Do GP practices keep patient records up to				
date to ensure safety when a patient is seen by				
a different GP?	25	6	4	
Why is there such a time lag between seeing				4
the hospital consultant and the GP getting				
information about a medication change?	26	16	17	
How frequent are the misdiagnosis of	20	10	17	4
symptoms by GPs resulting in patient safety	27			
incidents?	21	14	14	
Do GPs and other healthcare professionals			<u></u>	4
record patients who are vulnerable/at risk in				
the patient notes?	28	17	16	3
-	20			
Does seeing a named GP who knows an		19	18	4

individual have safer care than seeing a GP				
who doesn't know me?	29			
Do the actions of receptionists have potential				
ramifications for patient safety?	30	23	23	28

Final prioritisation

A mixed group of 22 stakeholders discussed and ranked the final 30 questions at a final face-to-face meeting (13 patients or carers, 3 GPs, 5 pharmacists and 1 nurse). The discussions were facilitated by independent JLA facilitators [9]. The top 10 questions were agreed by all stakeholders as the most important unanswered questions (see table 4).

Table 4: Top 10 research priorities

	How can patient safety be assured for the most vulnerable in society (e.g. people who
1	are frail, have mental health problems or cognitive impairments)?
	How can we make sure that the whole patient is treated, not just one condition and
2	with mental health and physical health both being treated together?
	How can we improve safe communication and co-ordination of care between primary
3	and secondary care?
	In what ways does work intensity, hours worked and staffing levels affect patient
4	safety/near misses?
5	How does continuity of care influence patient safety?
	How well do patients understand the information that has been conveyed to them
6	during the consultation?
	What can primary care do to identify and support people who may be at risk of
7	suicide?
	Which type of practitioner (GP, advanced nurse practitioner, practice nurse) is safest to
8	see which types of patients (acute illnesses, acute or chronic multi-morbid)?
	How can information within patient medical records be made available to patients and
9	care providers in a way that protects privacy and improves safety and quality of care?
10	How can risks be mitigated to allow for safe complex care at home?

DISCUSSION

This study has identified the limited evidence available currently to address some key questions and priorities about patient safety in primary care. Of 270 questions submitted, 173 unique questions were identified for prioritisation. The top 10 research priorities (see table 4) included how patient safety can be assured for the most vulnerable in society, taking holistic approaches to care, transitions and communication of care between primary and secondary care, staffing issues, continuity of care, communication between patients and care providers, identifying and support people at risk of suicide, the appropriateness of different practitioners for different types of clinical work, accessing patient medical records and safe care at home. The questions incorporated understanding existing concepts and challenges (e.g. continuity of care, holistic care and communication) with emerging issues and widening the focus of patient safety priorities (e.g. safer care at home or patients accessing their medical records) [18-21]. These results will be used by funders and researchers to identify future research priorities that are most relevance to patients and healthcare professionals in an attempt to address this lack of evidence to support patient and healthcare professional everyday questions about patient safety in primary care and research activity.

The limited evidence to support patients and healthcare professionals to inform primary care service design and delivery is important given the growing priority of patient safety both nationally and internationally [22]. Whilst the focus of this PSP was within the UK, the top 10 uncertainties reflect many universal commonalities addressing patient safety in care delivery and management (such as staffing issues, communications, and transitions between care settings) that are of relevance internationally and for which there are limited tools or strategies to measure, monitor and improve patient safety; for example, diagnostics and transitions of care [1]. The fact that the number one priority was about understanding patient safety for the most vulnerable in society is particularly relevant given that this includes people where there has traditionally received less research focus [23]. Furthermore, the recognition of treating the patient as a whole person, rather than focusing on individual conditions, is of particular relevance given that many of the guidelines and support available has focused on individual conditions (for example, in the UK the National Institute for Health and Care Excellence [24]) and do not address the everyday decisions and prioritisations that

patients and healthcare professionals must make when faced with multiple conditions and treatment options [25,26].

Communication and care co-ordination was a focus of many questions that were submitted, despite the fact that there is a large body of research in these areas and these issues. In addition, a focus on holistic care is not a new priority with personal and holistic care having been advocated for many years [27], suggesting that in an ever more complex and digital era of medicine, personal care remains of importance. It suggests also that there remains a gap between rhetoric and reality [28]. It is still not understood clearly how these issues are conceptualised and understood from a patient safety perspective; for example, continuity of care [29]. This suggests that there remain unanswered questions about how to implement research into practice and potentially the impact, or awareness, of research to inform policy, commissioning and clinical practice [8, 22, 30]. Whilst research exists in part to address some of these questions [31], there remains an imbalance of research evidence across primary care professions that responds to the context in which decisions are being made by different professionals (e.g. dentists, pharmacists, practice nurses) and a lack of strong evidence, improvement studies or replication studies to support these decisions [32].

Strengths and limitations of the study

This was a large national prioritisation exercise with 341 patients and/or carers, and 94 healthcare professionals submitting questions and the priorities identified unanswered question which are of relevance across the UK. The imbalance of submissions between patients and healthcare professional was noticeable given the targeted approach by representatives of primary healthcare professional groups and professional networks. Adverts were sent to members of various organisations including patient support groups, members of professional organisations as well as through Twitter and other non-specific targeted adverts. However, there was limited involvement by some health care professional groups, such as ophthalmologists, care homes and social work sectors as there were no organisations representing this group on the steering group as membership of the steering group was a balance between being inclusive whilst being a manageable size. Further PSPs could work with members from these communities to examine in detail patient safety within these diverse settings. Furthermore, despite working with the LGBT foundation there were fewer questions submitted by members of this community. Although this process is unlikely to be representative given that certain groups maybe more active and more likely to submit questions,

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this is mitigated by the process of creating indicative questions for similar submissions and the prioritisation exercises meaning that the final top 10 questions were from the full range of submissions reflecting patient and health care professional priorities. Furthermore, while participants were asked to identify if they lived in the UK we did not ask which region they were located in and it is possible that one geographical location (for example) Manchester was over represented despite the engagement with national organisations to attempt to overcome this but from the demographic data collected we are unable to identify this. The breadth of different key stakeholders throughout the process was a strength, which ensured the credibility and relevance of the top 10 throughout the process [11, 33, 34]. However, the JLA procedure excludes non-clinical researchers, whilst including clinical researchers [9], assumes healthcare professional researchers are able to remove their research bias whereas non-clinical researchers (who may be users of primary care services as either patients or carers) are not. This approach has been adopted, and supported by the NIHR, as it aims to redress the imbalance in setting the research agenda where wider voices have traditionally not been included (i.e. patients and health care professionals) and whilst potentially all citizens are eligible to be users of primary care services it was deemed appropriate to exclude those who may already influence priority setting through funding applications, research projects and other mechanisms.

One potential limitation of this process is the breadth of questions that were submitted, as primary care is a broad and diverse service area and some questions suggested large programmes of research (for example: "At what level can patient safety interventions in primary care be applied, e.g. nationally, regionally, clinical commissioning groups, practice cluster, practice, individual clinician, patient?"). These questions were deliberately kept broad in order to ensure that questions kept the original intent of the submitted question in align with the JLA process. Rephrasing of indicative question were checked by the steering group to ensure that the original intent of the questions were maintained but it was difficult in some circumstances to be able to focus the question to fit within a searchable criteria. The questions are generally broad, potential programmes of work which reflects the broad nature of the question focusing on a core component of service delivery rather than a specific disease focus. In these instances, we were as open and inclusive in the literature searching and reviewing as possible. Another strength of this approach was that the areas of priority from the initial open survey were reflected in the top 10 final priorities: communication, team and system working, interfaces across primary and secondary care, medication, self-management support and technology. One limitation of this study is that the majority of patients who completed the first survey were white (92%) and over 55 (58%) despite broad promotional activities. Information about

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sexual orientation was only collected at the first survey as it was not going to be used for analysis of the prioritisation results and in consultation with the steering group it was decided not to collect the additional information to encourage engagement with the longer second survey. A consultation process like this will be more likely to reach people who were more engaged with research and this is a similar critique to the evaluations of other patient and public involvement activities who were more likely to involve white, older people [23]. Engaging with black and minority ethnic groups across a range of ages is an important component of future work. Additionally, there was little engagement from younger adults and younger parents, as well as members from black and minority ethnic groups which was a limit of this work. Future work may need to use targeted engagement and involvement approaches to work with members of these groups and future PSPs could focus on identifying priorities for these communities.

