TABLE II

MEDICATIONS WITH SIGNIFICANT ANTICHOLINERGIC PROPERTIES

Table II lists common medications with significant anticholinergic properties and potential adverse consequences, but is not all-inclusive. Any of the following signs and symptoms may be caused by any of the medications in the lists below, alone or in combination, as well as by other medications not listed here that have anticholinergic properties.

This table is provided because: 1) Medications in many categories have anticholinergic properties; 2) The use of multiple medications with such properties may be particularly problematic because of the cumulative effects; and 3) Anticholinergic side effects are particularly common and problematic, especially in the older individual.61, 62

Examples of Medications with Anticholinergic Properties

<table>
<thead>
<tr>
<th>ANTIHISTAMINES (H-1 BLOCKERS)</th>
<th>CARDIOVASCULAR MEDICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>chlorpheniramine</td>
<td>furosemide</td>
</tr>
<tr>
<td>cyproheptadine</td>
<td>digoxin</td>
</tr>
<tr>
<td>diphenhydramine</td>
<td>nifedipine</td>
</tr>
<tr>
<td>hydroxyzine</td>
<td>disopyramide</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ANTIDEPRESSANTS</th>
<th>GASTROINTESTINAL MEDICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>amoxapine</td>
<td>Antidiarrheal Medications</td>
</tr>
<tr>
<td>amitriptyline</td>
<td>diphenoxylate</td>
</tr>
<tr>
<td>clomipramine</td>
<td>atropine</td>
</tr>
<tr>
<td>desipramine</td>
<td></td>
</tr>
<tr>
<td>doxepin</td>
<td></td>
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<tr>
<td>imipramine</td>
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<tr>
<td>nortriptyline</td>
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<tr>
<td>protriptyline</td>
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<tr>
<td>paroxetine</td>
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</tbody>
</table>

| |
| Antispasmodic Medications |
| belladonna | clidinium |
| chlordiazepoxide | dicyclomine |
| hyoscyamine | propantheline |

| Antiulcer Medications |
| cimetidine | ranitidine |
ANTIPARKINSON MEDICATIONS
amantadine  benztropine
biperiden  trihexyphenidyl
MUSCLE RELAXANTS
cyclobenzaprine  dantrolene
orphenadrine

ANTIPSYCHOTIC MEDICATIONS
chlorpromazine  clozapine
olanzapine  thioridazine

URINARY INCONTINENCE
oxybutynin  propantheline
solifenacin  tolterodine
trospium

PHENOTHIAZINE ANTIEMETICS
prochlorperazine  promethazine

MUSCLE RELAXANTS

ANTIVERTIGO MEDICATIONS
meclizine  scopolamine

Potential Adverse Consequences of Medications with Anticholinergic Properties

Blood pressure, increased
Clumsiness or unsteadiness
Digestive system changes, e.g.,
  Bloating
  Bowel motility, decreased
  Constipation
  Ileus, paralytic/adynamic
  Nausea or vomiting
  Swallowing difficulty with dry mouth

Delirium
Drowsiness
Headache
Lethargy, fatigue
Muscle weakness, severe
Skin, changes
  Dryness  Sweating, decreased
  Flushing  Warmth, excessive
Urinary retention or difficulty

Breathing difficulty, changes
Convulsions
Mental status/behavior changes, e.g.,
  Distress, excitement, nervousness
  Attention, impaired
  Cognitive decline
  Confusion/disorientation
  Hallucinations
  Memory loss
  Restlessness or irritability

Dizziness
Fever
Heart rate, increased
Mucous membrane dryness: mouth, nose
Speech, slurring
Vision impairment, changes in acuity
  Blurring  Glaucoma, worsening
  Eye pain  Light sensitivity