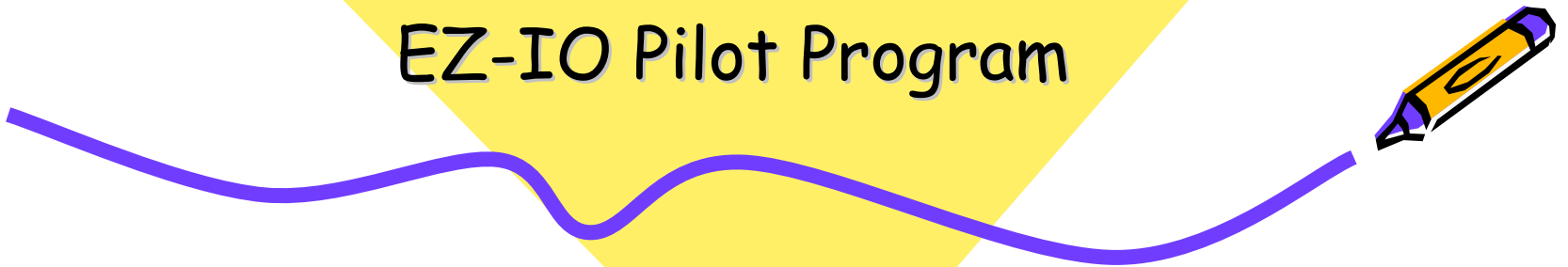


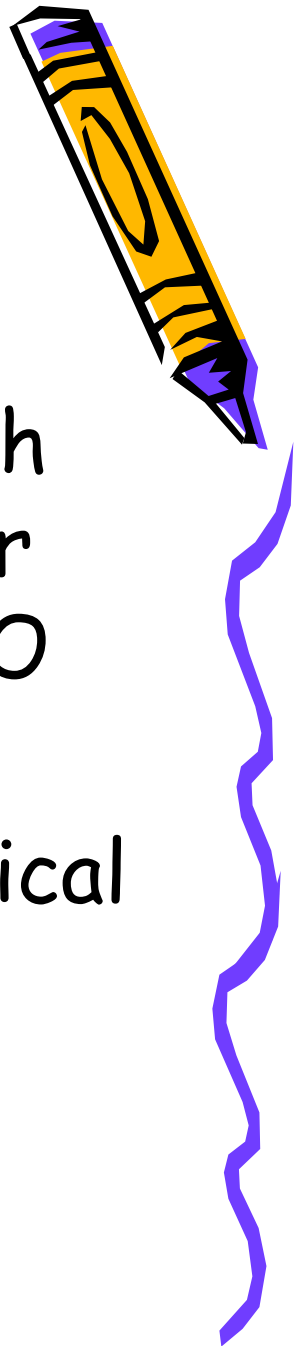
Performance Improvement Project

October - December 2006
EZ-IO Pilot Program



Objectives

- Review of online survey to establish parameters of use by providers for newly established use of the EZ-IO intraosseous access device.
- Give feedback to Operational Medical Directors, Agencies, and Hospitals involved in pilot program.



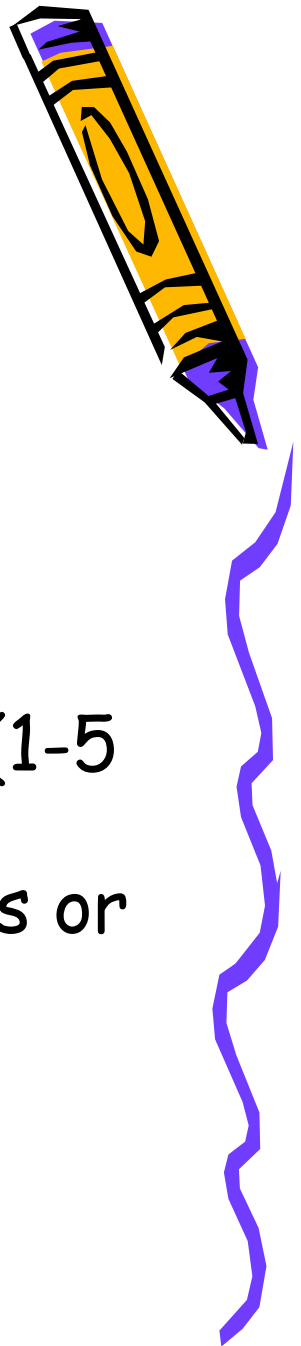
Pilot Program Overview

- 6 "agencies" participated
- 81 responses reported
- Data collection via an online survey to be completed after insertion
- Data collection encompassed 10 month time frame



