

# Continuum of Care: A proposal for an Intensive Care followup clinic to address Post Intensive Care Syndrome-Pediatrics (PICS-p) Christina Fang, RN, MSN, CPNP-AC





### Introduction

- Continuing advancements in pediatric medicine, standards of care and technology have led to increased survival rates in critically ill children.
- As pediatric intensive care mortality rates drop, new morbidities are occurring after discharge that affect the patient and family's quality of life and overall outcome.
- Post Intensive Care Syndrome-pediatrics (PICS-p)
  refers to children who are discharged from the
  intensive care unit who subsequently develop new
  long-term physical, cognitive, developmental and
  psychological impairments.
- PICS-p may lead to daily life disorders, learning disorders, social difficulties and a reduced quality of life.



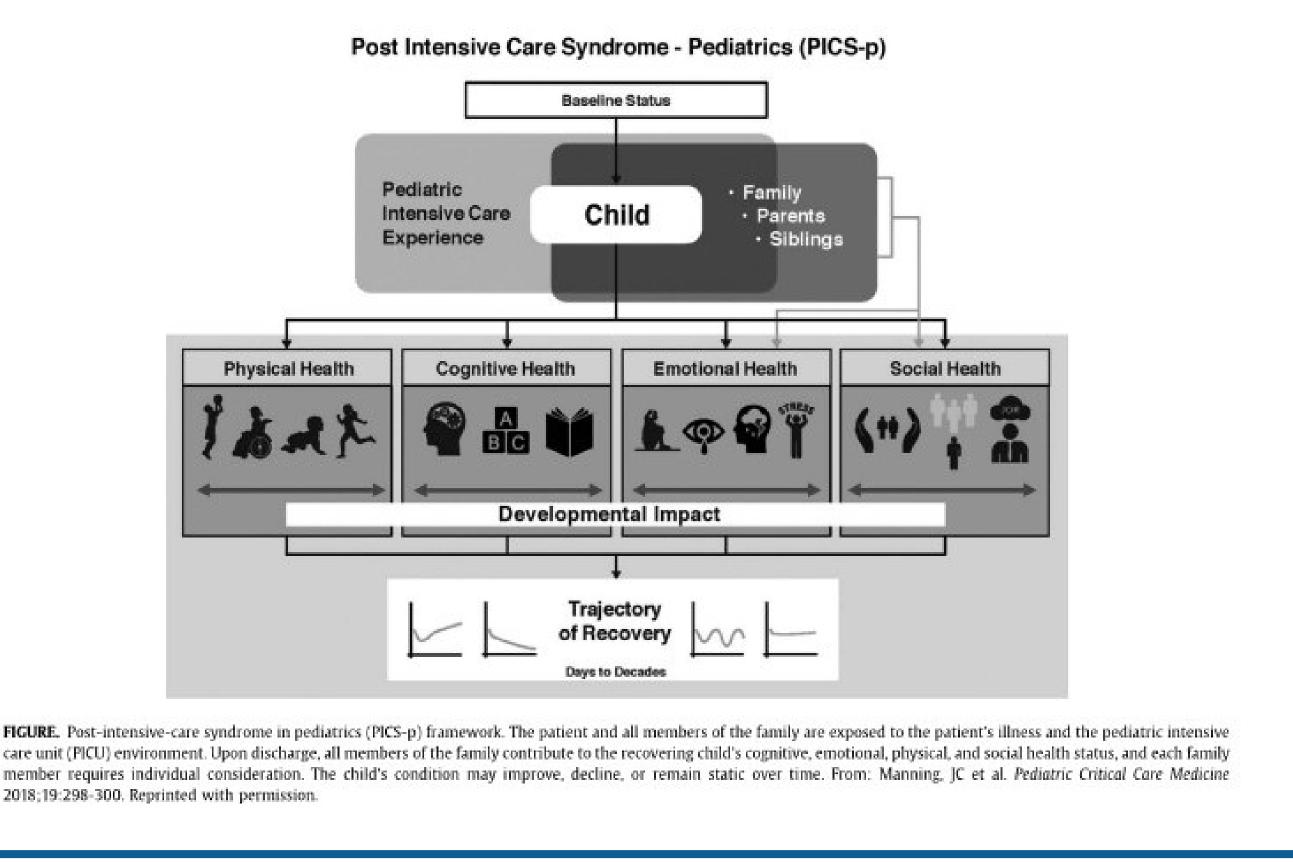
https://www.nicklauschildrens.org/medical-services/pediatric-critical-care-medicine/ecls

## Objective

 Establish a successful interdisciplinary PICS-p clinic in Neurodevelopmental and Behavioral Pediatrics to educate, assess, treat and support patients and their families to improve health related quality of life.

