

Appendix 1: Online Survey Questions

1. What is the name of the country on which you are reporting?
2. What is your name?
3. If you are completing this survey on behalf of someone else, what is his or her name?
4. Please write the email address that you would like us to use for future communications. Sometimes we need to ask for further detail or explanation.
5. Please write the phone number that you would like us to use for future communications (include the country and area codes)
6. Are there anaesthesia providers in [Q1]* who are physicians? A physician anaesthesia provider is any medical doctor who is providing anaesthesia.
7. Are there anaesthesia providers in [Q1] who are nurses?
8. Are there anaesthesia providers in [Q1] who are neither physicians nor nurses? This group needs careful description. These providers may be known as technicians, anaesthetic scientific officers or some similar name. please include only those who actually provide anaesthesia, either working under anaesthesiologist supervision or working alone. Please do not include those who only assist the main anaesthesia provider.
9. How many physicians, including those in training, are providing anaesthesia in [Q1]?
10. Of these, how many have an anaesthetic qualification?
11. How many are training for an anaesthetic qualification?
12. How many other physicians are providing anaesthesia? This may include surgeons or other doctors who have had no formal training in anaesthesia.
13. Does [Q1] offer anaesthetic training for physicians?
14. In [Q1] what is the minimum acceptable duration of anaesthetic training for a physician anaesthesia provider? This training could take place in either [Q1] or another country.
15. Please provide more information in the box if the duration of training is variable or training takes place in another country.
16. Who is mainly responsible for training the physician anaesthesia providers?
17. If these tick boxes do not adequately explain the training of physician anaesthesia providers, please give more information in the box.
18. How many nurses are providing anaesthesia in [Q1]**
19. What is the typical duration of anaesthesia training in years for nurse anaesthesia providers?
20. Who is mainly responsible for training the nurse anaesthesia providers?
21. If these tick boxes do not adequately explain the training of nurse anaesthesia providers, please give more information in the box.
22. How many non-physicians / non-nurses are providing anaesthesia in [Q1]**
23. What is the typical duration of anaesthesia training in years for non-physician / non-nurse anaesthesia providers?
24. Who is mainly responsible for training the non-physician / non-nurse anaesthesia providers?
25. If these tick boxes do not adequately explain the training of non-physician / non-nurse anaesthesia providers, please give more information in the box.
26. If [Q1] has anaesthesia provided by people who are not doctors, are any of them, either nurses or others giving anaesthesia on their own without being supervised by a physician anaesthesiologist?

27. Please make any general comments in the box about anaesthetic manpower and training in [Q1]. What are the good points? What are the main problems? How can these problems be addressed?

*Online survey autopopulates with name of country entered in first question.

**Online survey omits subsequent related questions if negative answer to this question.

Appendix 2: WHO Regional Groups

African Region (AFR)

Algeria, Angola, Benin, Botswana, Burkina Faso, Burundi, Cabo Verde, Cameroon, Central African Republic, Chad, Comoros, Congo (Republic of), Congo (The Democratic Republic of), Cote d'Ivoire, Equatorial Guinea, Eritrea, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mauritius, Mozambique, Namibia, Niger, Nigeria, Rwanda, Sao Tome And Principe, Senegal, Seychelles, Sierra Leone, South Africa, South Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zimbabwe.

Region of the Americas (AMR)

Antigua & Barbuda, Argentina, Bahamas, Barbados, Belize, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Suriname, Trinidad And Tobago, United States of America, Uruguay, Venezuela.

South East Asia Region (SEAR)

Bangladesh, Bhutan, India, Indonesia, Korea (The Democratic People's Republic of), Maldives, Myanmar, Nepal, Sri Lanka, Thailand, Timor Leste.

European Region (EUR)

Albania, Andorra, Armenia, Austria, Azerbaijan, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Luxembourg, Macedonia, Malta, Moldova, Monaco, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, San Marino, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tajikistan, Turkey, Turkmenistan, Ukraine, United Kingdom, Uzbekistan.

