

Features of this system required:

- Traceability of medication
 - Ability to track customised dosage according to the individuals prescriptions.
 - Ability to measure that all the medications are ingested at the right time and at the right dose
 - Ability to determine if certain tablets are omitted in their intake, to enable clinicians to understand if certain pills are being avoided due to its side effects
 - Ability to trace over time the medication compliance habits, to enable clinicians to make more informed decisions at consultations
- Design
 - Multi dose pill containers that is portable; to enable patients to bring the containers for a medication refill at the hospitals
 - Effective audiovisual reminders to remind patients on the time for the next dose; needs to be intuitive to senior patients
 - Digital displays; to help patients verify that the right medication has been taken
- Networked
 - Ability to transmit information safely, to the healthcare systems such as for clinicians during consultations or to the pharmacies.
- Cost
 - To be consumer friendly; can be complemented by personal smartphone devices to process and distribute the data

Possible Process Flow from Consultation to Collection of Medications

*may differ with each institution or clinic's processes

1. Physician assessment
2. Physician submits medication prescription orders on the medical records system which is integrated with the pharmacy system
3. Pharmacy processes prescription orders and prepares medications
4. Patient or caregiver collects medications from the pharmacy. Upon collection, pharmacist explains indications, dosage and frequency, side effects to monitor, possible drug allergy reactions etc.

Senior Care Centres' medication compliance SOP

This solution should be implementable at the Senior Care Centre level to ensure continuity of medication adherence. Similarly, the solution should be personalised to each elder and equipped with an alert/reminder system for centre staff to facilitate medication consumption for our elders. This solution must also ensure the delivery of the “5 rights of medication administration” (right person, medication, route, dosage, and timing).

