

Physician Education Express

Physician/Nurse Education - Inpatient Order Entry for All IV and PO Fluoroquinolones



Audience: Physicians, Residents, Nurse Practitioners, Physician Assistants, and Nurses
Education Level- **Yellow**

August 18th, 2020

Background/Rationale:

- Published literature supports the requirement of clinical indication at time of order entry to increase appropriate antimicrobial use.
- Indication at time of order entry is also recommended by the National Quality Partners (NPQ) and CDC.
- The FDA recommends reserving the use of fluoroquinolones for specific indications *“...when patients have no alternative treatment options because of the risk of disabling and potentially serious adverse reactions (Eg, tendinitis and tendon rupture, peripheral neuropathy, CNS effects)”*.
- ID Clinical Council endorses required indications for fluoroquinolone antibiotics to prompt provider and clinician assessment of antibiotic appropriateness.

Which Antibiotics Are Indications Required for?

- CIPRofloxacin (IV/PO)
- LEVofloxacin (IV/PO)
- MOXifloxacin (IV/PO)

Will an Indication be Defaulted in Current PowerPlans?

- Yes, when possible the indication corresponding to the order in current PowerPlans will be pre-populated.

What If the Indication I am looking for Isn't Listed?

- If your indication is not listed, that means that indication is not endorsed for fluoroquinolone use at IU Health. Consult your ID resources for antimicrobial alternatives.
- If no alternatives exist select “Other” from the drop-down, and write indication in the comments field
 - Example: MOXifloxacin “Other” - Stenotrophomonas maltophilia

Which Indication Options are Available to Choose from?

Antibiotics	Indication
CIPRofloxacin	<ul style="list-style-type: none"> Prophylaxis CF exacerbation Bone/joint Pseudomonas requiring Oral Treatment Severe PCN/cephalosporin allergy Febrile neutropenia (LOW-RISK) Infectious diarrhea Other (Please specify in comments)
LEVofloxacin	Pneumonia in Child < 40 kg Other (Please specify in comments)
MOXifloxacin	Pneumonia Severe PCN/cephalosporin allergy Other (Please specify in comments)

Highlights

**IU Health
 System Go-Live:
 August 18th,
 2020**

Indications required for:

- CIPRofloxacin (IV/PO)
- LEVofloxacin (IV/PO)
- MOXifloxacin (IV/PO)

When possible the indication corresponding to the order in current PowerPlans will be pre-populated. .








For further information:

Contact the National Quality Partners (NPQ) and CDC.






Example:

PowerChart Order Entry



▼ Details for CIPRofloxacin (Cipro)

 Details	 Order Comments	 Diagnoses
   		
*Dose: 400	*Dose Unit: mg	*Frequency: Q12H
Drug Form: <input type="text"/>	*Indication: <input type="text"/>	*Start Date/Time: <input type="text"/>
PRN Reason: <input type="text"/>	Stop Type: Bone/Joint	CF Exacerbation
*Pharmacy May Convert to Oral Per Policy: Yes	Severe PCN/Cephalosporin Allergy	Pseudomonas Requiring Oral Treatment
Duration Unit: <input type="text"/>	Febrile Neutropenia (LOW-RISK)	Prophylaxis
This Field Currently Not in Use: <input type="text"/>	Other (Please specify in comments)	

PowerChart Active Orders

		Order Name ▲	Status	Details
		 CIPRofloxacin (Cipro)	Ordered	400 mg, IVPB, Q12H, Indication: Febrile Neutropenia (LOW-RISK), 04/3

MAR Summary

Medications
CIPRofloxacin
  CIPRofloxacin (Cipro)
400 mg, IVPB, Q12H, Indication: Febrile Neutropenia (LOW-RISK), 04/30/20 14:00:00 EDT, 200 mL/hr, Infuse Over 60 Minutes, Total Volume (mL) = 200
CIPRofloxacin
Dextrose 5% in Water

Future Direction:

This feature will be expanded to other antimicrobial agents over time pending the clinical success of this initiative