

Extracorporeal Life Support Organization (ELSO): Guidelines for Pediatric Cardiac Failure

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These guidelines are applicable to neonates and children with cardiac failure as indication for extracorporeal life support. These guidelines address patient selection, management during extracorporeal membrane oxygenation, and pathways for weaning support or bridging to other therapies. Equally important issues, such as personnel, training, credentialing, resources, follow-up, reporting, and quality assurance, are addressed in other Extracorporeal Life Support Organization documents or are center-specific.

Key Words: pediatrics, heart failure, extracorporeal membrane oxygenation

This guideline is informed by available evidence and based on expert opinion, with targeted clinical recommendations for emerging centers and small volume programs as institutional standards are developed. The guideline may also be of benefit to experienced providers and centers in the process of reviewing local protocols. Circuit configuration, equipment specifications, anticoagulation recommendations, extracorporeal cardiopulmonary resuscitation (ECPR), and some specific patient populations are presented in other Extracorporeal Life Support (ELSO) guidelines.

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Extracorporeal membrane oxygenation (ECMO) is the most commonly utilized mechanical circulatory support in neonates and children with refractory cardiac failure (Figure 1).^{1,2} Veno-arterial ECMO (VA ECMO) augments systemic cardiac output and respiratory gas exchange to facilitate adequate tissue oxygen delivery (DO₂). Survival for children with heart disease supported with VA ECMO has improved over the past decade, despite expanding indications and increasing patient complexity.³ Increased utilization and experience of pediatric cardiac ECMO is reflected in a number of publications, but large evidence gaps remain. High-quality VA ECMO support for pediatric cardiac indications necessitates systems, protocols, interdisciplinary teams, and training.

Patient Selection, Modes of Support, and Technical Considerations

Patient Selection

The indication for the use of VA ECMO for cardiac indications in children is cardiogenic shock unresponsive to standard medical therapies. Persistent systemic systolic pressure less than 50 mm Hg, urine output <1 mL/kg/h, lactic acidosis, central venous oxygen saturation (SVO₂) <60% or arteriovenous oxygen saturation difference (AVO₂) >30% in cyanotic congenital heart disease, an altered mental status due to low cardiac output may all be indicators of cardiogenic shock in children. Examples of pathologies causing shock are listed in Table 1. Consideration for early initiation of ECMO is important as delayed initiation (beyond 6 hours of cardiogenic shock state) is associated with worse outcomes.^{1,3-17} Local resources should be taken into account when determining ECMO candidacy (Figure 2).

Veno-arterial ECMO should be considered with four primary strategies for ECMO support:

1. Bridge to recovery: In patients with reversible underlying disease processes where cardiac function recovery can occur with time, medical interventions, or surgical correction;
2. Bridge to bridge: In patients with acute single organ disease who can be supported to a ventricular assist device (VAD);
3. Bridge to organ transplantation: In patients who may require cardiopulmonary support until heart transplantation;
4. Bridge to decision: In patients who may recover end-organ function, facilitate diagnosis, or determine candidacy for alternative support/transplantation.

Extracorporeal Life Support Organization Elso Guidelines

Arturo Cuomo



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web le numéro 77 indique que vous êtes félicité vos efforts ont été bien notés par les royaumes angéliques et spirituels vous êtes sur le bon chemin de vie et vivez et servez votre objectif de vie divine comme guidé grâce à vos efforts à votre discernement et à vos bons choix vos récompenses sont sur le chemin de votre vie

interprétation du nombre 77 numérologie et message - Oct 09 2022

web vous apercevez régulièrement le nombre 77 c'est un signe que l'univers vous envoie vos anges gardiens veulent vous dire quelque chose et vous devriez déc

77 nombre wikipédia - Oct 21 2023

web le nombre 77 septante sept ou soixante dix sept est l'entier naturel qui suit 76 et qui précède 78 le code ascii de 77 est la lettre m en mathématiques le nombre 77 est un nombre semi-premier et entier de Blum 77 7 11 un nombre composé brésilien car 77 77 10 le deuxième nombre uniforme de la classe u7

numéro angélique 77 signification et symbolisme 1 à 99 - Feb 01 2022

web la signification du nombre sept signifie que le porteur de personne est sur la bonne voie dans la vie et que la marche juste doit se poursuivre le nombre 77 est quelqu'un qui est conscient qu'il est le porteur d'un message de plus en plus prononcé du monde divin et que sa vie a une grande importance

chiffre des anges 77 éveil de la spiritualité chiffre ange - Jun 05 2022

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succès est long le chiffre angélique 77 travailler dur 77 dans l'art de la numérologie 77 et l'éveil de la spiritualité les interprétations de la séquence 77 en résumé explication du chiffre 77 selon doreen virtue

signification nombre 77 avec les anges gardiens - Sep 20 2023

web vos anges gardiens vous rappellent que vous avez la force la détermination l'apprentissage et la persévérance le nombre 77 est le signe que vous êtes félicité par vos anges gardiens pour vos efforts et que cela a été pris en

numéro d'ange 77 signification spirituel amour flamme jumelle - Aug 07 2022

web oct 27 2023 le nombre d'anges 77 est un message spirituel provenant du monde divin on pense que ce nombre angélique est porteur de conseils et d'encouragements importants de la part de vos anges gardiens pour vous aider sur le chemin de la vie voir tous nos numéros des anges l'angel number 77 expliqué