Future work

This project will inform the development of future research priorities and funding applications. It is important that research in primary care patient safety prioritises questions that address practical issues to support care delivery and use. Future research could focus on understanding the priorities for particular communities, such as black and minority ethnic groups, who have often not participated in traditional research and patient and public involvement.

Conclusions

The top 10 primary care patient safety research priorities were generated using an established transparent and systematic approach. The research priorities covered a range of areas of priority for patients, carers and healthcare professionals; how patient safety can be assured for the most vulnerable in society, taking holistic approaches to care, transitions and communication of care between primary and secondary care, staffing issues, continuity of care, communication between patients and care providers, identifying and support people at risk of suicide, the appropriateness of different practitioners for different types of clinical work, accessing patient medical records and safe care at home. These findings will be used to address these issues to set the research agenda to support patients, carers and healthcare professionals and to maximise the utility and impact of patient safety research in primary care.

What is already known on this topic

Patient safety in healthcare is an international priority for research and practice but despite the majority of patient contacts occurring in primary care the majority of research to inform practice has occurred in secondary care.

What this study adds

The top priorities for primary care patient safety research for healthcare professionals and patients focused on the most vulnerable in society, holistic whole-person care, safer communication and coordination between care providers, work intensity and continuity of care.

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expressed are those of the author(s) and not necessarily those of the NHS, the NIHR, or the Department of Health.

Competing interests declaration

We have read and understood BMJ policy on declaration of interests and declare that we have no competing interests

Details of author contributions

SC and ST designed the study and convened the steering group. RM led the study, carried out data collection, analysis, and interpretation of data. CR was responsible for promoting the surveys and coordinating members of the steering group. RA and JS were involved in the data collection and interpretation. SG and JW led the literature searching. RM drafted the initial manuscript and all authors have been involved in revising the manuscript and have given final approval of the version to be published. RM is the guarantor.

All authors, external and internal, had full access to all of the data (including statistical reports and tables) in the study and can take responsibility for the integrity of the data and the accuracy of the data analysis.

Identifiable patient information

No identifiable patient information has been included in the manuscript.

Data sharing statement

Data sharing: no additional data available

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FIGURE LEGEND

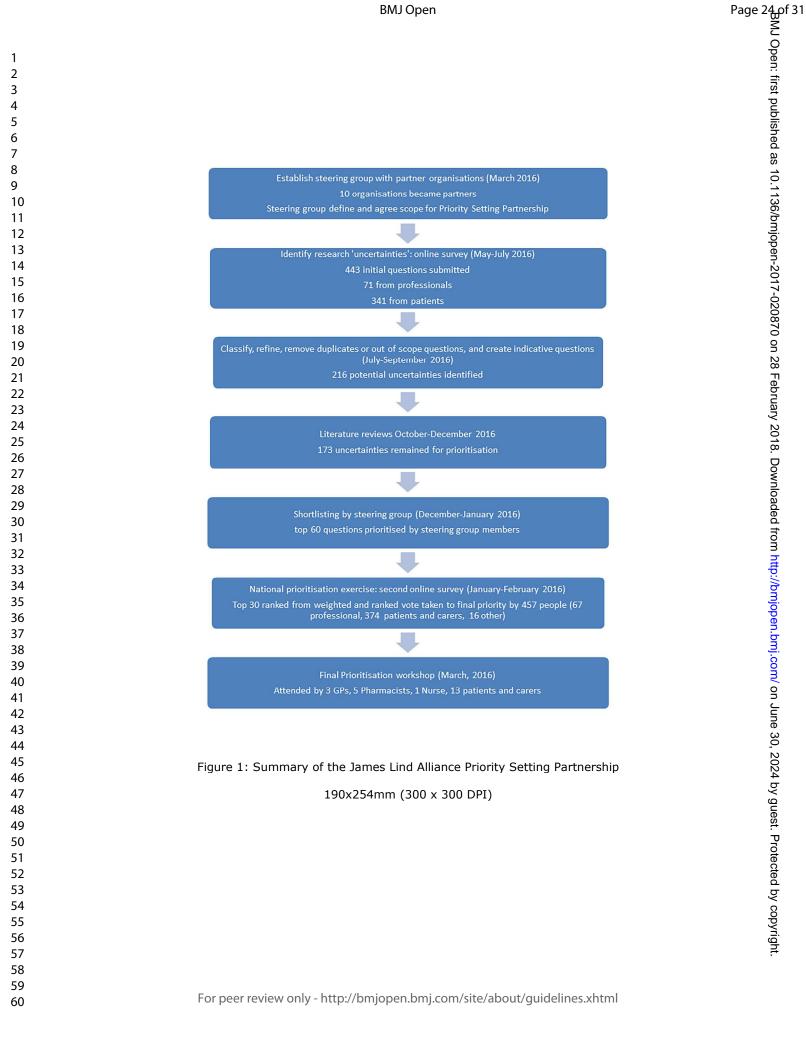
Figure 1: Summary of the James Lind Alliance Priority Setting Partnership

ONLINE SUPPLEMENTARY FILE LEGEND

Online supplementary file 1: Questionnaire

Online supplementary file 2: Top 60 research questions

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	nes Lind Alliance Priority Setting Partnership on primary care patient ety
	Page
	James Lind Alliance Priority Setting Partnership on primary care patient safety
1.	The NIHR Greater Manchester PSTRC is working with the James Lind Alliance to identify and prioritise the most important issues for research in primary care patient safety. If you have important unanswered questions about patient safety in primary care please describe them below.
	For more information and the participant information sheet <u>Read the Information</u> <u>Sheet</u>
	We are seeking to identify priorities for research about safety in primary care. Primary care includes your GP surgery, dental surgery, pharmacy, out of hours care, walk in clinic, community or district nursing, ambulance and opticians.
	Only complete this survey if you are over 16 years of age. If you are 16 or 17 years old please tick below to show that you consent to take part in this survey.
	I am aged 16 or 17 and consent to take part in this survey
2.	What are your questions for researchers to answer about patient safety in primary care?
	If you have more than one question for researchers to answer please list all questions with numbers to clearly indicate each new question.
3.	If you did not answer the question above asking you to suggest questions for researchers to answer about patient safety in primary care, is this because • you have no questions about primary care for researchers to answer
	 you have no questions about primary care for researchers to answer you did not understand the question Other, please specify

1		How old are you?
1 2		 16 to 24 years
3		25 to 34 years
4		 35 to 44 years
5 6		 45 to 54 years 55 to 64 years
7		 65 to 74 years
8		75 and over
9		 Prefer not to say
10 11		
12	5.	Do you live in England, Wales, Scotland or Northern Ireland?
13		Yes
14		No
15 16		Prefer not to say
10		If yes, please enter the first 2 letters of your postcode below
18		
19		
20 21	6.	What is your highest lovel of advestige?
22	0.	What is your highest level of education?
23		 No qualifications A to A COSEs as assumed and the second sec
24		 1 to 4 GCSEs or equivalent 5 or more GCSEs or equivalent
25 26		 Apprenticeship
26 27		 2 or more A levels or equivalent
28		 Degree level or above
29		 Other qualifications Prefer not to say
30		 Other, please specify
31 32		
33		
34	7.	What is your other is an and the set of the
35	1.	What is your ethnic group? Choose one option that best describes your
36 37		ethnic group or background
38		• White
39		 Asian or Asian British: Indian Asian or Asian British: Pakistani
40		 Asian or Asian British: Bangladeshi
41 42		 Asian or Asian British: Chinese
43		Asian or Asian British: Other
44		 Black or Black British: African Black or Black British: Caribbean
45		Black or Black British: Other
46 47		 White and Black Caribbean
48		White and Black African
49		White and Asian
50		 Arab Prefer not to say
51		Other, specify (optional)
52 53		
54		
55	8.	
56 57	0.	Do you, personally, work as a Healthcare Professional in any capacity?
57		For example, a doctor/nurse/therapist/pharmacist/health service
59		researcher/other NHS staff, etc. (if retired answer for your previous work)
60		

