1	SUPPLEMENTARY MATERIAL
2	
3	The experiences and wellbeing of healthcare professionals working in the field of
4	ultrasound in Obstetrics and Gynecology as the SARS-CoV-2 pandemic was evolving: a
5	cross-sectional survey study
6	
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1 Supplement 1: The International Society of Ultrasound in Obstetrics and Gynecology

- (ISUOG) SARS-CoV-2 Questionnaire for healthcare professionals working with ultrasound
 in Obstetrics and Gynecology.
- 4

5 Informed consent

- 6 7
 - This questionnaire is fully anonymous answers cannot be traced back to participants.
- 8 The anonymised data will be collected for analysis in order to provide a report and
- 9 publication at a later date.
- 10 11

12

- 1. Please click 'yes' to participate in this survey. Otherwise, click 'no': (please choose one option)
- 13
- 14 No
- 15

16 Introduction

Yes

17 18

2. What title best describes your job: (please choose one option)

- 19 Sonographer Obstetrics
- 20 Sonographer Gynecology
- 21 Sonographer Obstetrics and Gynecology
- 22 Obstetrician
- 23 Gynecologist
- 24 Obstetrician and Gynecologist
- 25 Radiologist
- 26 Doctor in training Obstetrics
- 27 Doctor in training Gynecology
- 28 Doctor in training Obstetrics and Gynecology
- 29 Doctor in training Radiologist
- 30 Doctor in research Obstetrics
- 31 Doctor in research Gynecology
- 32 Doctor in research Obstetrics and Gynecology
- 33 Doctor in research Radiology
- 34 Nurse Obstetrics
- 35 Nurse Gynecology
- 36 Nurse Obstetrics and Gynecology
- 37 Nurse Early pregnancy only
- 38 Midwife Obstetrics
- 39 Midwife Early pregnancy only
- 40 Retired
- 41 42

3. In what country do you practice? (please state below)

- 43 Afghanistan
- 44 Albania
- 45 Algeria
- 46 Andorra
- 47 Angola

- 1 Antigua and Barbuda
- 2 Argentina
- 3 Armenia
- 4 Australia
- 5 Austria
- 6 Azerbaijan
- 7 The Bahamas
- 8 Bahrain
- 9 Bangladesh
- 10 Barbados
- 11 Belarus
- 12 Belgium
- 13 Belize
- 14 Benin
- 15 Bhutan
- 16 Bolivia
- 17 Bosnia and Herzegovina
- 18 Botswana
- 19 Brazil
- 20 Brunei
- 21 Bulgaria
- 22 Burkina Faso
- 23 Burundi
- 24 Cabo Verde
- 25 Cambodia
- 26 Cameroon
- 27 Canada
- 28 Central African Republic
- 29 Chad
- 30 Chile
- 31 China
- 32 Colombia
- 33 Comoros
- 34 Congo, Democratic Republic of the
- 35 Congo, Republic of the
- 36 Costa Rica
- 37 Côte d'Ivoire
- 38 Croatia
- 39 Cuba
- 40 Cyprus
- 41 Czech Republic
- 42 Denmark
- 43 Djibouti
- 44 Dominica
- 45 Dominican Republic
- 46 East Timor (Timor-Leste)
- 47 Ecuador

- 1 Egypt
- 2 El Salvador
- 3 Equatorial Guinea
- 4 Eritrea
- 5 Estonia
- 6 Eswatini
- 7 Ethiopia
- 8 Fiji
- 9 Finland
- 10 France
- 11 Gabon
- 12 The Gambia
- 13 Georgia
- 14 Germany
- 15 Ghana
- 16 Greece
- 17 Grenada
- 18 Guatemala
- 19 Guinea
- 20 Guinea-Bissau
- 21 Guyana
- 22 Haiti
- 23 Honduras
- 24 Hungary
- 25 Iceland
- 26 India
- 27 Indonesia
- 28 Iran
- 29 Iraq
- 30 Ireland
- 31 Israel
- 32 Italy
- 33 Jamaica
- 34 Japan
- 35 Jordan
- 36 Kazakhstan
- 37 Kenya
- 38 Kiribati
- 39 Korea, North
- 40 Korea, South
- 41 Kosovo
- 42 Kuwait
- 43 Kyrgyzstan
- 44 Laos
- 45 Latvia
- 46 Lebanon
- 47 Lesotho

- 1 Liberia
- 2 Libya
- 3 Liechtenstein
- 4 Lithuania
- 5 Luxembourg
- 6 Madagascar
- 7 Malawi
- 8 Malaysia
- 9 Maldives
- 10 Mali
- 11 Malta
- 12 Marshall Islands
- 13 Mauritania
- 14 Mauritius
- 15 Mexico
- 16 Micronesia, Federated States of
- 17 Moldova
- 18 Monaco
- 19 Mongolia
- 20 Montenegro
- 21 Morocco
- 22 Mozambique
- 23 Myanmar (Burma)
- 24 Namibia
- 25 Nauru
- 26 Nepal
- 27 Netherlands
- 28 New Zealand
- 29 Nicaragua
- 30 Niger
- 31 Nigeria
- 32 North Macedonia
- 33 Norway
- 34 Oman
- 35 Pakistan
- 36 Palau
- 37 Panama
- 38 Papua New Guinea
- 39 Paraguay
- 40 Peru
- 41 Philippines
- 42 Poland
- 43 Portugal
- 44 Qatar
- 45 Romania
- 46 Russia
- 47 Rwanda

