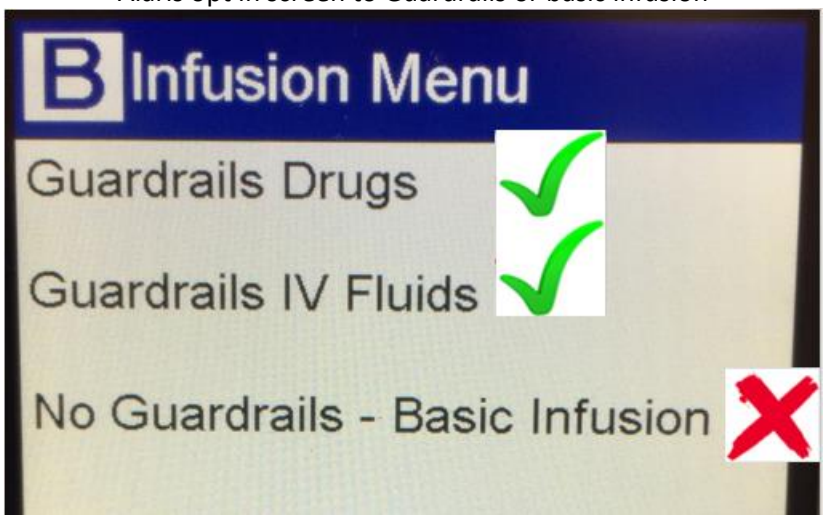
Medication Safety Metrics

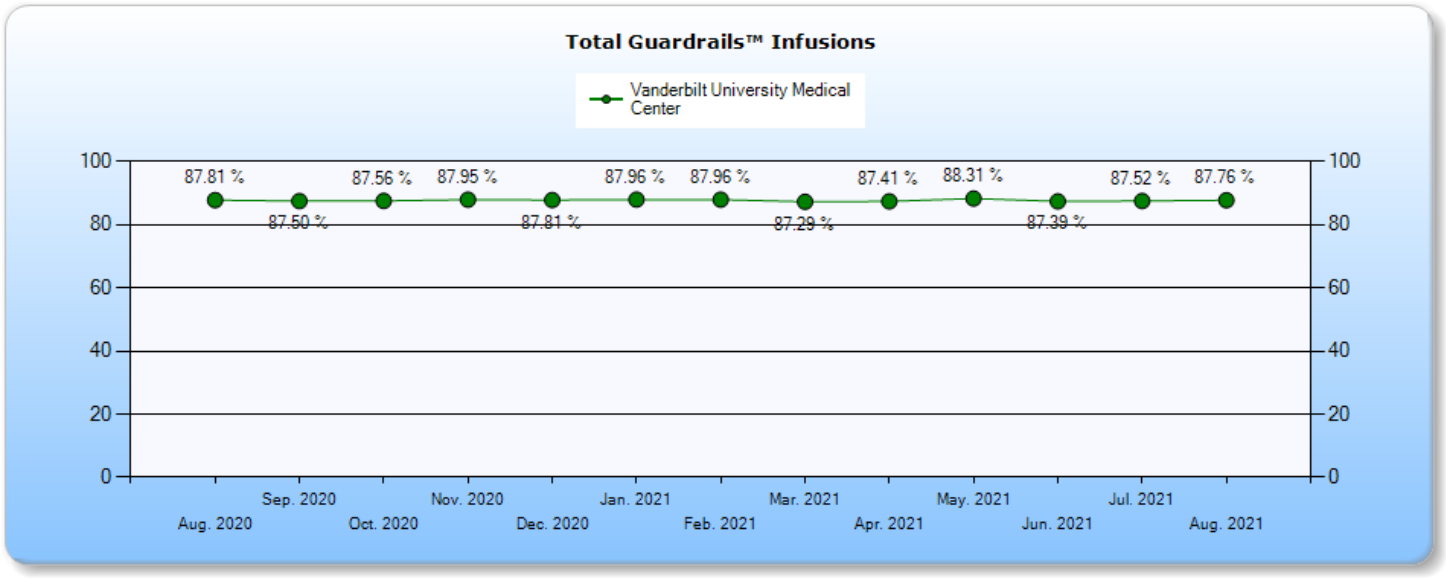
Guardrails compliance (Alaris smart pump)