James Lind Alliance Priority Setting Partnership on primary care patien... https://apps.mhs.manchester.ac.uk/surveys/Print.aspx?SurveyID=8202... Page 27 of 31 BMJ Open

1 2 3 4 5		 Yes No Don't know Prefer not to say
6 7 8 9 10 11 12	9.	How do you describe your gender? Female Male In another way Prefer not to say
13 14 15 16 17 18 19	10.	 Is your gender identity the same as Yes No Do not understand the question Prefer not to say
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	11.	 Ubit best describes you? Lesbian/Gay Bisexual Heterosexual/Straight Other Prefer not to say

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59 60

your gender identity the same as the gender you were given at birth? Yes No

- Do not understand the question
- Prefer not to say

hich best describes you?

- Lesbian/Gay
- Bisexual

- Heterosexual/Straight
- Other
- Prefer not to say

Online supplementary file 2: the top 60 research priorities

1	What is the role of the receptionist in patient safety;
2	i.e. facilitating access to urgent appointments? Do GP practices keep patient records up to date to
2	ensure safety when a patient is seen by a different
	GP?
3	
5	Do patients have thoughts on what is safe and unsafe
	practice and would they know how and where to
	escalate any concerns?
4	Does seeing a named GP who knows an individual
	have safer care than seeing a GP who doesn't know
5	me?
6	How does continuity of care influence patient safety?
0	How is patient safety and patient harm monitored in primary care?
7	How many patients actually know what medication
	they are taking; what for and what the potential side
	effects are?
8	What can be done to make polypharmacy safer?
9	What is the impact of pharmacy input in the GP
	surgery?
10	Do GPs and other health care professionals record
	patients who are vulnerable/at risk in the patient
	notes?
11	
	Do patients referred to their community pharmacist
	by their hospital pharmacist for post-discharge
	support with their medicines have improved levels of medicines safety and medicines adherence?
12	medicines safety and medicines adherence?
12	How can patient safety be assured for the most
	vulnerable in society (e.g. people who are frail; have
	mental health problems; cognitive impairments;
	learning difficulties; disabilities; and poor health
	literacy)?
13	How frequent are the misdiagnosis of symptoms by
	GPs resulting in patient safety incidents?
14	How safe are phone consultations compared to face
	to face with one's GP?
15	How well trained are receptionists as acting as
	gatekeepers to GPs and prioritising patients?
16	In what ways does work intensity; hours worked &
	staffing levels affect patient safety/near misses?
17	
	What can be done to improve access to GP surgery for someone with mental health problems?
18	· · · · · · · · · · · · · · · · · · ·
10	What can Primary Care do to identify and support
	people who may be at risk of suicide?

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19	What do patients understand about when they should or shouldn't contact a GP; and who they should see instead?
20	What team working methods/cultures promote a safer approach?
21	What types of prescribing errors are occurring in GP prescribing practice and how often are they occurring?
22	Would a co-ordinated / holistic / overview approach to individual patients and families improve patient safety?
23	How can we encourage a culture that learns from patient safety incidents?
24	How can we encourage patients and clinicians to be more open about patient safety incidents; within a culture of learning rather than blame?
25	What tools could help practitioners balance safety/costs/workload/accessibility/quality?
26	Are difficulties in contacting doctors and/or making appointments associated with more delays or errors in diagnosis; or other failures of care?
27	Do clinicians ask patients if they understand the questions they are being asked and if they feel safe?
28	Do the actions of receptionists have potential ramifications for patient safety?
29	Does safety consciousness lead to anxiety and over compensation i.e. too much risk averseness?
30	Does the provision of detailed blood test data to patients lead to them managing their condition better?
31	How can communication between health care professionals be improved for people with multiple long term conditions?
32	How can information within patient medical records be made available to patients and care providers in a way that protects privacy and improves safety and quality of care?
33	How can patient safety reporting be made simple and action on reporting made effective?
34	How can patients best be informed about GPs with special interests in the practice they attend; in order to direct them to the most suitable doctor or nurse for consultation?
35	How can risks be mitigated to allow for safe; complex care at home?

36	How can we enable individual Practices to share the significant event audits and outcomes with each oth in a way which promotes patient safer care?
37	How can we improve safe communication and co- ordination of care between Primary and Secondary care?
38	How can we make sure that the whole patient is treated; not just one condition and with mental heal and physical health both being treated together?
39	How do GPs inform their patients of the side effects and potential risks when prescribing a new medication?
40	How well do patients understand the information the has been conveyed to them during the consultation?
41	In the backdrop of health and social care devolution; what are the risks to patient safety as services transform and the system transitions?
42	Is lack of continuity of care by a single doctor in a join practice associated with more delays or errors in diagnosis?
43	Is there a clear understanding of patient safety in general practice?
44	What are the diagnostic success rates of GPs when compared to their final diagnosis for a patient?
45	What are the safe frequencies of medication review?
46	What can be done to help GPs or nurse practitioners decide when the use of antibiotics is necessary?
47	What kinds; seriousness; and frequency; of harms happen to patients in primary care?
48	What proportion of national guidelines and National Institute for Health and Care Excellence recommendations are followed and monitored?
49	What proportion of patients tell their GPs about anything else they may be taking (e.g. homeopathy; cannabis etc.) that may conflict with medications?
50	What steps can be taken to improve patient safety ir out of hours care?
51	Which type practitioner (GP; advanced nurse practitioner; practice nurse; etc.) is safest to see whi types of patients (acute illnesses; acute on chronic; multi-morbid; long-term illness)?
52	Why do some patients not engage with their healthcare and so not attend all/some of their health checks?
53	Why is it that doctors do not listen to carer's concerns?

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54	Why is there such a time lag between seeing the hospital consultant and the GP getting information about a medication change?
55	Are patients with a disability particularly vulnerable to unsafe primary care and; if so; how can this be improved?
56	Are their harmful outcomes form excessive attention to safety?
57	How are medical errors in primary care prevented and recorded?
58	How can GP practices appointment systems (e.g. telephone; online) be improved?
59	How often do GPs report side effects; what is the level of under-reporting and how can it be improved?
60	How safe is treatment in out of hours care if patient notes are not available?

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Identifying primary care patient safety research priorities in the UK: a James Lind Alliance Priority Setting Partnership

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Title: Identifying primary care patient safety research priorities in the UK: a James Lind Alliance Priority Setting Partnership

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Abstract

Objectives: to identify the top 10 unanswered research questions for primary care patient safety research.

Design: a modified nominal group technique.

Setting: UK

Participants: Anyone with experience of primary care including: patients, carers and healthcare professionals. 341 patients and 86 healthcare professionals submitted questions.

Main outcomes: A top 10, and top 30, future research questions for primary care patient safety

Results: 443 research questions were submitted by 341 patients and 86 healthcare professionals, through a national survey. After checking for relevance and rephrasing, a total of 173 questions were collated into themes. The themes were largely focused on communication, team and system working, interfaces across primary and secondary care, medication, self-management support and technology. The questions were then prioritised through a national survey, the top 30 questions were taken forward to the final prioritisation workshop. The top 10 research questions focused on the most vulnerable in society, holistic whole-person care, safer communication and co-ordination between care providers, work intensity, continuity of care, suicide risk, complex care at home, and confidentiality.

