



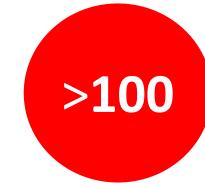
## Your Trusted Medication Handling Resource

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### Background

- With the staggering number of medications in Khoo Teck Puat Hospital (KTPH), it is difficult for healthcare staff to recall and adhere to drug-specific handling instructions
- This is evident from the fact that there were:



Medication handling related enquiries received by Pharmacy Drug Info (DI) section **alone** in 2017



Reported **HITS** cases of drugs wrongly crushed and served between Jan 2016 and Jan 2017

• Such errors are preventable, and are likely under-reported if we include other types of errors like improper storage

### Methodology

- ➤ **MESH List** is an online resource that provides updated and reliable information on specific handling instructions for an extensive array of drugs
- ➤ **MESH List** is hosted on <u>www.MeshList.net</u> and was developed in the following phases:

Phase 1	Extensive research and collation of drug-specific
	information and recommendations

Phase 2 Content verification by Drug Info and Med Safety

Phase 3 Setup of web and mobile-friendly digital platform

Phase 4 Project launch to Pharmacy & Nursing staff in Oct 2017

➤ MESH List is a digital resource which comprises **6** sections of key medication handling related information



Do Not Crush List



High Alert Medications



Avoid in Pregnant Women



Special Administration



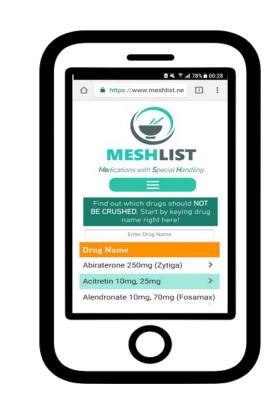
Use-By Dates /
Storage



Cytotoxic Guide



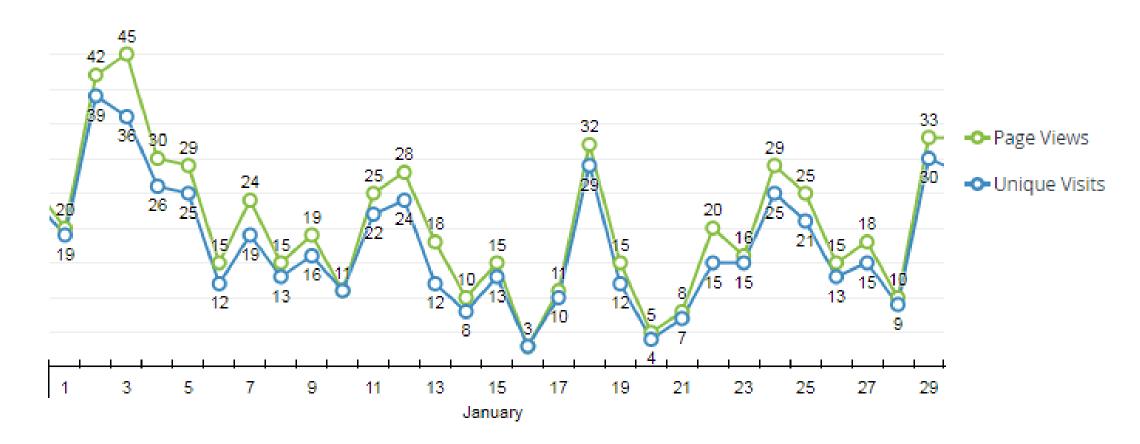




#### Results



**Unique** visitors daily as of Jan 2018, and growing!





Survey involving **Pharmacy** (n=30) and **Nursing** staff (n=21) recorded an excellent weighted average of **4.30** based on **trustworthiness**, **relevance** and **user's intention to recommend to others** 





of internal survey respondents reported an increase in **perceived medication handling knowledge** after using MESH List



of DI enquiries involving drug crushing or special administration between Oct 2017 and Feb 2018 have answers that can be found on MESH List

# **Project Impact**

- □ **ALL staff** involved in medication education, preparation or administration (e.g. Nurses, Pharmacists, Doctors) will benefit from MESH List
- ☐ Improves **patient safety** by preventing errors from incorrect drug preparation, administration or storage
- ☐ Enhances **staff safety** by providing proper guidance on handling hazardous medications
- ☐ Increases **cost savings** by reducing incidences of condemned medications from improper storage
- □ **Full impact** will be seen after hospital-wide upscale efforts to place MESH List on all computers in the inpatient wards and specialist outpatient clinics

## Sustainability

- MESH List has top notch sustainability
  - ❖ Platform costs only less than \$90 per year, requires minimal maintenance, and customizable at any time
  - Content constantly updated by Drug Info as per current existing workflows

#### Conclusion

MESH List can be envisioned as the "UpToDate® of medication handling information". It aims to **reduce medication errors** arising from inadequate knowledge of drug preparation, administration and storage. Given its superb accessibility and quality content, MESH List can truly **enhance patient safety**, and promote a **safe and healthy** environment for **our staff** to work in.