

Electronic Medication Management

Order maintenance, ePrescribing, eMAR, Interactions

Keane Care offers Long-Term Care providers an electronic medication management solution that works to close the medication loop, from:

- Entering and maintaining orders
- Checking for adverse interactions
- Transmitting orders to the pharmacy
- Generating an up-to-date eMAR with tools to identify the resident and medication
- Charting administration with notes and vitals

An electronic process improves accuracy, efficiency, and quality of care while it removes risk due to illegible handwriting and data entry errors.

Maintaining Orders

Keane NetSolutions Physician Orders organizes orders, providing one-stop convenience for entering orders, updating them, checking drug interactions, opening the eMAR/eTAR, charting PRN order results, and reordering medications (at right).

Orders are part of the Electronic Medical Record, organized for logical and efficient workflow, retrieval, and reporting. When changes occur, communication is effective and timely.

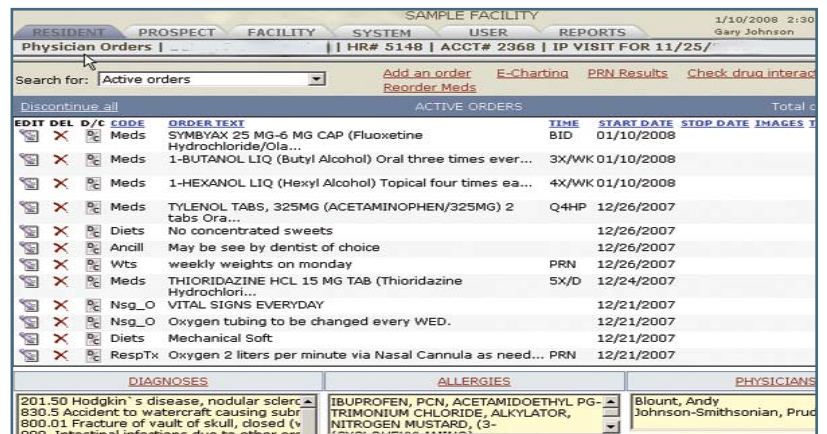
Point of Care Charting

Keane NetSolutions eCharting revolutionizes how you administer medications by replacing the paper notebook on the medication cart with a portable PC connected wirelessly to your network. For each medication pass, the software builds you a list of the medications due and PRNs for each resident (sample on next page). A DHHS study found a 3-hour decline in time required for medication administration per shift.

During the pass, simply click each medication delivered. Add notes and chart vitals as needed. Documentation from the pass is shared automatically with the resident's electronic medical record. Summary reports from the eMAR/eTAR provide data for workflow management.

By keeping order information current online it replaces the end-of-month turnover, and assures order changes are implemented ASAP. eCharting offers powerful risk management tools such as individualized nursing alerts.

Maximum Convenience



| RESIDENT | PROSPECT | FACILITY | SYSTEM | USER | REPORTS |
|---|----------|----------|--------|---|------------------|
| Physician Orders HR# 5148 ACCT# 2368 IP VISIT FOR 11/25/08 | | | | | |
| Search for: Active orders Add an order E-Charting PRN Results Check drug interactions | | | | | |
| ACTIVE ORDERS | | | | | |
| EDIT | DEL | D/C | CODE | ORDER TEXT | TIME |
| X | X | X | Meds | SYMBYAX 25 MG-6 MG CAP (Fluoxetine Hydrochloride/Ola... | BID 01/10/2008 |
| X | X | X | Meds | 1-BUTANOL LIQ (Butyl Alcohol) Oral three times ever... | 3X/WK 01/10/2008 |
| X | X | X | Meds | 1-HEXANOL LIQ (Hexyl Alcohol) Topical four times ea... | 4X/WK 01/10/2008 |
| X | X | X | Meds | TYLENOL TABS, 325MG (ACETAMINOPHEN/325MG) 2 | Q4HP 12/26/2007 |
| X | X | X | Diets | No concentrated sweets | 12/26/2007 |
| X | X | X | Ancill | May be see by dentist of choice | 12/26/2007 |
| X | X | X | Wts | weekly weights on monday | PRN 12/26/2007 |
| X | X | X | Meds | THIORIDAZINE HCL 15 MG TAB (Thioridazine Hydrochlori... | 5X/D 12/24/2007 |
| X | X | X | Nsg_O | VITAL SIGNS EVERYDAY | 12/21/2007 |
| X | X | X | Nsg_O | Oxygen tubing to be changed every WED. | 12/21/2007 |
| X | X | X | Diets | Mechanical Soft | 12/21/2007 |
| X | X | X | RespTx | Oxygen 2 liters per minute via Nasal Cannula as need... | PRN 12/21/2007 |

Add and edit orders, chart PRN order results, check drug interactions, open the eMAR/eTAR, and reorder medications from this one page.

Orders can be flagged to require documentation and/or vitals at the time of delivery. The notes become part of the Electronic Medical Record. Reports from eCharting give you information that would take hours to find in paper charts, such as how many PRN Acetaminophen were delivered.

