Additional File 2: Items from the World Health Organization Trial Registration Data Set

Item	Description
1. Primary registry and trial-	Primary Registry: ClinicalTrials.gov
identifying number	Identifying Number: NCT01973907
2. Date of registration in	October 27, 2013.
primary registry	
3. Secondary identifying	HIREB Project #: 13-295
numbers	
4. Sources of monetary or	Monetary Support
material support	i) Hamilton Health Sciences New Investigator Fund
	(Operating Grant - SQUEEZE: \$50,000)
	ii) Hamilton Health Sciences Research Early Career
	Award 2013, 2014 (Award – Programmatic Support
	including SQUEEZE: \$100,000)
	iii) Hamilton Health Sciences Research Strategic
	Initiatives (Operating Grant – includes SQUEEZE-D:
	\$299,453)
	iv) Canadian Blood Services/Canadian Institutes of
	Health Research New Investigator Salary Award
	2014-2019 (Award – Programmatic Support including
	SQUEEZE: \$300,000)
	v) Canadian Child Health Clinician Scientist Program
	Career Enhancement Program Award 2015-2019
	(Award – Programmatic Support including
	SQUEEZE: \$25,000)
5. Primary Sponsor	Hamilton Health Sciences
6. Secondary Sponsor	McMaster University
7. Contact for Public Queries	PI: Dr. Melissa Parker
	Associate Professor of Pediatrics, McMaster
	University
	Staff Physician, McMaster Children's Hospital
	1280 Main St W, Room 3E-20
	Hamilton, Ontario
	L8S4K1
	Email: parkermj@mcmaster.ca
	Tel: (905) 521-2100 Ext 76651
8. Contact for Scientific Queries	PI: Dr. Melissa Parker
	Associate Professor of Pediatrics, McMaster
	University Stoff Physician McMaster Children's Hearital
	Staff Physician, McMaster Children's Hospital
	1280 Main St W, Room 3E-20
	Hamilton, Ontario L8S4K1
	Email: parkermj@mcmaster.ca Tel: (905) 521-2100 Ext 76651
0. Public title	` '
9. Public title	Pilot study for the SQUEEZE Trial

10. Scientific title	Pilot study for the SQUEEZE Trial: a trial to
	determine whether septic shock reversal is quicker in
	pediatric patients randomized to an early goal directed
	fluid-sparing strategy vs. usual care
11. Countries of recruitment	Canada
12. Health condition(s) or problem(s) studied	Pediatric Septic Shock
13. Intervention(s)	At all points, the caring physician is directed to target ACCM hemodynamic goals using the particular strategy to which the patient is allocated. 1. Usual Care Arm Tier 1: Following randomization, further fluid boluses may be liberally administered to treat persistent signs of shock. The need for and/or timing of initiation of vasoactive medication(s) is at the discretion of the treating physician, but vasoactive support should not be initiated until a minimum of 60 mL/kg (or 3 litres for participants ≥ 50 kg) of isotonic fluid bolus therapy [crystalloid (0.9% Normal Saline or Ringers Lactate) and/or colloid (5% Albumin)] has been administered (Includes fluid boluses received in the 6 hours prior to randomization). Tier 2: If vasoactive medication(s) are initiated, the decision to administer further isotonic fluid bolus therapy versus escalating vasoactive medication support to target achievement of recommended ACCM hemodynamic goals is at the discretion of the caring physician. No restrictions regarding volume or number of fluid boluses administered. Intervention end: When the patient is free from infusion of vasoactive medication support and shock is reversed.
	2. Fluid Sparing Arm Tier 1: Vasoactive medication support should be initiated immediately following randomization for children with persistent signs of shock despite receiving a minimum of 40 mL/kg (or 2 litres for participants ≥ 50 kg) of isotonic fluid bolus therapy [crystalloid (0.9% Normal Saline or Ringers Lactate) or colloid (5% Albumin)] in the 6 hours prior to randomization. Tier 2: Once vasoactive medication(s) have been initiated, these should be preferentially titrated/escalated to target achievement of recommended ACCM hemodynamic goals. Further fluid bolus therapy should be provided only where

