Delivery room technology

1 In which continent are you based?

Europe	**49** (81.7%)
North America	**4** (6.7%)
South America	**2** (3.3%)
Africa	**1** (1.7%)
Asia	**1** (1.7%)
Australasia	**3** (5%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

2 What is your role in newborn care?
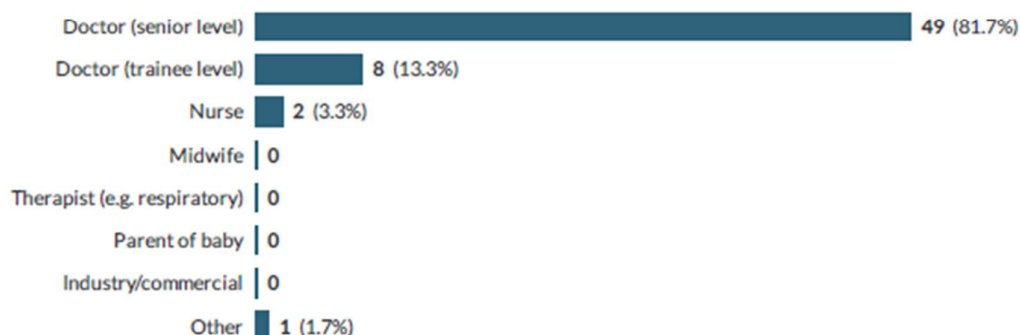
Doctor (senior level)	**49** (81.7%)
Doctor (trainee level)	**8** (13.3%)
Nurse	**2** (3.3%)
Midwife	0
Therapist (e.g. respiratory)	0
Parent of baby	0
Industry/commercial	0
Other	**1** (1.7%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

3 Compared to other areas of clinical medicine, technology in the delivery room in the last 5-10 years has:

3.1 Remained unchanged

Describe ████████████████████ 4 (7%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

3.2 Increased a little

Describe ████████████████████ 34 (57%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

3.3 Increased proportionately

Describe ████████████████████ 6 (10%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

3.4 Increased significantly

Describe ████████████████████ 16 (27%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

4 In the last 5-10 years, funding for delivery room technology development and research in my continent has been:

4.1 Poorly funded

Describe ████████████████████████ **39** (65%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

4.2 Adequately funded

Describe ████████████ **14** (23%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

4.3 Good funding

Describe ███████████ **7** (12%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

4.4 Excellent funding

Describe | **0**

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

5 How important are the following measures to you when using technologies in the delivery room?

5.1 Heart rate

Not important | 0
A little important | 0
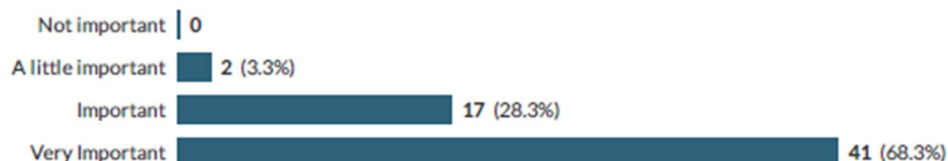Important | 13 (21.7%)
Very Important | 47 (78.3%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

5.2 Temperature

Not important | 1 (1.7%)
A little important | 3 (5%)
Important | 26 (43.3%)
Very Important | 30 (50%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

5.3 Oxygen saturations

Not important | 0
A little important | 2 (3.3%)
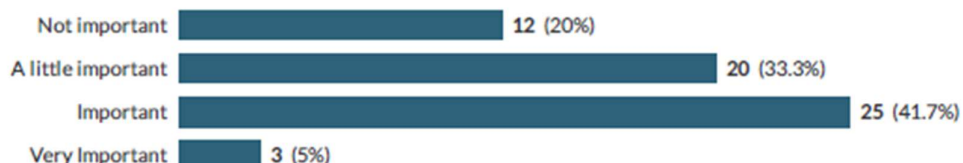Important | 17 (28.3%)
Very Important | 41 (68.3%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

5.4 Cerebral saturations

Not important | 18 (30%)
A little important | 19 (31.7%)
Important | 21 (35%)
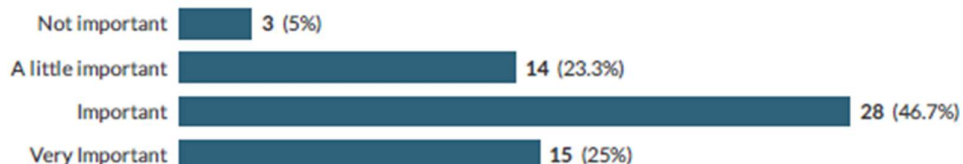Very Important | 2 (3.3%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

5.5 Exhaled carbon dioxide

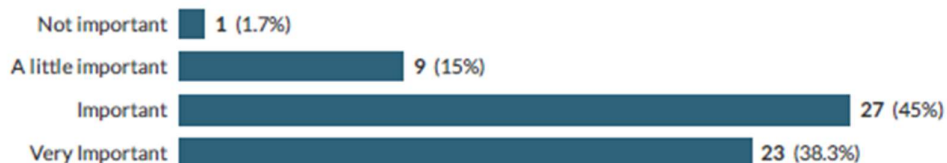| Option	Count (Percentage)
Not important	12 (20%)
A little important	20 (33.3%)
Important	25 (41.7%)
Very Important	3 (5%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