- 1 Saint Kitts and Nevis
- 2 Saint Lucia
- 3 Saint Vincent and the Grenadines
- 4 Samoa
- 5 San Marino
- 6 Sao Tome and Principe
- 7 Saudi Arabia
- 8 Senegal
- 9 Serbia
- 10 Seychelles
- 11 Sierra Leone
- 12 Singapore
- 13 Slovakia
- 14 Slovenia
- 15 Solomon Islands
- 16 Somalia
- 17 South Africa
- 18 Spain
- 19 Sri Lanka
- 20 Sudan
- 21 Sudan, South
- 22 Suriname
- 23 Sweden
- 24 Switzerland
- 25 Syria
- 26 Taiwan
- 27 Tajikistan
- 28 Tanzania
- 29 Thailand
- 30 Togo
- 31 Tonga
- 32 Trinidad and Tobago
- 33 Tunisia
- 34 Turkey
- 35 Turkmenistan
- 36 Tuvalu
- 37 Uganda
- 38 Ukraine
- 39 United Arab Emirates
- 40 United Kingdom
- 41 United States
- 42 Uruguay
- 43 Uzbekistan
- 44 Vanuatu
- 45 Vatican City
- 46 Venezuela
- 47 Vietnam

1 Yemen 2 Zambia 2 Zimbabwe 4 • 4 • 7 No 9 5. If you answered no, which society or professional body did you receive this survey from? 10 Open box answer 11 Demographics 12 Demographics 13 The set were you? (please state number of years) 16 Numbers offered 17 7. What sex were you assigned at birth? (please choose one option) 19 Male 10 Fernale 11 Intersex 12 Prefer not to say 13 Berder do you most identify with? (please choose one option) 14 Male 15 6. What gender do you most identify with? (please choose one option) 16 Male 17 Prefer not to say 18 Underlving medical conditions 19 9. Do you have any underlying medical conditions that place you at increased risk during the SARS-CoV-2 pandemic? (please tick all that apply) 10 None 14 Hapertension <		
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45 46		
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	47	

1	
2	Medication
3 4	an Averyou taking any of the following mediantians? (places tick all that apply)
4 5	10. Are you taking any of the following medications? (please tick all that apply) None
5 6	Immunosuppressant medication - steroids
0 7	Immunosuppressant medication - methotrexate
8	Immunosuppressant medication - hieritotrexate
8 9	Aspirin
9 10	Indomethacin
11	Any other non-steroidal anti-inflammatory drugs (NSAIDS) e.g. ibuprofen, diclofenac,
12	naproxen
12	Angiotensin converting enzyme inhibitors (ACEi) blood pressure medication - any ending in -
13	pril (e.g. enalapril)
15	Any other blood pressure medication e.g. angiotensin receptor blockers (ARB), alpha
16	blockers, alpha-2 receptor agonists, beta blockers, combined alpha and beta blockers,
17	calcium channel blockers (CCB), diuretics, other
18	
19	
20	Smoking and BMI
21	
22	11. Do you smoke? (please choose one option)
23	Yes
24	Previously – now stopped
25	No
26	
27	12. What was your last measured weight? (please choose one option)
28	<i>In kilograms (kg) –</i> numbers offered
29	
30	13. What is your height? (please choose one option)
31	<i>In centimetres (cm)</i> – numbers offered
32	
33	Role, shift pattern, PPE
34	
35	14. How has your role and shift pattern been affected by the SARS-CoV-2 pandemic?
36	(please choose one option)
37	Unable to work for the duration of the pandemic
38	Reduced duties with no patient contact
39	Reduced duties with reduced patient contact
40	Reduced duties with similar patient contact
41	Reduced duties with increased patient contact
42	Similar duties with no patient contact
43	Similar duties with reduced patient contact
44	Similar duties with similar patient contact
45	Similar duties with increased patient contact
46	Increased duties with no patient contact
47	Increased duties with reduced patient contact

- 1 Increased duties with similar patient contact
- 2 Increased duties with increased patient contact
- 3
- 4
- 15. Where are you working during the SARS-CoV-2 pandemic? (please tick all that apply)
- 5
- 6 Obstetrics Labor ward
- 7 Obstetrics Birth center
- 8 Obstetrics Antenatal ward
- 9 Obstetrics Postnatal ward
- 10 Obstetrics Maternity triage
- 11 Obstetrics Antenatal clinic
- 12 Obstetrics Maternity helplines
- 13 Obstetrics Community clinics
- 14 Obstetrics Ultrasound
- 15 Gynecology Acute gynecology
- 16 Gynecology Benign gynecology
- 17 Gynecology Oncology
- 18 Gynecology Ultrasound
- 19 Early pregnancy unit Ultrasound and assessment
- 20 Radiology Ultrasound
- 21 Radiology non-ultrasound
- 22 Obstetrics/Gynecology/Radiology From home
- 23
- 16. Do you interact with patients confirmed or suspected to have SARS-CoV-2? (pleasechoose one option)
- 26 Yes every day
- 27 Yes every week
- 28 Yes every so often
- 29 I don't know
- 30 Not yet
- 31 No
- 32 33

