## **PCICS QI Research Practice Survey**

Please complete the survey below.

Thank you!

Dear PCICS members,

Attached is a survey on quality improvement (QI) research. Our aim is to query the state of past and present QI research within the discipline of Pediatric Cardiac Intensive Care. This survey will serve to inform the PCICS QI Committee on the state of QI research amongst member institutions, as well as to identify gaps or needs. This is a first step in better understanding a role that the PCICS QI Committee can serve to support institutions' needs, drive collaborations, and utilize available infrastructure.

Participation is voluntary and respondent identifiers will not be collected. For questions or concerns, please contact us at brunettim@chop.edu.

Sincerely,

Marissa A. Brunetti, Children's Hospital of Philadelphia

Kevin Hummel MD, Boston Children's Hospital

Katja Gist MD, Cincinnati Children's Hospital

Tia Raymond MD, Medical City Children's Hospital

Carmen Watrin RN, MSN, Texas Children's Hospital

On behalf of the PCICS Quality Improvement and Safety Committee



12/13/2022 8:53am

Which hospital is your cardiac ICU associated with?	Other (Not listed below)
• • • • • • • • • • • • • • • • • • • •	Advent Health for Children
	Advocate Children's Hospital
	<ul><li>Aga Khan University</li></ul>
	Albany Medical Center
	Alberta Health Services
	American Family Children's Hospital
	Amrita Institute of Medical Sciences
	Ann & Robert H Lurie Children's Hospital of Chicago
	Anglia Hassital Dalhi
	Apollo Hospital Delhi     Arkansas Childron's Hospital
	Arkansas Children's Hospital     Arnold Palmer Hospital for Children
	<ul> <li>Arnold Palmer Hospital for Children</li> <li>Ascension Seton Dell Children's Medical Center</li> </ul>
	Atrium Health Levine Children's
	Banner Medical Group
	Batson Children's Hospital
	Benioff Children's Hospital
	O Boston Children's Hospital
	O Bozhana Bakalcheva
	C.S. Mott Children's Hospital
	Cedars Sinai Medical Center
	<ul> <li>Centre Mere-efant Soleil du CHU de</li> </ul>
	Quebec-University Laval
	<ul><li>Chest Diseases Hospital Kuwait</li></ul>
	Children's Hospital of Philadelphia
	Children's Hospital of Atlanta
	Children's Health Dallas Medical Center
	Children's Health Ireland (CHI) at Crumlin
	Children's Health System of Texas
	Children's Heart Nevada
	Children's HeartLink Children's Hespital at OU Medical Center
	Children's Hospital at OU Medical Center
	○ Children's Hospital Los Angeles
	Children's Hospital Los Angeles Children's Hospital New Orleans
	<ul><li>Children's Hospital New Orleans</li><li>Children's Hospital of Georgia</li></ul>
	Children's Hospital of Michigan
	Children's Hospital of Orange County
	Children's Hospital of Pittsburgh
	Children's Hospital of Richmond at VCU Health
	<ul><li>Children's Hospital of the King's Daughters</li></ul>
	Children's Hospital of Wisconsin
	Children's Hospital of St Louis
	<ul> <li>Children's Hospitals and Clinics of Minnesota</li> </ul>
	Children's Memorial Hermann Hospital
	Children's Mercy Hospital
	<ul><li>Children's National</li></ul>
	○ Children's of Alabama
	Children's of Mississippi
	Children's Omaha
	Cincinnati Children's Hospital Medical Center
	Cipto Mangunkusumo Hospital
	Cleveland Clinic
	Cliniques universitaires Saint-Luc
	Cohen Children's Medical Center
	Cook Children's Medical Center
	Doernbecher Children's Hospital     Driscoll Children's Hospital
	<ul><li>Driscoll Children's Hospital</li><li>Duke University</li></ul>
	Duke university     El Paso Children's Hospital
	Eskisehir Osmangazi University
	Fortis Escorts Heart Institute
	Garrahan Hospital
	Geiseinger
	Golisano Children's Hospital
	Great Ormond Street Hospital
	Hassenfeld Children's at NYU Langone Health
.2/13/2022 8:53am	O Helen Devos Children's Happital REDCap
.=, ==, ===============================	projecticacapiony NLDCap

