



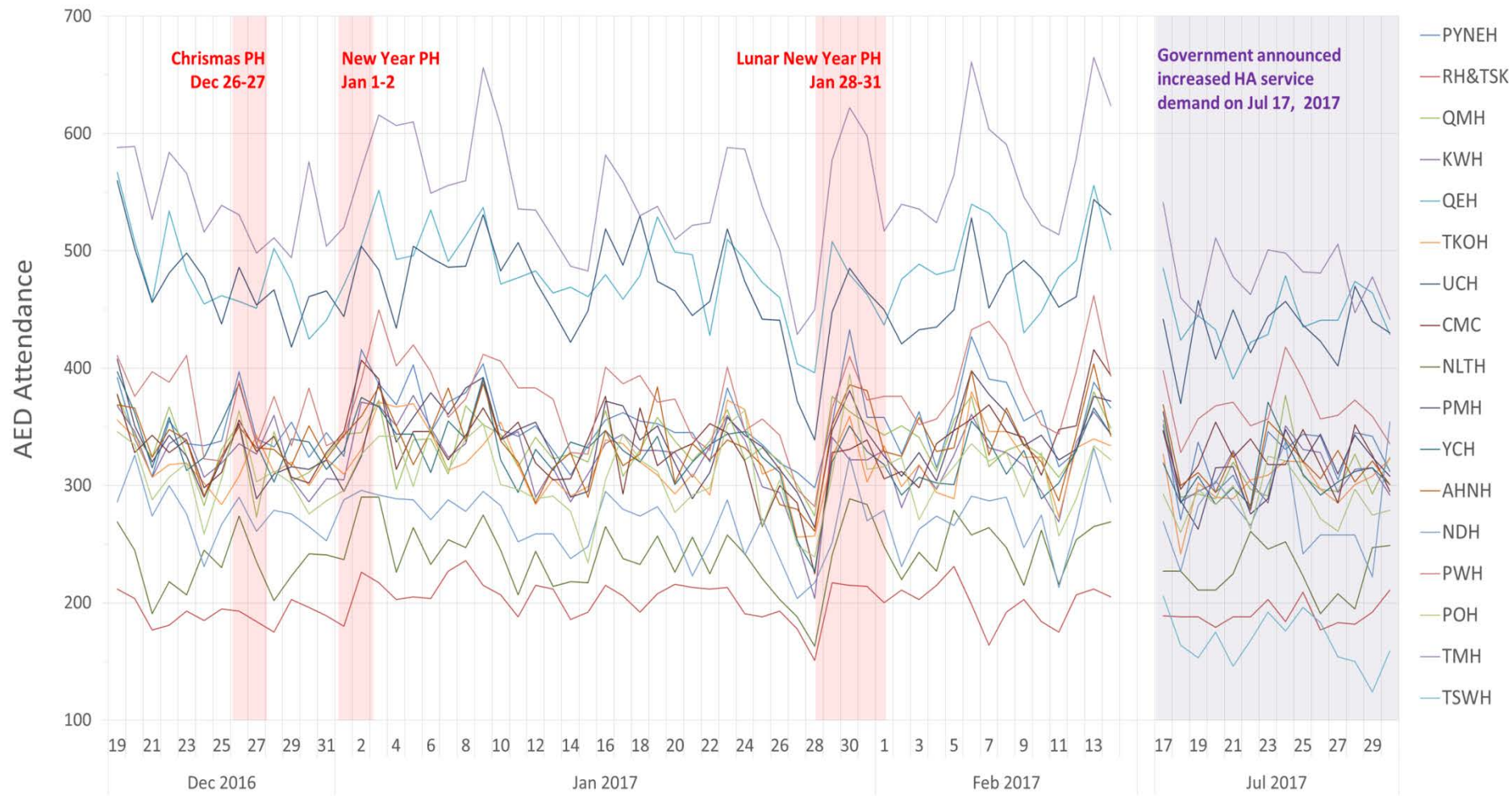
A prolonged winter surge and an unusual summer surge in 2016/17: what could we do?

Dr. LEUNG Lok Hang, Will

**Department of Family Medicine & Primary Health Care
Kowloon West Cluster, Hospital Authority**

Key findings

- Winter surge is a challenge to the HA service capacity, its profile and characteristics could be studied so as to strategically plan the manpower appropriately
- In 2016, the winter surge is characterized by a late and prolonged surge for Accident & Emergency Departments (AED) to have over 6,000 attendances, even over **7,000** patients a day, till as late as March
- The most drastic surge was observed on the **CNY Public Holiday** (PH) day 2 with a surge of total daily attendance from 5,860 to 7,613 (30% rise)
- The average number of daily attendance on **Mondays** (excluding the Lunar New Year PH) is 6,598, which is 6% more compared with the baseline average
- The **coldest** day in 2016 had 8% dip of total attendance compared with a day prior
- On the documented **rainy days**, the total daily attendance was 5,895, around 5% less compared with non-rainy day's total daily attendance
- For 2017, there was an unusual surge in the **summer**



Age profile of daily average medical admissions

Aug 2016 – Jul 2017	Non-surge period (Aug – Nov 2016)	Winter Surge (Dec 2016 – May 2017)	Summer Surge (Jun-Jul 2017)
Age below 65	271	284 (4.5% rise)	300 (10.7% rise)
Age 65 or above	604	672 (11.3% rise)	706 (16.9% rise)
Age 80 or above	351	403 (14.8% rise)	425 (21.1% rise)
Total	1226	1359 (10.8% rise)	1431 (16.7% rise)

Weekly average of acute admissions by principal diagnosis

Aug 2016 - Jul 2017	Non-surge period (Aug – Nov 2016)	Winter Surge (Dec 2016 – May 2017)	Summer Surge (Jun-Jul 2017)
Pneumonia	627	787 (25.5% rise)	823 (31.3% rise)
COPD	404	505 (25.0% rise)	462 (14.4% rise)
Heart failure	244	343 (40.5% rise)	247 (1.23% rise)
Stroke	241	263 (9.13% rise)	244 (1.24% rise)

Discussion

- From the findings, extra primary care manpower allocation could be considered during the **long PH** and **Mondays** in a strategic manner
- Temperature dip and rainy days may be a factor leading to reduced attendance but they are **not reliable predictable factors in advance** for duty planning purpose
- Primary care administrators could try to allocate resources strategically in order to enhance service coverage to the **anticipated attendance surge period** efficiently to cope with an increased service demand, reducing the burden of A&E and hospitals
- Development of **real-time manpower allocation** e.g. by use of technology and big-data during attendance surge period may be filling the gap of unpredictable factors affecting the service demand

A prolonged winter surge and an unusual summer surge in 2016/17: what could we do? Q&A session

Dr. Will Leung, KWC FM&PHC