34

17. Have you been using personal protective equipment (PPE) since the SARS-CoV-2 outbreak? (please choose one option)

- 35 No
- 36 Not yet
- 37 Yes for aerosol generating procedures only
- 38 Yes for suspected/positive patients only
- 39 Yes for all patients
- 40
- 41 18. When you perform an ultrasound scan please state what PPE you use: (please tick
 42 all that apply)
- 43 None
- 44 Gloves
- 45 Surgical mask
- 46 N95/FFP3 mask
- 47 Gown

1	Visor
2	Surgical hat
3	
4	19. Have there been any concerns regarding PPE provision or shortages since the
5	SARS-CoV-2 outbreak? (note – Full PPE includes a N95/FFP3 mask, visor, surgical
6	hat, gown and gloves) (please tick all that apply)
7	No issues with provision
8	Yes – supply issues with gloves
9	Yes – supply issues with surgical masks
10	Yes – supply issues with N95/FFP3 masks
11	Yes – supply issues with gowns
12	Yes – supply issues with visors
13	Yes – supply issues with surgical hats
14	Yes – supply issues with providing patients with a surgical mask
15	
16	20. Have you been asked to re-use or recycle any PPE? (please tick all that apply
17	option)
18	No
19	Yes - Gloves
20	Yes - Surgical mask
21	Yes - N95/FFP3 mask
22	Yes - Gown
23	Yes - Visor
24	Yes - Surgical hat
25	
26	21. Do you ask patients to wear a surgical mask? (please choose one option)
27	Yes
28	No
29 20	
30	
31	SARS-CoV-2 diagnosis
32	
33	22. Have you had or do you have SARS-CoV-2 based on clinical symptoms and/or a
34 25	SARS-CoV-2 swab (PCR) diagnosis? (please choose one option) No – no test or symptoms suggestive of SARS-CoV-2
35 36	Yes – suspected based on symptoms but have not had PCR swab testing
30 37	Yes – suspected based on symptoms but have not had PCR swab testing
37	Yes – confirmed on PCR swab testing but have had no symptoms
38 39	Yes – suspected based on symptoms and confirmed on PCR swab testing
39 40	res – suspected based on symptoms and commed on PCK swab testing
40	23. With regards to having a SARS-CoV-2 swab test, please choose one option:
42	Not been offered
43	Offered as experiencing symptoms
44	Offered as in contact with confirmed or probable SARS-CoV-2 patients
45	Offered as living with someone who has probable or confirmed SARS-CoV-2
46	Not applicable
47	

1 24. What symptoms have you experienced or are you experiencing? (please tick all 2 that apply) 3 None 4 High fever 5 Persistent dry cough 6 Productive cough 7 Shortness of breath/Difficulty breathing 8 Fatigue 9 Headache 10 Loss of sense of smell and/or taste 11 Sore throat 12 Chest pain 13 Diarrhoea 14 Myalgia 15 Loss of appetite 16 Hoarse voice 17 Abdominal pain 18 19 Personal SARS-CoV-2 pathway 20 21 25. At what point were you offered a SARS-CoV-2 swab? (please state number of days 22 into your illness with day 1 being the day you started to have symptoms. If you 23 have not had symptoms - please choose 'not had symptoms'. If you were not 24 offered a test, please choose 'not offered a test') 25 Not had symptoms 26 Not offered a test 27 Not applicable 28 Numbers offered 29 30 26. How severe was/is your infection? (please choose one option) 31 Mild COVID-19 (T< 37.8 oC, tiredness, muscle aches, headache, no breathlessness, normal 32 appetite) 33 Moderate COVID-19 (T> 37.8 oC, troublesome cough, breathless on exercise, tired but no chest or abdominal pain) 34 35 Severe COVID-19 (T> 37.8 oC, noticeably breathless even when sitting still, unable to 36 complete sentences when talking, chest or abdominal pain, reduced appetite) 37 Critical COVID-19 (development of severe acute respiratory syndrome in need of ventilator 38 or other respiratory support) 39 Not applicable 40 41 27. How long were you or have you been symptomatic for? (please state number of 42 days. If you have not had symptoms – please choose 'not had symptoms') 43 Not had symptoms 44 Numbers offered 45

