Modernising Vaccine Stock Management with EPIC

Before

What is Stupid? Why is it Stupid?

- Clinic Vaccine(s) Stocks are manually tracked and recorded in the excel file kept in cabinet
- Staff are to update the vaccine supplies:
- from the pharmacy
- after each vaccination. and/or
- any other movement of the vaccine(s) stock
- Incidences of recording omissions due to workload or oversight
- Manual recording of various vaccine(s), vaccine stock checks, filing of inventory records and storing of records are tedious, time consuming and inefficient
- Labour intense if the vaccine (s) stocks are incorrect at the end of the clinic sessions

What was Implemented?

Improved process of tracking vaccine stock with Epic Lot Manager System

Staff are required to update vaccine(s) supplies from pharmacy in the vaccine (s) inventory file stored in the cabinet (10 mins)

Staff are to update the vaccine inventory file after each patient vaccination (5 mins)

Manual vaccine(s) stock check performed at the end of the day to ensure it tallies with the inventory record (5 mins)

per year **NUHS** on average

G.R.O.S.S.

Vaccine (s) supplies from pharmacy is updated using EPIC Lot manager (2 mins)

Now

EPIC Lot manager system will automatically update the quantity after each patient vaccination (0 mins)

EPIC Lot manager system provides real time tracking & simplified vaccine(S) stock check (0 min)

on average 0 mins per

year

on average

104 mins

per year

on average 0 mins per year

Impact

97% reduction in time spent on manual entries (from 3,440 to 104 minutes annually)

on average

1,620 mins

520 mins per

year

on average

1,300 mins

per year

- Elimination in incidents due to oversight and human prone errors (from 17 to 0 incidents annually) thereby minimising risk of errors
- Improved data accuracy and efficiency
- Paper saved: 60 pcs annually, reducing the need for physical storage space

Transition from Manual Vaccination Certificates to Digital Access via NUHS App

What is Stupid? Why is it Stupid?

- ☐ Staff provides patient with printed copies of the vaccination certificate and post vaccine advice.
- Risk of PDPA breach
- Manual data entries are time consuming
- Excessive paper usage
- Manual hard copies contribute to environmental waste

What was Implemented?

Digitalised Vaccination Certification and Post Vaccination Advice

Before

A hardcopy vaccination certificate, including vaccine advice is generated from EPIC, printed by nurse and given to patient/NOK





Now

Digitalised
Vaccine
Certificate and
post vaccine
advice using
the NUHS app



Impact



Time saved 648min annually



Paper saved **324 sheets on average per year** promoting environmental sustainability



A secure electronic platform ensured compliance and reduce **PDPA risk to 0%.**



Accessing information through app-provides up to date healthcare information

#840 & 841 NTFGH Clinics & Care

Going Digital for NTFGH SOCs!

#840 : Management of Vaccine Stock with EPIC Lot Manager System

- Time saved :
 ↓97% processing time
 (55.6 hours saved annually)
- Minimised risk of error
- Saved 60 sheets of paper annually; need for physical storage space

#841 : Digitalised Vaccination Certification and Post Vaccination Advice via NUHS App

- Time saved: 10.8 hours saved annually
- Patients receive up-to-date information
- Minimised PDPA risk
- Saved 324 sheets of paper annually



Gurpreet Kaur Hafidah Arshad Sandra Yow

Not in photo: Tay Lee Hiang