

#### Patient Allergies – Design Decisions for Medication Safety

ELIZABETH WADE, PHARMD, BCPS MEDICATION SAFETY OFFICER

#### Concord Hospital

- Acute Care

  295 bed Community Teaching Hospital
  FY 2017: 20,249 admissions
- Primary Care and Specialty Practices 28+ sub-specialties
- FY 2017: 171,817 primary care visits

- Previous process:

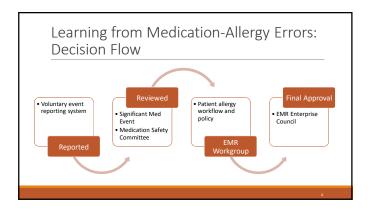
   Multiple electronic medical record (EMR) systems

   Multiple allergy lists and policies



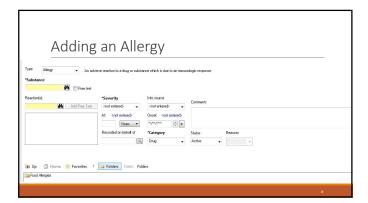
# Medication-Allergy Errors: Contributing Factors Multiple allergy lists Allergy listed in outpatient EMR but not inpatient EMR or vice versa - (proflowacin for ED patient with documented allergy in outpatient EMR with reaction of rash - ACEI on discharge for patient with a documented allergy in outpatient EMR with reaction of cough Lack of clinical decision support/information - ED/intraoperative areas on paper - Oxycodone/acetaminophen for patient with documented allergy to acetaminophen with reaction of hives/vomiting - Cetabolic for patient with a documented allergy to "Ancet" - Medication administration/automated dispensing cabinets - Piperacillin/tasobactam for patient in ED with a documented pencillin allergy with reaction of rash Overloaded "allergy" lists - Allergy lists contained allergies, intolerances, side effects, etc, leading to alert fatigue - Orders for lozagem (documented reaction: rash) and obanzajone (documented reaction: hives). Due to extensive allergy list, team members did not not segerified (for gellery) interaction

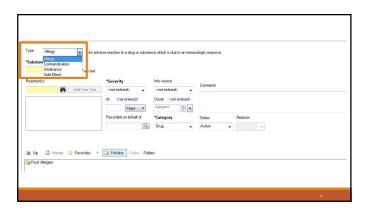
# Medication-Allergy Errors: Contributing Factors Free-text entry of allergy substance/Uncoded allergies A penicillin allergy was entered as free text with reaction of swelling/hives in outpatient EMR and therefore did not flag the provider when prescribing amoxicillin/clavulanate. Lack of reaction documentation Ketorolac for patient with a documented allergy to ibuprofen with unknown reaction

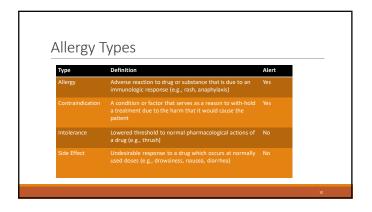


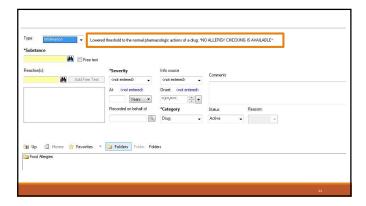
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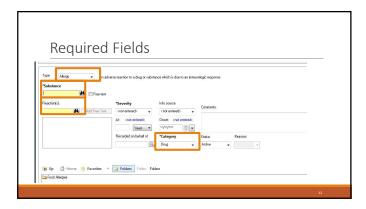


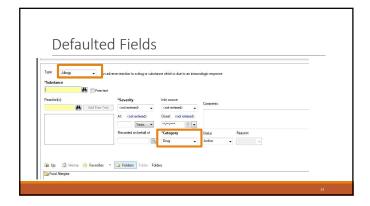


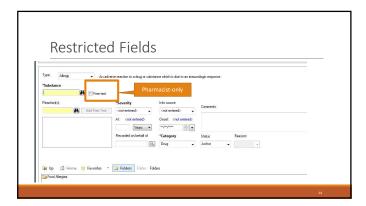












Marking allergies as reviewed

• Every encounter with the patient, where feasible
• Include review of reaction

Unable to obtain

"Unknown" reaction

Addition of free-text substances

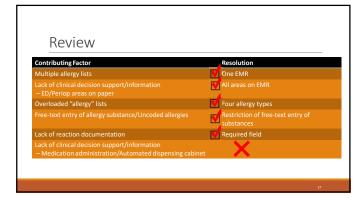
Latex allergy workflow

Who may update (add, modify, discontinue):

• Prescribers
• Registered nurse

• Pharmacists and medication history specialists
• Diettian or Diet technician (food only)
• Radiology staff (contrast only)
• Redical/dental assistants (proposed allergies only)

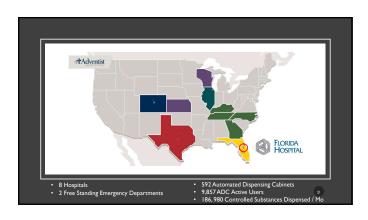
# Education and Implementation Introductory video • How to add/modify/discontinue Web-based compliance module • Allergy types and cases Training curriculum with go-live Quick reference card



