TomoTherapy Warm-up

**Purpose:** This document lists the warmup procedures that must be performed on Tomo every day.

# Warm-up Temperature

Allow Tomo to come up to the operating temperature. When the **Supply** water temperature shown on the Operator’s Station reaches 38°, or the readout inside the back of the gantry reaches 39°, the machine is ready to produce beam.

# Procedures

Run the following procedures in the order listed. For example, every Monday morning, run #1 Warm-up Physics Level, then #2 Warm-up Treat Level, then AIRSCANS, then zzz\_TQA\_Step Wedge Helical.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Procedure** | | | **When to Perform** | | | | | |
| **Procedure Name** | **Tab(s)** | **Notes** | **Mornings** | | | | | **Other** |
| **Mon.** | **Tues.** | **Wed.** | **Thurs.** | **Fri.** |
| #1 Warm-up Physics Level | 1. Calibrate  2. Run |  | **✓** | **✓** | **✓** | **✓** | **✓** |  |
| #2 Warm-up Treat Level | 1. Calibrate  2. Run |  | **✓** | **✓** | **✓** | **✓** | **✓** |  |
| AIRSCANS | 1. Scan | Run a “normal” CT scan- resolution air scan | **✓** | **✓** | **✓** | **✓** | **✓** | Imaging artifacts appear later in the day |
| zzz\_TQA\_Step Wedge Helical | 1. Calibrate | See procedure “Add a Daily TQA Note with Your Initials.” | **✓** | **✓** | **✓** | **✓** |  |  |
| zzzzz\_TQA\_BasicDosimetry | 1. Calibrate |  |  |  |  | **✓** |  |  |
| \_CT Number Calibration | 1. Scan | Scan cheese phantom |  |  |  | **✓** |  |  |
| #3 TomoDose 25 sec | 1. Calibrate | The saved CAX measurement should be 345–359 (352 ± 2%). Contact Physics otherwise. |  |  |  | **✓** |  |  |
| #A 5 min Physics Warm-up | 1. Calibrate |  |  |  |  |  |  | After lunch or other 45” w/o a tx |