Conclusions: This study was the first national prioritisation exercise to identify patient and health care professional priorities for primary care patient safety research. The research priorities identified a range of important gaps in the existing evidence to inform everyday practice to address primary care patient safety.

Key words: patient safety; primary care; James Lind Alliance; pharmacy; general practice

Strengths and limitations of this study

- This is the first national research prioritisation exercise to identify primary care patient safety research priorities.
- More patients and/or carers submitted questions than healthcare professionals.
- The majority of questions were submitted by people over 55 and who were Caucasian despite broad promotional activities.
- The broad range of questions submitted would like require large programmes of research to address them.
- An inclusive approach to literature search and reviewing was used.
- •

INTRODUCTION

Patient safety in healthcare is a policy priority at international, national, regional and local levels and is important to, and the responsibility of, everyone. Globally the majority of patient contacts with healthcare occur out of hospitals in primary care, family medicine and transitional settings between providers, yet patient safety research has been done mostly in hospital settings [1]. Patient safety can be defined as "the avoidance, prevention, and amelioration of adverse outcomes or injuries stemming from the processes of healthcare" [2]. The knowledge base to inform safer care and clinical decision making needs to be expanded to address questions that are needed in everyday clinical practice and potential strategies for system-wide improvement of care safety need to be prioritised [3]. Primary care includes a number of healthcare areas including general practice, community pharmacies, dentistry, high street optometrists and others working in community settings. The nature of much of the clinical work in primary care centres on treatment uncertainties, which are often complex and not necessarily acute in nature, and co-ordination across services, which poses many challenges to patient safety [4,5].

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Clinical research aims to improve the evidence upon which decisions are made about prevention, treatment, care, management and cure whilst avoiding a waste of research resources [6]. In the last ten years there has been a growth in primary care patient safety research [1], which has focused mostly on medication safety and errors. As there is limited time and resources available for research it is important that priority is given to areas of patient and healthcare professional priority to

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address issues that affect everyday practice [7]. There is an increasing recognition of the role of patients and healthcare professionals in co-setting the research agenda and the research community has been challenged to prioritise and fund research questions that are of relevance to a diverse range of stakeholders, including patients and healthcare professionals [8]. The James Lind Alliance (JLA) priority setting partnership (PSP) approach works with patients, carers and healthcare professionals to identify the priorities that are most important for research to address [9]. There have been over 60 JLA PSPs investigating a range of treatment uncertainties, which focus on discrete clinical topics such as asthma, endometrial cancer, schizophrenia and vitiligo [10-13]. This approach addresses the possible divergence between clinical research and patient priorities, which brings about the largest improvements in our knowledge of disease and service delivery [8].

Involving a wider set of stakeholders in prioritising research questions may identify key areas that have not been prioritised previously by funding bodies [10]. In the UK, the Department of Health funds health and care research through the National Institute for Health Research (NIHR) [14]. The NIHR aims to improve health through research and supports the active involvement of the public to achieve this aim. The JLA is overseen by the NIHR to support the research priorities identified through the partnerships so that they can feed directly in to national funding priorities [14, 15]. The Primary Care Patient Safety PSP pushed the boundaries of the JLA process by looking at unanswered questions in the diverse area of primary care, as opposed to a single clinical topic [4, 16]. The aim of the Primary Care Patient Safety PSP was to identify unanswered research questions in the field of primary care patient safety research and to identify the top research priorities for primary care patient safety from patients, carers, and primary care healthcare professionals.

METHOD

This study followed the JLA methodology [9]. This project was led and funded by the NIHR Greater Manchester Primary Care Patient Safety Translational Research Centre (Greater Manchester PSTRC) which is a partnership between Salford Royal National Health Service (NHS) Foundation Trust and The University of Manchester working with clinical and patient partner organisations. Partner organisations included representatives from the Royal College of General Practitioners, Royal College of Nursing, British Dental Association, Healthwatch Manchester, Carers UK, The Patients Association, Pharmacy Voice, NHS Salford Clinical Commissioning Group, Royal Pharmaceutical Society, and the

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Lesbian, Gay, Bisexual and Trans (LGBT) Foundation. The JLA provided an independent chair, advised on methodology and facilitated the final prioritisation setting workshop [9].

The University of Manchester Research Ethics Committee approved the study (REC reference: 16141)

Stage 1: Initiation

Steering group set up

The first stage involved identifying potential partner organisations to be members of the steering group to direct the project as well as having access to a wide range of potential participants to submit questions and reflected the diversity of people who work and/or use primary care services. The steering group included representatives from the Royal College of Nursing; the British Dental Association; the Royal College of General Practitioners; Healthwatch Manchester; Carers UK; the Patients Association; Pharmacy Voice; National Health Service Salford Clinical Commissioning Group; Royal Pharmaceutical Society; and Lesbian, Gay, Bisexual and Trans Foundation The steering group was responsible for from agreeing the initial focus, publicising the PSP, overseeing and collating the priorities as well as taking the final priorities to research funders [9].

Project initiation and eligibility

Anyone living in the UK who uses primary care services, carers, or who are healthcare professionals in primary care were eligible to participate in the identification and prioritisation of uncertainties. Non-clinical researchers and employees of pharmaceutical or medical devices companies were excluded from the survey [9]. A website was created

(<u>http://research.bmh.manchester.ac.uk/PatientSafetyPSP</u>) to advertise the partnership and the online survey.

Stage 2: Gathering 'uncertainties'

The first consultation was conducted via an electronic questionnaire with paper copies available on request (online supplementary material 1). Participants were asked "What are your questions about primary care (general practice, pharmacy, dentistry) patient safety?" and a short demographic

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survey available through the PSP website (the full survey is available as online supplementary material). The questionnaire was open from 1st June to 13th July, 2016. Participants were recruited via a range of convenience sampling in line with the aim of the JLA approach which promotes that the process is as inclusive as possible of patient and healthcare professional views [9]. The steering group members and the Greater Manchester PSTRC promoted the survey through a range of newsletters to members, social media, and through professional and patient networks.

Stage 3: Analysis and verification of uncertainties

The submitted questions were grouped into key themes. Questions were then analysed to identify duplicates and indicative questions were created when there were multiple questions submitted that asked similar questions. Duplicate questions, comments or questions outside the scope of the PSP were removed. RM led the identification of the indicative questions with initial discussion with SC and JS. The steering group then reviewed the indicative questions, and questions identified as duplicate or out of scope which had been removed, alongside the initial submitted questions. Every question was then searched against the existing literature. The literature was searched by an independent group of health information specialists led by SG and JW from Trust library service, Manchester University NHS Foundation Trust used a pre-defined systematic criteria. Analysis of the search results was completed by RM and RA. A question was considered to have met the certainty criteria if a recent (within 5 years) systematic review concluded that there was sufficient evidence to answer the question [11,17].

Stage 4: interim prioritisation

The steering group ranked the questions via an online survey where questions were presented to each member in a random order to reduce bias. The top 60 questions were then taken to a second national survey. The second survey was open from 13th January to 24th January, 2017. Patients, carers and healthcare providers were invited to rank the importance of each of the questions for primary care patient safety research from 'very important' to 'very unimportant.' To reduce bias questions were presented in a random order to each participant.

Stage 5: Final Prioritisation workshop

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The top 30 questions ranked as the most important were taken forward to a final prioritisation workshop which was a face-to-face consensus meeting held on the 16th March, 2017. Steering group members, volunteers from partner organisations, patients and carers were recruited through networks to take part in the final workshop. Attendees were divided into 3 equal sized groups with a mix of healthcare professionals, patients and carers. The groups were asked to rank the questions through guided discussion facilitated by three independent JLA advisors. The rankings were then collated and the groups mixed and then ranked the questions a second time. The aggregate ranking from the small group exercise was then taken forward to a whole group discussion where the final order of question priority was agreed. The final top ten most important unanswered questions in primary care patient safety were agreed by the full group (Figure 1).