1	28. How long did you stay at home before going back to work, or if current infection,
2	how long have you been at home for? (please state number of days. If you have
3	not had symptoms – please choose 'not had symptoms')
4	Not had symptoms
5	Numbers offered
6	
7	29. Did you or do you feel under pressure from your employers to return to work
8	before making a full recovery? (please choose one option)
9	Yes
10	No
11	Not applicable
12	and the second se
13	30. If you have been unwell with presumed or confirmed SARS-CoV-2, how long were
14	you advised to stay at home by your employers before going back to work? (please
15	state number of days. If you have not had symptoms – please choose 'not had
16	symptoms')
17	Not had symptoms
18	Numbers offered
19	
20	31. Have you had a SARS-CoV-2 antibody test? (please choose one option)
21	No – no test or symptoms suggestive of SARS-CoV-2
22	No – not offered
23	No – offered and declined
24	Yes – negative
25	Yes – positive
26	
27	
28	Household
29	
30	32. Have you needed to, or are you currently self-isolating due to a member of your
31	household having suspected or confirmed SARS-CoV-2? (please choose one option)
32	Yes
33	No
34	
35	33. How long did you need or have you needed to self-isolate due to a member of your
36	household having suspected or confirmed SARS-CoV-2? (please state number of
37	days. If your household has been well - please choose 'household has been well')
38	Household has been well
39	Numbers offered
40	Numbers offered
41	
42	
43	
43 44	
44 45	
46	
40 47	
т/	

1 Colleagues

2 3

4

34. How many colleagues do you work with in your unit? (please state number of each group. Select 'unsure' if you do not know)

- 5 Sonographers
- 6 Consultants
- 7 Doctors in training
- 8 Doctors in research
- 9 Nurses
- 10 Midwifes
- 11 Unsure
- 12 Numbers offered
- 13
- 1435. To your knowledge, how many colleagues are you aware of in your unit that have15had a presumed diagnosis of SARS-CoV-2 based on symptoms or a positive swab?16(please state number of each group. Select 'unsure' if you have no information)
- 17 Sonographers
- 18 Consultants
- 19 Doctors in training
- 20 Doctors in research
- 21 Nurses
- 22 Midwifes
- 23 Unsure
- 24 Numbers offered
- 25
- 2636. To your knowledge, how many colleagues have needed to self-isolate or are self-27isolating due to a member of their household having suspected or confirmed SARS-
- 28 CoV-2? (please state number of each group. Select 'unsure' if you have no
 29 information)
- 30 Sonographers
- 31 Consultants
- 32 Doctors in training
- 33 Doctors in research
- 34 Nurses
- 35 Midwifes
- 36 Unsure
- 37 Numbers offered
- 38
- 39 37. What is the longest period of time any of your colleagues have taken off in
 40 isolation because they or a household member have suspected or confirmed SARS-
- 41 CoV-2? (please state number of days. Select 'unsure' if you have no information)
- 42 Unsure
- 43 Numbers offered
- 44
- 45
- 46 47

1	<u>Support</u>
2	
3 4	38. Have you felt or do you feel adequately supported by your unit during the SARS- CoV-2 pandemic? (please choose one option)
5	Yes
6	No
7	
8 9	39. How do you rate the response and support that was provided by your country's Ministry of Health or Public Health officials? (please answer using the scale below)
10	0 - Extremely poor
11	50 - Adequate
12	100 - Excellent
13	
14	
15	40. Please tell us, if you wish, your views regarding how well clinician safety has been
16	protected by your employers (please state in the text box below. If you choose not
17	to answer, please write 'not applicable')
18	Open box answer
19	open box answer
20	
20	Hospital Anxiety and Depression Scale (HADS)
22	nospital Anxiety and Depression Scale (NADS)
23 24 25	41. Thank you for filling out this questionnaire. Optional: Hospital Anxiety and Depression Scale (HADS). If you are willing to
26	proceed, please click yes. Otherwise, click no to end the survey.
20 27	Yes
28	No
29	
30	
31 32	Hospital Anxiety and Depression Scale (HADS)
33	42. Choose the reply that is closest to how you have been feeling in the past week.
34	Don't take too long over your replies: your immediate is best.
35	bon t take too long over your replies. your ininediate is best.
36	I feel tense or 'wound up':
37	Most of the time
38	A lot of the time
39	From time to time, occasionally
40	Not at all
41	
42	43. Choose the reply that is closest to how you have been feeling in the past week.
42	Don't take too long over your replies: your immediate is best.
43 44	Don't take too long over your replies, your inimediate is Dest.
44 45	I still onion the things I used to onion
	I still enjoy the things I used to enjoy:
46	Definitely as much
47	Not quite as much

