

Section: Division of Nursing

* **PROCEDURE** *

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HACKETTSTOWN REGIONAL MEDICAL CENTER

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OR
(Scope)

TITLE: USE OF HALL OSTEON DRILL SYSTEM

PURPOSE: To outline procedure for proper use of the Hall Osteon Drill System

EQUIPMENT:

1. Osteon drill hand piece (either straight or angled)
2. Foot control
3. Universal hose
4. Osteon Hose
5. Osteon drill bits
6. Nitrogen tank

CONTENT: PROCEDURE

1. To connect the Universal Hose to the foot control.
 - a. Grasp the foot control and hose firmly
 - b. Insert the coupling end of the hose onto the fitting on the foot control, push together and twist to the right so the pins are seated in the indentations.
 - c. Pull gently on the hose to make sure the hose is securely fastened to the foot control
 - d. Connect the other end to the nitrogen tank.
2. To connect the Osteon hose to the foot control
 - a. Insert the hose into the foot control fitting
 - b. Push together and twist to the right until the pins are completely seated in the indentations of the Osteon hose,
 - c. Pull gently onto the hose to make sure the hose is securely fastened to the foot control.
3. To attach the hand piece to the Osteon hose
 - a. Place the instrument in the safe position
 - b. Pull the slide ring back
 - c. Insert the hose into the hand piece and release
 - d. Be certain that the hose is securely connected
4. To insert Osteon burs in either the straight or angled hand piece.
 - a. Pull out the bur locking mechanism
 - b. Rotate the bur locking mechanism away from the lock position
 - c. Insert the Osteon bur into the hand piece
 - d. Rotate the bur locking mechanism until the red dot is in line with the work **lock**. This is the full lock position.
 - e. Pull gently on bur to ensure it is seated properly.
5. To activate the hand piece.
 - a. Rotate the forward/reverse selector to the desired position.
 - b. Depress the foot control

6. To activate foot control.
 - a. Depress the dome at any desired position, except over the hose fittings.

7. To achieve variable speeds
 - a. Set the forward/reverse selector between the desired direction and safe. This position may be varied and will control the amount of gas pressure available for operation.
 - b. Partially depress the foot control. This will also limit the pressure available to the drill.

8. Osteon System Warnings
 - a. Always place the forward/reverse selector in the **safe** position when changing burs or hoses and when the instrument is not in use. Failure to follow these instructions may result in injury.
 - b. Always use Osteon burs. The Osteon hand pieces will accept only ten-tooth Osteon Ball bearing burs. **DO NOT USE impersonator burs.**
 - c. Always check burs before using. Burs should be examined for straightness, freedom of movement and sharpness.
 - d. Always be sure that burs are completely seated and locked in the hand piece before each use.
 - e. **DO NOT** pressurize hoses until all fittings have been connected and checked.
 - f. **DO NOT** move foot control by hoses.
 - g. Always inspect hoses for signs of wear or damage prior to use.
 - h. Never operate above 100 PSI. Excessive pressure may result in internal damage or inefficient operation.
 - i. Never immerse any major instrument
 - j. **DO NOT** immerse Osteon burs