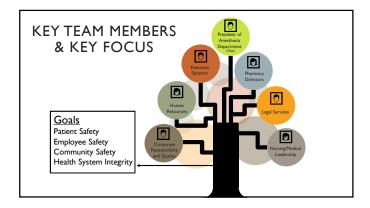
# Post-Implementation Reflections Side effects/intolerances not triggering drug-allergy decision support Haloperidol with reaction of hallucinations documented as side effect "Prescriber clinical judgment" as override reason Other healthcare team members less likely to question overrides "Mark as Reviewed" Delineating responsibility

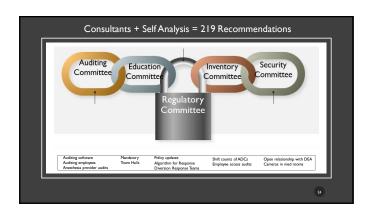
# Questions? ELIZABETH WADE, PHARMD, BCPS MEDICATION SAFETY OFFICER CONCORD HOSPITAL; CONCORD, NH

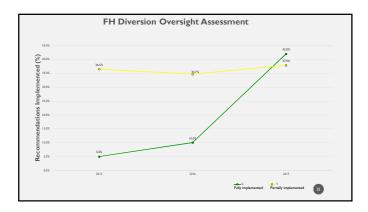
## DEVELOPMENT OF A SYSTEM-WIDE DIVERSION OVERSIGHT COMMITTEE Amanda Wollitz, PharmD, BCPS, FISMP Program Director of Policy and Quality, Florida Hospital

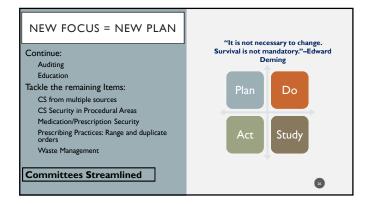


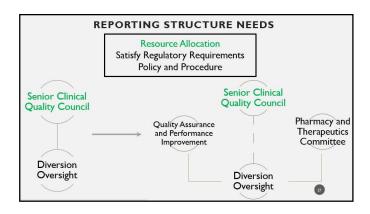




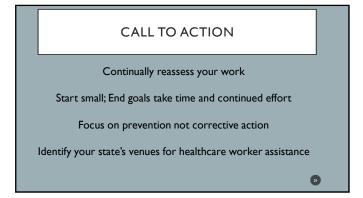






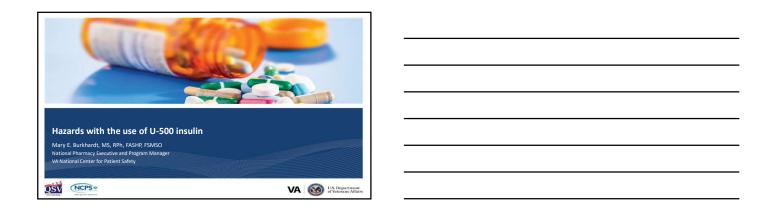






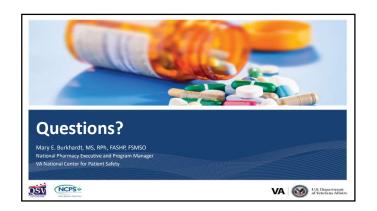
QUESTIONS?

Amanda Wollitz, PharmD, BCPS, FISMP
Program Director of Policy and Quality, Florida Hospital



Objectives		
To simply highlight the potential hazards faced with the use of U-500 concentrated insulin     Not here to comment on any official position of the VA or the preference or formulary status of any product		
VA NATIONAL CENTER FOR PATIENT SAFETY		

# What is known to be hazardous from case reviews The placement of U-500 vials anywhere near the patient care area Solution: Pharmacy supplies <u>individually issued</u> U-500 pens (still risk multi-patient use) Individual patient but codes could dissuade usage on a different patient Solution: Pharmacy draws to U-500 in place before la prived and still today) Great option for sites that draw up long acting insulins (safe practice recommendation for pharmacy draw) Solution: Pharmacsite review of flors totack drug issuance (law coded preferably). Have seen non-VA case of U-500 going out on FS resulting in many patients getting U-500 "SSI coverage" by accident The use of U-500 synthese for patients on other Insulin concentrations Solution: Control the issuing of the syringes AND the insulin both (don't FS syringes) Solution: Used or dress sts for prescribing concentrated insuling on the insulin both (don't FS syringes) Solution: Used or dress sts for prescribing concentrated insuling on the insulin solution. The medication reconciliation process Have seen some cases where pharmacy technicians did med rec not under supervision of a pharmacist and misunderstood what patient was taking at home. Solution: Insulin product board (show patient the types of insulins/systems) Not "watching" your U-500 population Solution: review and re-review the SiGs and product issuances regularly (easy MUE)





#### **MSOS Member Briefing**

Mike Cohen, ISMP President

- Enoxaparin syringe issues
- Drug name safety
- Vanderbilt case
- Bupivacaine-Penicillin G mix-ups in obstetrics



#### Questions?



- A copy of today's slides will be posted on our website
- Don't forget to mark you calendar:
  - Our next MSOS Briefings webinar will be held on January 24, 2019.

from Novartis.





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