

Pediatric Guidelines

History, Highlights & Takeaways

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Disclosures

Baxter Healthcare Corporation- Consultant, Nurse Speaker

Children's Hospital Association: SCOPE Collaborative- Nurse Faculty

Elsevier Inc.- Consultant, Subject Matter Expert: Neonatal/Pediatric Peritoneal Dialysis Clinical Skills



Objectives

- Discuss the history of the Pediatric ISPD Guidelines
- Review the highlights of the ongoing work/recommendations from the writing committee for the updated *Consensus Guidelines for the Prevention and Treatment of Catheter-Related Infections and Peritonitis in Pediatric Patients Receiving Peritoneal Dialysis*
- Discuss importance of identifying future research needs



Continuous improvement is
better than delayed perfection.

- Mark Twain



The History

2000

- Publication of the Consensus Guidelines for the Treatment of Peritonitis in Pediatric Patients Receiving Peritoneal Dialysis, under the ISPD
- Largely opinion based and composed by an international committee of experts in the field of pediatric dialysis
- First set of recommendations specific to the pediatric PD population
- IPPR was established to support evaluations of the impact of implementing the guidelines on a global basis
- IPPR collected data to serve as evidence upon which future guidelines could be based
- IPPR collected data on 501 episodes of peritonitis and served as a foundation for many of the recommendations in the 2012 update

Warady BA, Bakkaloglu S, Newland J, Cantwell M, Verrina E, Neu A, Chadha V, Yap HK, Schaefer F. Consensus guidelines for the prevention and treatment of catheter-related infections and peritonitis in pediatric patients receiving peritoneal dialysis: 2012 update. *Perit Dial Int.* 2012 Jun;32 Suppl 2(Suppl 2):S32-86. doi: 10.3747/pdi.2011.00091. PMID: 22851742; PMCID: PMC3524923.



The History

2012

- Consensus Guidelines for the Prevention and Treatment of Catheter-Related Infections and Peritonitis in Pediatric Patients Receiving Peritoneal Dialysis: 2012 Update
- International committee of experts consisting of pediatric nephrologists, a pediatric dialysis nurse, and pediatric infectious disease specialist collaborated to develop the update to the original guideline
- Committee discussions took place via face-to-face meetings, conference calls and by e-mail
- Published literature as well as data from the IPPR registry was used to inform guideline recommendations.

Warady BA, Bakkaloglu S, Newland J, Cantwell M, Verrina E, Neu A, Chadha V, Yap HK, Schaefer F. Consensus guidelines for the prevention and treatment of catheter-related infections and peritonitis in pediatric patients receiving peritoneal dialysis: 2012 update. *Perit Dial Int.* 2012 Jun;32 Suppl 2(Suppl 2):S32-86. doi: 10.3747/pdi.2011.00091. PMID: 22851742; PMCID: PMC3524923.



The History

2023

- Consensus Guidelines for the Prevention and Treatment of Catheter-Related Infections and Peritonitis in Pediatric Patients Receiving Peritoneal Dialysis: **2023 Update in Progress**
- International committee of experts consisting of Pediatric Nephrologists, a Pediatric Dialysis Nurse, Pediatric Infectious Disease Specialists, a Biostatistician and a team of Adult Nephrologists trained in Health Research Methodology/Clinical Epidemiology
- Committee discussions took place via Microsoft teams meetings, email, shared electronic documents.
- Utilized process for developing high-quality research questions (PICO, EtD Framework)
- Published literature as well as data from the IPPN and SCOPE registries will inform the updated guideline recommendations.



Why 10 years?

- Minimal pediatric updates in the published literature.
- Registry data collection and analysis takes time to establish.
- Analysis/publication of results from registry data takes time to see through to publication.
- The process of rigorously evaluating the literature and data to inform guidelines takes at least 1 year.



2023 International Writing Committee

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Contributors Beyond the 2023 Writing Committee

- Patients and/or their caregivers who have given consent to participate in collection of their data for research/quality improvement
- All persons involved in the process of registry data collection
- Authors who have contributed to the published literature in pediatric and adult nursing and medicine that informs our guideline recommendations



Registry Data Progression



Consideration of Adult Literature

- Inclusion of adult ISPD recommendations when applicable to children
- PICO questions that couldn't be answered with review of pediatric literature and/or registry data
- When applicable, goal was to align new pediatric guideline updates with recent adult ISPD recommendations



Outstanding PICO Questions for Consideration

- Include recommendations for future research in the discussion areas of the recommendations
- Include expert opinions from the writing committee to inform these PICO questions in the recommendations



Summary

- Guideline development is a long process involving many entities
- In light of limited pediatric specific literature on care of the pediatric patient on peritoneal dialysis, registry data can be useful in informing guideline development
- 2023- Anticipated publication of the Pediatric ISPD Guideline update



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THANK YOU



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References

Warady BA, Bakkaloglu S, Newland J, Cantwell M, Verrina E, Neu A, Chadha V, Yap HK, Schaefer F. Consensus guidelines for the prevention and treatment of catheter-related infections and peritonitis in pediatric patients receiving peritoneal dialysis: 2012 update. *Perit Dial Int.* 2012 Jun;32 Suppl 2(Suppl 2):S32-86. doi: 10.3747/pdi.2011.00091. PMID: 22851742; PMCID: PMC3524923.

Warady BA, Schaefer F, Holloway M, Alexander S, Kandert M, Piraino B, Salusky I, Tranaeus A, Divino J, Honda M, Mujais S, Verrina E; International Society for Peritoneal Dialysis (ISPD) Advisory Committee on Peritonitis Management in Pediatric Patients. Consensus guidelines for the treatment of peritonitis in pediatric patients receiving peritoneal dialysis. *Perit Dial Int.* 2000 Nov-Dec;20(6):610-24. Erratum in: *Perit Dial Int* 2001 Jan-Feb;21(1):6. PMID: 11216549.

