

Competencies Required By Anesthesiologists Managing Critically ill Medical And Surgical Patients In An Intensive Care Unit: A WFSA Survey

Critical Care Medicine (CCM) has emerged as an independent specialty over the last few decades. Anesthesiologists being perioperative physicians, often practice CCM full time or part-time. Deficiencies have been noted by experts in the Anesthesiology training in certain competencies required for the management of critically ill medical and surgical patients in the ICU. This is often compounded by considerable variation in the training curriculum of the Anesthesiologists based on the geographical region.

The Intensive & Critical Care Medicine Committee of the World Federation of Societies of Anesthesiologists (WFSA), has developed a preliminary survey of recently qualified Anesthesiologists, to review the existing competencies for CCM in the Anesthesiology curriculum across the globe. The results of this survey will be used to identify the gaps and additional competencies required for Anesthesiologists to practice Critical Care in ICU through expert consensus, using a Delphi process.

This survey should be attempted by those who have COMPLETED ANESTHESIOLOGY TRAINING (not including Internship or Fellowships) IN THE LAST THREE YEARS (between 2018-2021).

The survey will take about ten minutes to complete. This survey is divided into two parts, section one includes basic demographic details and section two includes core competencies in Critical Care under six domains. Participation is voluntary. Your identity will be kept confidential. By responding to the survey, consent is implied for participation and use of the data.

The study is registered with clinicaltrials.gov (Identifier no: NCT05007704).

Please read the instructions provided for each question carefully and feel free to provide feedback, at the end of the survey. Please contact us for any comments, feedback or technical support at WFSA.competencyCCM@gmail.com

Please enter your email address if you wish to proceed with the survey.

* Required

1. Email *

Acronyms used in this survey

ICU: Intensive care unit
COPD: Chronic obstructive airway disease
DKA: Diabetic ketoacidosis
HHS: Hyperosmolar hyperglycemic syndrome
PIH: Pregnancy-induced hypertension
PPH: Postpartum haemorrhage
VAP: Ventilator-associated pneumonia
CLABSI: Central line-associated bloodstream infections
CAUTI: Catheter-associated urinary tract infection
ECMO: Extracorporeal membrane oxygenation
RRT: Renal replacement therapy
CVP: Central venous pressure
ScVO2: Central venous oxygen saturation
SVO2: Mixed venous oxygen saturation
VCO2: Carbon dioxide production
EOL: End-of-life

Demographic data

2. What is your age (in years)? *

3. Gender?

Mark only one oval.

Female

Male

Prefer not to say

Other: _____

4. Country of residence? *

Mark only one oval.

Afghanistan

Albania

Algeria

Andorra

Angola

Antigua and Barbuda

- Argentina
- Armenia
- Australia
- Austria
- Austrian Empire
- Azerbaijan
- Baden
- Bahamas
- Bahrain
- Bangladesh
- Barbados
- Bavaria
- Belarus
- Belgium
- Belize
- Benin (Dahomey)
- Bolivia
- Bosnia and Herzegovina
- Botswana
- Brazil
- Brunei
- Brunswick and Lüneburg
- Bulgaria
- Burkina Faso (Upper Volta)
- Burma
- Burundi
- Cabo Verde
- Cambodia
- Cameroon
- Canada
- Cayman Islands
- Central African Republic
- Central American Federation
- Chad

- Chile
- China
- Colombia
- Comoros
- Congo Free State
- Costa Rica
- Cote d'Ivoire (Ivory Coast)
- Croatia
- Cuba
- Cyprus
- Czechia
- Czechoslovakia
- Democratic Republic of the Congo
- Denmark
- Djibouti
- Dominica
- Dominican Republic
- Duchy of Parma
- East Germany (German Democratic Republic)
- Ecuador
- Egypt
- El Salvador
- Equatorial Guinea
- Eritrea
- Estonia
- Eswatini
- Ethiopia
- Fiji
- Finland
- France
- Gabon
- Gambia
- Georgia
- Germany

- Ghana
- Grand Duchy of Tuscany
- Greece
- Grenada
- Guatemala
- Guinea
- Guinea-Bissau
- Guyana
- Haiti
- Hanover
- Hanseatic Republics
- Hawaii
- Hesse
- Holy See
- Honduras
- Hungary
- Iceland
- India
- Indonesia
- Iran
- Iraq
- Ireland
- Israel
- Italy
- Jamaica
- Japan
- Jordan
- Kazakhstan
- Kenya
- Kingdom of Serbia/Yugoslavia
- Kiribati
- Korea
- Kosovo
- Kuwait