Drug Interaction Screening

Before going any further, ensure the medications you enter are appropriate for the resident with Keane NetSolutions Drug Interactions software. When an order is entered in Physician Orders, the module automatically screens for risks, including Drug – Drug interaction, Drug – Allergy Interaction, Drug – Disease Interaction, Drug – Food alerts, Therapeutic and Ingredient duplication.

ePrescribing

Streamline how you order and re-order medications and eliminate trips to the fax machine with Keane NetSolutions ePrescribing. When you enter a new medication order, ePrescribing automatically sends it to the resident's pharmacy by electronic message or by auto-fax according to the data entered for the pharmacy. To re-order a medication, one click adds it to a list you review before ePrescribing sends it to the appropriate pharmacy.

Patient Education

Add value to the care your facility delivers by providing easily understood printed information about medications to your residents and their family.

Census Extract Interface

Send electronic files of census data to the pharmacy instead of faxing by extracting data from Keane's AR-Billing software.

System Requirements

The Keane NetSolutions Medication Management system is made up of the following applications that may be purchased separately: Physician Orders (required), eCharting with eMAR/eTAR, ePrescribing, Drug Interactions / Patient Education, Census Extract Interface, and NDC Library (required).

eMARs Elevate Quality of Care

| MEDICATION | TIME | PERFORMED | DOCUMENTATION | STATUS | REORDER |
|--|----------|--|---------------|------------------|--------------------------|
| ZINC SULFATE 220 MG CAP Zinc Sulfate 1 PO QD DX: PRESSURE WOUND * DO NOT CRUSH* | 08:00 AM | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Document... | LATE History | <input type="checkbox"/> |
| NEURONTIN 300MG CAPSULE (GABAPENTIN) 2 PO TID DX: MULTIPLE SCLEROSIS (DOSE = 600 MG) | 05:00 PM | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Document... | History | <input type="checkbox"/> |
| ZANAFLEX 2 MG TAB Tizanidine Hydrochloride 1 PO BID DX: MUSCLE SPASMS | 05:00 PM | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Document... | History | <input type="checkbox"/> |
| LORCET 10/650 650 MG-10 MG TAB Acetaminophen/Hydrocodone Bitartrate 1 PO Q6HR DX: PAIN | 06:00 PM | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Document... | UPCOMING History | <input type="checkbox"/> |
| SMZ-TMP CONCENTRATE 80 MG/ML-16 MG/ML SOL (Sulfamethoxazole/Trimethoprim) 1 PO QID | 06:00 PM | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Document... | UPCOMING History | <input type="checkbox"/> |
| ZANAFLEX 4 MG TAB (TIZANIDINE HYDROCHLORIDE) 1 PO QD PRN MUSCLE SPASMS | Shift 1 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Document... | SHIFT History | <input type="checkbox"/> |
| PROVIGIL 200 MG TAB (MODAFINIL) 1 PO Q AM PRN FALLING ASLEEP INAPPROPRIATELY | Shift 1 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Document... | SHIFT History | <input type="checkbox"/> |
| CLARITIN 10 MG TAB (Loratadine) 1 PO Q DAY PRN ALLERGIES | Shift 1 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Document... | SHIFT History | <input type="checkbox"/> |

| MEDICATION | TIME | PERFORMED | DOCUMENTATION | STATUS | REORDER |
|--|------|--|---------------|---------|--------------------------|
| TYLENOL 325MG TAB (ACETAMINOPHEN) 2 PO Q4HR PRN PAIN/ TEMP (DOSE =650 MG) | PRN | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Document... | History | <input type="checkbox"/> |
| DULCOLAX SUPP 10MG (BISACODYL) 1 P/R QD PRN CONSTIPATION | PRN | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Document... | History | <input type="checkbox"/> |
| LORCET 10/650 650 MG-10 MG TAB Acetaminophen/Hydrocodone Bitartrate 1 PO Q6HP PRN PAIN | PRN | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Document... | History | <input type="checkbox"/> |
| PHENERGAN 25 MG TAB (Promethazine) | | | | | |

You'll find full information on a resident's medication session in this eCharting eMAR/eTAR page. Boxes are color coded to highlight orders that need attention – late, on time, upcoming, or due during the shift. PRN orders are shown below scheduled items. Reorder a medication from here.

Check the facts with an eMAR summary

| | | |
|-----------------------|---------------------------|--------------------------|
| Pass Start Time: 0800 | Total Medications: 138 | Total Treatments: 27 |
| Pass End Time: 0935 | Total PRN Medications: 22 | Total PRN Treatments: 12 |
| Elapsed Time: 95 | Total Medications Held: 5 | Total Treatments Held: 2 |
| Total Residents: 44 | Total Late Medications: 1 | Total Late Treatments: 0 |
| | Missed Medications: 1 | Missed Treatments: 0 |

When a medication pass is complete, a summary screen shows any late or missed administrations. Click on a total to drill down to details of residents, caregivers, medications, and treatment.