

Subject Topic	
Framework Profile	Intraosseous Insertion & Fluid Resuscitation
Associated E-Learning or Webinar tutorials	<ul style="list-style-type: none"> • Resus4kids – IO module
Simulation learning objectives	<ul style="list-style-type: none"> • Indications & contraindications for insertion of an intraosseous needle • Selection & preparation of IV fluids for resuscitation • Rehearsal of skills in a simulated environment
Target Group	<p>Nursing and Medical students</p> <p>Junior nursing and medical staff</p>
Delivery method	Facilitated discussion and Simulated learning event
Timeframe	60 minutes
Resources for session	<p>EdWISE paediatric box</p> <p>Audiovisual equipment</p> <p>Zara manikin</p> <p>EZ-IO and needles</p> <p>Training bones for EZIO practice</p> <p>Normal saline and giving sets</p> <p>Local paperwork for paediatric patients</p>

This project was possible due to funding made available by Health Workforce Australia

Session Structure - EdWISE PROGRAM – P3 Intraosseous Insertion & Fluid Resuscitation		
Timing	Welcome and Introduction	Resource
5 mins	<p><i>Welcome and Introduction</i></p> <ul style="list-style-type: none"> • Provide Housekeeping – Fire Exits, mobile phones on vibrate • Provide a summary of what the workshop will involve and the expectations from the participants • Introduce yourselves - facilitation team, host team and participants. Include experience of cardiac patients <p>If this is not the first module run on that day, the participants are the same and this has been covered previously, then this section can be missed out.</p>	<p>Video conferencing unit</p> <p>Enough seats for the participants and arranged in a horseshoe facing the VC unit and camera.</p> <p>Led by the team over VC but with host team supplying information on the fire exits/toilets/etc.</p>
Timing	Main Topic Presentation	
15 mins	<ul style="list-style-type: none"> • Indications & contraindications for insertion of an intraosseous needle • Selection & preparation of IV fluids for resuscitation • Rehearsal of skills in a simulated environment 	PowerPoint presentation
Timing	Familiarisation to Skills Session	
5 mins	<p>Explain to participants the format of how the skill session will run</p> <ul style="list-style-type: none"> – Silent demonstration by hub faculty – talked through demonstration by local faculty – break into 2 groups (depending on local faculty ability to supervise) <p>Each participant will then talk themselves through one at a time while demonstrating the skill with an instructor supervising</p>	Local faculty to familiarise the students to the environment/ mannequin/actors. Can use the familiarisation video, to guide the local faculty, if needed.

This project was possible due to funding made available by Health Workforce Australia

Timing	Demonstration
5 mins	Silent demonstration of site selection, prep, insertion of IO, withdrawal of marrow, connecting extension piece – done by Hub Faculty Talk through demonstration of same – done by Host faculty
Timing	Skills Station
20 mins	Divide into groups with Host instructors supervising Each participant talks through their own demonstration Discuss securing & splinting of the leg & how to deliver IV fluid bolus
Timing	Summary
5 mins	<ul style="list-style-type: none"> • Consider IO insertion when immediate access required & IV unsuccessful after 90 secs • All fluids & drugs can be given via IO • Laboratory tests can be sent, but tell the lab it's marrow • Insertion site is the antero-medial surface of the tibia, approximately 1-3 cms below the tibial tuberosity • Bolus fluids N/S with an age appropriate set up

This project was possible due to funding made available by Health Workforce Australia