

Abstract:

Background: The approach to vascular access in children with CHD is a complex decision-making process that may have long-term implications. To date, evidence-based recommendations have not been established to inform this process.

Methods: The RAND/UCLA Appropriateness Method was used to develop miniMAGIC, including sequential phases: definition of scope and key terms; information synthesis and literature review; expert multidisciplinary panel selection and engagement; case scenario development; and appropriateness ratings by expert panel via two rounds. Specific recommendations were made for children with CHD.

Results: Recommendations were established for the appropriateness of the selection, characteristics, and insertion technique of intravenous catheters in children with CHD with both univentricular and biventricular physiology.

Conclusion: miniMAGIC-CHD provides evidence-based criteria for intravenous catheter selection for children with CHD.

Reference:

Perry T, Ullman AJ, Aiyagari R, Pitts S, Jacobs JP, Cooper DS. The Michigan Appropriateness Guide for Intravenous Catheters in children with congenital heart disease: miniMAGIC-CHD. *Cardiol Young*. 2021 Mar 19:1-5. doi: 10.1017/S1047951121000962. Epub ahead of print. PMID: 33736738.