	intravascular hypovolemia is judged to be present in order to maintain adequate (but not excess) intravascular volume. Where further fluid bolus therapy is judged to be indicated, aliquots of 5-10 mL/kg (or 250-500 mL for participants ≥ 50 kg) of isotonic crystalloid or colloid can be given with the lowest acceptable volume preferred and the indication for administration documented. Intervention end: When the patient is free from vasoactive medication support and shock is reversed.
14. Key inclusion and exclusion	Inclusion Criteria:
criteria	Inclusion Criteria 1 and 3 must be answered YES to be eligible. 1. Age 29 days to <18 years of age * 2a. Persistent signs of shock defined as one or more of the following:
	i) Vasoactive Medication Dependence (need for vasoactive drug for hemodynamic support) ii) Hypotension (systolic and/or mean blood pressure
	< 5 th percentile for age) iii) Abnormal Perfusion, defined as the presence of 2 or more of the following: abnormal capillary refill (CR < 1 second (flash) or CR ≥ 3 seconds (delayed), tachycardia (HR > 95 th percentile for age), decreased level of consciousness, or decreased urine output). *2b. Suspected or confirmed septic shock
	*2c) Fluid Resuscitation Threshold Met. Patient has received within the previous 6 hours a minimum of: i) 40 mL/kg of isotonic crystalloid (0.9% Normal Saline or Ringer's Lactate), and/or colloid (5% albumin) as IV fluid bolus therapy for participants <50 kg. OR
	 ii) 2 litres of isotonic crystalloid (0.9% Normal Saline or Ringer's Lactate), and/or colloid (5% albumin) as IV fluid bolus therapy for participants ≥50 kg. 3. Fluid refractory septic shock as defined by the presence of 2a, 2b, and 2c. *Adapted from the International pediatric sepsis
	consensus conference: definitions for sepsis and organ dysfunction in pediatrics. [1] Exclusion Criteria: i) Patient admitted to the Neonatal Intensive Care Unit
	(NICU) ii) Full active resuscitative treatment is not within the

goals of care

	iii) Shock secondary to causes other than sepsis (i.e.
	obvious signs of cardiogenic shock, anaphylactic
	shock, hemorrhagic shock, spinal shock).
	iv) Patients requiring resuscitation in the Operating
	room or Post Anesthetic Care Unit.
	v) Previous enrolment in this trial, where known by
15 0 1	the research team
15. Study type	Allocation: Randomized
	Blinding: Investigators, Research Staff, and
	Healthcare Providers are not blinded to participant
	assignment
	Assignment: Parallel group, 2 study arms
	Purpose: To determine which of the two resuscitation
	strategies results in the best outcome for infants and
	children treated for suspected septic shock.
	Phase: Pilot Trial (for Phase III Trial)
	Method of Sequence Generation: Computer
	Generated Allocation sequence with no stratification
	or blocking
	Method of Allocation Concealment: Use of a Third
	party randomization technique
16. Date of First Enrolment	January 7, 2014
17. Target Sample Size	50 participants
18. Recruitment Status	Enrolling as of January 6, 2014.
19 Primary Outcome(s)	SQUEEZE: Feasibility of conducting a full scale trial
19 Timary Outcome(s)	based on 1) Enrolment rate of at least 2
	, , , , , , , , , , , , , , , , , , ,
	participants/month (2 participants/site/month if
	additional sites added) and 2) The ability to initiate
	study procedures within 1 hour of randomization
	(descriptive)
	SQUEEZE-D: To evaluate the feasibility of
	describing cfDNA in blood samples obtained for
	clinical purposes at baseline and 24 hours from
	children enrolled in the SQUEEZE Pilot Trial.
20. Key Secondary Outcomes(s)	SQUEEZE: Suitability of proposed eligibility criteria
Clinical Outcomes	Ability to collect clinical outcome data of interest
	Assessment of Process, Resource, Management
	aspects of study feasibility
	SQUEEZE-D: Proportion of SQUEEZE participants
	for whom specimens are obtained at baseline and 24
	hours. Assessment of process, resource, management
	aspect of study feasibility as pertains to obtaining and
	testing biological samples.
	1000000 01010 00111p100.