Patient Involvement

Patients were involved in the study as members of the steering group as representatives of patient groups. Patient steering group members, along with other steering group members, directed the study, develop and agree the scope of the PSP, recruitment of patients as representatives of patient groups, reviewing and agreeing indicative questions, ranking of questions and in all stages of the prioritisation and dissemination processes through advertising the survey and its results to their networks.

RESULTS

Question gathering

448 participants answered all or part of the initial national free text survey with 237 people submitting 443 questions (see Figure 1). 341 questions were submitted by patients or carers (Table 1). The initial survey yielded 9124 views. 182 submissions either did not include a question or stated that they did not have a question about primary care patient safety (n=144) or did not understand the question (n=38). From the remaining 270 submissions, 443 individual research questions were identified.

Table 1: Participant demographics

Participant characteristic	First survey	Second survey
Patient or carer	341	373
Healthcare professional	86	51
Preferred not to say	3	1
Other	3	19
Left blank	5	3
Age		
16 to 24 years	4	5
25 to 34 years	25	43
35 to 44 years	38	45
45 to 54 years	62	86
55 to 64 years	87	117
65 to 74 years	75	115
75 and over	20	30
Prefer not to say	1	3
Left blank	6	3
Ethnicity		
Arab	1	1
Asian or Asian British: Indian	7	5
Asian or Asian British: Chinese	3	0
Asian or Asian British: Other	1	1
Asian or Asian British: Pakistani	2	3
Black or Black British: Caribbean	4	1
Black or Black British: African	2	0
	1	
Black or Black British: Other	7	0
Prefer not to say	0	8
Scottish	411	1
White	0	412
White English	1	1
White and Asian	1	3
White and Black African	1	2
White and Black Caribbean	0	2
White and North African	0	1
White British	2	1
Other	2	0

Missing	2	5
Gender		
Female	225	237
Male	218	202
In another way	1	0
Prefer not to say	0	5
Left blank	4	3
Gender same as at birth		
No	3	1
Yes	427	434
Prefer not to say	0	5
Left blank	7	7
Did not understand the version		0
Sexual orientation		
Lesbian or Gay	13	Unknown
Bisexual	6	Unknown
Heterosexual	392	Unknown
Other	3	Unknown
Prefer not to say	15	Unknown
Left blank	19	Unknown

Analysis and verification of uncertainties

46 questions were excluded as outside of the scope of the PSP; for example a request for research in stem cell research. The remaining 397 questions were then grouped into themes. The key themes identified were medication (n=50), diabetes care (n=46), access (n=32), education and training (n=29), communication (n=28), patient records (n=14), workforce and capacity (n=13), continuity of care (n=10), governance (n=9), multimorbidity (n=7), foot care (n=7), reception (n=6), harm (n=6), out of hours care (n=6), patient awareness of patient safety (n=6), hygiene (n=6) (for all topic themes see table 2).

Table 2: Topic themes of submitted questions

Topic theme	Number of questions submitted
Medication	50
Diabetes care	46
Access	32
Education and training	29
Communication	28
Patient records	14
Workforce and capacity	13
Continuity of care	10
Governance	9
Multimorbidity	7
Foot care	7
Reception	6
Harm	6
Out of hours care	6
Patient awareness of patient safety	6
Hygiene	6
Interface	5
Blood tests	5
Diagnosis	5
Treatment	5
NICE guidance	4
Dispensing	4
Appointment time	3
Disability	3
Information	3
Long term condition management	3
Pain	3
Risk assessment	3
	2
Multidisciplinary teams Holistic views of patients	2
•	2
Understanding patient safety	
Implementation of research or guidelines	2
Co-ordination of care	2
Confidentiality	2
Cost of safety	2
Intervention development	2
Knowledge	2
Mental health	2
Annual follow-up	2
Patient experience	2
Medical errors	2
Identifying people at risk of suicide	1
Care Quality Commission	1
Definition of patient safety	1
Dementia	1
Diet	1
NHS changes	1
Dental infection	1
Condition awareness	1

$\begin{array}{c} 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ 21\\ 22\\ 23\\ 24\\ 25\\ 26\\ 27\\ 28\\ 29\\ 30\\ 31\\ 32\\ 33\\ 34\\ 35\\ 36\\ 37\\ 38\\ 39\\ 40\\ 41\\ 42\\ 43\\ 44\\ 45\\ 46\\ 47\\ 8\\ 46\\ 47\\ 8\\ 46\\ 47\\ 8\\ 46\\ 47\\ 8\\ 46\\ 47\\ 8\\ 46\\ 47\\ 8\\ 46\\ 47\\ 8\\ 46\\ 47\\ 8\\ 46\\ 47\\ 8\\ 46\\ 47\\ 8\\ 46\\ 47\\ 8\\ 46\\ 47\\ 48\\ 48\\ 46\\ 47\\ 48\\ 48\\ 48\\ 48\\ 48\\ 48\\ 48\\ 48\\ 48\\ 48$	
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Consultation	1
Contextual approaches to safety	1
Errors	1
Geographical differences	1
Health and social care development	1
Impact of patient safety awareness	1
Integrated approach to safety	1
Locum doctors	1
Minor injuries	1
Models of care	1
Obesity	1
Patient engagement with healthcare	1
Palliative care	1
Patient role in safety	1
Physical safety	1
Polypharmacy	1
Population versus personalised care	1
Patient and public involvement	1
Prescription	1
Prevention of issues	1
Priorities	1
Quality improvement	1
Referrals	1
Regional care	1
Resources	1
Review appointments	1
Safety boundaries	1
Safety causing other issues	1
Safer care at home	1
Service changes	1
Technology	1
Test results	1
Transferability of patient safety initiatives	1
Violent patient management	1
Yellow Card scheme	1

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Questions focused on primary care broadly (n=240), General Practice (n=95), patient level selfmanagement (n=30), pharmacy (n=14), out of hours care (n=6), patient and public involvement in research (n=2), and physiotherapy (n=1).

Indicative questions were created from duplicate entries and narrative submissions so that they kept the original meaning of the submission, leaving 216 questions to be verified against the existing literature evidence. All indicative questions were agreed by the steering group. In total, 173 questions were considered unanswered by research.

Interim prioritisation

The 60 most important unanswered research questions were then prioritised by a second national online survey completed by 447 people, including 374 patients or carers (online supplementary material 2). The top 30 questions that were ranked as most important were taken forwards to the final consensus meeting (see table 3 for ranking by patients and healthcare professionals).

Table 3: Ranking of Top 30 questions (final and pre-workshop)

	Final rank		Rank pre	Rank pre
	post	Overall rank	workshop	workshop by
	workshop	(pre final	(by patients	healthcare
Question		workshop)	or carers)	professionals
How can patient safety be assured for the most				
vulnerable in society (e.g. people who are frail,				
have mental health problems or cognitive				
impairments)?	1	3	3	L ,
How can we make sure that the whole patient				
is treated, not just one condition and with				
mental health and physical health both being				
treated together?	2	1	1	2
How can we improve safe communication and				
co-ordination of care between primary and				
secondary care?	3	10	15	1
In what ways does work intensity, hours	4			
worked & staffing levels affect patient				
safety/near misses?		7	9	
How does continuity of care influence patient				
safety?	5	11	11	22
How well do patients understand the				
information that has been conveyed to them		_		
during the consultation?	6	9	8	e
What can primary care do to identify and				
support people who may be at risk of suicide?	7	5	6	8
Which type of practitioner (GP, advanced nurse				
practitioner, practice nurse) is safest to see				
which types of patients (acute illnesses, acute				
on chronic multi-morbid)?	8	22	21	29
How can information within patient medical				
records be made available to patients and care				
providers in a way that protects privacy and				
improves safety and quality of care?	9	30	30	19
How can risks be mitigated to allow for safe				
complex care at home?	10	29	29	20

