

Implementing tools for real-time data collection and data-driven QI at UCMB Facilities

Dr. Stephen Businge Pediatrician and Chief Executive Officer Holy Innocents Children's Hospital



UBC THE UNIVERSITY OF BRITISH COLUMBIA





Smart Triage at UCMB

Implementation: Ongoing use of the Smart Triage system

Over 120,000 children triaged

Holy Innocents Children's Hospital (October 2018)

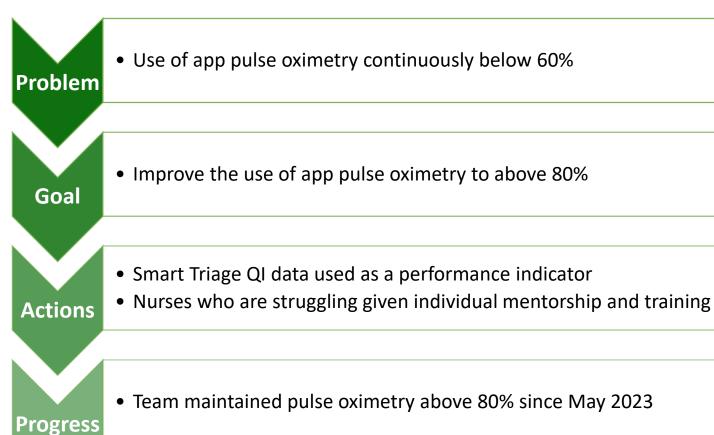
Uganda Martyrs' Hospital Ibanda (May 2022)

St. Joseph's Hospital Kitovu (June 2022)

Ongoing QI initiatives working on improving care



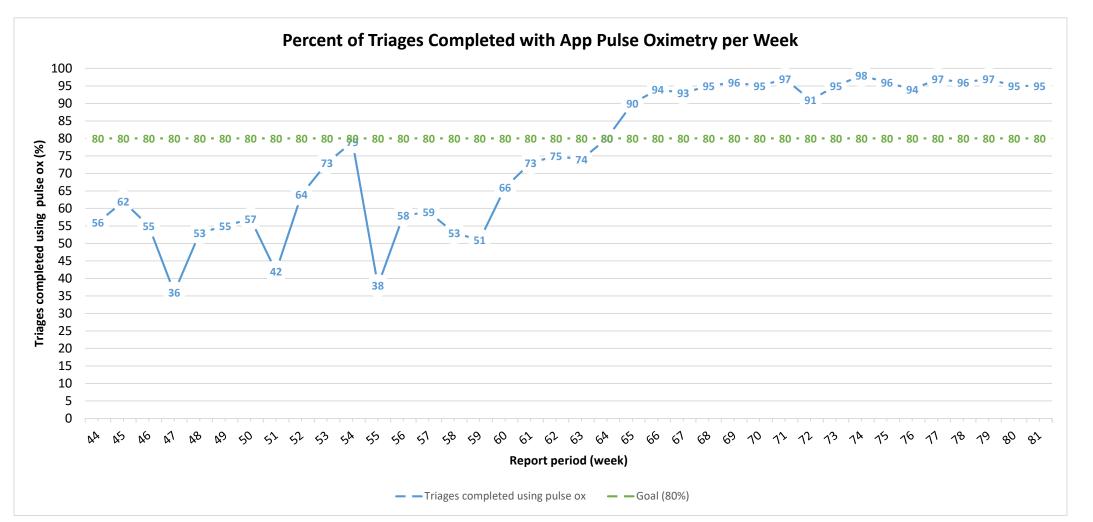
Example: Pulse oximetry at HICH



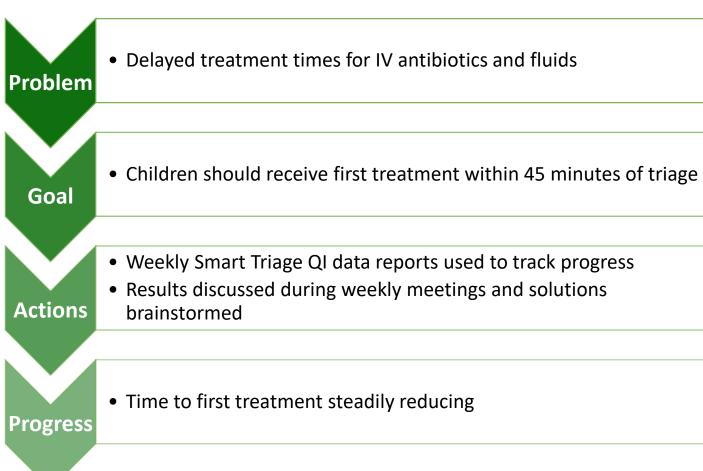




QI Report Example using Smart Triage Data



Example: Time to treatment at HICH



Smart Triage Improves Care

Holy Innocents Children's Hospital



Before Smart Triage 30 July 2018 – 5 Mar 2022 Average time to IV antibiotics: **59 minutes** Average time to IV fluids: **63 minutes**

Over 50,000 children triaged

After Smart Triage 5 Mar 2022 – 31 July 2023

Average time to IV antibiotics: **38 minutes**

Average time to IV fluids: 49 minutes

36% reduction in time to IV antibiotics and 22% reduction in time to IV fluids

Smart Triage Improves Care

Uganda Martyrs' Hospital Ibanda



Before Smart Triage 20 Dec 2021 – 23 May 2022 Average time to IV antibiotics: 123 minutes Average time to IV fluids: 124 minutes



Over 2,500 children triaged

After Smart Triage 30 May 2022 – 19 Sep 2023 Average time to IV antibiotics: 45 minutes Average time to IV fluids: 22 minutes

This is a 63% reduction in time to IV antibiotics and 82% reduction in time to IV fluids

Smart Triage Improves Care

St. Joseph's Hospital Kitovu



Before Smart Triage 3 Dec 2021 – 7 Jun 2022 Average time to IV antibiotics: 175 minutes Average time to IV fluids: 108 minutes



Over 3,400 children triaged

After Smart Triage 27 Jun 2022 – 19 Sep 2023 Average time to IV antibiotics: 109 minutes Average time to IV fluids: 67 minutes

This is a 38% reduction in time to IV antibiotics and 38% reduction in time to IV fluids



"I triaged this child and realized it was an emergency and immediately I took him to be reviewed by a clinician."

"The care I gave through taking vital observations and immediate care saved the life of the child."

"I gave emergency intervention to a convulsing child and saved her life."

"I nebulised a child with difficult in breathing and stabilized him. I was fast in decision making."

Next Steps

EMR System Integration to streamline processes



• Smart Triage integrated within the Care2x system

St. Joseph's Hospital Kitovu

• Integration within MedicAudit in progress

Holy Innocents Children's Hospital

• Planned integration within Medic system



Peer-to-Peer Learning at HICH

