

Data Analytics in Operations - Gaining A Better Overview of Waiting Time to Consultation



Singapore General Hospital

SingHealth

Lee Junhong Kemas Muhamad Zulhaimi Bin K A Omar G Logeswari

What was the issue?



Waiting time to consultation (WTC) in outpatient clinics is a key measurement of operational efficiency and patient experience. Hence, it is essential to have the right collated data for relevant measurement, analysis and improvement.

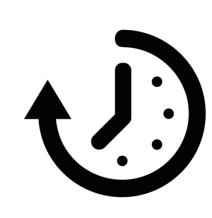
Data extraction for WTC was done in a manually-inclined manner, drawing data solely from Evantek queue system. The process was tedious, taking up to 4 hours each time. The collation was also only able to cover 1 week out of every quarter.

Also, with recent expansion and development of new clinics, several clinics have started using the new 1Q system instead. Hence, the WTC data collated did not manage to cover all clinics.

What were the objectives?

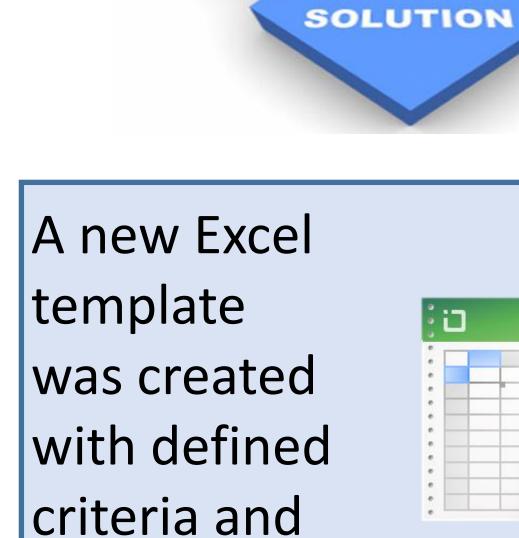
The project hopes to:

- Derive a faster method to collate data on WTC
- Derive a more comprehensive dataset on WTC

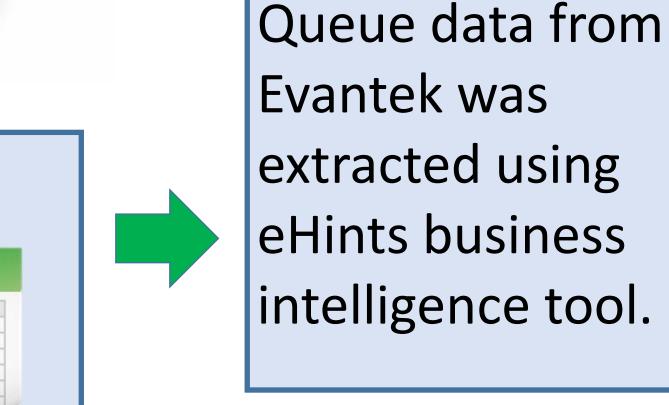


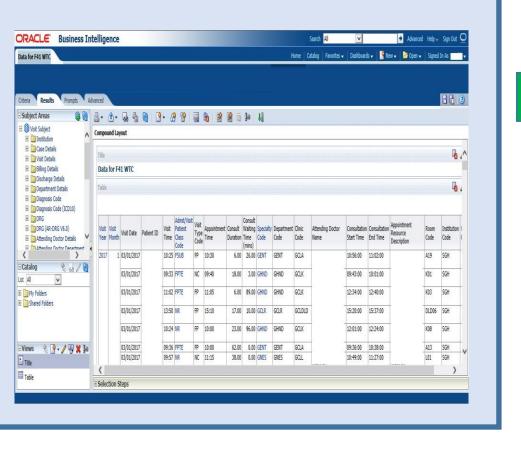


How was it resolved?



formulae.





Data from both sources was input into the Excel template.

Applying defined criteria, a consolidated WTC dataset was generated for analysis and other uses.

What were achieved?





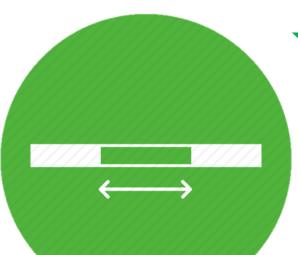
The time taken to extract and collate WTC data was significantly reduced from 4 hours to just 15 minutes.

Queue data from

extracted from its

online portal page.

1Q system was



Efficiency

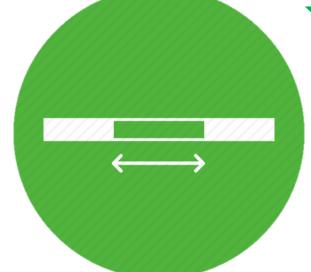


Practically all clinics are covered, compared to previously just clinics using

Evantek queue system.

What was learned?

- It is important to have a comprehensive WTC dataset to conduct analysis, so as to enhance patient experience.
- Through this new method, it is hoped that there is a better overview of WTC for continuous operational improvement.
- An enhancement in consolidating queue data from both queue systems into eHints is in the works, which can further streamline data extraction.



Coverage was widened from 1 week out of a quarter, to the entire quarter.