Eastern Mediterranean Region (EMR)

Afghanistan, Bahrain, Djibouti, Egypt, Iran, Iraq, Jordan, Kuwait, Lebanon, Libya, Morocco, Oman, Pakistan, Qatar, Saudi Arabia, Somalia, Sudan, Syria, Tunisia, United Arab Emirates, Yemen.

Western Pacific Region (WPR)

Australia, Brunei, Cambodia, China, Cook Islands, Fiji, Japan, Kiribati, Korea (Republic of), Lao, Malaysia, Marshall Islands, Micronesia (Federated States of), Mongolia, Nauru, New Zealand, Niue, Palau, Papua New Guinea, Philippines, Samoa, Singapore, Solomon Islands, Tonga, Tuvalu, Vanuatu, Vietnam.

Appendix 3: World Bank Income Groups

High Income Group

Andorra, Antigua and Barbuda, Australia, Austria, Bahamas, Bahrain, Barbados, Belgium, Bermuda*, British Virgin Islands*, Brunei, Canada, Cayman Islands*, Channel Islands*, Chile, Croatia, Curacao*, Cyprus, Czech Republic, Denmark, Estonia, Faroe Islands*, Finland, France, French Guiana*, French Polynesia*, Germany, Gibraltar*, Greece, Greenland*, Guam*, Hong Kong*, Hungary, Iceland, Ireland, Isle of Man*, Israel, Italy, Japan, Korea (Republic of), Kuwait, Latvia, Lithuania, Luxembourg, Macao SAR China*, Malta, Monaco, Nauru, Netherlands, New Zealand, Northern Mariana Islands*, Norway, Oman, Poland, Portugal, Puerto Rico*, Qatar, Saint Kitts and Nevis, San Marino*, Saudi Arabia, Seychelles, Singapore, Slovakia, Slovenia, Spain, Sweden, Switzerland, Taiwan*, Trinidad and Tobago, Turks and Caicos Islands*, United Arab Emirates, United Kingdom, United States of America, Uruguay, Virgin Islands*.

Upper Middle Income Group

Albania, Algeria, Angola, Argentina, Azerbaijan, Belarus, Belize, Bosnia and Herzegovina, Botswana, Brazil, Bulgaria, China, Colombia, Cook Islands, Costa Rica, Cuba, Dominican Republic, Equatorial Guinea, Ecuador, Fiji, Gabon, Georgia, Grenada, Guyana, Iran, Iraq, Jamaica, Jordan, Kazakhstan, Lebanon, Libya, Macedonia, Malaysia, Maldives, Marshall Islands, Mauritius, Mexico, Montenegro, Namibia, Niue, Palau, Panama, Paraguay, Peru, Romania, Russian Federation, Santa Lucia*, Serbia, South Africa, Suriname, Thailand, Turkey, Turkmenistan, Tuvalu, Venezuela.

Lower Middle Income Group

Armenia, Bangladesh, Bhutan, Bolivia, Cabo Verde, Cambodia, Cameroon, Congo (Republic of), Côte d'Ivoire, Djibouti, Egypt, El Salvador, Ghana, Guatemala, Honduras, India, Indonesia, Kenya, Kiribati, Kosovo, Kyrgyzstan, Lao, Lesotho, Mauritania, Micronesia (Federated States of), Moldova, Mongolia, Morocco, Myanmar, Nicaragua, Nigeria, Pakistan, Palestine, Papua New Guinea, Philippines, Samoa, Sao Tome and Principe, Solomon Islands, Sri Lanka, Sudan, Swaziland, Syria, Tajikistan, Timor Leste, Tonga, Tunisia, Ukraine, Uzbekistan, Vanuatu, Vietnam, Yemen, Zambia.

Low Income Group

Afghanistan, Benin, Burkina Faso, Burundi, Central African Republic, Chad, Comoros, Congo (The Democratic Republic of), Eritrea, Ethiopia, Gambia, Guinea, Guinea-Bissau, Haiti, Korea (The Democratic People's Republic of), Liberia, Madagascar, Malawi, Mali, Mozambique, Nepal, Niger, Rwanda, Senegal, Sierra Leone, Somalia, South Sudan, Tanzania, Togo, Uganda, Zimbabwe.

*Not a WHO member