

ESPNIC CICU Section Education Needs Assessment

February 2022

Respondent Statistics

Link to original survey: <https://www.surveymonkey.com/r/HL7W65G>

Total number of respondents by 04/02/2022: 45

Country	# of responses
United Kingdom	9
Italy	8
Switzerland	8
Greece	3
Spain	3
Netherlands	2
Qatar	2
Slovakia	2
Australia	1
Denmark	1
India	1
Iraq	1
Israel	1
Lebanon	1
USA	1

Professional Position	# of responses
Doctor	43
Nurse	2
Allied Health Professional	0
Other	0



Top 5 Priority Topics For 2022 – Responses For #1

- Cvvh
- First 48 hours post cardiac surgery
- Mechanical assist device in children
- Ventilation in post-op period
- Nutrition (x2)
- ECMO (x5)
- Echo for paediatric intensivist
- Cardiac ICU
- ECPR
- ECLS in pediatric
- (Mechanical) ventilation (x3)
- Prevention and management of
- VAD infections
- News on postop management (Levosimendan, pulmonary vascular vasodilators, others)
- Functional assessment of heart by echo
- Sepsis (x2)
- specific pre-and post operative care for congenital heart disease (x2)
- Implementation of advanced practice providers in PICU
- Cardiac output monitoring
- VAD (x3)
- Circulatory shock
- Echocardiography
- Diagnostic/Planning tools (3D Printing/Pics)
- Extracorporeal Circulatory and Renal Support
- Neuromonitoring in the CICU (x3)
- NEUROMONITORING IN ECMO AND POST CARDIAC SURGERY (x2)
- How to select patients for ECMO support



Top 5 Priority Topics For 2022 – Responses For #2

- Individualized cardiac ICU care (cardio>abdomen)
- POC echocardiography (x5)
- Ventilation in pulmonary hypertension
- POCUS cardiac
- ECMO (x4)
- Lung protective strategies
- Septic shock
- Early sedation weaning in pediatric
- Cardiovascular system
- Improving neuro outcomes in cardiac patients
- Bedside ultrasound
- Assist device
- Mechanical cardiac support (ECMO, LVAD, BerlinHeart)
- Update on neonatal ventilation
- Cardiac conditions
- Management of vvECMO and vaECMO
- Pre-operative care for certain common lesions (TGA, truncus, etc)
- Transplant – candidacy/outcomes
- Hemodynamic support
- Hemodynamic monitoring
- AI – use and possibilities in CPICU
- MV (x2)
- Inotropes
- Acute and chronic circulatory failure
- ECPR
- Vmni
- How to handle conflict in the team: cardiac surgeons vs. intensivists
- Anticoagulation new insights
- Temporary pacing management



Top 5 Priority Topics For 2022 – Responses For #3

- Ventilation
- Identifying the patient(s) at risk in pCICU
- Anticoagulation (x5)
- Nutrition in ventilated patients
- ECMO tips and tricks
- VAD
- Managing diastolic dysfunction
- Myocarditis
- Early liberation from IMV in pediatric
- Ultrasound in cardiopulmonary resuscitation
- NJ feed in low cardiac output
- Infection management
- Post-operative cardiac care
- Statistical methods relevant for clinicians
- ARDS
- Nutrition
- Post-operative care for certain common lesions
- Dialysis
- Echocardiography
- Adolescent ECMO
- Acute heart failure
- Cardiac anomalies
- Advanced haemodynamic monitoring
- Asystolic donation
- Family involvement/consumer engagement
- Pushing the extreme boundaries of CHD surgery: the chronically ill cardiac child
- Lung-heart interaction
- Inotropes
- ECMO management – practical approach



Top 5 Priority Topics For 2022 – Responses For #4

- Difficult airway
- Risk mitigation strategies in pCICU (PC4 initiative)
- Functional outcome (neurological, cardiopulmonary, neurophysical)
- NIV
- Heart transplantation (x2)
- Medical education skills
- Cardiac pharmacy
- Anticoagulant in pediatric (x2)
- Brain injury
- Best practice for post-op recovery of Norwood Sano
- Shock management
- POCUS
- Monitoring of cardiac output
- Spss
- Sedation
- Mechanics circulatory support
- How to assess right ventricular function
- Feeding practices
- Plasmapheresis
- Hemodynamic monitoring
- Congenital cardiomyopathies
- Assist device for kids (non-ECMO)
- Neurocritical care
- ECMO (x2)
- ECPR
- Renal resuscitation
- Weaning from VA and VV-ECMO support
- Pediatric transesophageal echocardiography
- Cardiac ICU and ethics
- New VADs

Top 5 Priority Topics For 2022 – Responses For #5

- Immunology
- Hybrid modalities
- Hemodynamics
- Quality improvement in cardiac ICU
- Quality of life for children post-ICU
- Cardiac biomarkers
- Nutritional support in PICU
- Overuse of milrinone
- Vascular access in pediatric
- Sustainability
- Post-op cardiac echo for intensivist
- To become clinical reviewer
- Diastolic dysfunction
- MV in pCICU
- MV
- Venous and regional saturation
- Sepsis
- Haemolysis – cause, avoidance, impact
- Neurological problems
- Anticoagulation and blood management on ECMO support
- ECMO as a bridge to lung transplantation



Focus Areas For Education Activities

ANSWER CHOICES ▼	RESPONSES ▼	
▼ New therapeutic and management approaches	93.33%	42
▼ Combination of theoretical and practical approach	82.22%	37
▼ Refresher on common to difficult clinical problems	71.11%	32
▼ New medical devices/new drugs/drug therapies	62.22%	28
▼ New diagnostic approaches	57.78%	26
▼ New procedures	57.78%	26
▼ Other (please specify) Responses	2.22%	1
Total Respondents: 45		



Preferred Education Formats

ANSWER CHOICES ▼	RESPONSES ▼	
▼ Moderated online discussion forum	57.78%	26
▼ Live online lectures	57.78%	26
▼ Simulation lab	53.33%	24
▼ Master class	51.11%	23
▼ Online case study	44.44%	20
▼ Short 5-10 minute instructional video	44.44%	20
▼ Pre-recorded online lectures	42.22%	19
▼ Ask the expert session (live or pre-recorded)	37.78%	17
▼ In-person practical session	37.78%	17
▼ E-textbook/e-handbook	35.56%	16
▼ Article or guideline downloads	31.11%	14
▼ In-person lecture	31.11%	14
▼ Webcasts and e-posters from the ESPNIC congress	22.22%	10
▼ Podcast	13.33%	6
▼ Unmoderated/self-moderated online discussion forum	6.67%	3
▼ Wiki (website or online resource that can be edited by multiple users)	4.44%	2
▼ Other (please specify)	Responses 0.00%	0
Total Respondents: 45		



Importance Of CME Accreditation Of Activities

4.1★
average rating



Ideas/Suggestions for Education Activities

- Short video series for ESPNIC Education Portal on topics with Multiple Choice Questions as post-assessment
- Self-paced case study on ESPNIC Education Portal (see example from NEJM here: <https://resident360.nejm.org/category/interactive-medical-cases>)
- Webinars on updates in particular topics/best practices/debate on controversial topics
- Collaborations with other ESPNIC Sections (webinars, online modules):
 - Respiratory section
 - Neuro critical care
 - Nutrition
 - Infection

THANK YOU!



ESPNIC Administrative Office

c/o Kenes International Organizers of Congresses S.A
7, Rue Francois-Versonnex, 1207 Geneva, Switzerland

Tel: +41 22 906 9178

Fax: +41 22 732 2607

Email: info@espnic-online.org

Website: espnic-online.org