Safety Enhanced Design Brief
Clinical Information Reconciliation: Medications

Accurate medication reconciliation at transitions of care can reduce costly adverse events. Reconciliation involves comparing two or more lists of medications to determine the appropriate meds for a patient. Careful user interface design can decrease the cognitive complexity of this task, thereby reducing errors and task time.

### Twinlist

1. Visually indicate unique, similar, and identical from each list
2. Sparingly use visual properties (such as size, color, and positioning) to make important information stand out
3. Avoid error-prone medication abbreviations (e.g., AD, OD, QD), symbols, and dose designations.
4. Conveniently show complete pharmacological information
5. Support grouping by therapeutic intent, class, or associated diagnoses

<table>
<thead>
<tr>
<th>Twinlist</th>
<th>Intake unique</th>
<th>Intake similar</th>
<th>Hospital similar</th>
<th>Hospital unique</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>keep rest</td>
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<td>Intake unique</td>
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<td>reject rest</td>
</tr>
</tbody>
</table>

### Twinlist Example

- **Calciferol**: 600 IU PO daily
- **Acetaminophen**: 1 g PO q8h prn pain
- **Lorazepam**: 1 mg PO q8h prn an...
- **Tramadol**: 50 mg PO q6h prn p...
- **Celexon**: 500 mg PO q6h
- **Enoxaparin**: 40 mg SC daily
- **Insulin**: 500 mg SC q6h
- **Lantus**: 20 mg SC q4h

### Twinlist Columns

- **Calciferol**: 600 IU PO daily
- **Calcium carbonate**: 500 mg PO QID
- **Dabigatran**: 150 mg PO BID
- **Metformin**: 800 mg PO daily
- **Micronase**: 5 mg PO daily
- **Tirosint**: 100 mcg PO daily
- **Vitamin B12**: 1000 mcg SC qMonth
- **Calciferol**: 600 IU PO daily
- **Calcium carbonate**: 500 mg PO QID
- **Dabigatran**: 150 mg PO BID
- **Metformin**: 800 mg PO daily
- **Micronase**: 5 mg PO daily
- **Tirosint**: 100 mcg PO daily
- **Vitamin B12**: 1000 mcg SC qMonth

### Twinlist Rows

- **Calciferol**: 600 IU PO daily
- **Lipitor**: 40 mg PO daily
- **Toprol XL**: 20 mg PO daily
- **Calcium carbonate**: 500 mg PO QID
- **Plavix**: 75 mg PO daily
- **Prozac**: 20 mg PO daily
- **Metformin**: 800 mg PO daily
- **Micronase**: 5 mg PO daily

### Twinlist Differences

- **Similar meds are shown on the same line**
- **Hovering over a med highlights it and any similar meds**

### Twinlist Support

- **Differences of similar meds are highlighted in yellow**
- **Names are in bold and on a separate line from other details**
- **Intake unique**
- **Intake similar**
- **Hospital similar**
- **Hospital unique**
- **Columns show unique, similar and identical drugs**

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