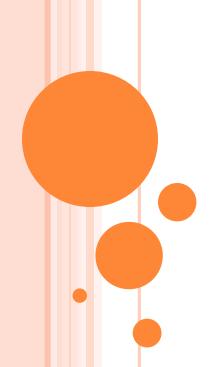
LIFE-CRITICAL AND ESSENTIAL PSYCHOTROPIC MEDICATIONS FOR EMERGENCY PHARMACEUTICAL PREPAREDNESS IN COOS COUNTY



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Coordinator for Coos County



EMERGENCY PHARMACEUTICAL PREPAREDNESS PROJECT GENESIS

- Coos County At Risk committee discussions
- Public Health Emergency Preparedness Coordinator Research
- AmeriCorps VISTA Project
- Selection of the project coordinator

Coos Health & Wellness Together, Inspiring Healthier Communities







WHY A NEED FOR THIS PROJECT?

- Cascadia Subduction Zone (inevitable disaster)
- Other disasters that could stop the normal pharmaceutical supply chain
- Outside sources do not know quantities of needed life-critical and psychotropic medications



Cascadia Subduction Zone

- Current considerations are to inform people to stockpile medications (which can't be done in many people's situations)
- Learned from Hurricane Katrina

OFFERED FOR DISASTER MEDICAL INTERVENTION: THE STRATEGIC NATIONAL STOCKPILE

"CDC's Strategic National Stockpile (SNS) has large quantities of medicine and medical supplies to protect the American public if there is a public health emergency (terrorist attack, flu outbreak, earthquake) severe enough to cause local supplies to run out." (CDC, 2015)

The following are included in the SNS stockpile:

- Antibiotics
- Chemical antidotes
- Antitoxins
- Life-support medications
- IV administration
- Airway maintenance supplies
- Medical/surgical items



WHAT QUALIFIES AS LIFE-CRITICAL MEDICATIONS



Life-critical medications are medications that may cause morbidity or mortality if discontinued. The following is a list of serious repercussions that could be considered to cause morbidity/mortality:

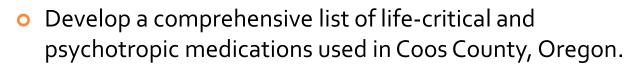


- Significant difference and changes in mental state (this includes becoming confused, irritable, dizzy, panicked, anxious, suicidal, delusional, dangerous to others, etc.)
- Organ failure
- Loss of eyesight or hearing
- Severe infections
- Difficulty breathing and respiratory failure
- Heart failure
- Seizures
- Severe pain leading to loss of mobility and/or ability to function
- Death

Why include psychotropic medications?

Individuals experiencing mental disorders have a chemical imbalance, and often need medical intervention through pharmaceuticals. By abruptly disrupting treatment, moderate to severe side effects can occur.

ABSTRACT





- Establish an initial request for medication supply after a major event that interrupts the normal pharmaceutical supply chain for greater than 72 hours in Coos County.
- Prescription data was obtained
- Consolidated into a list that shows the average doses per month of each medication (separated by form, doses, and routes).
- Through a team of health providers, various prescriptions were eliminated due to not being life-critical or essential psychotropic medications.

DIFFERENT ROUTES EXPLORED

- Obtaining individual data from pharmacies, clinics, hospitals in Coos County area
- Create an educated guess based off of Medicaid/Medicare insurance claims or health statistics (WOAH records)
- Oregon Prescription Drug Monitoring Program (scheduled medications) and Bay Area Hospital Pharmacy provided us with data
- Registry databases
- Public policy route work with insurance providers in order to allow for personal emergency medications
- Public outreach/awareness: work with pharmacies to get the word out about stockpiling 10-14 days worth of personal medications if possible

... But finally, the All Payer All Claims Program was found!