Topics of focus

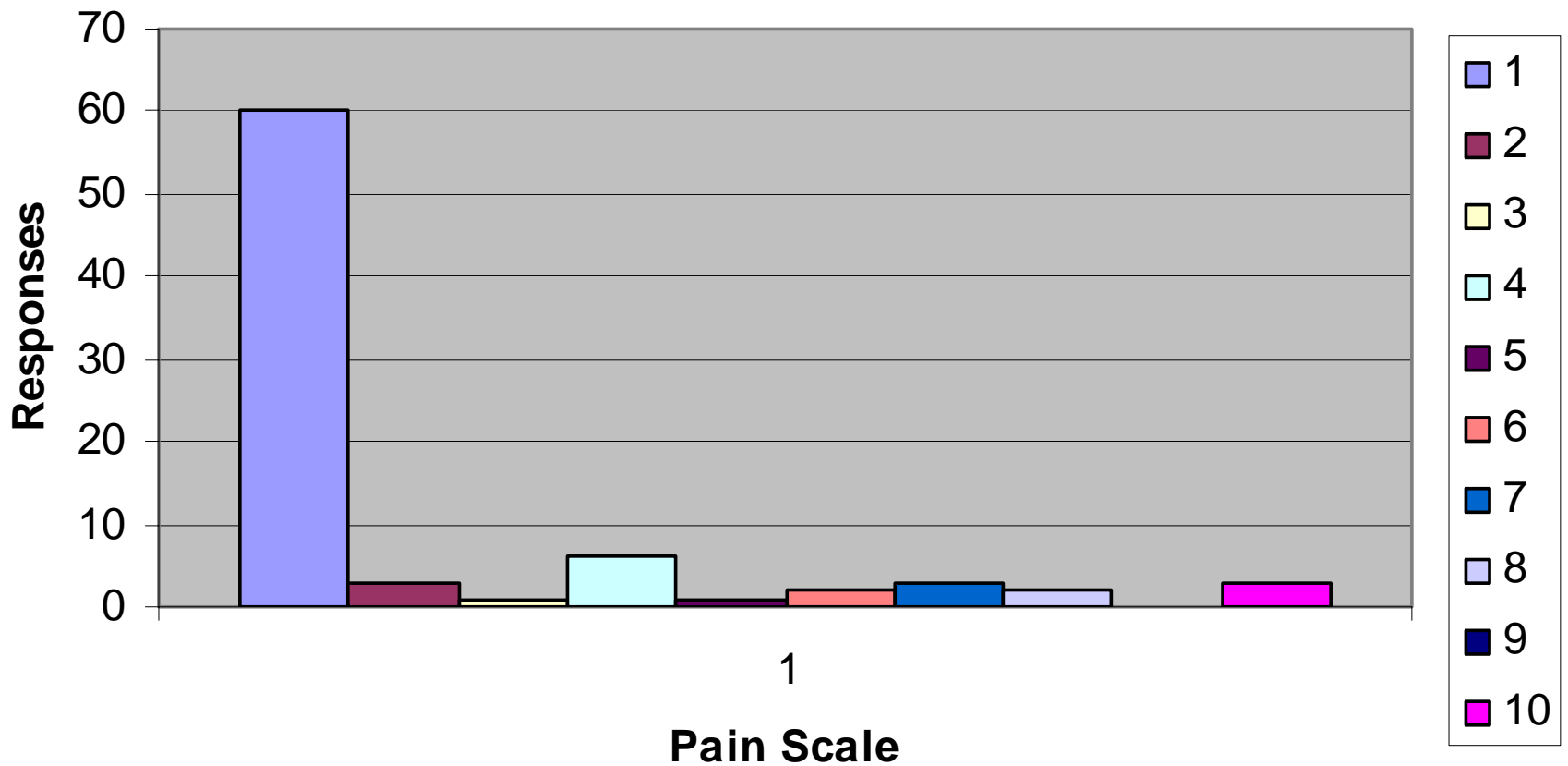
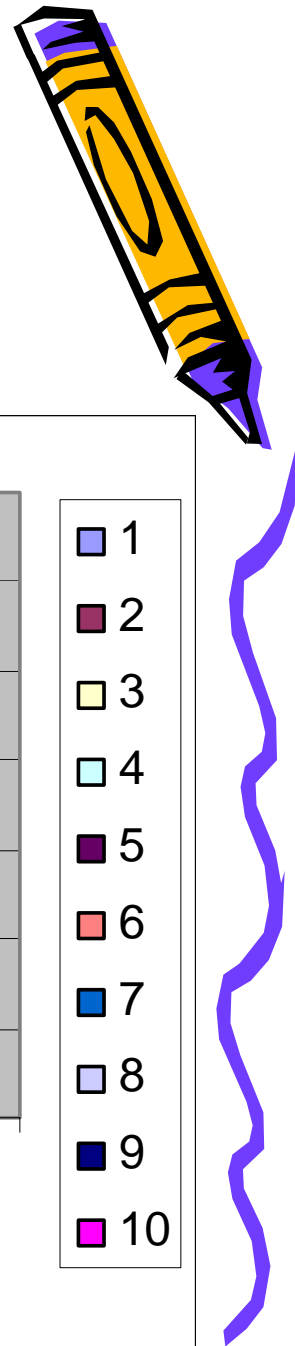
- Did patient complain of pain during insertion? (1-10 scale)
- Did Lidocaine decrease the pain of infusion?
- Rate your experience using the EZ-IO (1-5 scale)
- Did the EZ-IO compromise the patient's or user's safety?
- Were there complications with use?