Hong Kong Children's Hospital
O Hospital de Messajana
Hospital for Sick Children
O Hospital Sanaritano de Sao Paulo
Hospital Zambrano-Hellion
○ Incor - Peru
<ul> <li>Indiana University School of Medicine</li> </ul>
○ Inova Children's Hospital
Jaypee Hospital Noida
○ Joe DiMaggio Children's Hospital
O Johns Hopkins Children's Center
○ Johns Hopkins All Children's
○ Kaiser
○ Kardias Foundation
Kentucky Children's
○ Kimberley Regional
King Faisal Specialist Hospital and Research Center
KK Women's and Children's Hospital
○ Kosher Children's Hospital
<ul><li>Kravis Children's Hospital at Mt Sinai</li></ul>
<ul> <li>Lady Ridgeway Hospital</li> </ul>
○ Le Bonheur
○ Leeds
Leiden University Medical Center
C Loma Linda University
Lucile Packard Children's Hospital
Maine Medical Center
Mayo Clinic
Medical City
Medical University of South Carolina
Miller Children's Hospital
Moi Teaching and Referral Hospital
Monroe Carell Jr Children's Hospital at Vanderbilt
○ Montefiore
Morgan Stanley Children's Hospital
National Cardiovascular Center Harapan Kita
National Heart Hospital Sofia Bulgaria
National Institute of Cardiovascular Disease
Karachi
○ Nationwide
Nemours
Nicklaus Children's Hospital
North Carolina Children's Hospital
Norton Children's Hospital
Obafemi Awolowo University
Ochsner Hospital for Children
Oklahoma Children's Hospital
O Phoenix Children's Hospital
O Polish-American Children's Hospital
O Primary Children's Hospital
Ready Children's Hospital
Rainbow Babies
Rocky Mountain Hospital for Children
Royal Brompton Hospital
Rush University
St Louis Children's Hospital
Santa Casa de Misericordia de Belo Horizonte
○ Seattle Children's Hospital
Siva Clinic Chennai India
SSM Health Cardinal Glennon Children's Hospital
St Christopher's Hospital for Children
St Joseph Children's Hospital of Tampa
Stollery Children's Hospital
Sunrise Children's Hospital
Sutter Medical Center
○ Texas Children's Hospital
The Royal Children's Hospital Melbourne
○ Tokyo Metropolitan Children's Medical Center
○ U.N. Mehta Hospital
○ UC Davis Children's Hospital
Ŭ UCLA Mattel

	<ul> <li>UF Shands Hospital</li> <li>University of Iowa Stead Family Children's Hospital</li> <li>University of Maryland Children's Hospital</li> <li>University of Nebraska Medical Center</li> <li>University of Rochester Golisano Children's Hospital</li> <li>University of Tennessee Health Sciences Center</li> <li>Vietnam National Children's Hospital</li> <li>West Virginia University Children's Hospital</li> <li>Wolfson Children's Hospital</li> <li>Yale New Haven Children's Hospital</li> </ul>
How would you categorize your hospital designation?	<ul><li>Freestanding children's hospital</li><li>Non-freestanding children's hospital</li></ul>
How would you categorize your practice designation?	<ul><li>Academic/teaching</li><li>Non-academic</li></ul>
Are the patients with cardiac critical illness in your organization cared for in a DEDICATED Cardiac ICU (4 walls or dedicated cardiac team) or a MIXED ICU (mixed cardiac and non-cardiac populations)?	<ul><li>○ Dedicated</li><li>○ Mixed</li></ul>
How many beds are dedicated to your cardiac intensive care team?	
On average, how many annual admissions does your ICU have? Please average admissions for 2018, 2019, and 2020.	<pre></pre>
On average, how many cardiac surgical cases are performed annually at your institution? Please average case numbers for 2018, 2019, and 2020.	
On average, how many cardiopulmonary bypass cases are done annually at your institution? Please average bypass case numbers for 2018, 2019, and 2020.	
How many CICU attendings does your unit have? For the purposes of this question, please count any partial FTE attendings as a full FTE provider.	
Do you have in-house overnight CICU attending coverage?	○ Yes ○ No