1	
1	Only a little
2	Hardly at all
3 4	44. Choose the reply that is closest to how you have been feeling in the past week.
4 5	Don't take too long over your replies: your immediate is best.
6	
7	I get a sort of frightened feeling as if something awful is about to happen:
8	Very definitely and quite badly
9	Yes, but not too badly
10	A little, but it doesn't worry me
11	Not at all
12	
13	45. Choose the reply that is closest to how you have been feeling in the past week.
14	Don't take too long over your replies: your immediate is best.
15	
16	I can laugh and see the funny side of things:
17	As much as I always could
18	Not quite so much now
19	Definitely not so much now
20	Not at all
21	
22	46. Choose the reply that is closest to how you have been feeling in the past week.
23	Don't take too long over your replies: your immediate is best.
24	
25	Worrying thoughts go through my mind:
26	A great deal of the time
27	A lot of the time
28	From time to time, but not too often
29	Only occasionally
30	
31	47. Choose the reply that is closest to how you have been feeling in the past week.
32	Don't take too long over your replies: your immediate is best.
33	
34	l feel cheerful:
35	Not at all
36	Not often
37	Sometimes
38	Most of the time
39	
40	48. Choose the reply that is closest to how you have been feeling in the past week.
41	Don't take too long over your replies: your immediate is best.
42	
43	I can sit at ease and feel relaxed:
44	Definitely
45	Usually
46	Not often
47	Not at all

1 2 3 4 5 6	49. Choose the reply that is closest to how you have been feeling in the past week. Don't take too long over your replies: your immediate is best. I feel as if I am slowed down: Nearly all the time
7	Very often
8	Sometimes
9 10	Not at all
10 11 12 13	50. Choose the reply that is closest to how you have been feeling in the past week. Don't take too long over your replies: your immediate is best.
14	I get a sort of frightened feeling like 'butterflies' in the stomach:
15	Not at all
16	Occasionally
17	Quite often
18	Very often
19 20 21 22	51. Choose the reply that is closest to how you have been feeling in the past week. Don't take too long over your replies: your immediate is best.
23	I have lost interest in my appearance:
24	Definitely
25	I don't take as much care as I should
26	I may not take quite as much care
27	I take just as much care as ever
28	
29 30 31	52. Choose the reply that is closest to how you have been feeling in the past week. Don't take too long over your replies: your immediate is best.
32	I feel restless as I have to be on the move:
33	Very much indeed
34	Quite a lot
35	Not very much
36	Not at all
37	
38	53. Choose the reply that is closest to how you have been feeling in the past week.
39 40	Don't take too long over your replies: your immediate is best.
40	Llook forward with an avmant to things
41 42	I look forward with enjoyment to things: As much as I ever did
42 43	Rather less than I used to
44	Definitely less than I used to
45	Hardly at all
46	
47	

1 54. Choose the reply that is closest to how you have been feeling in the past week.

- 2 Don't take too long over your replies: your immediate is best.
- 3
- 4 I get sudden feelings of panic:
- 5 Very often indeed
- 6 Quite often
- 7 Not very often
- 8 Not at all
- 9
- 10 55. Choose the reply that is closest to how you have been feeling in the past week.
- 11 Don't take too long over your replies: your immediate is best.
- 12
- 13 I can enjoy a good book or radio or TV program:
- 14 Often
- 15 Sometimes
- 16 Not often
- 17 Very seldom
- 18
- 19
- 56. Thank you for filling out this questionnaire. Please complete last question to end.
 Please tell us, if you wish, how you have felt emotionally during the SARS-CoV-2
 pandemic? (please state in the text box below. If you choose not to answer, please
 write 'not applicable')
- 24 Open box answer
- 25
- 26
- 27

1	Supplement 2: Original study protocol
2	Title: An international survey of the impact of COVID19 on healthcare professionals carrying
3	out ultrasonography, service provision and mental state in Obstetrics and Gynecology
4	
5	Date: 19 th April 2020
6	
7	Main Sponsor: UZ Leuven Belgium
8	Carried out in collaboration with: International Society of Ultrasound in Obstetrics and
9	Gynecology (ISUOG)
10	Version number: 1
11	Principal Investigators: Professor Tom Bourne and Professor Dirk Timmerman
12	Co-Investigators: Dr Christopher Kyriacou, Dr Harsha Shah
12	
	Protocol to be assessed by: EC Onderzoek UZ Leuven, Belgium.
14	
15	Design: Prospective cohort observational survey study.
16	
17	Aim: To assess the services and psychological impact of the COVID-19 pandemic to
18	healthcare professionals carrying out ultrasonography within the Obstetrics and Gynecology
19	specialty.
20	
21	Hypothesis:
22	1. Service provision to support healthcare professionals during the COVID-19 pandemic
23	varies considerably in every unit globally;
24	Healthcare professionals will have experienced COVID-19 first-hand;
25	3. The COVID-19 pandemic has caused significant psychological distress to healthcare
26	professionals which can be assessed using a validated psychological tool.
27	
28	Outcome measures:
29	1. A questionnaire to healthcare professionals detailing medical history, role, area of
30	work, personal protective equipment (PPE), COVID-19 patient contact and personal
31	COVID-19 experience will allow data to be collected in relation to the physical impact
32	of the COVID-19 pandemic;
33	2. Use of the validated Hospital Anxiety and Depression Scale (HADS) will allow
34	psychological morbidity of healthcare professionals to be assessed.
35	
36	Eligibility: Members of ISUOG that fill in the questions via an online survey platform. The
37	questionnaire will in English, Spanish, Greek, Hindu, Mandarin and Cantonese.
38	
39	Duration: The survey will be conducted over a period of two weeks in order to allow time
40	for the questions to be answered, two reminder emails will be sent – one at a week before
40	closure and one 24 hours before closure
41	
	Concent: Concent will be implied when the question naive is filled in and there will be a
43	Consent: Consent will be implied when the questionnaire is filled in and there will be a
44 45	specific question asking for consent to take part in the survey, however all information is
45	anonymized and cannot be traced to an individual. No data will be requested that is in
46	breach of General Data Protection Regulation (GDPR).
47	

