

# **WALLCUR® PRACTI-VIAL™ & PRACTI-MINI VIAL™**

## **INSTRUCTIONAL GUIDELINES**

### **OBJECTIVES**

1. Demonstrate sterile technique in syringe and vial handling
2. Draw up a specified amount of fluid from a standard and a mini vial

### **SYRINGE INSTRUCTION**

1. Instruct students in identification of sizes of syringes and needle gauges.
2. Demonstrate sterile aseptic technique in syringe and needle opening and needle attachment.
3. Demonstrate syringe preparation for use if needle is already attached: tightening of needle on syringe, removal of needle cap, loosening of plunger, review of metric calibrations.

### **PRACTI-VIAL™ INSTRUCTION**

1. Check label for solution type, and vial volume.
2. Remove protective cap and clean rubber stopper.
3. Draw up replacement air in syringe to equal amount of solution to be withdrawn, and explain why this is necessary.
4. Place the vial on counter top to penetrate rubber top with needle.
5. Check that needle tip is **above** fluid level to inject replacement air, explain that this is done because air injected into some medications can distort dosages.
6. Inject the replacement air, and invert vial and syringe to eye level, adjusting needle tip so that it is well under solution level.
7. Rotate the syringe so that the metric calibrations can be read, and draw up fluid slightly in excess of amount required.
8. Hold syringe perfectly straight and tap barrel as necessary to raise air bubbles, then expel air and fluid to exact amount of fluid/medication required.
9. Grasp the syringe by the barrel to remove the needle from the vial, and cap the needle.
10. Demonstrate the effects of failure to inject replacement air, when negative vial pressure results in the plunger being difficult to draw back, and plunger being sucked back into the barrel when released.
11. Show how to correct vial air pressure problems by inserting needle **above** fluid level, then disconnecting from barrel to allow air pressure equalization.

### **PRACTI-MINI VIAL™ INSTRUCTION**

1. The main consideration in Practi-Mini Vial fluid withdrawal is that the vial pressure problem is more obvious, and that manipulation of this smaller vial is more difficult.
2. Have the student re-inject fluid to re-practice this skill. This will require air withdrawal to reestablish interior vial pressure
3. Point out that Practi-Mini Vial is a single use vial, whereas Practi-Vial may be used multiple times depending on dosages ordered.

***Note: For instructional purposes only. Not for human or animal injection***