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Are difficulties in contacting doctors and/or				
making appointments associated with more				
delays or errors in diagnosis or other failures of				
care?	11	15	13	2
How many patients actually know what				
medication they are taking, what for and what				
the potential side effects are?	12	20	25	1
What can be done to improve access to GP				
surgery for someone with mental health				
problems?	13	8	7	1
How can communication between healthcare				
professionals be improved for people with				
multiple long term conditions?	14	2	2	
How safe is treatment in out of hours care if				
patient notes are not available?	15	4	5	
What do patients understand about when they				
should or shouldn't contact a GP and who they				
should see instead?	16	25	27	2
How can we encourage patients and clinicians				
to be more open about patient safety incidents				
within a culture of learning rather than blame?	17	28	32	-
What steps can be taken to improve patient				
safety in out of hours care?	18	12	12	-
What is the role of the receptionist in patient				
safety i.e. facilitating access to urgent				
appointments?	19	26	24	4
How well trained are receptionists as acting as				
gatekeepers to GPs and prioritising patients?	20	24	22	3
How can GP practices appointment systems				
(e.g. telephone, online) be improved?	21	13	10	4
What types of prescribing errors are occurring				
in GP prescribing practice and how often are				
they occurring?	22	27	31	
How do GPs inform their patients of the side				
effects and potential risks when prescribing a				
new medication?	23	21	19	
How are medical errors in primary care				
prevented and recorded?	24	18	20	
Do GP practices keep patient records up to				
date to ensure safety when a patient is seen by				
a different GP?	25	6	4	
Why is there such a time lag between seeing				4
the hospital consultant and the GP getting				
information about a medication change?	26	16	17	
How frequent are the misdiagnosis of	20	10	17	4
symptoms by GPs resulting in patient safety	27			
incidents?	21	14	14	
Do GPs and other healthcare professionals			17	4
record patients who are vulnerable/at risk in				
the patient notes?	28	17	16	3
-	20			
Does seeing a named GP who knows an		19	18	4

individual have safer care than seeing a GP				
who doesn't know me?	29			
Do the actions of receptionists have potential				
ramifications for patient safety?	30	23	23	28

Final prioritisation

A mixed group of 22 stakeholders discussed and ranked the final 30 questions at a final face-to-face meeting (13 patients or carers, 3 GPs, 5 pharmacists and 1 nurse). The discussions were facilitated by independent JLA facilitators [9]. The top 10 questions were agreed by all stakeholders as the most important unanswered questions (see table 4).

Table 4: Top 10 research priorities

	How can patient safety be assured for the most vulnerable in society (e.g. people who		
1	are frail, have mental health problems or cognitive impairments)?		
	How can we make sure that the whole patient is treated, not just one condition and		
2	with mental health and physical health both being treated together?		
	How can we improve safe communication and co-ordination of care between primary		
3	and secondary care?		
	In what ways does work intensity, hours worked and staffing levels affect patient		
4	safety/near misses?		
5	How does continuity of care influence patient safety?		
	How well do patients understand the information that has been conveyed to them		
6	during the consultation?		
	What can primary care do to identify and support people who may be at risk of		
7	suicide?		
	Which type of practitioner (GP, advanced nurse practitioner, practice nurse) is safest to		
8	see which types of patients (acute illnesses, acute or chronic multi-morbid)?		
	How can information within patient medical records be made available to patients and		
9	care providers in a way that protects privacy and improves safety and quality of care?		
10	How can risks be mitigated to allow for safe complex care at home?		

DISCUSSION

This study has identified the limited evidence available currently to address some key questions and priorities about patient safety in primary care. Of 270 questions submitted, 173 unique questions were identified for prioritisation. The top 10 research priorities (see table 4) included how patient safety can be assured for the most vulnerable in society, taking holistic approaches to care, transitions and communication of care between primary and secondary care, staffing issues, continuity of care, communication between patients and care providers, identifying and support people at risk of suicide, the appropriateness of different practitioners for different types of clinical work, accessing patient medical records and safe care at home. The questions incorporated understanding existing concepts and challenges (e.g. continuity of care, holistic care and communication) with emerging issues and widening the focus of patient safety priorities (e.g. safer care at home or patients accessing their medical records) [18-21]. These results will be used by funders and researchers to identify future research priorities that are most relevance to patients and healthcare professionals in an attempt to address this lack of evidence to support patient and healthcare professional everyday questions about patient safety in primary care and research activity.

The limited evidence to support patients and healthcare professionals to inform primary care service design and delivery is important given the growing priority of patient safety both nationally and internationally [22]. Whilst the focus of this PSP was within the UK, the top 10 uncertainties reflect many universal commonalities addressing patient safety in care delivery and management (such as staffing issues, communications, and transitions between care settings) that are of relevance internationally and for which there are limited tools or strategies to measure, monitor and improve patient safety; for example, diagnostics and transitions of care [1]. The fact that the number one priority was about understanding patient safety for the most vulnerable in society is particularly relevant given that this includes people where there has traditionally received less research focus [23]. Furthermore, the recognition of treating the patient as a whole person, rather than focusing on individual conditions, is of particular relevance given that many of the guidelines and support available has focused on individual conditions (for example, in the UK the National Institute for Health and Care Excellence [24]) and do not address the everyday decisions and prioritisations that

patients and healthcare professionals must make when faced with multiple conditions and treatment options [25,26].

Communication and care co-ordination was a focus of many questions that were submitted, despite the fact that there is a large body of research in these areas and these issues. In addition, a focus on holistic care is not a new priority with personal and holistic care having been advocated for many years [27], suggesting that in an ever more complex and digital era of medicine, personal care remains of importance. It suggests also that there remains a gap between rhetoric and reality [28]. It is still not understood clearly how these issues are conceptualised and understood from a patient safety perspective; for example, continuity of care [29]. This suggests that there remain unanswered questions about how to implement research into practice and potentially the impact, or awareness, of research to inform policy, commissioning and clinical practice [8, 22, 30]. Whilst research exists in part to address some of these questions [31], there remains an imbalance of research evidence across primary care professions that responds to the context in which decisions are being made by different professionals (e.g. dentists, pharmacists, practice nurses) and a lack of strong evidence, improvement studies or replication studies to support these decisions [32].

Strengths and limitations of the study

This was a large national prioritisation exercise with 341 patients and/or carers, and 94 healthcare professionals submitting questions and the priorities identified unanswered question which are of relevance across the UK. The imbalance of submissions between patients and healthcare professional was noticeable given the targeted approach by representatives of primary healthcare professional groups and professional networks. Adverts were sent to members of various organisations including patient support groups, members of professional organisations as well as through Twitter and other non-specific targeted adverts. However, there was limited involvement by some health care professional groups, such as ophthalmologists, care homes and social work sectors as there were no organisations representing this group on the steering group as membership of the steering group was a balance between being inclusive whilst being a manageable size. Further PSPs could work with members from these communities to examine in detail patient safety within these diverse settings. Furthermore, despite working with the LGBT foundation there were fewer questions submitted by members of this community. Although this process is unlikely to be representative given that certain groups maybe more active and more likely to submit questions,

this is mitigated by the process of creating indicative questions for similar submissions and the prioritisation exercises meaning that the final top 10 questions were from the full range of submissions reflecting patient and health care professional priorities. Furthermore, while participants were asked to identify if they lived in the UK we did not ask which region they were located in and it is possible that one geographical location (for example) Manchester was over represented despite the engagement with national organisations to attempt to overcome this but from the demographic data collected we are unable to identify this. The breadth of different key stakeholders throughout the process was a strength, which ensured the credibility and relevance of the top 10 throughout the process [11, 33, 34]. However, the JLA procedure excludes non-clinical researchers, whilst including clinical researchers [9], assumes healthcare professional researchers are able to remove their research bias whereas non-clinical researchers (who may be users of primary care services as either patients or carers) are not. This approach has been adopted, and supported by the NIHR, as it aims to redress the imbalance in setting the research agenda where wider voices have traditionally not been included (i.e. patients and health care professionals) and whilst potentially all citizens are eligible to be users of primary care services it was deemed appropriate to exclude those who may already influence priority setting through funding applications, research projects and other mechanisms.