Who provides front line care to your cardiac ICU patients? Choose all that apply.	<ul> <li>□ Critical care fellows</li> <li>□ Cardiology fellows</li> <li>□ NICU fellows</li> <li>□ Pediatric residents</li> <li>□ Nurse practitioners/physician assistants</li> <li>□ Hospitalists (general pediatricians with no additional cardiac or critical care training)</li> <li>□ N/A; care is provided by the attending intensivist.</li> </ul>
How many total dedicated advance practice providers (nurse practitioners and physician assistants) does your unit have as front-line providers?	<ul><li>○ 0-5</li><li>○ 6-10</li><li>○ &gt;10</li><li>○ Unknown</li></ul>
Definitions for the below questions:	
Research: systematic inquiry to produce generalizable knowledge	ge and/or refine or validate existing knowledge
Quality Improvement (1,2,3): identifies performance gaps and p and test changes to systematically improve the quality and safe outcomes of new care processes.	
For the sake of this survey, QI research includes methods to desquality performed with the intent to disseminate via publication	
Please include projects that collect data and share that data as a process and either does not collect data or collects limited data	
How many CICU attending physicians or advance practice providers lead QI research?	<ul><li>○ 0-5</li><li>○ 6-10</li><li>○ &gt;10</li><li>○ Unknown</li></ul>
Have you participated in or led QI research in the past 5 years? Participation is defined as being a team member in an organized project with another person leading the work.	○ Yes ○ No
Was the QI research in the past single center or multicenter?	<ul><li>Single center</li><li>Multicenter</li><li>Both</li></ul>
Did the QI research in the past lead to a publication?	○ Yes ○ No
Please list the citation(s).	
Are you participating in or leading QI research currently? Participation is defined as being a team member in an organized project with another person leading the work.	○ Yes ○ No
Is the current QI research single center or multi center?	<ul><li>○ Single center</li><li>○ Multicenter</li></ul>
Have you used a registry or collaborative to obtain data in the multi center research?	○ Yes ○ No



12/13/2022 8:53am

Please list the registry or collaborative used.	
What type of QI support is provided to your CICU? Choose all that apply.	<ul> <li>□ A hospital-based QI section</li> <li>□ A departmental or divisional QI section</li> <li>□ A unit-based QI section</li> <li>□ We don't have a formal QI section in our organization</li> </ul>
Does your ICU have a dedicated QI specialist as support staff who has protected non-clinical time to perform QI work?	○ Yes ○ No
What type of work does the QI specialist do? Choose all that apply	☐ Data collection/Auditing ☐ Data review ☐ Project creation/lead ☐ QI training ☐ Safety compliance ☐ Other
Does your institution provide formal QI training?	○ Yes ○ No
What type of QI training does your institution provide? Choose all that apply.	<ul> <li>□ Online training course or modules</li> <li>□ Live formal training course</li> <li>□ Master's Degree</li> <li>□ Fellowship in QI</li> <li>□ Mentored projects</li> </ul>
Have you completed QI Training?	
If so, what type of training have you completed? Choose all that apply	<ul> <li>□ Online training course or modules</li> <li>□ Live formal training course</li> <li>□ Master's Degree</li> <li>□ Fellowship in QI</li> <li>□ Mentored projects</li> </ul>
Can QI work, including QI research, be used for faculty promotion?	<ul><li>○ Yes</li><li>○ No</li><li>○ N/A</li></ul>
Please select what type of QI support you would use if offered by PCICS. Choose all that apply.	<ul> <li>☐ Feedback on project ideas or design from an experin the field</li> <li>☐ Q&amp;A service to answer pressing QI questions</li> <li>☐ Resources and education on QI (self-directed course material/webpage)</li> <li>☐ QI course - bring your idea and develop it into a QI project</li> <li>☐ Network connections to others in PCICS with similar ideas/projects</li> <li>☐ Other</li> </ul>



## References

- 1. Module 4. Approaches to Quality Improvement. Content. Agency for Healthcare Research and Quality, Rockville, MD. Accessed April 7, 2021. https://www.ahrq.gov/ncepcr/tools/pf-handbook/mod4.html.
- 2. Fitzpatrick JJ. Distinctions Between Research, Evidence Based Practice, and Quality Improvement. Applied Nursing Research 2016; 29:261
- 3. Hirschhorn LR, Ramaswamy R, Devnani M, et al. Research versus practice in quality improvement? Understanding how we can bridge the gap. International Journal for Quality in Health Care, 2018, 30(S1), 24-28

REDCap\*

12/13/2022 8:53am projectredcap.org