

BACKGROUND

- To promote quality care in hematopoietic stem cell transplantation (HSCT), the Foundation for the Accreditation of Cellular Therapy (FACT) requires use of evidence-based standard operating procedures (SOPs) for accreditation in HSCT
- Survival rates are improved at accredited centers
- There is a paucity of literature outlining best practices for implementing SOPs in resource-limited settings
- The Vietnamese Pediatric Hematopoietic Stem Cell Transplant and Cellular Therapies Consortium consists of all 14 hospitals treating children with blood diseases and cancer in Vietnam
- Across hospitals, use of SOPs for clinical procedures is variable and none have FACT accreditation

METHODS

Participants:

- 9 physicians and 6 nurses from 8 consortium hospitals
- Hospitals included 5 with established pediatric HSCT programs and 3 initiating HSCT within a year

Approach:

- Individual, semi-structured interviews
- Consolidated Framework for Implementation Research (CFIR) informed the discussion guide and validated approach to rapid qualitative analysis
- Verbatim transcripts summarized using a CFIR-informed template and data consolidated into matrices to identify shared themes

DISCUSSION

- While providers identified barriers to SOP use, they conveyed widespread support among consortium sites for overcoming these challenges
- Results can be leveraged to develop national strategies for implementing SOPs for pediatric HSCT in Vietnam

BARRIERS AND FACILITATORS TO IMPLEMENTATION OF STANDARD OPERATING PROCEDURES BY A VIETNAMESE NATIONAL PEDIATRIC HEMATOPOIETIC STEM CELL TRANSPLANT AND CELLULAR THERAPY CONSORTIUM

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AIM

Examine the barriers and facilitators to implementing SOPs for pediatric HSCT among a consortium of hospitals in Vietnam

RESULTS

CFIR domains	Key constructs	Barriers & facilitators to implementation
Processes	Reflecting and evaluating	Barrier 1. Inconsistent audits of SOPs performed by department leaders with competing priorities
Characteristics of systems	Resource continuity	Barrier 2. Variability in insurance coverage of and access to medications required for evidence-based care
Outer setting	External policies and incentives	Barrier 3. Lack of coordinated approach for developing and distributing SOPs within and among consortium hospitals
Inner setting	Readiness for implementation: Available resources	Barrier 4. High workload and limited time among providers hinder use of SOPs
	Readiness for implementation: Leadership engagement	Facilitator 1. Existing hospital-based mechanisms for approval of SOPs for use in clinical practice
Characteristics of SOPs	Complexity	Facilitator 2. Checklists concordant with SOPs facilitate their use in clinical care
	Perceived scalability	Barrier 5. Length and complexity of SOPs limit provider engagement with SOPs
	Relative advantage	Facilitator 3. Adaptability of SOPs across consortium hospitals
		Facilitator 4. Utility of SOPs in training providers in pediatric HSCT
		Facilitator 5. Shared understanding that SOPs improve quality and safety of patient care

WHAT IS A SOP?

Standard operating procedures (SOPs) provide step-by-step information on how to execute a task in a **uniform** manner. SOPs:

- Support the meeting of compliance standards and are required for stem cell transplant and cellular therapy **accreditation**
- **Standardize** procedures and approaches to common clinical scenarios
- Ensure everything goes according to **schedule**
- Serve as a **training** document
- Minimize adverse events and **maximize safety**

KEY QUOTES

"The challenge is knowing how to check whether these protocols are actually implemented on the floor... Currently we will just either randomly quiz the nurses and the doctors or just randomly observe. And if someone is, for example... missing some of the steps, then we will correct that person. We will give feedback right there, but we don't have a tracking record or a systematic way to check it...currently [we are] relying on the leadership [to check] and it is not done consistently"
- Participant #15, Nurse preparing to establish a HSCT program

"In my hospital, [we have] the frequent rotation of nurses and doctors...This is not good at all because new nurses require more time for training...we train all day, all the time...so I think if we can have SOP, the first benefit is that we can use it as training material to make sure that every nurse can follow it...or younger doctors who don't have much experiences in stem cell transplantation...we can ensure the safety during the stem cell transplantation for our patients."
- Participant #2, Doctor at established HSCT program



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