



UTOPIAN Primary Care Trials Group – Session 4 *Minutes* Wednesday, May 27th, 2020 from 4:00 p.m. to 5:00 p.m., Zoom teleconference

Attendance:	Andrew Pinto (AP) – Chair
	Aashka Bhatt (AB)
	Noah Crampton (NC)
	Giles Pereira (GP)
	Marjan Moeinedin (MM)
	Rahim Moineddin (RM)
	Braden Gregory O'Neill (BGO)
	Michelle Greiver (MG)
	Eva Grunfeld (EG)
	Ross Upshur (RU)
	Donatus Mutasingwa (DM)

Regrets: Payal Agarwal (PA) Aisha Lofters (AL) Abhimanyu Sud (AS) Carolyn Steele Gray (CSG) Sumeet Kalia (SK) Ann Burchell (AB) Sheila Dunn (SD) Rosemarie Lall (RL) Sumeet Kalia (SK) Noah Ivers (NI) Tony D'Urzo (DU) Peter Selby (PS) Chris Meaney (CM) Joanne King (JK) Jennifer Rayner (JR)

Item	Торіс	Minutes	Action	Responsible
1	Introductions (Andrew Pinto)	• Andrew Pinto introduced those present on the phone.		
2	Review and approval of April 30, 2020 draft meeting minutes (All)	 Minutes of the previous meeting were approved by those present. 	Approved	
3	Learning topic: Adaptive Trial Design (Dr. Ross Upshur)	 Clinical trials, their design and analysis are constantly evolving field Structure of RCT: Standard architecture: Inception Cohort (sampling, inclusion and exclusion criteria) Method of Randomization (allocation to Treatment and Control groups) Observer groups over time and measure the outcomes (relevant issue is the difference between the Treatment and Control Groups) 		

	•	Theory	of RCT:	
		0	Randomization balances known	
		0	and unknown co-variates, such	
			that we have an un-biased	
			estimator (outcome measure) that	
			tells us the difference between the	
			Treatment and Control	
		0	We are trying to set up a form of	
			inference on the basis of the data	
	•	Adaptiv	ve Designs for Clinical Studies:	
		-	Model-based/Continual	
			Assessment Designs	
		2	Group Sequential/Sample-Size Re-	
		2.	Estimation Designs	
		2		
		3.	Group Sequential/Response	
			Adaptive Designs	
			Adaptive Randomization Designs	
	•	Charac	teristics of Adaptive Designs:	
		0	Streamlined	
		0	Flexible	
		0	Optimized	
		0	Data-driven	
		0	Systematic	
		0	Decision-oriented	
		0	Validity	
			Integrity	
		0		
		0	Bayesian	
		0	Simulation	
		0	Real-time	
		0	Robust	
		0	Cost-efficient	
		0	Sequential learning	
		0	Dynamic	
	•	8 Comr	non Types of Adaptations	
		0	Stopping early (or late, i.e.	
			extending accrual) with a	
			conclusion of superiority or	
			futility	
		0	Adaptively assigning doses to	
		0	more efficiently assess the dose-	
			outcome relations	
		0	Adding or dropping arms or doses	
			(perpetual motion machines)	
		0	Seamless phases of drug	
			development within a single trial	
		0	Changing the proportion of	
			patients randomized to each arm	
		0	Adaptively identifying in on an	
			indication or responder	
			population	
		0	Changing accrual rate	
		0	*Many of these 'types' can be set	
		0	up in advance (i.e. planned	
		Adamt	adaptations)	
	•	-	ve Trials Components:	
		0	Interim Analysis: Frequent	
		0	Randomization: Variable	
		0	Number of Arms: Few to many	

			a Has of Incomplete Data.				
			• Use of Incomplete Data:				
			Imputation at all stages				
			 Philosophy: Bayesian or 				
			Frequentist				
			 Control of Errors Rate: Via 				
			Extensive Simulation				
5	Discussion of	•	Aashka is maintaining a list of all the	•	Maintaining list and	•	Andrew
	trial proposals		COVID-related studies happening in the		sending out weekly		Pinto and
	and ongoing		DFCM and across UTOPIAN sites. In		communication		Aashka
	work		addition, we are also maintaining a list of	•	Email communication		Bhatt
	(All)		investigators who are connected to		from		
			different sites and the different trials they		<u>covid.trials@utoronto.ca</u>		
			are connected to.				
			• The advantage of keeping track of				
			this information, is that when trial				
			ideas emerge from our work, we				
			can quickly link these ideas with				
			sites and investigators.				
		•	13 COVID-19 trials ongoing at DFCM and				
			UTOPIAN sites (2 funded, 11 pending				
			funding)				
			• We will continue to update this				
			list, and share it with this group in				
			a frequent communication				
		•	We have secured an email:				
			<u>covid.trials@utoronto.ca</u>				
		•	Clinical Trials Bootcamp:				
			• A series of sessions that will run at				
			lunchtime over a two-week span				
			during the summer (similar to a				
			summer institute model)				
			• Will cover the basics of trials				
			• We will be seeking people to				
			present				
Meeting adjourned at 5:00 p.m.							
Next meeting: Thursday, June 18, 2020; 4:00 p.m5:00 p.m. (virtual)							
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