- Kyrgyzstan
- Laos
- Latvia
- Lebanon
- Lesotho
- Lew Chew (Loochoo)
- Liberia
- Libya
- Liechtenstein
- Lithuania
- Luxembourg
- Madagascar
- Malawi
- Malaysia
- Maldives
- Mali
- Malta
- Marshall Islands
- Mauritania
- Mauritius
- Mecklenburg-Schwerin
- Mecklenburg-Strelitz
- Mexico
- Micronesia
- Moldova
- Monaco
- Mongolia
- Montenegro
- Morocco
- Mozambique
- Namibia
- Nassau*
- Nauru
- Nepal

- Netherlands
- New Zealand
- Nicaragua
- Niger
- Nigeria
- North Macedonia
- Norway
- Oldenburg
- Oman
- Orange Free State
- Pakistan
- Palau
- Panama
- Papal States*
- Papua New Guinea
- Paraguay
- Peru
- Philippines
- Piedmont-Sardinia*
- Poland
- Portugal
- Qatar
- Republic of Genoa*
- Republic of Korea (South Korea)
- Republic of the Congo
- Romania
- Russia
- Rwanda
- Saint Kitts and Nevis
- Saint Lucia
- Saint Vincent and the Grenadines
- Samoa
- San Marino
- Sao Tome and Principe

- Saudi Arabia
- Schaumburg-Lippe*
- Senegal
- Serbia
- Seychelles
- Sierra Leone
- Singapore
- Slovakia
- Slovenia
- Solomon Islands
- Somalia
- South Africa
- South Sudan
- Spain
- Sri Lanka
- Sudan
- Suriname
- Sweden
- Switzerland
- Syria
- Tajikistan
- Tanzania
- Texas*
- Thailand
- Timor-Leste
- Togo
- Tonga
- Trinidad and Tobago
- Tunisia
- Turkey
- Turkmenistan
- Tuvalu
- Two Sicilies*
- Uganda

- Ukraine
- United Arab Emirates
- United Kingdom
- United States of America
- Uruguay
- Uzbekistan
- Vanuatu
- Venezuela
- Vietnam
- Württemberg*
- Yemen
- Zambia
- Zimbabwe

5. Country of training in Anesthesiology? *

Mark only one oval.

- Afghanistan
- Albania
- Algeria
- Andorra
- Angola
- Antigua and Barbuda
- Argentina
- Armenia
- Australia
- Austria
- Austrian Empire
- Azerbaijan
- Baden
- Bahamas
- Bahrain
- Bangladesh

- Barbados
- Bavaria
- Belarus
- Belgium
- Belize
- Benin (Dahomey)
- Bolivia
- Bosnia and Herzegovina
- Botswana
- Brazil
- Brunei
- Brunswick and Lüneburg
- Bulgaria
- Burkina Faso (Upper Volta)
- Burma
- Burundi
- Cabo Verde
- Cambodia
- Cameroon
- Canada
- Cayman Islands
- Central African Republic
- Central American Federation
- Chad
- Chile
- China
- Colombia
- Comoros
- Congo Free State
- Costa Rica
- Cote d'Ivoire (Ivory Coast)
- Croatia
- Cuba
- Cyprus

- Czechia
- Czechoslovakia
- Democratic Republic of the Congo
- Denmark
- Djibouti
- Dominica
- Dominican Republic
- Duchy of Parma
- East Germany (German Democratic Republic)
- Ecuador
- Egypt
- El Salvador
- Equatorial Guinea
- Eritrea
- Estonia
- Eswatini
- Ethiopia
- Fiji
- Finland
- France
- Gabon
- Gambia
- Georgia
- Germany
- Ghana
- Grand Duchy of Tuscany
- Greece
- Grenada
- Guatemala
- Guinea
- Guinea-Bissau
- Guyana
- Haiti
- Hanover

- Hanseatic Republics
- Hawaii
- Hesse
- Holy See
- Honduras
- Hungary
- Iceland
- India
- Indonesia
- Iran
- Iraq
- Ireland
- Israel
- Italy
- Jamaica
- Japan
- Jordan
- Kazakhstan
- Kenya
- Kingdom of Serbia/Yugoslavia
- Kiribati
- Korea
- Kosovo
- Kuwait
- Kyrgyzstan
- Laos
- Latvia
- Lebanon
- Lesotho
- Lew Chew (Loochoo)
- Liberia
- Libya
- Liechtenstein
- Lithuania

