Use Caution When "U" Abbreviate Medical Information

Recommendations

Healthcare Professionals
- Avoid ambiguous abbreviations in written orders, computer-generated labels, medication administration records, storage bin/shelf labels, and reprinted protocols.
- Work with computer software vendors to make changes in electronic order entry programs.
- Provide examples when educating staff on how using ambiguous abbreviations have led to errors and serious patient harm.
- Provide staff with ISMP’s list of error-prone abbreviations.
- Introduce healthcare students to the list of error-prone abbreviations.

Pharmaceutical Industry
- Review existing drug labeling and packaging as well as new drug applications for use of error-prone abbreviations.
- Eradicate use of ambiguous abbreviations in product advertising (both in graphics and text.)
- Include “do not use list” in corporate editorial style guides.
- Check for error-prone abbreviations in all communications, including slides, promotional kits, and sales staff training materials.
- Incorporate list into software and medical device design.

Medical Communications/Publishing Professionals
- Make “do not use list” of notations a part of publishing style manuals and internal style guides for clinical writing.
- Add the list of error-prone abbreviations to instructions for journal authors.
- Review all internal and external communications for ambiguous abbreviations.
- Eliminate error-prone abbreviations in company educational and training sessions.
One of the most common but preventable causes of medication errors is the use of ambiguous medical notations. Some abbreviations, symbols, and dose designations are frequently misinterpreted and lead to mistakes that result in patient harm. They can also delay the start of therapy and waste time spent in clarification.

In an effort to promote safe practices, the Institute for Safe Medication Practices (ISMP) and the U.S. Food and Drug Administration recommend that ISMP’s list of error-prone abbreviations, symbols, and dose designations be considered whenever medical information is communicated. To access the list and tools that can help you avoid the use of ambiguous medical notations, or for more information on medication errors visit, www.ismp.org/tools/abbreviations and www.fda.gov/cder/drug/MedErrors.

### The Problem

**Take one to two tablets by mouth every three to four hours, needed for pain.**

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### A Short List*

All drug names, dosage units, and directions for use should be written clearly to avoid confusion. Below are a few notations that should NEVER be used. The complete list can be found on the web site referenced above.

<table>
<thead>
<tr>
<th>Medical Notations</th>
<th>Reason</th>
<th>Instead Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>U (unit)</td>
<td>Mistaken for zero, number four, or cc</td>
<td>Write “unit”</td>
</tr>
<tr>
<td>IU (international unit)</td>
<td>Mistaken for IV or number ten</td>
<td>Write “international unit”</td>
</tr>
<tr>
<td>QD (daily)</td>
<td>Mistaken for QID</td>
<td>Write “daily”</td>
</tr>
<tr>
<td>QOD (every other day)</td>
<td>Mistaken for QID and QD</td>
<td>Write “every other day”</td>
</tr>
<tr>
<td>Trailing zero (X.0 mg)</td>
<td>Decimal point is missed</td>
<td>Write X mg</td>
</tr>
<tr>
<td>Lack of leading zero (.X mg)</td>
<td>Decimal point is missed</td>
<td>Write 0.X mg</td>
</tr>
<tr>
<td>MS</td>
<td>Can mean morphine sulfate or magnesium sulfate</td>
<td>Write out “morphine sulfate” or “magnesium sulfate”</td>
</tr>
<tr>
<td>MSO4 and MgSO4</td>
<td>Can be confused for one another</td>
<td></td>
</tr>
</tbody>
</table>

* Comprises the “do not use list” required for the Joint Commission on Accreditation of Healthcare Organizations accreditation.

### Examples

Poor prescription writing habits and use of error-prone medical notations can have serious and even potentially fatal consequences. Here are some actual examples:

- **Potassium chloride QD** in medication order interpreted as QID. Should be written as “daily.”
- **Lantus 14 U & 8 U** Intended dose of 4 units in patient history interpreted as 44 units. “U” should be written out as “unit.”
- **U** in prominent professional journal article should be written out as “unit.”

**Error-prone abbreviations should not be used even in printed materials, since they can still be confused, may be copied into handwritten orders, and the practice perpetuates the impression that they are acceptable.**