

Drug Take-Back Programs

Rodney Larson, Ph.D., R.Ph.

Dean

School of Pharmacy

Husson University

Bangor, Maine

LarsonR@Husson.edu

Purpose of Drug Take-Backs

- Prevent Self-Medication Problems
- Poison Prevention
 - Children
 - Pets

Purpose of Drug Take-Backs

- Diversion
 - Sharing – family, and friends
 - Illicit –
 - Acquaintances
 - Break-Ins

Purpose of Drug Take-Backs

- Environmental Protection
 - Drinking Water
 - Landfill Leachate
 - Antibiotics, Hormones, Antineoplastics
- Going Green – Shows environmental consciousness.

Purpose of Drug Take-Backs

- Research –
 - Compliance/Adherence
 - Healthcare waste
- Creates foot traffic -
 - Picking up envelopes
 - Dropping off medications

Athens Declaration - 2007

- To curtail childhood overdoses.
- To restrict household drug theft.
- To limit accumulation of drugs by the elderly.
- To protect our physical environment.
- To restrain improper international drug donations.
- To eliminate waste in the international health care systems of all countries.

Take-Back Issues

- Disposal
- Security
 - Theft
 - Re-shelving
- Legal

Take-Back Issues

- Controlled Substances
- Cost –
 - Personnel
 - Disposal
 - Security
 - Promotional Materials
 - Supplies

Take-Back Issues

- Pharmaceuticals –
 - Solids (capsules, tablets)
 - Liquids – syrups, IV's, ampules
 - Creams/Ointments
 - Inhalers
 - Patches
 - Syringes
- Containers

Types of Take-Back Programs

- One-Day Drop-off Events
 - Sept. 25th – DEA National Drug Take-Back Day
 - Nov. 13th - The American Medicine Chest Challenge
- Drop-off Boxes
 - Pharmacy or clinic
 - Police station

Safe Medicine Disposal for ME Program

- 2005 Maine law - Maine DEA responsibility to assist consumers with unused meds.
- 2007 pilot project
 - US EPA
 - State of Maine
- Investigators:
 - Dr. Lenard Kay - U of ME Center on Aging
 - Dr. Stevan Gressitt - Maine DDHS

Safe Medicine Disposal for ME Program - Process

- Postage paid envelopes.
- Optional patient survey.
- No cost to patient.
- Remove/cover name.

Safe Medicine Disposal for ME Program - Process

- Envelops mailed to Maine DEA.
- Sample is counted and cataloged
 - Pharmacist and student volunteers
 - DEA agent always present.
- DEA retains possession, stores, then incinerates.

Safe Medicine Disposal for ME Program - Research

- Drug name, dose, and quantity.
- Form – solid, liquid, etc.
- OTC vs. Rx
- Weight
- Controlled substances.

Safe Medicine Disposal for ME Program - Research

- Adherence –
 - Survey
 - Look for trends in returns
- Counterfeit Medications

Safe Medicine Disposal for ME Program - Results

- Top Reasons for Discontinuation
 - Physician orders (27%)
 - Patient deceased (19%)
 - Patient felt better or med no longer needed (18%)
 - Negative reaction (12%)
- Without Program
 - Flush (46%)
 - Trash (37%)
 - Collection Event (5%)

Safe Medicine Disposal for ME Program - Results

- Motivation – Going Green
 - Protect the environment (77%)
 - Safety for myself and family (16%)
 - Free (4%)
 - Convenient (3%)

Safe Medicine Disposal for ME Program – Initial Results

- Over 2,300 lbs of drugs returned.
- 3,926 envelopes (42% response rate).
- \$572,772 estimated AWP.

Safe Medicine Disposal for ME Program – Initial Results

- Categories
 - CNS - 23%
 - CV - 15%
 - Psychotherapeutics - 15%
 - Respiratory Agents - 7%
 - Anti-Infectives - 7%
 - Metabolic Agents - 7%
 - GI - 6%
 - Topical Agents - 5%
 - Hormones - 4%

Safe Medicine Disposal for ME Program – Initial Results

- Roughly 17⁰% controlled substances
 - Schedule II - IV
 - Narcotic pain relievers, tranquilizers/sedatives, stimulants.
- 250 lbs of controlled substances were taken out of the medicine cabinets of Maine.

Initiatives

- Maine Legislation to require Pharmaceutical Manufacturers to pay for collection and disposal of unused medications (LD 821).
- Strong opposition by PhRMA

Initiatives

- 15-day Supply for new Rx's.
 - MaineCare adopted on 2009
 - 50+ medications
 - Model for Part D proposal

Initiatives

- Senate Bill 3397
 - Attorney General
 - Create Rules and Regulation

International Symposium on Safe Medication

- October 10-12, Portland, ME
- DEA, FDA, EPA, NDIC, and SAMHSA
- Sweden, Greece, Canada, Australia
- New association being formed.

International Symposium on Safe Medication - Topics

- Drug Diversion
- Patient Safety
- Drug Misuse/Abuse
- Polypharmacy
- Environmental Contamination
- Pharmacist's Role in Drug Adherence
- Drug Take-Back Examples



Discussion/Questions