

# Dental Procedure Setup Proven Process

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*Our Promise: A thorough and kind experience for pets and owners alike*

**Evening before Prep:** If a patient had prior recommendations for teeth that need extracted or had a dental prophylaxis and this is their second oral surgery procedure- prepare the large dental chart with the appropriate teeth highlighted for TS that need extracted. This is in the Google Drive. Also print out the 1st procedure discharge instructions for the list of teeth discussed to be dealt with in surgery.

## **What is on the dental cart?**

Ultima Dental Scaler Machine

Laptop for Dental Radiographs

## **Items needed on Dental Cart (per procedure):**

- 2 non-sterile small gloves (purple)
- Box of masks with shield attached on dental cart- person will get out their own mask
- 2 pairs of goggles
- Bottle of saline with for oral surgery (draw up with 12ml if there are planned extractions)
- 12ml syringe with teat cannula
- Dental pack
- 15 blade
- 4-0 antibacterial suture
- Stack of non-sterile gauze
- Appropriate sized burr, scaler tip, polisher on machine, and a cutting burr on top of dental Ultima machine
- Prophy paste
- 1 dental chart sticker for client with appropriate species
- 1 large dental chart for medical record with appropriate species

## **Items needed for the Dental Radiographs**

- Slip cover for the plate, plate wrapped in 2 inch Vet Wrap
- Laptop on, Progeny software open and patient information entered

## **Other items needed:**

### **Induction Basket**

- 3 sizes of E-T tubes (cuff checked)
- Tie in
- Cuff syringe
- ET tube lubricant
- Laryngoscope with appropriate sized blade

### **Anesthesia Cart (fully stocked with appropriate sized tubes)**

### **Surgery Tray for Dr. Sands**

## **Items needed on Dental Table:**

- 2 towels on table for pet to lie on and 1 on counter to put over Bair Hugger blanket

- Puppy Pad
- Hand towel for under patient head
- Baby socks
- Bair hugger red blanket
- Stethoscope
- Esophageal stethoscope

### **Dental Machine Setup Process**

1. Confirm that both water bottles are full (distilled water); to refill, make sure compressor is not plugged into the machine and untwist the top of each bottle, fill ONLY with distilled water; bottles are wrapped in bubble wrap
2. Attach Round burr, scaler tip (use the scaler tip screwdriver to tighten, in blue metal box) and disposable polisher head to the machine
3. Put the foot pedal on the floor
4. Confirm the dental cart is plugged into the outlet on the dental table (scaler runs on electricity, other instruments run on compressed air)
5. Plug in the air compressor to the dental machine ("Filtered Air In" outlet on machine)
6. Turn on compressor by flipping the red handle on the left side of the compressor down, make sure it is plugged into the outlet in the cabinet
7. Monitor the small gauge until pressure reaches 65-70 lbs. Large gauge will top out at the beginning of the red line.
8. Turn on the dental machine with the power switch on the side
9. Test each handpiece by removing from the holsters one at a time and holding the pedal down for 15 seconds (ensure water is flowing through all of the tips). Look at the pressure gauge on the dental machine and the labels above each handpiece for correct pressure ranges.

**\*Pressure of the air compressor is regulated by the black round knob on the top of the small gauge-turn right to increase and left to decrease**

### **Dental Machine Breakdown Process**

1. Turn off the dental machine with the power switch on the side
2. Turn off the air compressor by flipping the red switch on the left side of the machine
3. Drain the air compressor at the end of each dental day (see Proven Process below)
4. Remove the scaler tip with the scaler tip screwdriver in the blue metal box
5. Remove the disposable polisher tip by twisting the top of the handpiece, just below the polisher tip and remove. Throw away
6. Remove the burr by pushing the button on the back of the drill handpiece and pulling the burr off. Throw away if it was used. Re-sterilize if it was not used.
7. Wipe down the machine with 70% Isopropyl alcohol on gauze squares. Don't forget the cords!
8. Oil machinery with oil found in dental cabinet after every day of use
9. *NEVER UNPLUG THE DENTAL AIR COMPRESSOR FROM THE DENTAL MACHINE BEFORE TURNING OFF THE AIR COMPRESSOR AND DRAINING IT! IT WILL BE SCARY AND LOUD!*

