Safety Enhanced Design Brief

Medication Lists

To be effective at improving health, medication lists must give providers a quick holistic view of the patient, but also help them make specific treatment decisions.

Useful medication lists are challenging to design, because of the complexity and time course of medication information and the variety of tasks that they support.

1. **Design medication lists to support key user tasks including**
   - An overview of what the patient is currently taking
   - Managing treatment decisions
   - Renewing medications
   - Reconciling medications
   - Reviewing time course
   - Managing temporary changes
   - Reviewing treatment that was effective or ineffective
   - Assessing adherence

2. **To give a quick overview, use a simple list of current medications that emphasizes drug names (and then strengths) and de-emphasizes other information:**

   **Bad**
   - Current medications: (selected)
   - Prescriptions
     - albuterol HFA 90mg (ProAir HFA) oral spray, 90 mcg/spray, 2 puffs, oral, every 4 hours as needed, 21.6 mg/1 unit
     - beclomethasone HFA (QVAR 40 HFA) oral spray, 40 mcg/spray, 40 mcg/spray, 2 puffs, oral, twice a day, 9.6 mg/1 unit
     - carvedilol 25 mg oral tablet, 25 mg 1 tablet, oral, 2 times a day, 160 tablets
     - chlorthalidone 25 mg oral tablet, 25 mg 1 tablet, oral, daily, 90 tablets
     - gabapentin 20 mg oral tablet, 20 mg 1 tablet, oral, daily, 90 tablets
     - gabapentin 600 mg oral tablet, 600 mg 1 tablet, oral, daily, 90 tablets
     - insulin glargine (Lantus) 40 units 1 at bedtime
     - losartan 100 mg oral tablet, 100 mg, 1 tablet, oral, daily, 90 tablets
     - metformin 1000 mg oral tablet, 100 mg, 1 tablet, oral, 2 times a day, 180 tablets
   
   **Good**
   - Medications
     - asprin 81 mg 1 tablet daily
     - beclomethasone HFA 40 mg 1 tablet daily
     - carvedilol 25 mg 1 tablet daily
     - chlorthalidone 25 mg 1 tablet daily
     - gabapentin 600 mg 1 tablet daily
     - insulin glargine (Lantus) 40 units 1 at bedtime
     - losartan 100 mg 1 tablet daily
     - metformin 1000 mg 1 tablet daily

3. **To support detailed decision making use a detailed interactive table that is compact, easy to read, and quickly sortable and searchable:**

   **MEDICATIONS**
   
   ![Interactive Table](image)

4. **To support an understanding of the time course of treatment, use an interactive timeline that shows dose (relative to maximum dose) at a glance:**

   ![Timeline](image)

   **How to read the timeline**
   - **Timeframe**
     - Past
     - Future
   - **Total daily dose**
     - Light is low
     - Grey is less than minimum
     - Maximum
     - Over than maximum