

## Supplementary File 5: Study Objectives, Outcomes, Hypotheses and Analysis Methods

Objective	Outcome	Hypothesis	Method of Analysis
<b>Primary:</b> To determine whether the MyREADY Transition™ BBD App intervention will result in improved transition readiness	<b>Primary:</b> <ul style="list-style-type: none"> <li>Change in TRAQ self-management score from Baseline to 6 months.</li> </ul>	Intervention > Control	ANCOVA
	<b>Secondary:</b> <ul style="list-style-type: none"> <li>Change in TRAQ self-advocacy score from Baseline to 6 months.</li> </ul>	Intervention > Control	ANCOVA
	<b>Secondary</b> <ul style="list-style-type: none"> <li>Health care transition experience</li> </ul>	Individual semi-structured interviews	Qualitative Methods
<b>Secondary:</b> What is the effect of the MyREADY Transition™ BBD App intervention for improving health and use of health systems?	<b>Primary:</b> <b>Population Health</b> <ul style="list-style-type: none"> <li>Serious illness (hospitalizations, ICU admission questions from Resource Use Questionnaire</li> <li>PedsQL™ Pediatric Quality of Life</li> <li>TRANSITION-Q</li> </ul>	Intervention > Control	ANCOVA for continuous outcomes  Logistic regression for hospitalization
	<b>Secondary:</b> <ul style="list-style-type: none"> <li>Utilization MyREADY Transition™ BBD App</li> </ul>	User metrics built into MyREADY Transition™ BBD App intervention to assess the extent to which various components of the intervention are accessed	Descriptive
	<b>Secondary:</b> <b>Cost utility/cost-effectiveness</b> <ul style="list-style-type: none"> <li>Health Utilities Index® (Hui2/3)</li> <li>Resource Use Questionnaire</li> </ul>	Evaluate changes in patients' health in relation to changes in cost to assess if the intervention represents an efficient allocation of health care resources	Descriptive. Cost-effectiveness analysis with support from Child-Bright health economics network team
	<b>Secondary:</b> <ul style="list-style-type: none"> <li>Achievement of health/life goals</li> <li>COPM</li> </ul>	Intervention > Control	Paired Student t-tests to compare mean ratings for performance and satisfaction on the COPM scoring system (10-point scale) with > 2 points difference as clinically meaningful difference

ANCOVA: Analysis of covariance

COPM: Canadian Occupational Performance Measure

HUI: Health Utilities Index®

ICU: Intensive Care Unit

TRAQ: Transition Readiness Assessment Questionnaire