1 Background: The current coronavirus (SARS-CoV-2) pandemic carries a number of new 2 challenges to local, national and international healthcare agencies in order to protect 3 patients and healthcare professionals (physicians, sonographers, allied healthcare 4 professionals). Guidance varies from nation to nation with issues arising from redeployment 5 of clinicians, prioritization of particular services and provision of PPE. This is important as 6 those carrying out ultrasound scans are in close proximity to patients and are at high risk of 7 SARS-CoV-2 infection¹. 8 Anxiety and depression are recognized complications for healthcare professionals working 9 in a high-stress environment, particularly one that now encompasses a novel disease for 10 which we have yet to fully understand². 11 12 Methods: This is a prospective cohort study and will recruit via the dissemination of a 13 survey online through the ISUOG mailing list. Consent will be presumed when the form is 14 filled in and submitted. This will allow healthcare professionals globally to answer. The 15 questionnaire has been devised to assess the service provision in units around the world as 16 well as question personal COVID-19 experience. Following on from this will be an optional 17 HADS. The HADS is a 14-part questionnaire with 7 questions exploring symptoms of anxiety 18 and depression, respectively. Each question is answered with a scale of 0-3 to represent 19 severity of symptoms, with an independent maximum score of 21 for depression and 20 anxiety. A score ≥ 11 is deemed moderate, whilst ≥ 16 represents severe symptoms³. 21 22 Statistics and data analysis: Sample size will be dependent on the number of online 23 responders. We hope that there will be significant uptake from a number of countries 24 globally. The recruitment will be online so no breach to social distancing rules will apply. To 25 compare differences in binary variables we will use the likelihood ratio, chi-squared or 26 Fisher's exact test and will consider a p value <0.05 as statistically significant. Ninety-five per 27 cent confidence intervals for rates of psychological morbidity will be created using the 28 Wilson method. 29 30 Dissemination: Following the collection and analysis of the data obtained from the 31 questionnaire, we aim to present the findings to the ISUOG membership and publish in 32 peer-reviewed journals – preferably Ultrasound in Obstetrics and Gynecology. The need to 33 understand the experience of the pandemic by frontline workers is extremely important, 34 not only to support them now, but to prepare for any future international healthcare 35 emergency. 36 37 References 38 1. Abramowicz JS, Basseal JM, Brezinka C, Dall'Asta A, Deng J, Harrison G, Marsal K, Lee

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1 Supplement 3: Breakdown of healthcare professional (HCP) roles for analysis.

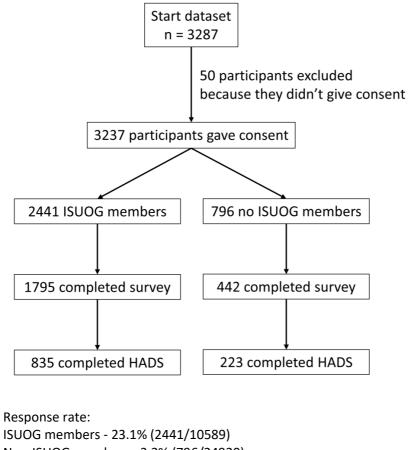
Job title	
Doctor in research – Gynecology	Split up based on age: trainees/residents and consultants/attending
Doctor in research – Obstetrics	Split up based on age: trainees/residents and consultants/attending
Doctor in research – Obstetrics and Gynecology	Split up based on age: trainees/residents and consultants/attending
Doctor in research – Radiology/Sonologist	Split up based on age: trainees/residents and consultants/attending
Doctor in training – Gynecology	Split up based on age: trainees/residents and consultants/attending
Doctor in training – Obstetrics	Split up based on age: trainees/residents and consultants/attending
Doctor in training – Obstetrics and Gynecology	Split up based on age: trainees/residents and consultants/attending
Doctor in training – Radiologist/Sonologist	Split up based on age: trainees/residents and consultants/attending
Gynecologist	Split up based on age: trainees/residents and consultants/attending
Midwife – Early pregnancy only	Sonographer
Midwife – Obstetrics	Sonographer
Nurse – Early pregnancy only	Sonographer
Nurse – Gynecology	Sonographer
Nurse – Obstetrics	Sonographer
Nurse – Obstetrics and Gynecology	Sonographer
Obstetrician	Split up based on age: trainees/residents and consultants/attending
Obstetrician and Gynecologist	Split up based on age: trainees/residents and consultants/attending
Radiologist/Sonologist	Split up based on age: trainees/residents and consultants/attending
Retired	Exclude from analyses
Sonographer – Gynecology	Sonographer
Sonographer – Obstetrics	Sonographer
Sonographer – Obstetrics and Gynecology	Sonographer