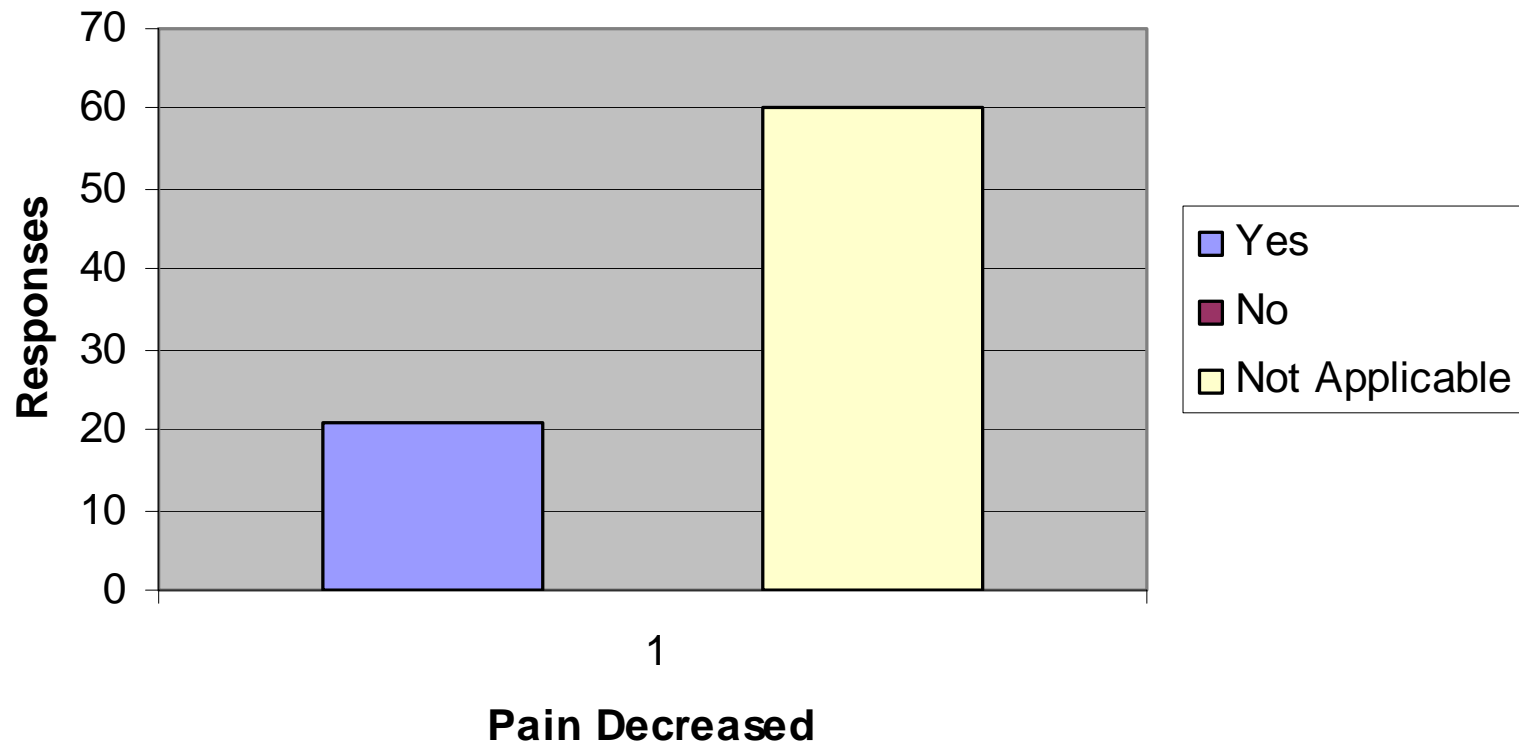
Pain during insertion?

