

APPENDIX 1

POPCORN 1.0: Deliverable Progress Tracker

Legend

Not initiated	In progress	Completed	Not reached
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Pillars & Deliverables

Start Up of Platform Administrative and Legal Activities		
Deliverable	2024	2025
Hire POPCORN Platform Manager at MICYRN		
Execute the Research Collaboration Agreement and Data and Material Access Agreement for academic projects, with the 16 participating sites		
Transfer the funds to every site for the year		
Creation of Platform Infrastructure inclusive of pillars, teams, and committees		
Development of clear operational processes and guidelines		

Community Engagement Mentorship		
Deliverable	2023	2024
Develop POPCORN-specific educational resources for mentorship and training, based on a POPCORN-specific needs assessment exercise		
Harmonize the mentorship and training programs across POPCORN pillars and develop a national POPCORN platform for investigators and trainees		

Community Engagement Mentorship		
Deliverable	2023	2024
Create a national POPCORN-specific repository of national mentors / mentees, with pairing of mentor / mentee dyads (matching Early Career Researchers and trainees to more senior investigators)		
Engage with established POPCORN-affiliated national programs, such as ENRICH, for the formal ECR training and mentorship program; support 2 ECRs for a two-year ENRICH program enrollment (CCHCSP's newly CIHR-funded health research training platform) and impart advanced competency training through personalized mentorship that is multi- and inter-disciplinary		

Community Engagement Patient and Family Engagement		
Deliverable	2023	2024
Recruit and maintain a core group of patient and family advisors to support ongoing and ad-hoc engagement opportunities (ongoing objective as needs evolve)		
Develop SOPs and training material for network members to support embedded patient engagement practices		
Integrate Advisors and / or PE specialists across all three levels of the network and across all pillars		

Community Engagement Health Equity, Diversity, Inclusion, and Indigeneity		
Deliverable	2023	2024
Community-based interface and engagement: leverage existing community partnerships to build a potentially sustainable interface that enables the inclusion of participants who are seen in healthcare settings (outside of pediatric hospitals) that are likely to encounter significant numbers of persons from racialized communities		
Harmonized data collection on health equity measures: adapt the Caregiver (and Youth) Health Equity Survey to collect data on gender, race and ethnicity, language, disability, education, income, and other sociodemographic variables		
Qualitative interviews to understand experiences of pediatric healthcare providers and researchers during the COVID-19 pandemic applying an intersectional lens		

Community Engagement Health Equity, Diversity, Inclusion, and Indigeneity		
Deliverable	2023	2024
Participant inclusivity and engagement in research: include a variety of ways to ensure that children / youth and families may participate in POPCORN		

Pillar 1 Infectious Diseases		
Deliverable	2023	2024
Facilitate the integration of the four (4) Canadian infectious diseases networks: IMPACT, CPSP, CIRN and PICNIC, in clinical research on COVID-19		
Data previously collected by CPSP will be integrated with prospectively collected IMPACT data to provide a complete, harmonized dataset dating back to the start of the pandemic		
Ensure that POPCORN activities are cohesive with work being performed by CIRN		
Continued support of POPCORN projects inclusive of leadership of some projects where required		

Pillar 2 Inpatient Medicine		
Deliverable	2023	2024
Mentor and support trainees and new investigators in developing research projects in POPCORN		
Promote Pediatric Inpatient Medicine as an academic discipline with its own research agenda		
Facilitate the integration and collaboration across networks between pediatric inpatient medicine, emergency medicine, intensive care, and infectious diseases		
Ensure that POPCORN activities are informed by the Pediatric Inpatient Medicine perspective		

Pillar 3 Emergency Medicine		
Deliverable	2023	2024
Facilitate inter-organizational relationships with other subspecialty-based national research organizations		
Facilitate coordination of prospective research recruitment across pediatric specialties		
Encourage interdisciplinary collaboration		

Pillar 4 Critical Care		
Deliverable	2023	2024
Help to understand the clinical characteristics, risk factors, and evolution of pediatric patients who developed severe COVID-19 infection and were admitted to pediatric intensive care units		
Help to create a data platform to be used to timely launch research projects in case of a new pandemic, as well as to perform real-time surveillance and to inform public health		

Pillar 5 Epidemiology & Biostatistics		
Deliverable	2023	2024
Provide epidemiologic and methods expertise and insight to the overall network and to specific project teams to complement and enhance the approach to POPCORN studies and research		
Identify an Epi methods expert to collaborate with and provide consultation in partnership with each of the POPCORN teams and contribute to the overall aims of the studies		
Generate reports, figures, summaries, and data visualizations for CURNLS and POPCORN recruitment tracking and results, as needed		
Automate the process of generating reports and figures to ensure reproducibility and to respond to requests via efficient processes		
Serve as a hub for epidemiologists within the POPCORN network and work together to provide methodological expertise, review of proposals and study designs, interpretation of results, and feedback on scientific and governance aims		

Pillar 6 Data Governance		
Deliverable	2023	2024
Develop and implement a sustainable national common data infrastructure for Canadian child health researchers and for public health		
Provide a rapid and efficient way to collect and report harmonized, real-time data for research and surveillance		
Develop the front-end components of the POPCORN data platform: a dashboard for centralized and site-level data queries (user tested across networks), and data collection modules (POPCORN core, Pandemic, and PICU data modules)		
Install the CODA-19 open-source data analysis platform in 6 Canadian pediatric centres to allow pooling of anonymized patient data from multiple local data sources		

Pillar 7 Biobanking Governance		
Deliverable	2023	2024
Establish systems at each site to take advantage of residual samples (respiratory swabs, BAL fluid, serum / plasma) from POPCORN site hospital patients; collect dedicated samples for virologic and immunologic assays, using methods that optimize the preservation and yield of analytes for future studies		
Harmonize the sharing of prospectively collected pediatric samples, building on the infrastructure and processes of the biobank that already exists at several POPCORN sites and CoVaRR-Net, which allows the rapid sharing of samples between investigators		
Configure established biobanks at POPCORN sites as CoVaRR-Net branches, operating under a data and materials sharing agreement signed by POPCORN sites		

Pillar 8 Knowledge Mobilization		
Deliverable	2023	2024
Build capacity and relationships with the POPCORN network and knowledge users (patient partners and decision-makers) to undertake and increase KM activities		
Establish methods and process for developing robust KM plans specific to priority projects		

Pillar 8 Knowledge Mobilization		
Deliverable	2023	2024
Implement and evaluate KM plans		
Liaison and integrated knowledge transfer with the Public Health Agency of Canada		