1 Supplement 4: Breakdown of risk by area of work for analysis.

Areas of work	Risk of COVID-19 infection
Early pregnancy unit - Ultrasound and assessment	High risk
Gynecology - Acute Gynecology	High risk
Gynecology - Benign Gynecology	Low risk
Gynecology – Oncology	Low risk
Gynecology - Ultrasound	High risk
Obstetrics/Gynecology/Radiology - From home	Low risk
Obstetrics - Antenatal clinic	Moderate risk
Obstetrics - Antenatal ward	Moderate risk
Obstetrics - Birth center/Birthing center	High risk
Obstetrics - Community clinics	Moderate risk
Obstetrics - Labor ward	High risk
Obstetrics - Maternity helplines	Low risk
Obstetrics - Maternity triage/Hospital obstetric triage	High risk
Obstetrics - Postnatal ward	Moderate risk
Obstetrics – Ultrasound	High risk
Radiology - non-Ultrasound	Moderate risk
Radiology - Ultrasound	High risk

2

- 1 Supplement 5: Flowchart summarizing survey participants, differentiating International
- 2 Society of Ultrasound in Obstetrics and Gynecology (ISUOG) members and non-ISUOG
- 3 members (n = 3287).



- 8 Non-ISUOG members 3.2% (796/24920).
- 9 Abbreviations: HADS (Hospital Anxiety and Depression scale)
- 10

4 5 6

7

1 Supplement 6: Demographics of survey participation, differentiated based on

2 International Society of Ultrasound in Obstetrics and Gynecology (ISUOG) membership (n

3 **= 3237).**

	ISUOG members (n = 2441)	Others (n = 796)
Total ISUOG mailing list (n)	10589	24920
Response of total ISUOG mailing list (n, %)	2441 (23%)	796 (3%)
Countries (n)	120	78
Number of respondents in English (n)	1603	357
Number of respondents in Spanish (n)	564	317
Number of respondents in Italian (n)	195	72
Number of respondents in French (n)	79	50
Completed survey	1795	442
Countries (n)	110	65
Age (mean, range)	47.2 (18-82)	47.7 (25-78)
≤20 years	1 (0%)	0 (0%)
21-30 years	95 (5%)	22 (5%)
31-40 years	454 (25%)	104 (24%)
41-50 years	549 (31%)	137 (31%)
51-60 years	475 (26%)	121 (28%)
61-70 years	201 (11%)	50 (11%)
>70 years	18 (1%)	6 (1%)
Gender (n, %)		
Female	1176 (66%)	298 (68%)
Male	613 (34%)	142 (32%)
Intersex	1 (0%)	0 (0%)
Prefer not to say	3 (0%)	0 (0%)
Prevalence suspected or confirmed SARS-CoV-2 based on symptoms +/- PCR testing (%)	230 (13%)	60 (14%)
Is PPE used by res	pondents (n, %)	
Not yet	217 (12%)	62 (14%)
Yes - for aerosol generating procedures only	110 (6%)	23 (5%)
Yes - for all patients	1142 (64%)	250 (57%)
Yes - for suspected/positive patients only	324 (18%)	105 (24%)
What PPE is used by	respondents (n, %)	
None	59 (3%)	17 (4%)
Gloves only	38 (2%)	11 (3%)
Gloves + surgical mask	393 (22%)	104 (24%)
Gloves + surgical mask + visor	116 (6%)	36 (8%)
Gloves + FFP3 mask	83 (5%)	12 (3%)
Gloves + FFP3 mask + visor	39 (2%)	12 (3%)
Gloves + FFP3 mask + visor + gown + surgical hat	70 (4%)	20 (5%)

Patient wearing mask	1482 (83%)	359 (82%)
5		559 (82%)
	regarding a lack of PPE (n, %)	
No	475 (26%)	104 (24%)
Gloves	223 (12%)	55 (13%)
Gown	499 (28%)	130 (30%)
N95/FFP3 mask	1014 (57%)	265 (60%)
Surgical hat	187 (10%)	46 (10%)
Surgical mask	657 (37%)	163 (37%)
Visor	458 (26%)	124 (28%)
Surgical mask (patient)	479 (27%)	130 (30%)
Type of PPE that	has been re-used or recycled (n, %)	
No	690 (38%)	175 (40%)
Gloves	27 (2%)	7 (2%)
Gown	229 (13%)	58 (13%)
N95/FFP3 mask	722 (40%)	164 (37%)
Surgical hat	74 (4%)	18 (4%)
Surgical mask	435 (24%)	130 (30%)
Visor	493 (27%)	128 (29%)
Anxiety (mean, 95% CI)*	7 (6.7-7.3)	6.6 (6.1-7.1)
0-7 (none)	480 (57%)	140 (63%)
8-10 (mild)	180 (22%)	49 (22%)
11-21 (moderate to severe)	175 (21%)	34 (15%)
Depression (mean, 95% CI)*	5.4 (5.2-5.7)	4.9 (4.4-5.4)
0-7 (none)	587 (70%)	173 (78%)
8-10 (mild)	171 (20%)	34 (15%)
11-21 (moderate to severe)	77 (9%)	16 (7%)