- Luxembourg
- Madagascar
- Malawi
- Malaysia
- Maldives
- Mali
- Malta
- Marshall Islands
- Mauritania
- Mauritius
- Mecklenburg-Schwerin
- Mecklenburg-Strelitz
- Mexico
- Micronesia
- Moldova
- Monaco
- Mongolia
- Montenegro
- Morocco
- Mozambique
- Namibia
- Nassau*
- Nauru
- Nepal
- Netherlands
- New Zealand
- Nicaragua
- Niger
- Nigeria
- North Macedonia
- Norway
- Oldenburg
- Oman
- Orange Free State

- Pakistan
- Palau
- Panama
- Papal States*
- Papua New Guinea
- Paraguay
- Peru
- Philippines
- Piedmont-Sardinia*
- Poland
- Portugal
- Qatar
- Republic of Genoa*
- Republic of Korea (South Korea)
- Republic of the Congo
- Romania
- Russia
- Rwanda
- Saint Kitts and Nevis
- Saint Lucia
- Saint Vincent and the Grenadines
- Samoa
- San Marino
- Sao Tome and Principe
- Saudi Arabia
- Schaumburg-Lippe*
- Senegal
- Serbia
- Seychelles
- Sierra Leone
- Singapore
- Slovakia
- Slovenia
- Solomon Islands

- Somalia
- South Africa
- South Sudan
- Spain
- Sri Lanka
- Sudan
- Suriname
- Sweden
- Switzerland
- Syria
- Tajikistan
- Tanzania
- Texas*
- Thailand
- Timor-Leste
- Togo
- Tonga
- Trinidad and Tobago
- Tunisia
- Turkey
- Turkmenistan
- Tuvalu
- Two Sicilies*
- Uganda
- Ukraine
- United Arab Emirates
- United Kingdom
- United States of America
- Uruguay
- Uzbekistan
- Vanuatu
- Venezuela
- Vietnam
- Württemberg*

- Yemen
- Zambia
- Zimbabwe

6. In which year did you complete your anesthesiology training? (excluding internship/fellowship) *

Mark only one oval.

- 2018
- 2019
- 2020
- 2021

7. What was the duration of the Anesthesiology training (in years)? (excluding internship/fellowship) *

Mark only one oval.

- 1
- 2
- 3
- 4
- 5
- 6

8. Did you work in ICU during your Anesthesiology training? *

Mark only one oval.

- Yes
- No

9. If yes, duration of the training in the ICU (in months)?

10. In which ICUs did you work during the training?

Choose all that apply

Check all that apply.

- Medical-Surgical (including cardiac surgery and neurosurgery)
- Cardiology
- Trauma
- Neurology
- Paediatric
- Transplant
- Other (please specify in the comment section)

11. Comments

Competency and skill assessment

12. 1. How would you rate your competency regarding the DISEASE DIAGNOSIS AND MANAGEMENT (does not include initial resuscitation) of the following medical conditions after having completed your Anesthesiology training? *

Rate your experience for each of the item below on a Likert scale

Mark only one oval per row.

	1. Never seen	2. Have observed the management	3. Can manage under supervision	4. Can manage with minimal assistance	5. Can manage independentl
Cerebrovascular accidents (Ischemic or Hemorrhagic	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Stroke)

Coma	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Seizure disorder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Neuromuscular disorders (e.g., Myasthenia gravis, Meningitis, Guillain barre syndrome etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Respiratory emergencies (e.g. acute severe asthma, acute exacerbation of COPD, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acute respiratory distress syndrome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acute coronary syndromes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acute heart failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arrhythmias	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Common acid-base problems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrolyte disturbances	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Endocrine emergencies (e.g.DKA/HHS)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acute Poisoning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acute kidney injury	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acute liver injury	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Obstetric emergencies(e.g. PIH, PPH, Puerperal sepsis)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sepsis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Healthcare-associated Infections (e.g. VAP, CLABSI, CAUTI)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Brain death	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

13. 2. How would you rate your PROCEDURAL skills, after having completed your Anesthesiology training? *

Rate your experience for each of the items below on a Likert scale

Mark only one oval per row.