- **Definition** - % of IV infusions run on a Guardrails file versus total IV infusions administered
- **Impact** – Use of Guardrails files improves patient safety with IV infusions through safety software with soft and hard limits on dose, infusion rate/time and concentration. Many programming errors, some with potential for patient harm, are caught each month as near misses through use of Guardrails files. Basic infusion programming is void of any safety features or transparency of what is infusing.
- **Benchmark > 95%** (new benchmark goal as defined by ISMP hospital best practices 2020-21)
    - Currently at 92% and continuing to reach for best practice benchmark
- In profile specific compliance data, **biggest compliance opportunity** is in **Adult Chemotherapy, Adult General Care, Peds Chemotherapy, which could indicate lower outpatient compliance**

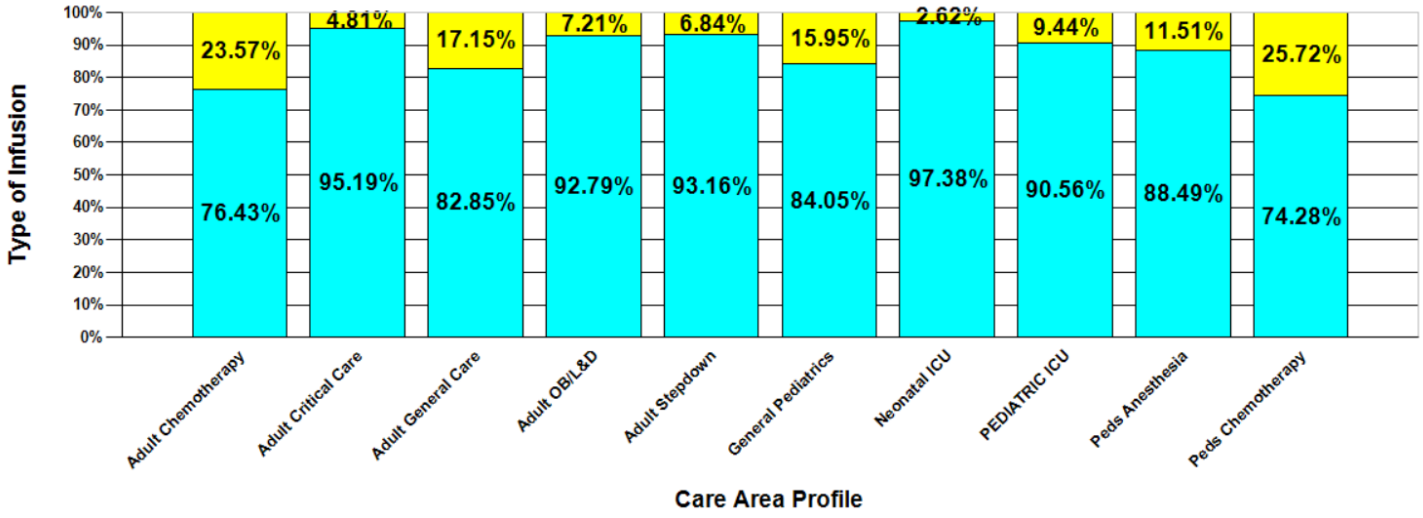
Alaris opt in screen to Guardrails or basic infusion



