

Penicillin Infusion Through Epidural Catheter: A Case of Wrong Drug Administration

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- Medication errors are a significant cause of morbidity and mortality
 - Top 5 instances of death around the world
 - Of the few described cases, 3 involve antibiotic administration into the epidural space



15:00

- 20yo G3P2 at 39+3 EGA, no PMH or allergies, presented for IOL and requested epidural analgesia

16:00

- CSE administered: 0.2% Ropivacaine + 2mcg/mL Fentanyl started at 10mL/hr through epidural catheter

18:30

- Patient experiencing intense itching not relieved with Zofran, Benadryl and Nalbuphine; elected to remove fentanyl from solution

18:50

- Pharmacy sent 0.2% Ropivacaine through tube system, oncoming anesthesiology resident changed solution and infusion resumed

21:00

- Patient endorsing labor pain despite appropriate troubleshooting

21:30

- L&D RN noted solution was penicillin, immediately changed to ropivacaine and restarted with return of adequate analgesia

23:00

- Neurology consulted, no neurologic deficits after close monitoring; healthy baby after uncomplicated delivery

Conclusion

- Reported examples of wrong drug administration through epidural catheters range from no effect detected to death, all with a variety of treatments
- Always practice “right patient, route and medication”
- Prevention is key:
 - Distinguishing features of epidural bags, labels, and tubing (different size and/or color)
 - Scanning medication before administration
 - timeout before initiating infusion
 - incompatible tubing with Luer-type connections

