

# SOLUTIONS FOR PROJECT HANDS

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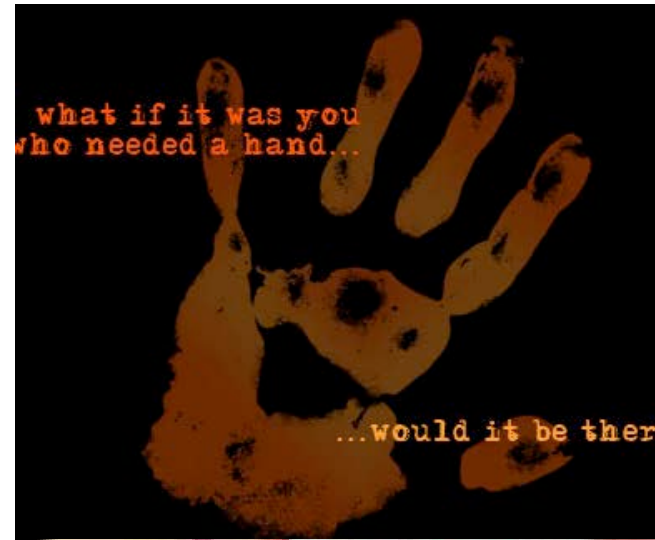
Streamlining Charting Documents to Support  
Surgical Mission Trips

By Gillian Albert, Corrie Dangerfield and Ben Nehra



# Getting to Know Project HANDS

- Project HANDS (Helping and Nurturing Developing Societies) is a Canadian non-profit organization
- The organization provides collaborative health care support to rural Guatemalan communities by supplying Canadian health care providers and resources for surgical missions trips
- Working in small local clinics with the partnership of Guatemalan health care providers, Project HANDS performs general, gynecological, and reconstructive surgeries



# Streamlining Charting: Major Goals

- Effective management of the diversity of nursing and medical practices between Canada and Guatemala
  - Creating charting documents that reduce confusion and can be easily interpreted by health care providers from both countries
- Design of documents that accommodate bilingual instructions
- Reformatting of current documents to enhance clinical precision
  - Troubleshooting of potential errors or miscommunication in current charting documents



# The Background Research

- CRNBC guidelines regarding nursing practice as a component of international development aid indicate that standards of practice must comply with the applicable standards of a nurse's home practice environment
  - As such, documentation practices must be thorough and precise to match those of a typical Canadian clinical setting (such as a hospital)
- Research by De Marinis et al. (2010) demonstrated that on average only 40% of nursing activities are documented in nursing records
- Research by Baker et al (1999) suggested that the use of coordinated clinical pathways may prevent deviations from established standards of care
- Comprehensiveness and accuracy of what occurs in practice need to be evident in the documentation (my note: this is even more complicated when trying to keep documentation simple and uncluttered for purposes of language barriers and difference in nursing practice when in international situations)
- Improving awareness of the importance of accurate and complete documentation by those who use it may have added benefit to reducing patient safety errors and communicative errors.
- Document deficiency has the potential to increase communication breakdown and compromise patient safety

# Reference Point: Charting by Meds Sans Frontiers (Doctors Without Borders)

The Montreal Branch of MSF provided us with exemplars of their surgical guidelines for a picture of typical documentation standards among non-profit organizations.

**World Health Organization SURGICAL SAFETY CHECKLIST (FIRST EDITION)**

**Before induction of anaesthesia**      **Before skin incision**      **Before patient leaves operating room**

**SIGN IN**

- PATIENT HAS CONFIRMED
  - IDENTITY
  - SITE
  - PROCEDURE
  - CONSENT
- SITE MARKED/NOT APPLICABLE
- ANAESTHESIA SAFETY CHECK COMPLETED
- PULSE OXIMETER ON PATIENT AND FUNCTIONING

DOES PATIENT HAVE A:

- KNOWN ALLERGY?
- NO
- YES

... DIFFICULT AIRWAY/ASPIRATION RISK?

**TIME OUT**

- CONFIRM ALL TEAM MEMBERS HAVE INTRODUCED THEMSELVES BY NAME AND ROLE
- SURGEON, ANAESTHESIA PROFESSIONAL AND NURSE VERBALLY CONFIRM
  - + PATIENT
  - + SITE
  - + PROCEDURE

ANTICIPATED CRITICAL EVENTS

- SURGEON REVIEWS: WHAT ARE THE CRITICAL OR UNEXPECTED STEPS, OPERATIVE DURATION, ANTICIPATED BLOOD LOSS?
- ANAESTHESIA TEAM REVIEWS: ARE THERE ANY PATIENT-SPECIFIC CONCERNS?
- NURSING TEAM REVIEWS: HAS STERILITY (INCLUDING INDICATOR RESULTS) BEEN CONFIRMED? ARE THERE EQUIPMENT ISSUES OR ANY CONCERNS?