VUMC Guardrails compliance – Total Guardrails Infusions - all profiles

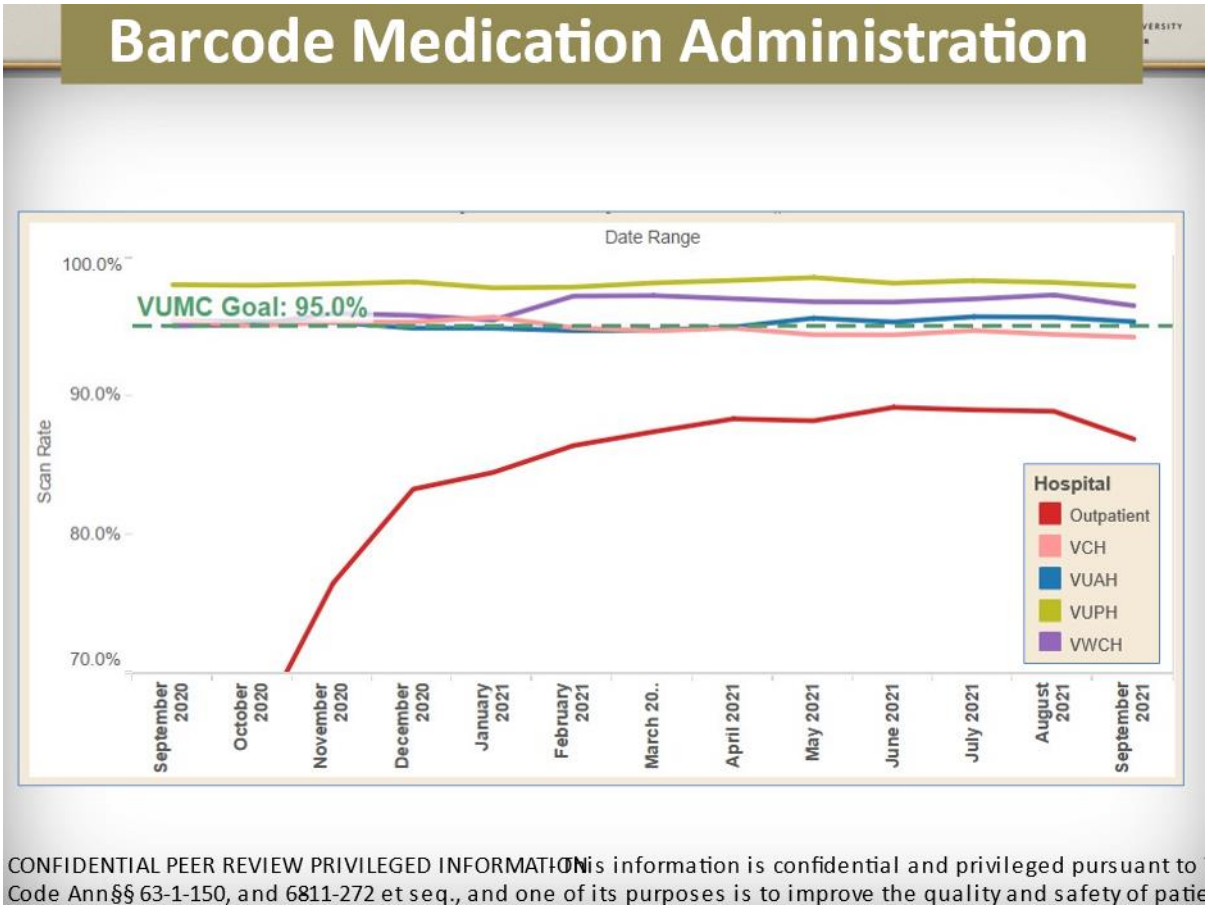


VUMC Guardrails compliance per profile – Total Suite Usage - August 2021



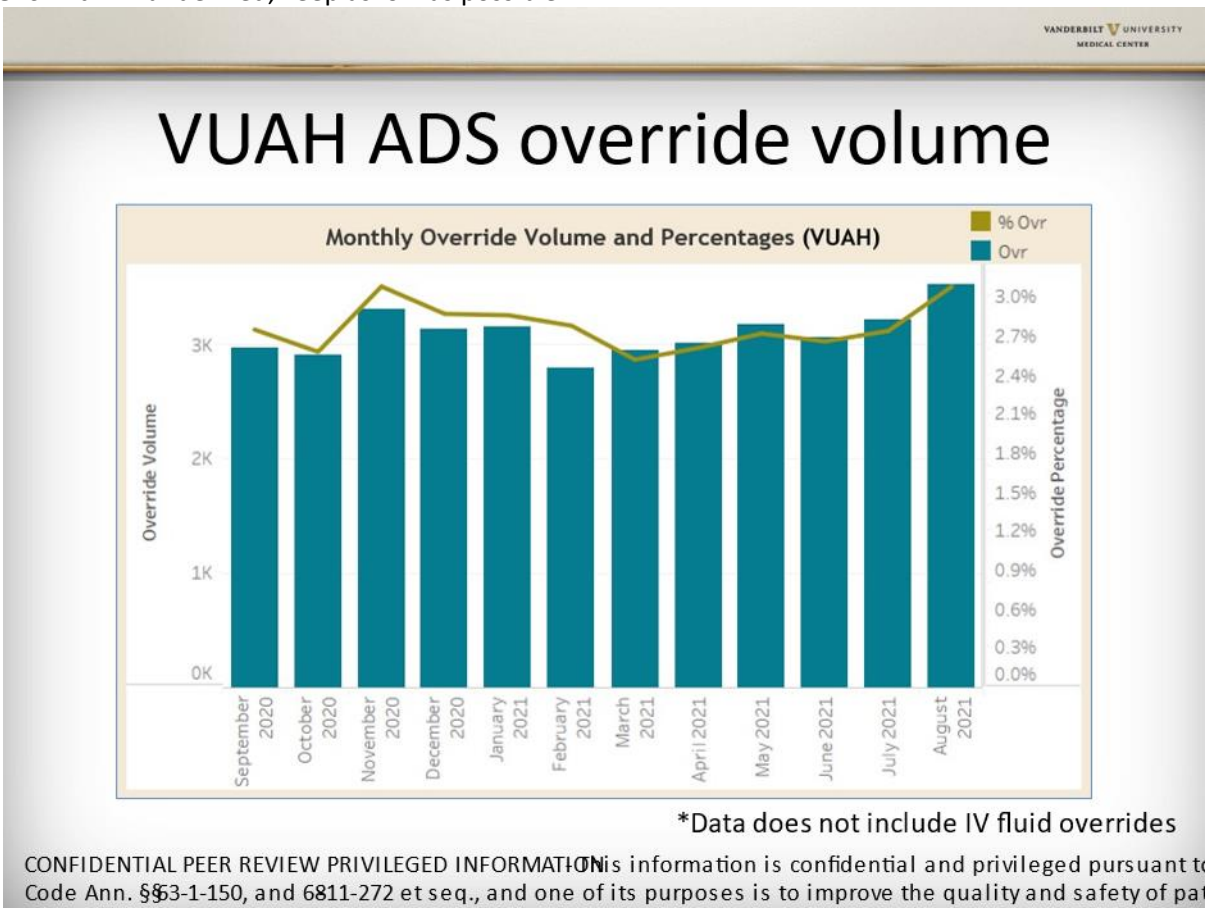
Barcode Medication Administration (BCMA) compliance

- **Definition** - % of administrations where both patient AND medication are scanned in VUMC areas live on BCMA
- **Impact** – BCMA improves patient safety by preventing medication errors in administration by being a systematic double check to the medication order of the 5 rights (patient, medication, dose, route and time).
- **Benchmark > 95%**
- **BCMA tableau version 2.0 launched 9/7. Inclusion of outpatient vaccine scanning into tableau in this version update has changed the arch of outpatient BCMA compliance and identifies additional opportunity.**
- **Expanded outpatient clinic BCMA to 111 areas**