ALL PAYER ALL CLAIMS REPORTING PROGRAM

- A program within the Oregon Health Authority
- All-Payer Claims Database throughout nation
- Data from fully-insured, selfinsured, Medicare, and Medicaid data.
- Claims information will come from all commercial health insurance carriers, licensed third party administrators, pharmacy benefit managers, Medicaid managed care organizations, Medicaid feefor-service and Medicare parts C and D.



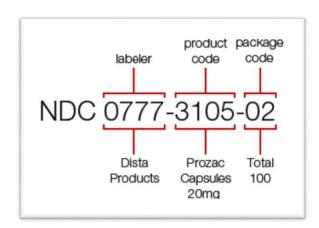
WHAT DOES THE FILE INCLUDE?

- Individual prescriptions in the form of National Drug Codes
- Prescription Class
- Quantity dispensed (amount of doses in Rx)
- Prescription days (how many days those doses are designated for)
- Other demographic information included that was not used in this project: gender, age group, ethnicity, language, etc.

Example of file: redacted information includes identifying patient ID numbers

NATIONAL DRUG CODES

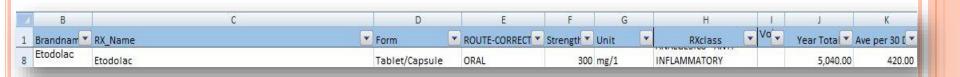
- A unique 3-segment number signifying the medications labeler, product code, and package code
 - 1. First Segment (Labeler Code): manufacturer of the drug
 - Second Segment: Medication name, form, strength, and unit of a specific drug
 - Third Segment: Package code (size/type of package)



OVERVIEW OF DATA CONSOLIDATION AND DECODING

- 1. 40 million prescriptions sent in raw data CSV file
- 2. Grouped all identical NDC's together, resulting in 10,000 rows of data
- 3. Translating NDCs
- 4. May have to search some NDC's individually





ELIMINATING MEDICATIONS



Eliminate certain prescription classes

- ALTERNATIVE MEDICINES
- AMINOGLYCOSIDES
- ANDROGENS-ANABOLIC
- ANORECTAL AGENTS
- ANTACIDS
- ANTHELMINTICS
- ANTIDOTES
- ANTIFUNGALS
- ANTIHYPERLIPIDEMICS
- ANTI-INFECTIVE AGENTS MISC.
- ANTIMALARIALS
- ANTIMYASTHENIC/CHOLINERGIC AGENTS
- ANTISEPTICS & DISINFECTANTS
- ASSORTED CLASSES

- CHEMICALS
- CONTRACEPTIVES
- COUGH/COLD/ALLERGY
- DIETARY PRODUCTS/DIETARY MANAGEMENT PRODUCTS
- DIGESTIVE AIDS
- DIURETICS
- ENDOCRINE/METABOLIC AGENTS -MISC.
- ESTROGENS
- HEMOSTATICS
- MINERALS & ELECTROLYTES
- MOUTH/THROAT/DENTAL AGENTS OF
- NASAL AGENTS -SYSTEMIC/TOPICAL

- NEUROMUSCULAR AGENTS
- 0)0/70/6/66

NUTRIENTS

- OXYTOCICS
- PASSIVE IMMUNIZING AGENTS
- PENICILLINS
- PHARMACEUTICAL ADJUVANTS
- PROGESTINS
- RESPIRATORY AGENTS MISC.
- TOXOIDS
- URINARY ANTISPASMODICS
 - VACCINES
 - VAGINAL PRODUCTS
 - VITAMINS

Eliminate individual prescriptions

DISCUSSION POINTS

Some medications easily kept in, some easily kept out, others needed more discussion

- Pain management medications
- Medications for temporary conditions
- HIV antiretroviral medications
- Contraceptives



FUTURE RECOMMENDATIONS

- Medical ethics committee
 - Determine highest priority and lower priority on list
 - Standard medication list creation
- Correlate population statistics of chronic disease with Rx data

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 Coos Health & Wellness

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THANK YOU

ANY QUESTIONS?



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