### Methods

- Use St. Louis Children's Hospital PICU follow-up clinic as prototype.
- Collaborate with PICU team and determine what criteria will be used for referral to clinic.
- Once referral is placed, Developmental Peds NP will meet with family and patient to determine if and when the patient and family should be seen.
- NP will offer family resources on what PICS-p is as well as signs and symptoms to look for in their child.
- Components of the clinic include: evaluation of development, cognitive function, psychosocial state and family support to assess for ongoing needs and provide assistance.
- Team members of the clinic include: Developmental Peds RN, RN coordinator, Developmental Pediatrics NP, PICU MD or NP, Psychologist, Psychiatrist, Occupational Therapist, Speech Language Therapist, Education Consultant.



## Implications

- Benefits of the clinic would be optimizing patient recovery after illness and facilitating the transition of the patient and family to the home environment and community.
- The clinic would allow for early detection of complications and assist with access to appropriate services thereby improving the patient and family's health related quality of life.

## Next Steps

• Formal proposal to hospital administration explaining the Situation, Background, Assessment and Recommendation through SBAR framework.

#### References

1. Als, Lorraine C. PhD1; Nadel, Simon FRCP2; Cooper, Mehrengise FRCPCH2; Pierce, Christine M. FRCPCH3; Sahakian, Barbara J. PhD, DipClinPsych, FMedSci4; Garralda, M. Elena MD, FRCPsych, FRCPCH1 Neuropsychologic Function Three to Six Months Following Admission to the PICU With Meningoencephalitis, Sepsis, and Other Disorders, Critical Care Medicine: April 2013 - Volume 41 - Issue 4 - p 1094-1103

oi: 10.1097/CCM.0b013e318275d032

Critical Care Medicine: April 2018 - Volume 19 - Issue 4 - p 298-300

2. Biagas, K. V., & Hough, R. F. (2016). Post–Intensive Care Syndrome: A Look at PICU Outcomes. Pediatric Critical Care Medicine, 17(11), 1101.

3. Esses, S. A., Small, S., Rodemann, A., & Hartman, M. E. (2019). Post-intensive care syndrome: educational interventions for parents of hospitalized children. American Journal of Critical Care, 28(1), 19-27.
4. . Hartman, M. E., Williams, C. N., Hall, T. A., Bosworth, C. C., & Piantino, J. A. (2020). Post-intensive-care syndrome for the

pediatric neurologist. Pediatric neurology, 108, 47-53.

5. Manning, Joseph C. RN, PhD1,2,3; Pinto, Neethi P. MD, MS4; Rennick, Janet E. RN, PhD5,6; Colville, Gillian MPhil, CPsychol7; Curley, Martha A. Q. RN, PhD8,9,10 Conceptualizing Post Intensive Care Syndrome in Children—The PICS-p Framework\*, Pediatric

doi: 10.1097/PCC.000000000001476
6. Pinto, Neethi P. MD, MS1; Rhinesmith, Elizabeth W. MD2; Kim, Tae Yeon BA3; Ladner, Peter H. BA3; Pollack, Murray M. MD2
Long-Term Function After Pediatric Critical Illness: Results From the Survivor Outcomes Study\*, Pediatric Critical Care Medicine:

March 2017 - Volume 18 - Issue 3 - p e122-e130 doi: 10.1097/PCC.0000000000001070

7. Tang, M., Xu, M., Su, S., Huang, X., & Zhang, S. (2021). Post-intensive care syndrome in children: A concept analysis. Journal of

7. Tang, M., Xu, M., Su, S., Huang, X., & Zhang, S. (2021). Post-intensive care syndrome in children: A concept analysis. Journal of Pediatric Nursing, 61, 417-423.

910.

8. Watson, R. S., Choong, K., Colville, G., Crow, S., Dervan, L. A., Hopkins, R. O., ... & Curley, M. A. (2018). Life after critical illness in children—toward an understanding of pediatric post-intensive care syndrome. The Journal of pediatrics, 198, 16-24.

9. Williams, C. N., Eriksson, C., Piantino, J., Hall, T., Moyer, D., Kirby, A., & McEvoy, C. (2018). Long-term Sequelae of Pediatric Neurocritical Care: The Parent Perspective. Journal of pediatric intensive care, 7(4), 173–181. https://doi.org/10.1055/s-0038-1627005

10. Woodruff, A. G., & Choong, K. (2021). Long-term outcomes and the post-intensive care syndrome in critically ill children: A North American perspective. Children, 8(4), 254.

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