	1. Never seen	2. Have observed	3. Have assisted	4. Can perform under supervision	5. Can perform independently
Arterial catheterization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Central venous catheterization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Vascular cannulation for ECMO	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Vascular cannulation for RRT	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Intraosseous access	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tracheal Intubation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bronchoscopy for diagnostic procedures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Percutaneous tracheostomy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Intercostal drain Insertion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thoracocentesis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pericardiocentesis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Abdominal Paracentesis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Pulmonary artery catheter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Defibrillation and cardioversion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Transthoracic or transvenous cardiac pacing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Nasogastric/jejunal tube insertion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Urethral catheterization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Intrathecal drainage and catheterization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Epidural space catheterization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

14. 3. How would you rate your competency regarding the following MONITORING OR THERAPEUTIC INTERVENTIONS after having completed your Anesthesiology training? *

Rate your experience for each of the items below on a Likert scale

Mark only one oval per row.

	1. Never seen	2. Have observed	3. Can perform under supervision	4. Can perform with minimal assistance	5. Can perform independentl
Intracranial pressure monitoring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Basic hemodynamic monitoring (e.g., CVP and invasive arterial pressure monitoring)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Advanced hemodynamic monitoring (e.g. cardiac output monitoring etc)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Transthoracic echocardiography	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Transesophageal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

echocardiography	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Core temperature monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
End-tidal carbon dioxide monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Monitoring ventilator graphics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intra-abdominal pressure monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Monitoring tissue oxygenation (e.g. lactates, ScVO ₂ , SVO ₂ , VCO ₂ gap)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Point-of-care ultrasound	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arterial blood gas interpretation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antimicrobial drug therapy (dose, duration, and common side effects)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Blood or blood products administration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intravenous fluids	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vasoactive drugs therapy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
High flow nasal oxygen (HFNO) therapy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Non-invasive ventilation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Basic Invasive mechanical ventilation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Advanced Invasive	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mechanical ventilation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Renal replacement therapy (RRT)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Extra corporeal membrane oxygenation (ECMO)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enteral or parenteral nutritional support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

15. 4. How would you rate your competency with RESUSCITATION after having completed your Anesthesiology training? *

Rate your experience for each of the items below on a Likert scale

Mark only one oval per row.

	1. Never seen	2. Have observed the management	3. Can manage under supervision	4. Can manage with minimal assistance	5. Can manage independently
Difficult airway management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Respiratory arrest	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Basic life support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Advanced cardiac life support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Poly-trauma	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Life-threatening hemorrhage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sepsis and septic shock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Shock from different etiologies (e.g, anaphylactic, cardiogenic, obstructive shock)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

16. 5. How would you rate your competency with COMMUNICATION SKILLS and END-OF-LIF CARE after having completed your Anesthesiology training? *

Rate your experience for each of the items below on a Likert scale

Mark only one oval per row.

	1. Never seen	2. Have observed	3. Can perform under supervision	4. Can perform with minimal assistance	5. Can perform independentl
Communication with patients and family	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communication with other health care professionals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Team co-ordination	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dispute resolution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Patient counseling for procedures.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Patient counseling for prognosis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Documentation of communication in the medical record	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Decision making and counselling for EOL care	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Counselling for organ donation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

17. How would rate your competency for PATIENT SAFETY, CRISIS RESOURCE MANAGEMENT and RESEARCH after having completed your Anesthesiology training? *

*Vulnerable patient is a person in need of special care, support, or protection because of age, disability, or risk of ab or neglect. Rate your experience for each of the items below on a Likert scale.

Mark only one oval per row.

	1. Never considered	2. Have observed	3. Have assisted	4. Can perform under supervision	5. Can perform independently
Steps of patient identification	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Documentation and handovers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Safe use of high alert medications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Time out and surgical safety checklist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hand hygiene	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Healthcare-associated Infection prevention bundle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identification of vulnerable patients*	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Transportation of a critically ill patient	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Triage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Optimal resource management e.g. oxygen, ventilators, ICU beds, human resources	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Research/ audits /quality indicators	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

18. Do you feel that the competencies you have acquired during your Anesthesiology training are sufficient to practice Critical Care? *

Mark only one oval.

	1	2	3	4	5	
Sufficient	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Not sufficient

19. Are there any other (than those listed above) competencies required for CCM that you feel unprepared for?

20. Comments and feedback if any, about the survey

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