### **Dental Radiography Machine Setup Process**

1. Plug the laptop cart into the side of the dental table. Confirm all plug connections on the dental cart
2. Connect the USB attachment (tan cord) to the laptop from the xray machine
3. Turn the xray machine on by flipping the switch on the top of the machine
4. Set the machine for the appropriate sized patient (cat or dog)
5. Prep the plate with a slip cover and vet wrap
6. Bring the hand piece with the trigger button to take the radiographs to the other side of the dental table

7. Turn on the laptop and open the Progeny Xray program
8. Enter the first patient's information into the system (you can check if they are an existing patient in the system by going to the Patient tab → "Open" or set up as a new patient with the "New" button). Set up all patients in the program that are there for dental procedures that day in the morning. Confirm they are selected as the correct species

### **Saving Dental Radiographs**

1. Always ask doctor if she/he is finished with labeling dental radiographs before saving radiographs and closing out of the system
2. Save all dental radiographs with notes to the desktop and then into the patient record in Evet
3. Be sure to delete all radiographs from the desktop and recycle bin prior to turning off laptop
4. Shut down the laptop properly and allow it to update if needed - *Never close the laptop without shutting down!*

### **Dental Radiography Machine Breakdown Process**

1. Unplug the dental cart from the dental table
2. Unwrap dirty slipcover and vet wrap from radiography plate and place back into designated holder on machine
3. Wipe down the xray machine with 70% Isopropyl alcohol on gauze squares
4. Move xray apparatus back to its resting position
5. Turn dental x-ray machine off with switch on top of machine
6. Hang the handpiece with the trigger button back on its holder next to the xray machine
7. Unplug USB cord from xray machine and neatly wrap up cord and hang back up on side of dental table

### **Draining Dental Air Compressor**

1. Make sure the switch is in the off position. Unplug the air compressor from the outlet in the wall in the cabinet
2. Fold 3 or 4 paper towels into a pad about 6" x 6" in size.
3. Slowly unscrew the outer brass fitting at the front of the compressor (on the bottom) with the black hand screw tool, about ½ to ¾ turn. It will make a loud noise. Watch gauges until pressure drops to about 25 lbs. Slowly loosen the screw until the compressor is fully open.
4. Tip the entire compressor forward with the opening above the paper towel until brass fitting is pointed straight down. The dirty water will drain out onto the paper towel.
5. Put the compressor back in the upright position and tighten brass fitting with the black hand screw tool

## **Troubleshooting the Dental Machines**

Dental Machine Problem: Handpieces not working

1. Turn the air compressor off and drain it
2. Turn the air compressor back on and let it finish pressurizing before trying handpieces again
3. If the water pressure is the problem, then tighten or loosen the tiny bolts on the back of the dental machine with the small flathead screwdriver in the blue metal box
4. If not scaling properly, try to readjust and tighten scaler tip

5. If that does not work, confirm the power cords are fully plugged into the dental table and the dental cart (the scaler tip runs on electricity)
6. If you hear a loud air noise and handpieces aren't working properly remove back and top of the dental machine with a phillip head screwdriver and feel for air leakage (there will be small amount of air leakage because that is how the scaler works). If there is air leakage, contact the dental machine company

Dental Machine Problem: Scaler has water coming out but is not ultrasonic scaling

1. The ultrasonic scaler runs on electricity NOT the compressor
2. Make sure dental cart is plugged into an outlet and that all connections are tight
3. If this does not work, make sure the scaler tip is not on too tight, and try changing the scaler tip

**For dental machine troubleshooting call: 1-954-772-9779**

Dental X-ray Problem: Not taking radiographs

1. Turn off the xray machine and unplug all USB connections
2. Restart the laptop and reopen the Progeny program
3. Confirm that the correct plate is selected
  - a. At the top of the Progeny program screen, there is a drop down menu. If you see a red circle and the word "None", no plate is selected. Drop down and select "VetPro Sensor" and the circle should turn green
4. To confirm it will work, select a tooth on the Progeny program and click the yellow/black "beach ball" button. It should let you click it and say "Ready" at the bottom of the screen
5. Still not working, go through this process again but remove the front of the xray machine and unplug the connection to the arm there (a small plug connection). Wait 1 minute, plug all back in and try again.

**For dental xray troubleshooting call: 1-800-643-6275**