



Antibiotic Stewardship & Electronic Prescribing



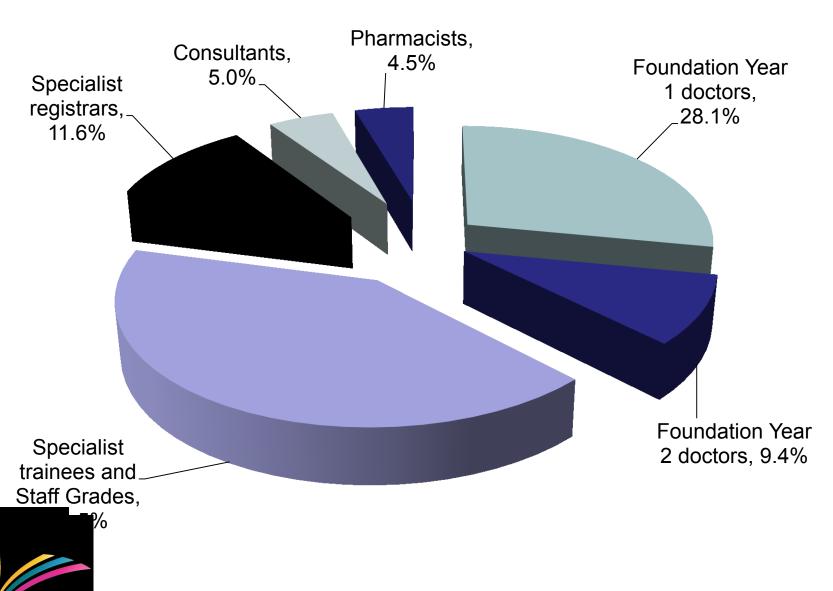
On behalf of the EP team

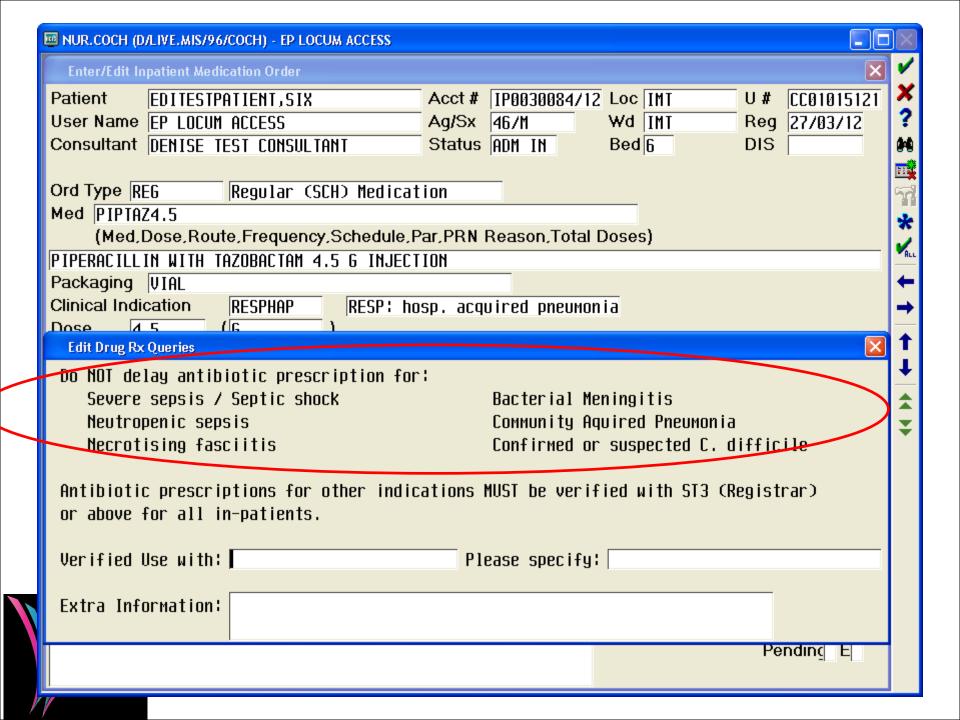
Dr Chris Green

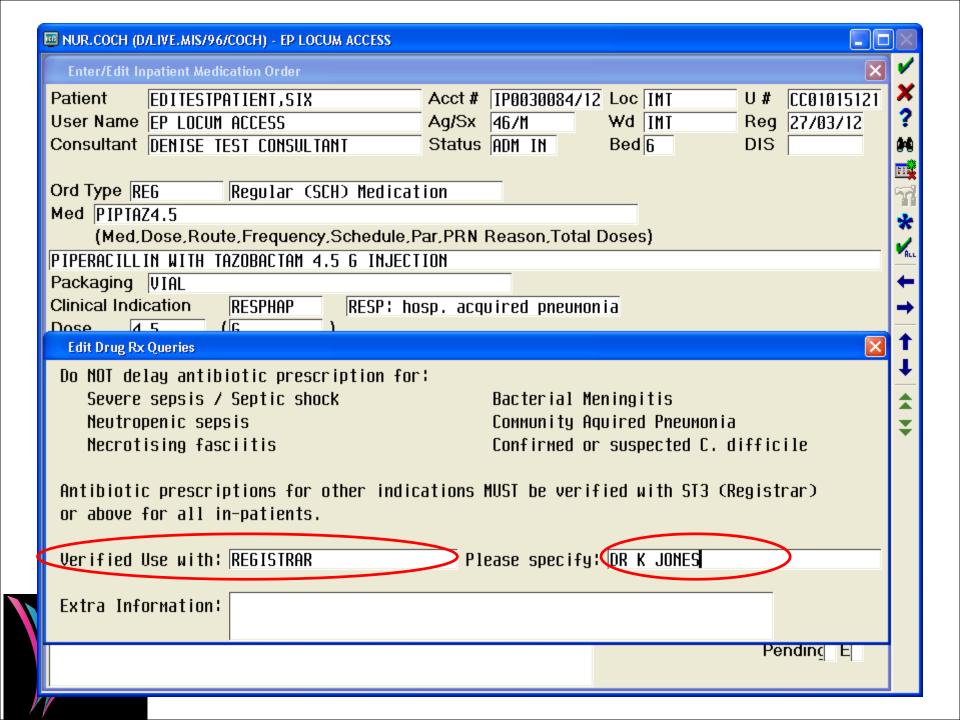
Director of Pharmacy

October 2014

Who is prescribing?







Clinical indication

- Optional / mandatory
- Free type / coded
 - CAP / .
- Choice of set up
 - Indication / organ system
 - Audit



Clinical Indication Lookup Select Mnemonic: Name RESPASPN RESP: aspiration pneumonia RESPBRONC RESP: bronchiectasis RESPCAPI-2 RESP:CURB 1-2 comm acq pneum 3 RESP:CURB 3-5 comm acq pneum 4 RESPCAP3-5 RESP: hosp. acquired pneumonia 5 RESPHAP 6 RESPIECTED. RESP: infective exacerb, COPD RESPURT I RESP: LRTI RESPLUNG RESP: lung abscess RESPOTHE RESP:OTHER state in Dose Instr RESPPCPP 10 RESP: PROPHYLAXIS PCP 11 RESPPCPT RESP: TREATMENT PCP 12 RESP: PROPHYLAXIS longterm RESPPROPH

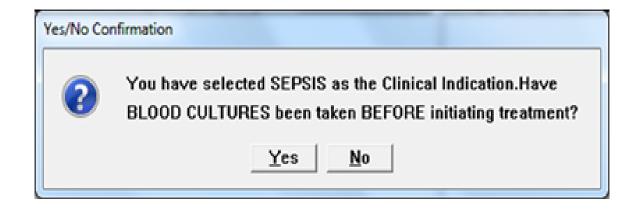
RESP: tuberculosis



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RESPIR

Cultures





Order sets

- CURB scores
- Doxycycline for LRTI
 - stat loading dose / five day course
- IV to oral switches
 - Clarithromycin
 - Piperacillin & tazobactam



