# Complete Audit on Utilization of End-tidal capnography in ACLS

Dr KM Poon

Dr CT Lui

Samuel Ma

William Chan

Dr KL Tsui

**Dr S Tang** 

Dr KL Ong

NTWC A&E



### Methodology

- Data source
  - NTWC Cardiac Arrest Registry (CAR)
  - A linked database from
    - Resuscitation process Prospective data collection with Optical Mark Recognition (OMR) technology
    - Outcomes CDARS
    - Patient demographics AEIS
  - ETCO2 usage were collected by reviewing the resuscitation chart



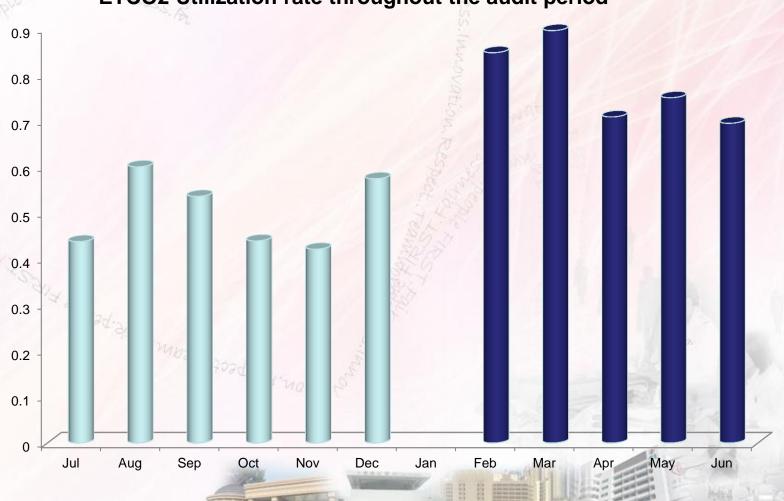
#### Outcome measures

- Primary outcomes:
  - ETCO2 Utilization + documentation rate
- Secondary outcomes:
  - Return of spontaneous circulation (ROSC) rate ≥ 10 mins
  - Survival to admission (STA) rate
  - Survival to discharge (STD) rate



# Sustainability





新界西·醫院聯網

## Results - Outcomes

THE THOUGHT S				
	Pre-intervention	Post- intervention	p value	
ETCO2 applied	118/233 (50.6%)	154/194 (79.4%)	< 0.0001	
ETCO2 applied within 5 minutes of intubation	114/233 (48.9%)	150/194 (77.3%)	< 0.0001	
ROSC	55/233 ( <mark>23.6%</mark> )	59/194 (30.4%)	0.113	
STA	51/233 ( <mark>21.9%</mark> )	55/194 (28.4%)	0.124	
STD	5/233 ( <mark>2.1%</mark> )	5/194 (2.6%)	1.0 *	
Homm	Ipst. Feepeet. Teal		10/10	
	10770 6	Statistics by Chi-square test		

Statistics by Chi-square test \* Fisher's exact test

