

Section: Division of Nursing
Approval: _____

PROCEDURE

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HACKETTSTOWN REGIONAL MEDICAL CENTER

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OR
(Scope)

TITLE: USE OF DYONICS DRILL

PURPOSE: To outline procedure for proper use of Dyonics Drill.
REFERENCE: Smith & Nephew Operations/Service Manual.
SUPPORTIVE DATA: Dyonics Drill is used in the OR for surgical procedures requiring an opening in the bone for screws, wires and/or pins.
EQUIPMENT:
1. Drill >
2. Drill bit > Found in CSR, orthopedics section.
3. Battery >
4. Chuck Key

CONTENT:

<u>PROCEDURE STEPS:</u>	<u>KEY POINTS:</u>
1. Install the power pack by aligning the mounting lugs on top of the power pack with the slots in the bottom of the power head.	Hold the power head in a horizontal position by placing the top of the head in the palm of one hand while holding the power pack in the opposite hand.
2. Push the power head and power pack together to close the gap between them.	
3. Slide the power pack forward and away from you until the two pieces are completely aligned.	The latch will automatically snap into a locked position when the power pack is properly seated.
4. Drill Bit Installation:	
a. Grasp the chuck between the thumb and index finger. Operate the drill in a reverse direction until the chuck begins to rotate between your fingers.	The chuck is now fully opened. NOTE: This is a <u>keyless</u> chuck which requires no special tools or keys to lock the drill bit, wire, or pin in place.
b. Continue to hold the unit in a horizontal position and insert the drill bit in the chuck to the depth required.	To be determined by the surgeon and the length of wire, pin, or screw.
c. Grasp the chuck and operate the drill in a forward direction.	
5. Forward and Reverse Operation:	
When the chuck begins to slip between the finger the drill bit is locked in place and the drill is ready to use. *If the drill becomes jammed during use	

release the trigger immediately. Clear the obstruction before proceeding.

The Dyonics Drill has two triggers. The smaller trigger is for the reverse. The larger trigger is for forward.

By depressing the appropriate trigger, the drill will operate in the direction desired.

6. K Wire and Steinman Pin Insertion:

Both are inserted in the same fashion as the drill bits.

Do not insert the pin or the wire so far as to make the chuck inaccessible for easy release.

7. Cleaning Instructions:

- a. Remove the wires, pins, drill bits, battery pack.
- b. Send it to CSR as per hospital policy.

Discard disposable items, i.e., wires, pins, in the proper receptacle.