One potential limitation of this process is the breadth of questions that were submitted, as primary care is a broad and diverse service area and some questions suggested large programmes of research (for example: "At what level can patient safety interventions in primary care be applied, e.g. nationally, regionally, clinical commissioning groups, practice cluster, practice, individual clinician, patient?"). These questions were deliberately kept broad in order to ensure that questions kept the original intent of the submitted question in align with the JLA process. Rephrasing of indicative question were checked by the steering group to ensure that the original intent of the questions were maintained but it was difficult in some circumstances to be able to focus the question to fit within a searchable criteria. The questions are generally broad, potential programmes of work which reflects the broad nature of the question focusing on a core component of service delivery rather than a specific disease focus. In these instances, we were as open and inclusive in the literature searching and reviewing as possible. Another strength of this approach was that the areas of priority from the initial open survey were reflected in the top 10 final priorities: communication, team and system working, interfaces across primary and secondary care, medication, self-management support and technology. One limitation of this study is that the majority of patients who completed the first survey were white (92%) and over 55 (58%) despite broad promotional activities. Information about

sexual orientation was only collected at the first survey as it was not going to be used for analysis of the prioritisation results and in consultation with the steering group it was decided not to collect the additional information to encourage engagement with the longer second survey. A consultation process like this will be more likely to reach people who were more engaged with research and this is a similar critique to the evaluations of other patient and public involvement activities who were more likely to involve white, older people [23]. Engaging with black and minority ethnic groups across a range of ages is an important component of future work. Additionally, there was little engagement from younger adults and younger parents, as well as members from black and minority ethnic groups which was a limit of this work. Future work may need to use targeted engagement and involvement approaches to work with members of these groups and future PSPs could focus on identifying priorities for these communities.

Future work

This project will inform the development of future research priorities and funding applications. It is important that research in primary care patient safety prioritises questions that address practical issues to support care delivery and use. Future research could focus on understanding the priorities for particular communities, such as black and minority ethnic groups, who have often not participated in traditional research and patient and public involvement.

Conclusions

The top 10 primary care patient safety research priorities were generated using an established transparent and systematic approach. The research priorities covered a range of areas of priority for patients, carers and healthcare professionals; how patient safety can be assured for the most vulnerable in society, taking holistic approaches to care, transitions and communication of care between primary and secondary care, staffing issues, continuity of care, communication between patients and care providers, identifying and support people at risk of suicide, the appropriateness of different practitioners for different types of clinical work, accessing patient medical records and safe care at home. These findings will be used to address these issues to set the research agenda to support patients, carers and healthcare professionals and to maximise the utility and impact of patient safety research in primary care.

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Competing interests declaration

We have read and understood BMJ policy on declaration of interests and declare that we have no competing interests

Details of author contributions

SC and ST designed the study and convened the steering group. RM led the study, carried out data collection, analysis, and interpretation of data. CR was responsible for promoting the surveys and coordinating members of the steering group. RA and JS were involved in the data collection and interpretation. SG and JW led the literature searching. RM drafted the initial manuscript and all authors have been involved in revising the manuscript and have given final approval of the version to be published. RM is the guarantor.

All authors, external and internal, had full access to all of the data (including statistical reports and tables) in the study and can take responsibility for the integrity of the data and the accuracy of the data analysis.

Identifiable patient information

No identifiable patient information has been included in the manuscript.

Data sharing statement

Data sharing: no additional data available

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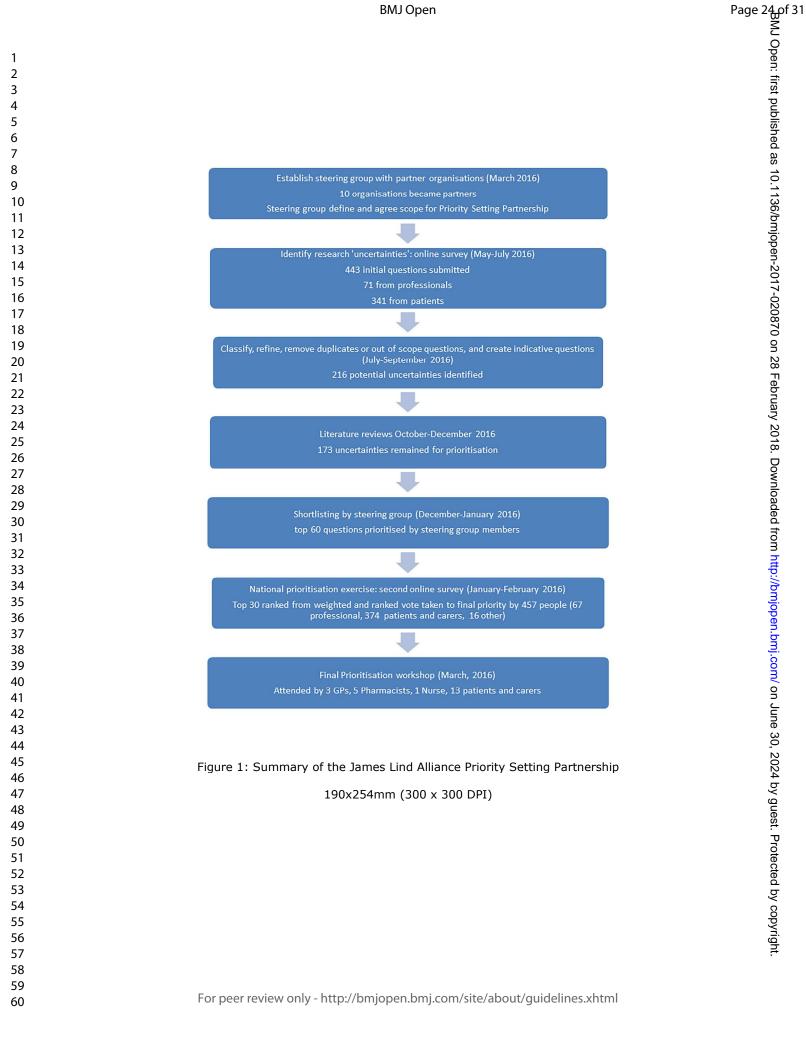
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FIGURE LEGEND

Figure 1: Summary of the James Lind Alliance Priority Setting Partnership

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1 2	
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4 5	ONLINE SUPPLEMENTARY FILE LEGEND
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7 8	Online supplementary file 1: Questionnaire
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10 11	Online supplementary file 2: Top 60 research questions
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	nes Lind Alliance Priority Setting Partnership on primary care patient ety
	Page
	James Lind Alliance Priority Setting Partnership on primary care patient safety
1.	The NIHR Greater Manchester PSTRC is working with the James Lind Alliance to identify and prioritise the most important issues for research in primary care patient safety. If you have important unanswered questions about patient safety in primary care please describe them below.
	For more information and the participant information sheet <u>Read the Information</u> <u>Sheet</u>
	We are seeking to identify priorities for research about safety in primary care. Primary care includes your GP surgery, dental surgery, pharmacy, out of hours care, walk in clinic, community or district nursing, ambulance and opticians.
	Only complete this survey if you are over 16 years of age. If you are 16 or 17 years old please tick below to show that you consent to take part in this survey.
	I am aged 16 or 17 and consent to take part in this survey
2.	What are your questions for researchers to answer about patient safety in primary care?
	If you have more than one question for researchers to answer please list all questions with numbers to clearly indicate each new question.
3.	If you did not answer the question above asking you to suggest questions for researchers to answer about patient safety in primary care, is this because • you have no questions about primary care for researchers to answer
	 you have no questions about primary care for researchers to answer you did not understand the question Other, please specify

