

PEDIATRIC PERIPHERALLY INSERTED CENTRAL CATHETER (PICC) INSERTIONS: RESOURCE LIST



This list of pediatric PICC resources is for healthcare providers who have foundational vascular access knowledge and skill including; device selection, insertion procedures, and ongoing care & maintenance. These pediatric specific resources are meant to supplement existing vascular access knowledge. Always check and follow the policies, procedures and guidelines specific to your Health Authority.

NATIONAL GUIDELINES

The Canadian Vascular Access Association (CVAA) is Canada's resource for vascular access and infusion therapy specialists. CVAA has developed the 2019 Canadian Vascular Access and Infusion Therapy Guidelines and has a series of CVAA Online Learning Resources. Corporate and individual memberships to this organization are available and provide access to additional resources through their membership.

INTERNATIONAL GUIDELINES

The Association for Vascular Access (AVA) is an organization of healthcare professionals established to support and promote the specialty of vascular access. AVA has a Pediatric and Neonatal Special Interest Group that has developed Best Practice Guidelines in the Care and Maintenance of Pediatric Central Venous Catheters, Second edition (2015).

BC CHILDREN'S HOSPITAL GUIDELINES

BC Children's Hospital PICC Guidelines can be found on ePOPS and may provide guidance for your team in supporting the development of a pediatric vascular access program in your health authority. Examples of documents that can be found include:

Insertion of Peripherally Inserted Central Catheter (PICC) Using Ultrasound and Modified Seldinger Technique

Insertion of Peripherally Inserted Central Catheter (PICC) by Direct Vein Method

ELSEVIER CLINICAL SKILLS PICC LINE INSERTION PEDIATRICS

Published in February 2019, Elsevier has evidence based resources that can support healthcare providers in the development of their Pediatric PICC line competencies.

Peripherally Inserted Central Catheter (Pediatric)

Peripherally Inserted Central Catheter: Dressing Change (Pediatric)

Peripherally Inserted Central Catheter: Flushing (Pediatric)

Peripherally Inserted Central Catheter: Removal (Pediatric)

Animated and 3D video demonstrations

*Links may differ and will be available through your Regional Health Authority



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ONLINE LEARNING MODULES

The educational resources listed here build on the [Pediatric Foundational Competencies eLearning course](#).

[PICC Excellence Inc.](#) is recognized as a leading organization in PICC Line education, training and certification. A number of online vascular access training modules can be purchased to support the development of pediatric PICC line competencies in your organization.

The [PICC Excellence PICC Insertion Qualification Training](#) includes a [Pediatric PICC Qualification Training](#) designed to train the nurse or physician for the insertion of pediatric PICCs through a series of online modules. Once completed clinicians will be prepared to begin inserting Pediatric PICCs, under supervision.

PATIENT & FAMILY RESOURCES

The following list provides the healthcare team with a selection of resources to support patients, families, and caregivers through various stages of the pediatric PICC line process and care.

BC Children's Child Life Procedural Prep

BC Children's Cuffed Peripherally Inserted Central Catheter (PICC)

BC Children's Peripherally Inserted Central Catheter

BC Children's What You Need to Know about Your PICC

Cincinnati Children's PICC Care

Jumo Health Understanding PICC Lines: Video For Children ages 7-12

SickKids Peripherally Inserted Central Catheter (PICC) Insertion Using Image Guidance

SickKids PICC Insertion: Caring For Your Child At Home After The Procedure

SickKids PICC Removal: Caring For Your Child At Home After The Procedure



ADDITIONAL RESOURCES

The following list of articles may provide additional guidance to your team as you develop your pediatric PICC insertion program. For assistance accessing the articles please contact your health authority/agency librarian.

Boles, J. (2018). The powerful practice of distraction. *Pediatric Nursing*, 44 (5), 247-249.

Infusion Nurses Society. (2016). *Policies and Procedures for Infusion Therapy: Neonate to Adolescent* (2nd ed.). Norwood, MA: Author.

Lavelle, J., Cahill, A.M., Conlon, T., Czajka, C., Mullin, M., Greenfield, M., Riede, L., Shepherd, A., & Jefferies, C. (2019, October).

Inpatient clinical pathway for vascular access. Children's Hospital of Philadelphia.

<https://www.chop.edu/clinical-pathway/vascular-access-inpatient-clinical-pathway>

Ojo, S.A. (2020). Reflections on setting up a nurse-led paediatric peripherally inserted central catheter service. *British Journal of Nursing Supplement IV and Vascular Access*, 29(14), S16-S20.

Paterson, R.S., Chopra, V., Brown, E., Kleidon, T.M., Cooke, M., Rickard, C.M., Bernstein, S.J., & Ullman, A.J. (2020, June). Selection and insertion of vascular access devices in pediatrics: A systematic review. *Pediatrics*, 145 (Supplement 3), S243-S268.

DOI: <https://doi.org/10.1542/peds.2019-3474H>

Rosengarten, L., & Camara, C. (2020). A guide to central venous access devices in children. *British Journal of Nursing Supplement IV and Vascular Access*, 29(14), S6-S14.

Ullman, A.J., Bernstein, S.J., Brown, E., Aiyagari, R., Doellman, D., Vincent, E., Faustino, S., Gore, B., Jacobs, J.P., Jaffray, J., Kleidon, T., Mahajan, P.A., McBride, C.A., Morton, K., Pitts, S., Prentice, E., Rivard, D.C., Shaughnessy, E., Stranz, M., Wolf, J., Cooper, D.S., Cooke, M., Rickard, C.M., & Chopra, V. (2020, June). The Michigan appropriateness guide for intravenous catheters in pediatrics: miniMagic. *Pediatrics*, 145 (Supplement 3), S269-S284. DOI: <https://doi.org/10.1542/peds.2019-3474I>

Ullman, A., & Chopra, V. (2020, June). Developing pediatric appropriateness criteria for intravenous catheters. *Pediatrics*, 145 (Supplement 3), S231-S233. DOI: <https://doi.org/10.1542/peds.2019-3474F>

Ullman, A.J., Chopra, V., Brown, E., Kleidon, T., Cooke, M., Rickard, C.M., & Bernstein, S.J. (2020, June). Developing appropriateness criteria for pediatric vascular access. *Pediatrics*, 145 (Supplement 3), S233-S242. DOI: <https://doi.org/10.1542/peds.2019-3474G>

Always check for and follow any policies, procedures and guidelines specific to your Health Authority or place of employment