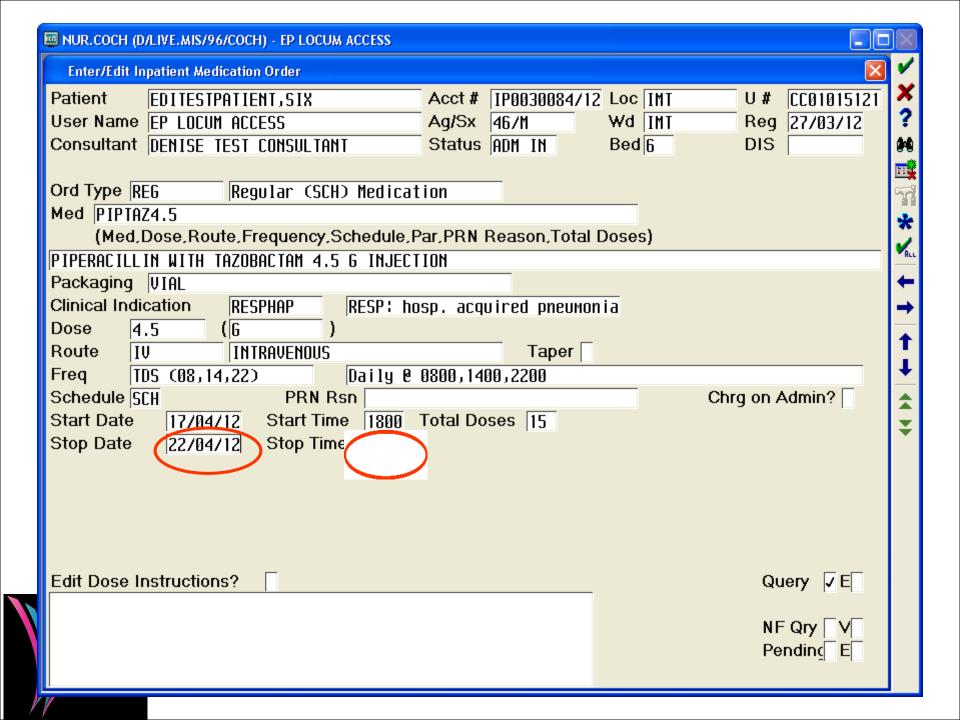
Default course lengths

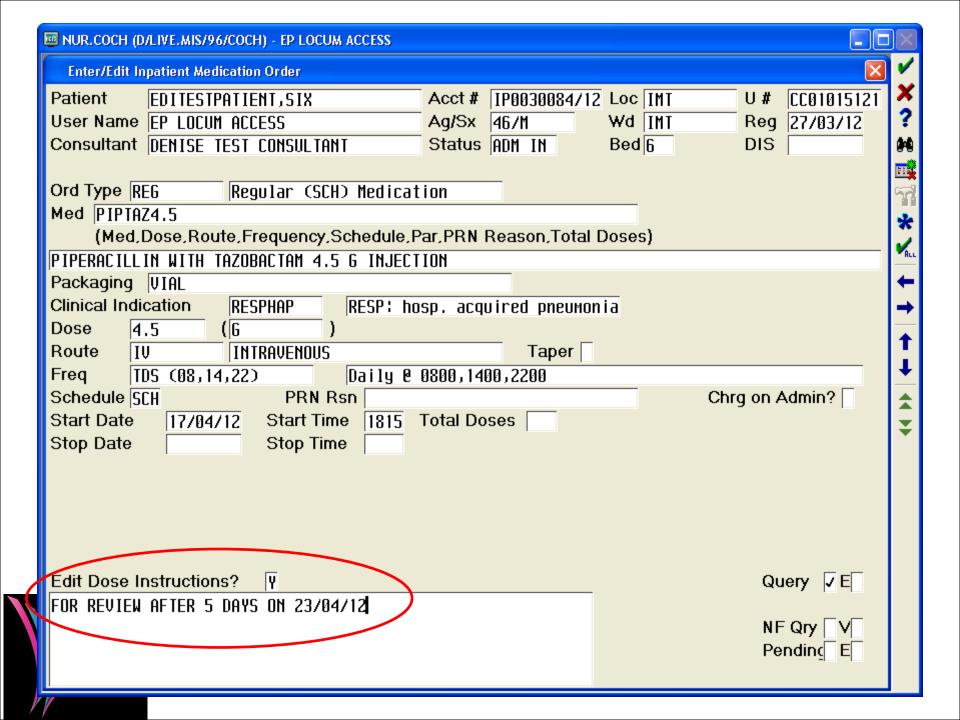
- An opportunity and a dilemma
- Lots of options, lots of discussion
- Oral meds 5 days
- IV meds 72 hours, then 48
- Hard / soft stop options
 - "The computer stopped it"









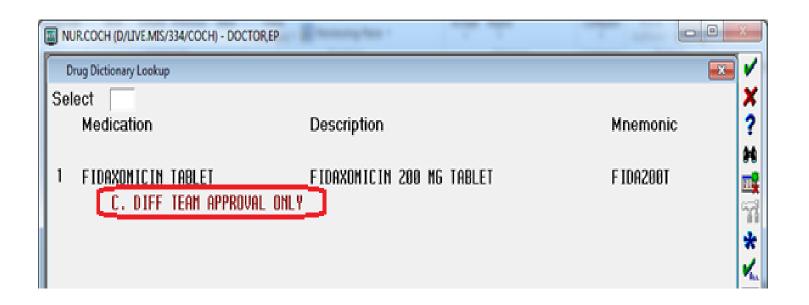


Big data

- Compared to paper
- Coding of drugs and indications
- PP audits
 - Full data set
- Huge amounts of data
 - Maybe too muchand noise
- DDDs / DOTs
- Real time data

Data management. Drug / Dose / Frequency / Route **Extraction** Order type – when required, once-only, regular Indication Start date / time & Stop date / time Consultant / Speciality Ward / Unit Prescriber and grade Cleansing & Prescriptions never administered to the patient sorting Removal of paediatric patients Stat doses Calculation Frequency of prescription Drug choices per indication Number of doses given Reporting Course length Prescribing patterns IV course lengths DDDs / DOTs Patients using antibiotics that require TDM Formulary compliance (manual validation)

Prescribing support





Formulary support

Rule Processing



Formulary choice for oral candidiasis: FLUCONAZOLE 50mg daily

- -AVOID fluconazole in PREGNANCY, PORPHYRIA & DYSPHAGIA
- -Fluconazole interacts with critical medications including: WARFARIN, CICLOSPORIN, ANTIEPILEPTICS see BNF for full list
- -NYSTATIN can be used in these circumstances



Conclusions

- Many opportunities
- Dilemmas
- Decision support
- Data and research
- Real time and retrospective
- Alignment of coding / nomenclature



Thank you for listening

Any Questions?

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