1		How old are you?
1 2		 16 to 24 years
3		25 to 34 years
4		 35 to 44 years
5 6		 45 to 54 years 55 to 64 years
7		 65 to 74 years
8		75 and over
9		 Prefer not to say
10 11		
12	5.	Do you live in England, Wales, Scotland or Northern Ireland?
13		Yes
14		No
15 16		Prefer not to say
17		If yes, please enter the first 2 letters of your postcode below
18		
19		
20 21	6.	What is your highest lovel of advestige?
22	0.	What is your highest level of education?
23		 No qualifications A to A COSEs as assumed and the second sec
24		 1 to 4 GCSEs or equivalent 5 or more GCSEs or equivalent
25 26		 Apprenticeship
26 27		 2 or more A levels or equivalent
28		 Degree level or above
29		 Other qualifications Prefer not to say
30		 Other, please specify
31 32		
33		
34	7.	What is your other is an and the set of the
35	1.	What is your ethnic group? Choose one option that best describes your
36 37		ethnic group or background
38		• White
39		 Asian or Asian British: Indian Asian or Asian British: Pakistani
40		 Asian or Asian British: Bangladeshi
41 42		 Asian or Asian British: Chinese
43		Asian or Asian British: Other
44		 Black or Black British: African Black or Black British: Caribbean
45		Black or Black British: Other
46 47		 White and Black Caribbean
48		White and Black African
49		White and Asian
50		 Arab Prefer not to say
51		Other, specify (optional)
52 53		
54		
55	8.	
56 57	0.	Do you, personally, work as a Healthcare Professional in any capacity?
57		For example, a doctor/nurse/therapist/pharmacist/health service
59		researcher/other NHS staff, etc. (if retired answer for your previous work)
60		

James Lind Alliance Priority Setting Partnership on primary care patien... https://apps.mhs.manchester.ac.uk/surveys/Print.aspx?SurveyID=8202... Page 27 of 31 BMJ Open

1 2 3 4 5		 Yes No Don't know Prefer not to say
6 7 8 9 10 11 12	9.	How do you describe your gender? Female Male In another way Prefer not to say
13 14 15 16 17 18 19	10.	 Is your gender identity the same as Yes No Do not understand the question Prefer not to say
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	11.	 Ubit best describes you? Lesbian/Gay Bisexual Heterosexual/Straight Other Prefer not to say

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your gender identity the same as the gender you were given at birth? Yes No

- Do not understand the question
- Prefer not to say

hich best describes you?

- Lesbian/Gay
- Bisexual

- Heterosexual/Straight
- Other
- Prefer not to say

Online supplementary file 2: the top 60 research priorities

1	What is the role of the receptionist in patient safety;
2	i.e. facilitating access to urgent appointments? Do GP practices keep patient records up to date to
2	ensure safety when a patient is seen by a different
	GP?
3	
5	Do patients have thoughts on what is safe and unsafe
	practice and would they know how and where to
	escalate any concerns?
4	Does seeing a named GP who knows an individual
	have safer care than seeing a GP who doesn't know
5	me?
6	How does continuity of care influence patient safety?
0	How is patient safety and patient harm monitored in primary care?
7	How many patients actually know what medication
	they are taking; what for and what the potential side
	effects are?
8	What can be done to make polypharmacy safer?
9	What is the impact of pharmacy input in the GP
	surgery?
10	Do GPs and other health care professionals record
	patients who are vulnerable/at risk in the patient
	notes?
11	
	Do patients referred to their community pharmacist
	by their hospital pharmacist for post-discharge
	support with their medicines have improved levels of medicines safety and medicines adherence?
12	medicines safety and medicines adherence?
12	How can patient safety be assured for the most
	vulnerable in society (e.g. people who are frail; have
	mental health problems; cognitive impairments;
	learning difficulties; disabilities; and poor health
	literacy)?
13	How frequent are the misdiagnosis of symptoms by
	GPs resulting in patient safety incidents?
14	How safe are phone consultations compared to face
	to face with one's GP?
15	How well trained are receptionists as acting as
	gatekeepers to GPs and prioritising patients?
16	In what ways does work intensity; hours worked &
	staffing levels affect patient safety/near misses?
17	
	What can be done to improve access to GP surgery for someone with mental health problems?
18	
10	What can Primary Care do to identify and support
	people who may be at risk of suicide?

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19	What do patients understand about when they should or shouldn't contact a GP; and who they should see instead?
20	What team working methods/cultures promote a safer approach?
21	What types of prescribing errors are occurring in GP prescribing practice and how often are they occurring?
22	Would a co-ordinated / holistic / overview approach to individual patients and families improve patient safety?
23	How can we encourage a culture that learns from patient safety incidents?
24	How can we encourage patients and clinicians to be more open about patient safety incidents; within a culture of learning rather than blame?
25	What tools could help practitioners balance safety/costs/workload/accessibility/quality?
26	Are difficulties in contacting doctors and/or making appointments associated with more delays or errors in diagnosis; or other failures of care?
27	Do clinicians ask patients if they understand the questions they are being asked and if they feel safe?
28	Do the actions of receptionists have potential ramifications for patient safety?
29	Does safety consciousness lead to anxiety and over compensation i.e. too much risk averseness?
30	Does the provision of detailed blood test data to patients lead to them managing their condition better?
31	How can communication between health care professionals be improved for people with multiple long term conditions?
32	How can information within patient medical records be made available to patients and care providers in a way that protects privacy and improves safety and quality of care?
33	How can patient safety reporting be made simple and action on reporting made effective?
34	How can patients best be informed about GPs with special interests in the practice they attend; in order to direct them to the most suitable doctor or nurse for consultation?
35	How can risks be mitigated to allow for safe; complex care at home?

36	How can we enable individual Practices to share the significant event audits and outcomes with each oth in a way which promotes patient safer care?
37	How can we improve safe communication and co- ordination of care between Primary and Secondary care?
38	How can we make sure that the whole patient is treated; not just one condition and with mental heal and physical health both being treated together?
39	How do GPs inform their patients of the side effects and potential risks when prescribing a new medication?
40	How well do patients understand the information the has been conveyed to them during the consultation?
41	In the backdrop of health and social care devolution; what are the risks to patient safety as services transform and the system transitions?
42	Is lack of continuity of care by a single doctor in a join practice associated with more delays or errors in diagnosis?
43	Is there a clear understanding of patient safety in general practice?
44	What are the diagnostic success rates of GPs when compared to their final diagnosis for a patient?
45	What are the safe frequencies of medication review?
46	What can be done to help GPs or nurse practitioners decide when the use of antibiotics is necessary?
47	What kinds; seriousness; and frequency; of harms happen to patients in primary care?
48	What proportion of national guidelines and National Institute for Health and Care Excellence recommendations are followed and monitored?
49	What proportion of patients tell their GPs about anything else they may be taking (e.g. homeopathy; cannabis etc.) that may conflict with medications?
50	What steps can be taken to improve patient safety ir out of hours care?
51	Which type practitioner (GP; advanced nurse practitioner; practice nurse; etc.) is safest to see whi types of patients (acute illnesses; acute on chronic; multi-morbid; long-term illness)?
52	Why do some patients not engage with their healthcare and so not attend all/some of their health checks?
53	Why is it that doctors do not listen to carer's concerns?

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54	Why is there such a time lag between seeing the hospital consultant and the GP getting information about a medication change?
55	Are patients with a disability particularly vulnerable to unsafe primary care and; if so; how can this be improved?
56	Are their harmful outcomes form excessive attention to safety?
57	How are medical errors in primary care prevented and recorded?
58	How can GP practices appointment systems (e.g. telephone; online) be improved?
59	How often do GPs report side effects; what is the level of under-reporting and how can it be improved?
60	How safe is treatment in out of hours care if patient notes are not available?