1-10 scale

1 being *no pain* and 10 being *severe pain*



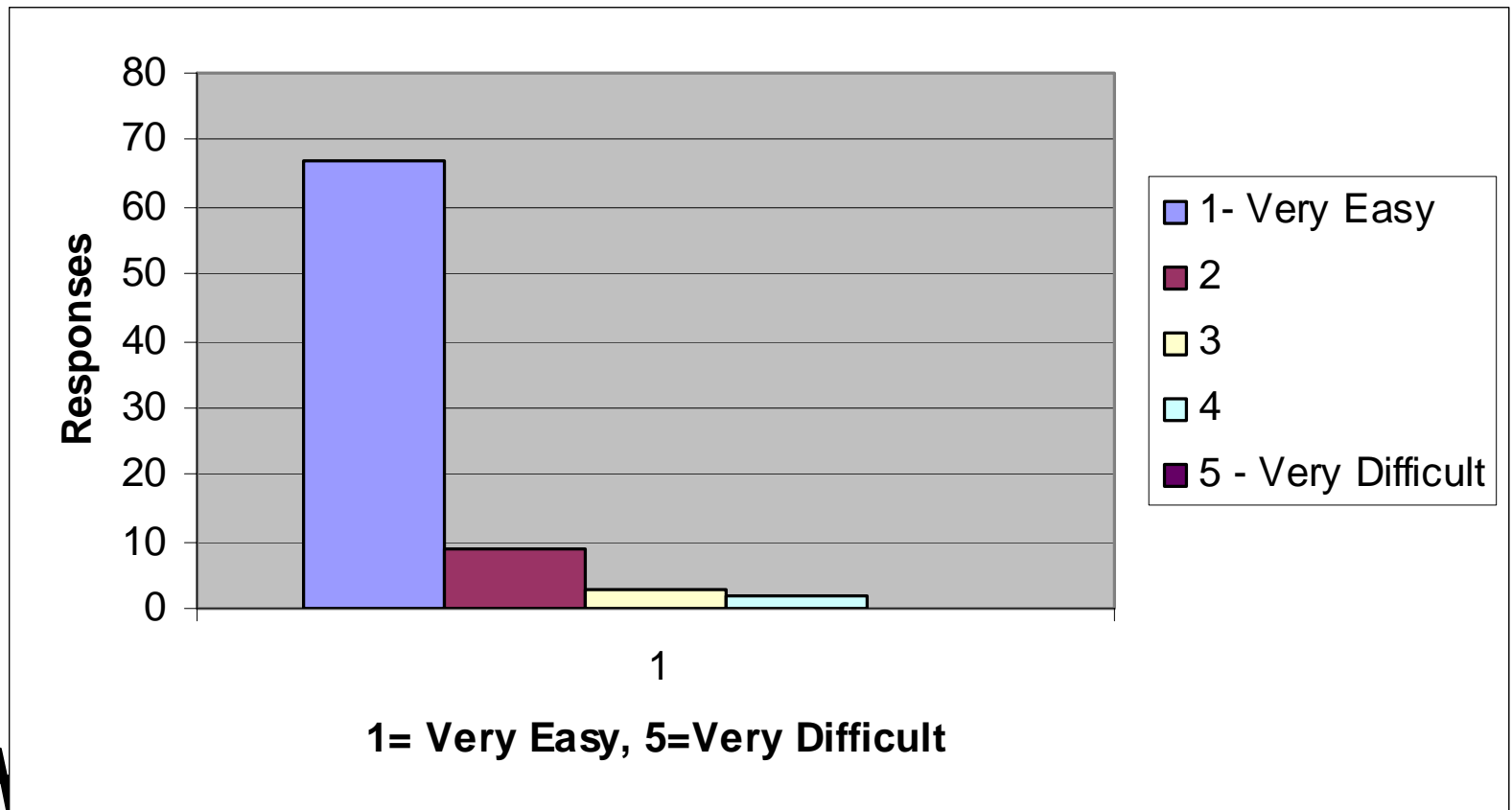
Did Lidocaine decrease the pain of infusion?



