From compact "legacy" To mega "technology"

By Dr. Leo CW KONG

Coordinator, medical posts of CYE QC, SKORC QC, Site X Surveillance Team & PBQC

Professional Development and Quality Assurance Service,

Department of Health, HKSARG



- "'MEGA" in terms of size:
- Chun Yeung Estate QC &Penny's Bay QC

"TECHNOLOGY"

The emergence of technology-based solutions

Lady
MacLehose
Holiday Village
Quarantine
Centre
(LMHV QC)

Only good for less than 50 confinees

Chun Yeung Estate Quarantine Centre (CYE QC)

- A public housing estate in Fo Tan, New territories
- Far from other residential areas
- 5 blocks

Chun Yeung Estate Quarantine Centre (CYE QC)

- l large QC, at CYE block 1, 2, 3& 5, but 4 medical posts (MPs)
- Around 2000 units
- Each unit could accommodate l to 6 confinees, depends on the size of the units
- A single MP would have to take care of almost 1000 confinees

Chun Yeung Estate



Chun Yeung
Estate
Medical Post
Pre-





Chun Yeung
Estate
Medical Post
Post-



Chun Yeung Estate



Penny's Bay Quarantine Centre (PB QC)

- 5 phases: 1, 2, 3a, 3b & 4
- Total 3500 modular integrated construction (MiC) units
- Total 7000 confinees



Penny's Bay Quarantine Centre Medical Post (PBQC MP)

_imitation previous practice

- l team for each medical post in CYE QC
- Reduced flexibility on staff mobilization
- Different practice adopted by different MP
- Communication and logistics problems

Change of manpower arrangement

- A MEGA team for all MPs in PBQC
- Pros:
- 1. flexibility on utilization of manpower
- 2. same practice among all MPs
- 3. communication very much facilitated
- 4. same arrangement on logistics

previous practice

- Vicious work cycles –
- 1. collection of data
- 2. management of data including:
- i) data entry electronic data
- ii) filing of physical data records
- iii) data transfer between data users by fax, emails, phone, etc
- iv) maintenance of data including update, storage and retrieval of data, etc

Limitation previous practice

- Labour intensive
- Time consuming
- Loads of paperwork and thus loads of paper used

Limitation previous practice

We need change of practice

Solutions

- Work redistributed and workflow redesigned
- Merge admission work into surveillance programme
- Objectives:
- 1. no need to deliver questionnaires, and thus no doorto-door visits, no blind door-knocking
- 2. reduce the use of paper
- 3. reduced use of PPE
- 4. colleagues more available to other clinical duties despite massive admission of confinees
- 5. better social distancing and thus better infection control

Technology based solution

- Prerequisite: timely and reliable data available for commencement of surveillance programme
- Determined to turn to other resources, especially those from technology-based arena
- Conclusion: we need a computerized system with interface for data retrieval from other work partners, so that:

list of confinees

surveillance programme materials

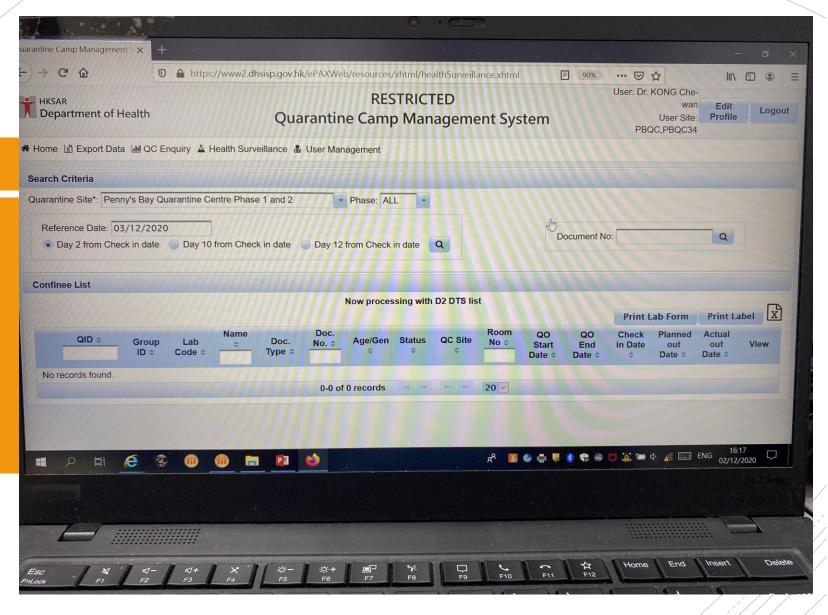
medical documents

data storage

Quarantine Centre Management System (QCMS)

- Health Informatics and Technology Office (HITO) of Department of Health, HKSARG
- Designed for extensive users
- For MPs:
- 1. list of confinees
- 2. availability of reliable demographic data of confinees
- 3. automated generation of confinee list for DTS testing and label printing
- 4. automated production of various medical documents
- 5. reduced the need, delay and failure of data transfer between service centres as the database is accessible via internet

Quarantine
Centre
Management
System
(QCMS)



Issues

- Web-based self-reporting surveillance system
- Real-time surveillance cum clinical assessment system
- Technology-based solution for collection and delivery of materials

Robot?!



Coronavirus: Tunisia deploys robots to enforce lockdown

Bed allocation of confirmed COVID-19 infection

- COVID-19 ADMISSION ALLOCATION SYSTEM (CAAS)
- Pros:
- 1. reduced paperwork
- 2. less data transfer
- 3. easy to trace progress of bed allocation
- 4. easy to check the exact bed allocation information
- May consider creating an interface between QCMS and CAAS

Evolution

Changes with changes

Thanks!

- Heartfelt thanks to different services, divisions, offices and branches of our Department and fellow organisations
- Indebted to colleagues, current or retired, from all Bureaus and Departments
- Appreciate the support from Seniors and Directorates
- Grateful that we have all Hong Kong people joining us the FIGHT of COVID-19 pandemic

Reminiscence Video

Together, we shall prevail! Thank you!

The End