1 *Numbers of HADS respondents lower than for main survey (n = 835 ISUOG members, n = 223 Others)

2 Abbreviations: PCR (Polymerase Chain Reaction); PPE (Personal Protective Equipment)

1 Supplement 7: Comparison of comorbidity in those with (n = 290) and without suspected 2 or confirmed SARS-CoV-2 (n = 1947) (Total n = 2237).

	Suspected or confirmed SARS- CoV-2	Without suspected or confirmed SARS-CoV-2
Heart disease (n, %)	3 (1%)	43 (2%)
Lung disease (n %)	30 (10%)	160 (8%)
Use of antihypertensives (n, %)	39 (13%)	283 (15%)
Smokers (n, %)	13 (4%)	125 (6%)

1 Supplement 8: Comparison of Hospital Anxiety and Depression scale (HADS) scores in

2 those with (n = 162) and without suspected or confirmed SARS-CoV-2 (n = 896) (Total n =

3 **1058).**

	Suspected or confirmed SARS- CoV-2	Without suspected or confirmed SARS-CoV-2
Anxiety (mean, 95% Cl)	7.4 (6.7-8.0)	6.8 (6.6-7.1)
0-7 (none)	86 (53%)	534 (60%)
8-10 (mild)	32 (20%)	197 (22%)
11-21 (moderate to severe)	44 (27%)	165 (18%)
Depression (mean, 95% CI)	5.8 (5.2-6.4)	5.2 (5.0-5.5)
0-7 (none)	105 (65%)	655 (73%)
8-10 (mild)	37 (23%)	168 (19%)
11-21 (moderate to severe)	20 (12%)	73 (8%)

4

1 Supplement 9: Hospital Anxiety and Depression scale (HADS) breakdown by gender (n =

2 **1058).**

	Female	Male	Prefer not to say
Number of respondents (n, %)	754 (71%)	303 (29%)	1 (0%)
Anxiety (mean, 95% CI)*	6.9 (6.6-7.2)	5.7 (5.3-6.2)	-
0-7 (None) (n, %)	450 (60%)	202 (67%)	1 (100%)
8-10 (Mild) (n, %)	148 (20%)	60 (20%)	0 (0%)
11-21 (Moderate to severe) (n, %)	156 (21%)	41 (14%)	0 (0%)
Depression (mean, 95% CI)*	5.4 (5.2-5.7)	5.0 (4.6-5.4)	-
0-7 (none) (n, %)	529 (70%)	230 (76%)	1 (100%)
8-10 (mild) (n, %)	146 (19%)	59 (19%)	0 (0%)
11-21 (moderate to severe) (n, %)	79 (10%)	14 (5%)	0 (0%)

1 Supplement 10: Hospital Anxiety and Depression scale (HADS) breakdown by risk of 2 working area (n = 1058).

	Low risk	Moderate risk	High risk
Number of respondents (n, %)	23 (2%)	28 (3%)	1007 (95%)
Anxiety (mean, 95% CI)*	8.3 (6.3-10.3)	5.1 (3.6-6.6)	6.6 (6.3-6.8)
0-7 (None) (n, %)	13 (57%)	21 (75%)	619 (61%)
8-10 (Mild) (n, %)	3 (13%)	3 (11%)	202 (20%)
11-21 (Moderate to severe) (n, %)	7 (30%)	4 (14%)	186 (18%)
Depression (mean, 95% CI)*	8.2 (6.0-10.3)	4.3 (2.7-5.8)	5.3 (5.0-5.5)
0-7 (none) (n, %)	12 (52%)	19 (68%)	729 (72%)
8-10 (mild) (n, %)	4 (17%)	6 (21%)	195 (19%)
11-21 (moderate to severe) (n, %)	7 (30%)	3 (11%)	83 (8%)

1 Supplement 11: Comparison of Hospital Anxiety and Depression scale (HADS) scores in

2 those with (n = 788) and without personal protective equipment (PPE) shortages (n = 270)

3 (Total n = 1058).

	PPE shortages	No PPE shortages
Anxiety (mean, 95% CI)	7.4 (7.1-7.7)	5.5 (5.0-6.0)
0-7 (none)	430 (55%)	190 (70%)
8-10 (mild)	183 (23%)	46 (17%)
11-21 (moderate to severe)	175 (22%)	34 (13%)
Depression (mean, 95% CI)	5.7 (5.5-6.0)	4.1 (3.7-4.5)
0-7 (none)	540 (69%)	220 (81%)
8-10 (mild)	167 (21%)	38 (14%)
11-21 (moderate to severe)	81 (10%)	12 (4%)