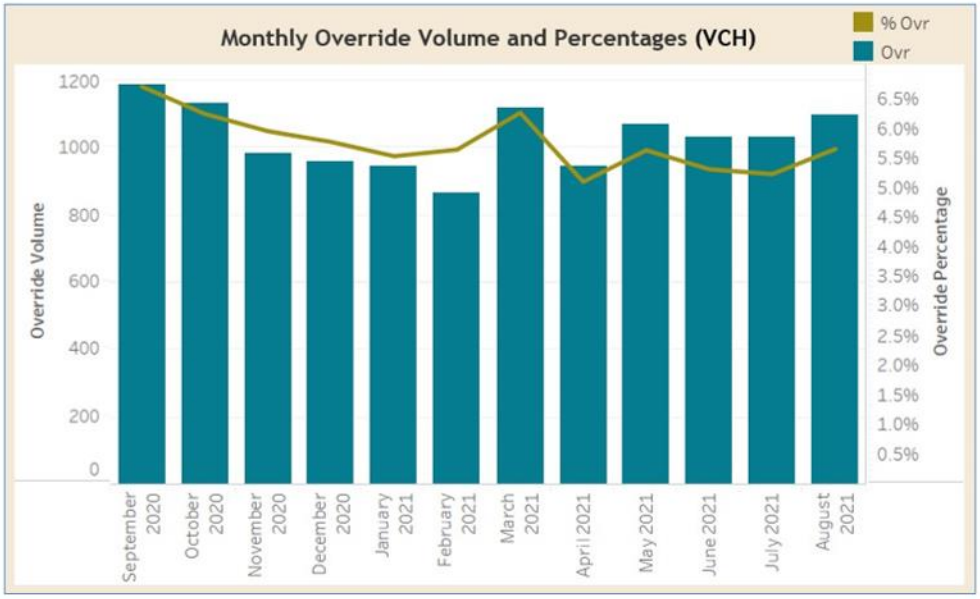


Automated dispensing cabinet (ADS) overrides

- **Definition** - volume of override accesses of medications in ADC on profile mode
- **Impact** – Override ADC accesses (vending med prior to med order entry and pharmacist review) should be limited to urgent/emergent patient scenarios or direct oversight from a LIP (licensed independent practitioner). Best practice and the safest workflow for the patient is to have medication order entry and pharmacist review precede ADC access for oversight from the provider and pharmacist.
- **Benchmark –** undefined, keep as low as possible



VCH ADS override volume



*Data does not include IV fluid overrides

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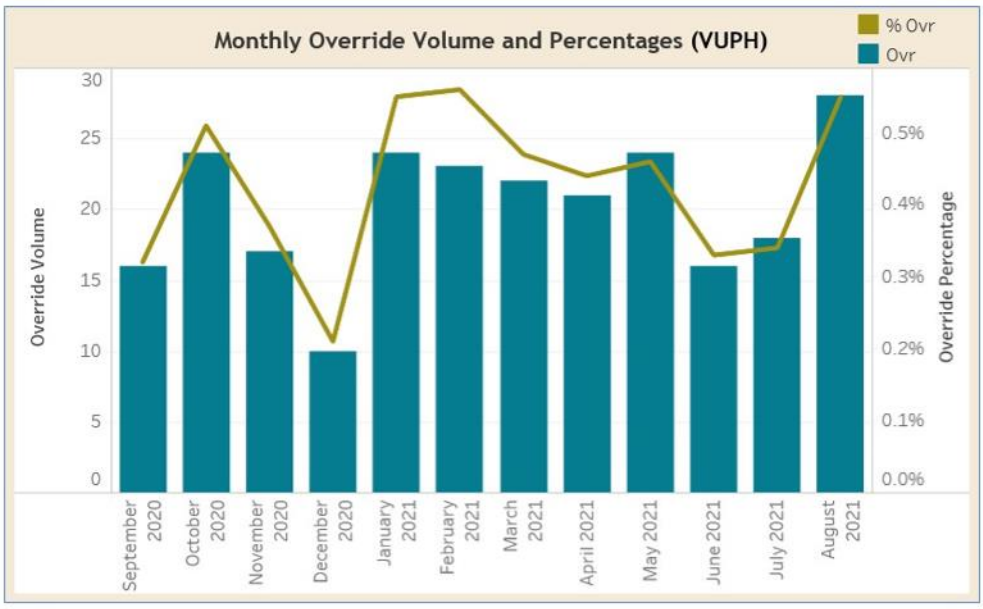
Code Ann. §§63-1-150, and 6811-272 et seq., and one of its purposes is to improve the quality and safety of pat