HAS ANTIBIOTIC PROPHYLAXIS BEEN GIVEN WITHIN THE LAST 60 MINUTES?

- YES
- NOT APPLICABLE

IS ESSENTIAL IMAGING DISPLAYED?

- YES
- NOT APPLICABLE

**SIGN OUT**


NURSE VERBALLY CONFIRMS WITH THE TEAM:

- THE NAME OF THE PROCEDURE RECORDED
- THAT INSTRUMENT, SPONGE AND NEEDLE COUNTS ARE CORRECT (OR NOT APPLICABLE)
- HOW THE SPECIMEN IS LABELLED (INCLUDING PATIENT NAME)
- WHETHER THERE ARE ANY EQUIPMENT PROBLEMS TO BE ADDRESSED
- SURGEON, ANAESTHESIA PROFESSIONAL AND NURSE REVIEW THE KEY CONCERNS FOR RECOVERY AND MANAGEMENT OF THIS PATIENT

Before induction of anaesthesia	Before Skin incision	Before patient leaves operating room
<b>Sign IN</b>	<b>Time OUT</b>	<b>Sign OUT</b>
<ul style="list-style-type: none"> <li>· Patient has confirmed</li> <li>· Identity</li> <li>· Site</li> <li>· Procedure</li> <li>· Consent</li> </ul>	<p><b>Cross-check: OT nurse + surgeon + anesth.</b></p> <ul style="list-style-type: none"> <li>· Identity</li> <li>· Site</li> <li>· Operation</li> <li>· Consent</li> </ul>	<ul style="list-style-type: none"> <li>· Surgery report</li> <li>· Correct Sponge count</li> <li>· Correct labelling of specimen</li> <li>· Dysfunction</li> </ul>
<p>Confirmation by OT nurse</p> <ul style="list-style-type: none"> <li>· Necessary material</li> <li>· Sterile material</li> <li>· Complete patient file</li> </ul>	<p>Sharing of informations: are there any patient specific concerns</p> <ul style="list-style-type: none"> <li>· Surgery</li> <li>· Anaesthesia</li> </ul>	<p>Prescription for post operative care</p> <ul style="list-style-type: none"> <li>· Surgery</li> <li>· Anaesthesia</li> </ul>
<p>Confirmation by anaesthesia</p> <ul style="list-style-type: none"> <li>· Pre-operative visit</li> <li>· Check-list</li> </ul>	<ul style="list-style-type: none"> <li>· OT nurse</li> <li>· Antibiotic prophylaxis</li> <li>· X-ray displayed</li> </ul>	

Above: Surgical Safety Checklist  
Left: Perioperative List

# Current Charting at Project HANDS

		<b>DISCHARGE CHECKLIST</b>		NAME: _____
		DATE: _____	DOB: _____	
		CEDULA: _____		
V.S. (60 Minutes)	<input type="checkbox"/>			
Instructions	<input type="checkbox"/>			
Meds	<input type="checkbox"/>			
Follow Up Card	<input type="checkbox"/>			
Travel	<input type="checkbox"/>			
Voided	<input type="checkbox"/>			

Examples of charting documents currently used by health care providers on Project HANDS missions.



Medication Administration record

*Control de Medicamentos*

Date:  
*Fecha:*

Patient ID

Medication name, dose, frequency	time	signature	time	signature	time	signature	time	signature	time	signature	time	signature
<i>Nombre del Medicamento, dosis, frecuencia</i>	<i>horario</i>	<i>firma</i>	<i>horario</i>	<i>firma</i>	<i>horario</i>	<i>firma</i>	<i>horario</i>	<i>firma</i>	<i>horario</i>	<i>firma</i>	<i>horario</i>	<i>firma</i>

Above: Discharge Checklist  
Right: Medication Administration Record





# Areas for Further Exploration

- In the context of remote surgical work in rural areas, is electronic charting a feasible option to increase consistency and accessibility?
  - Electronic record keeping and charting has been demonstrated to reduce errors (Cowen et al., 2007)
- What is the most efficient way to document transfer of accountability given this unique clinical setting?
  - The College of Nurses of Ontario recommends that health care providers be trained in a standardized form of communicating the parameters around transfer of accountability to minimize errors and missed information (2009)
- Should document orientation and expectations be discussed with mission volunteers in a training session prior to providing care?



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