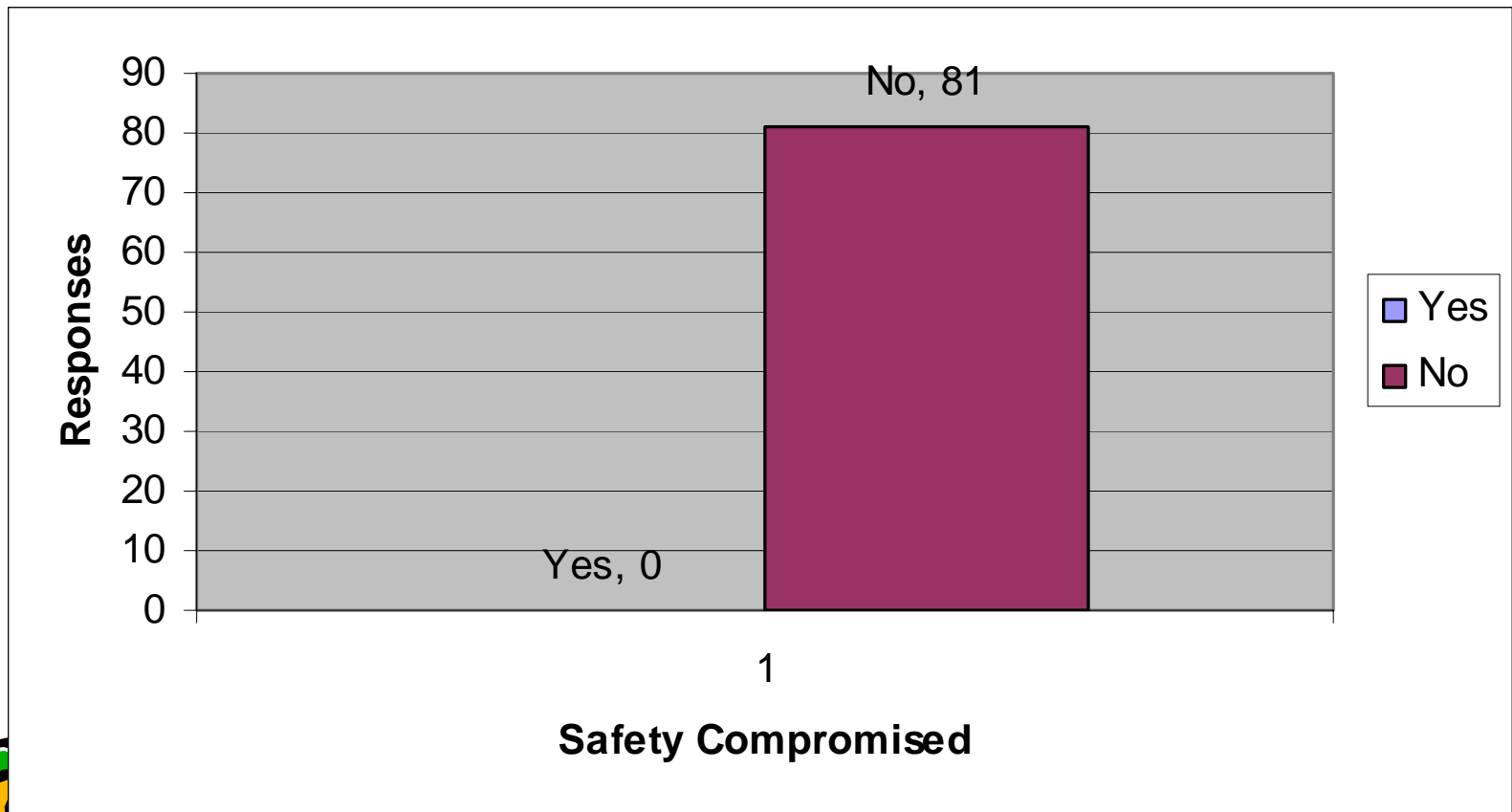
Experience using the EZ-IO

1-5 scale

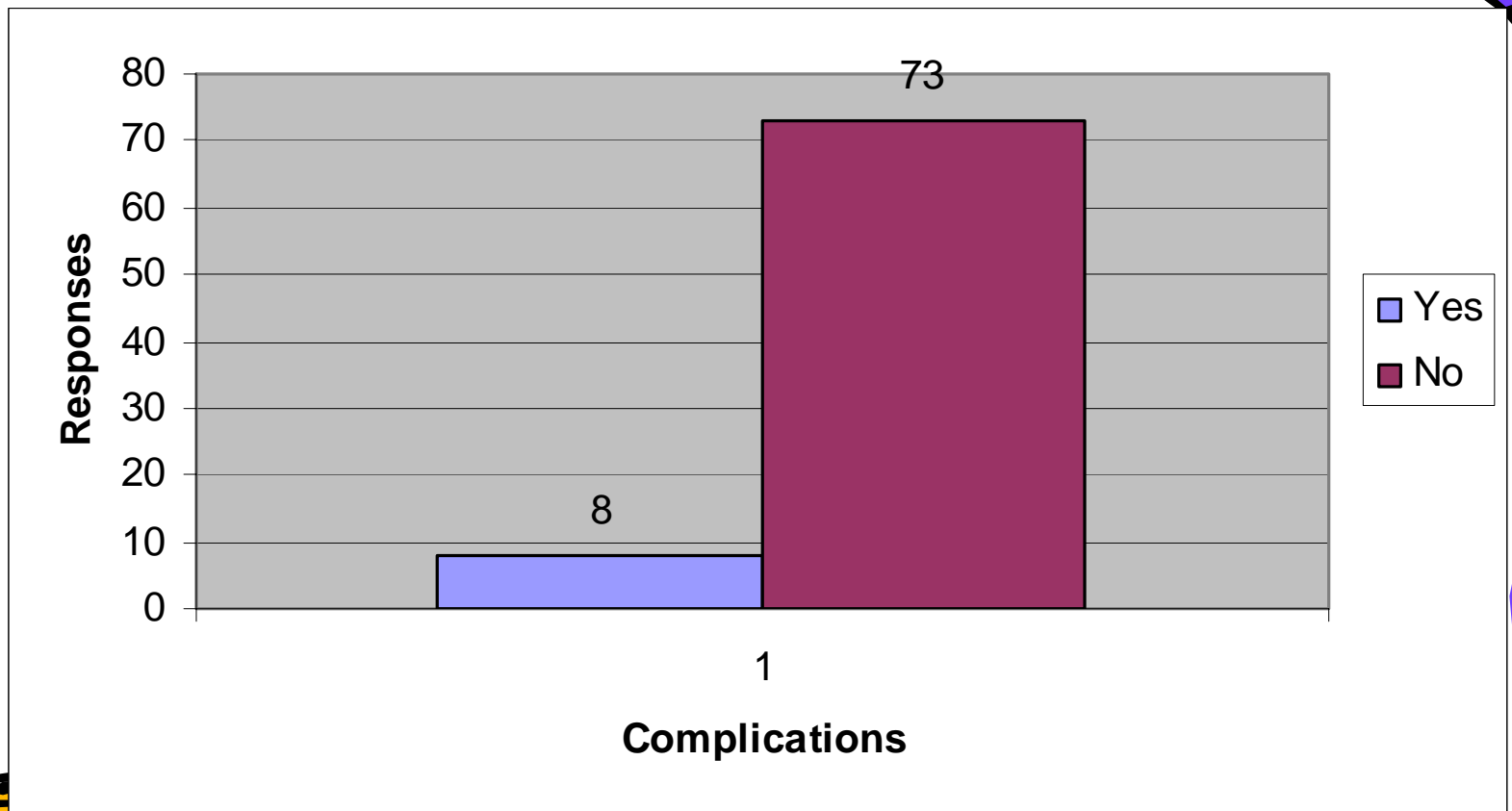
1- *very easy* and 5- *very difficult*



Compromise the patient's or user's safety?

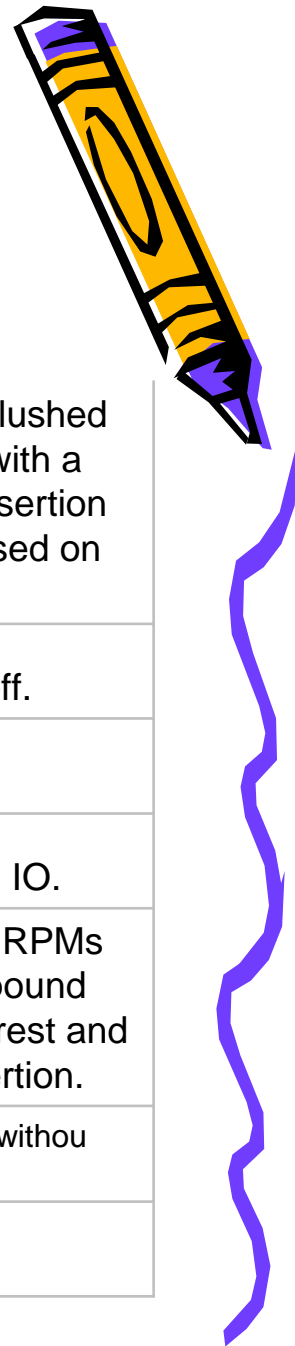


Complications with use?



Complications with use?

Comments



Although bone marrow was aspirated, the needle was very secure in the bone, and it flushed with 5mL of lidocaine, relieving the pain, the liter of fluid would not infuse, even with a pressure bag in place. The setup was troubleshooted with no cause found. The insertion site was verified by several other trained individuals to be in the correct place, based on training and landmarks. Still, the line would not flow.

None prehospital, while in hospital combative pt. kicked bed rails and hub broke off.

Pt was extremely overweight. Unable to reach bone with EZ-IO.

Not able to aspirate. Fluid flush dislodged the needle. RS1 (McSherry) removed the IO.

EZIO device could not penetrate the bone - the drill itself seemed to have trouble with RPMs and could not be advanced into the bone. I have done one prior EZIO on a 100 pound woman and it worked well. This one did not work properly. This pt was a cardiac arrest and the EZIO was utilized after arrest - pt provided no communication on pain of insertion.

The needle would not completely penetrate the tibia for med administration. Several attempts done without success. It appeared that the driver was not giving enough push.

difficulty flowing fluids