5.6 Tidal volumes

Option	Count (Percentage)
Not important	3 (5%)
A little important	14 (23.3%)
Important	28 (46.7%)
Very Important	15 (25%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

5.7 Mask leak

Option	Count (Percentage)
Not important	1 (1.7%)
A little important	9 (15%)
Important	27 (45%)
Very Important	23 (38.3%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)
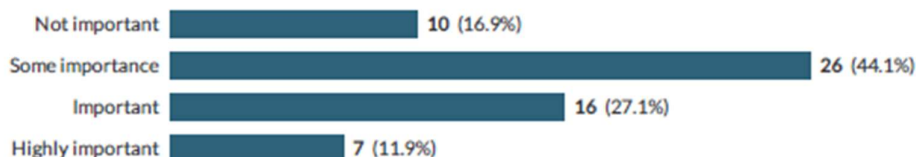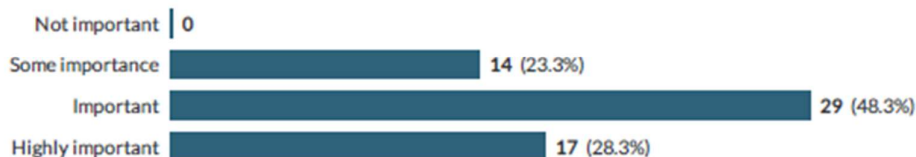
6 Rate the following delivery room technologies of the future in terms of their importance for the next 5 to 10 years.

6.1 Near-infrared spectroscopy

Option	Count (Percentage)
Not important	10 (16.9%)
Some importance	26 (44.1%)
Important	16 (27.1%)
Highly important	7 (11.9%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

6.2 Wireless multi-vital signs device

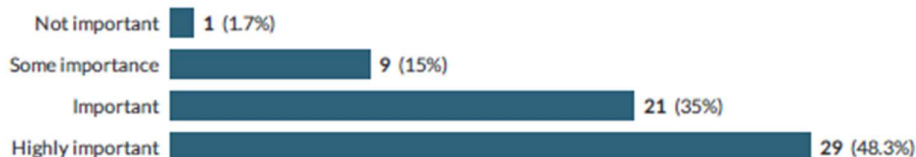| Option	Count (Percentage)
Not important	0
Some importance	14 (23.3%)
Important	29 (48.3%)
Highly important	17 (28.3%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

6.3 Lung aeration/recruitment device

Option	Count (Percentage)
Not important	1 (1.7%)
Some importance	9 (15%)
Important	21 (35%)
Highly important	29 (48.3%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

6.4 Contactless vital signs device

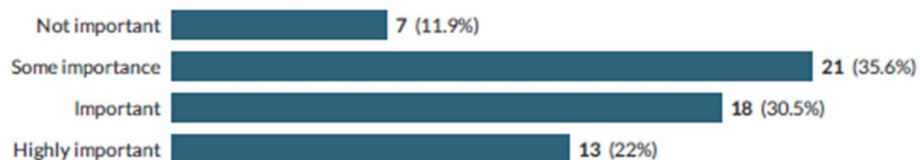| Option	Count (Percentage)
Not important	3 (5.2%)
Some importance	16 (27.6%)
Important	23 (39.7%)
Highly important	16 (27.6%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

6.5 Artificial intelligence linking delivery room data with outcomes

- Not important: **7** (11.9%)
- Some importance: **21** (35.6%)
- Important: **18** (30.5%)
- Highly important: **13** (22%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

6.6 Autonomous systems such as inspired oxygen

- Not important: **2** (3.4%)
- Some importance: **16** (27.1%)
- Important: **26** (44.1%)
- Highly important: **15** (25.4%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

6.7 Video analysis for training/audit

- Not important: **0**
- Some importance: **6** (10%)
- Important: **25** (41.7%)
- Highly important: **29** (48.3%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

6.8 Ex-uterine suuport systems (e.g. artificial womb)

- Not important: **14** (23.7%)
- Some importance: **25** (42.4%)
- Important: **15** (25.4%)
- Highly important: **5** (8.5%)

Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

7 Are there any other technologies you would like to see in the delivery room (state what it would be)?

Showing all 14 responses	
X-ray machinetechnology and Ultrasound technology. Lightsource on the resuscitator cot for fiberoptic bronchoscopy.	765557-765548-80162507
Video Laryngoscopes that are wireless	765557-765548-80169088
non-radiation imaging technologies / ultrasound /	765557-765548-80179298
Telemedicine for delivery room mgmt, ventilation devices (lma?)	765557-765548-80179965
https://jamanetwork.com/journals/jamapediatrics/article-abstract/2780513	765557-765548-80181697
A voice guide or APP to aid in resuscitation.	765557-765548-80195321
Augmented Reality, Decision-support tools, speech recognition, 3D printed devices, stress measurements/biometrics of providers	765557-765548-80196631
Non-invasive cardiac output measurement	765557-765548-80197188
Integrated cardiac function monitoring	765557-765548-80225314
perfusion	765557-765548-80255878
Light assessment to detect pneumothorax, perfusor, Ventilator, incubator/balance/Apgar	765557-765548-80382399
EIT to monitor lung aeration during transition	765557-765548-80742012
Concord Birth Trolley for physiological cord clamping	765557-765548-80745194
A respiratory function monitor can help in the interpretation of first minutes newborn behaviour and modulate interventions	765557-765548-80947004