

Operations Risk Management at Off-site Ambulatory Centres



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Background



- ☐ Singapore General Hospital (SGH) started operating its Orthopaedic Sports and Joint Centre (OSJC) at the Camden Medical Centre at one Orchard Boulevard from mid-March 2013.
- □ Projections **65000** patients every year, or approximately **9%** of SGH's outpatient work-load.
- ☐ Support services such as radiology, pharmacy and physiotherapy needs to be provided.

Framework







reopie(starr)

Processes

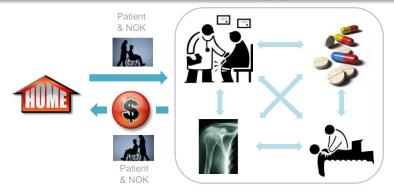
Patient

- ☐ Understanding of operations' dependence on SGH eco-system.
- ☐ Process and patient flow analysis. SOP mapping.
- ☐ Stratification of Areas-of-Influence (AOI) and risk mitigation prioritization.
- ☐ Modelling to identify infrastructure constraints

Generic Outpatient Flow at SGH



Streamlining patient flow at OSJC to mitigate operational risk



- □ One queue number for entire patient journey
 □ Dynamic flow of queue number 'push', 'pull'
 and 'hijack' to optimize resource utilization
- ☐ Entry of charges at point-of-service
- ☐ Appointments given at point-of-service
- □ Consolidated billing and final one-stop payment ⇒
- □ Patient journey provided as guide
- ☐ **Zoning and color coding** for easy way-finding
- ☐ Minimizing counter role through pre-queue no.
- ☐ Levels 2, 15 and 16 performing as one consolidated virtual unit

- - ⇒ Resource is not wasted
- Correct billing
- Accurate communication
- Reduces revenue loss
- ⇒ Prevents missed appointments
- Reduces navigation time
- ⇒ Prevents counter delays
 - Decreases operational redundancies

Macro-risk management strategies as a part of operations planning

| Category | Risk Description | Management at SGH Campus | Mitigation strategies for OSJC operations at Camden Medical Centre |
|--|---|---|--|
| Patient Safety | Inadequate response to emergency situations like collapse of patient. | Code Blue (dedicated ER team) is activated and patient is transferred to Emergency Department/ Ward. | Intra-OSJC ER team responds to any patient collapse. SCDF is activated. Patient, when stabilized, is transferred to SGH Emergency Department |
| Information Availability & Confidentiality | Patient information not available timely and compromise of confidentiality. | Casenotes and online clinical records. | No transfer of casenotes from SGH campus to OSJC. All patient information is captured online. Digital audit trails act as a deterrent to potential abuse and breaches. |
| Security | Abusive patient harms staff working at OSJC. The premises are broken into after office hours. | SGH security department as well as CCTV. | Response protocol involving Camden Security and SPF, detailed CCTV coverage, card-activated main entrance and alarm-activated pharmacy fridge. |
| Supply of stock items & essentials | Shortage of essential supplies due to oversight or an unexpected surge in patient volume. | Routine projections with provision of ad-hoc supply based on need. Storage not an issue due to sufficient relevant space. | Provision for thrice daily supply of essentials to OSJC from SGH campus based on active monitoring and just-in-time (JIT) analyses. |