VPH ADS override volume



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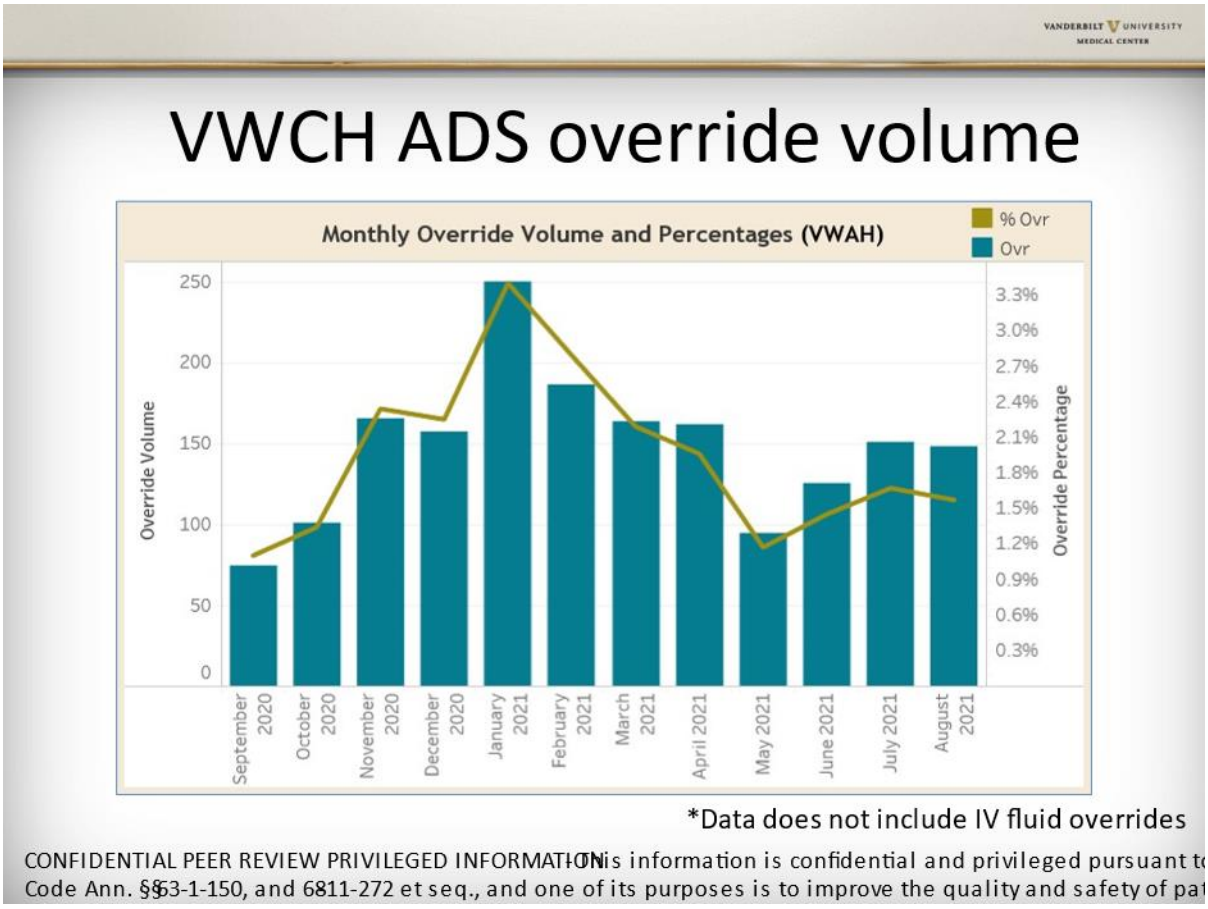

Resources

Current Alaris library version name **VUMC 9-33 v 08-2021B** (pushed 08/10/21)

Alaris Guardrails file request form (main campus): https://redcap.vanderbilt.edu/surveys/?s=WDHMAMYPRC

Alaris Guardrails file request form (VWCH): https://redcap.vanderbilt.edu/surveys/?s=3RH37LP49K

Current Alaris library profile pdfs: https://www.vumc.org/department-pharmacy/rx-documents-resources

Medication safety tableau data tools(access limited to nursing and other leaders)::

- **BCMA compliance**
  https://tableau.app.vumc.org/#/site/QualitySafetyRiskPrevention/views/BCMA-eStar_0/BCMA-NurseManagerDashboard?:iid=1
- **ADS overrides**
  https://tableau.app.vumc.org/#/site/QualitySafetyRiskPrevention/views/VUMCADSOverrideDashboardManagers/ADSSummaryManagers

Definitions

MUSIC at Vanderbilt is the acronym for the **M**edication **U**se **S**afety **I**mprovement **C**ommittee. MUSIC is a multidisciplinary team of pharmacists, nurses, prescribers and other ancillary colleagues. The purpose of MUSIC is to promote the improvement of quality of patient care through safe and effective medication use. This is accomplished by through many avenues, including process improvement initiatives, surveillance of quality metrics and adverse drug events, medication use evaluations, and support and education of evidence-based medication practices. There are 3 MUSIC groups with varying scope: Children's MUSIC, Adult MUSIC and Enterprise MUSIC.