HDR Treatment Process Flow Sheet

Scheduling:
- Oncologist to inform coordinator when patient needs HDR
- Coordinate with Urologist office to schedule OR time
  * Assure earliest OR time is reserved
- Order CT for treatment planning approximately 2 hours post OR time
- Verify patient has HDR signed consent
- Verify HDR prescription is complete by Oncologist
- Schedule HDR BID treatments in Aria

*Note:* HDR treatment schedule coordinated with Oncologist, Physics, Dosimetry, and Nursing schedules and added to Dosimetry Task Pad
- Patient informed of appointment from HPRHS Radiation Oncology Office or Urologist’s Office (*Note:* Urologist’s office will schedule and inform patient of pre-assessment appointment)

Post procedure follow-up:
- Appointment for follow up scheduled with Front Desk per Radiation Oncologist and card given to patient at the time of last HDR treatment

Supplies:

**Items Oncologist needs for OR Placement of Prostate Needles—**
- Sterilized needles and one LDR needle
- Sterilized prostate template and rubber bands
- Template protective cover
- Patient’s chart with 2 copies of HDR Prostate Needle Placement Form

**Items Dosimetrist needs for CT—**
- HDR Prostate Needle Placement Form
- Black sharpie
- Hemostats
- Flashlight
- Patient’s chart
- Click Fit Transfer Guide Tubes
- Measurement ruler with measurement wire

**CT Procedure:**
- Dosimetrist to CT
- Patient positioned supine on CT couch with pillow for head, arms up on chest
- Oncologist and physicist called to CT
- Obturators removed from prostate stainless steel needles
- Contrast-saline mixture injected into bladder through foley catheter
- CT according to protocol (DO NOT send to Eclipse until final approval from Oncologist)
- Oncologist/Physicist to verify needle positioning and make changes as needed
-Dosimetrist to denote needle location, length from template, on HDR Prostate Needle Placement Form

-Needles marked where meet prostate template

-Applicator length measured by _____________ cm needles placed in OR (standard re-usable needles – 20cm)

__________cm measured with Click Fit Guide Tube

-Obturators replaced in needles

After CT-

- Patient returned to HDR suite during treatment planning process
- Inform Radiation Oncology RN of patient’s status and verify intercom communication between HDR suite and Nursing desk works properly
- All information given to Physics to begin treatment planning
- Digital image taken and placed in patient’s chart of needle placement and patient’s treatment position

Simulation Procedure:
*N/A for BID treatments

HDR Prostate Treatment:
- Verify patient is positioned within close proximity to the HDR unit with the stretcher locked and secure
- Cameras adjusted from treatment console to verify optimal patient viewing and HDR unit viewing
- Treatment room intercom unit tested
- Obturators removed from all prostate needles
- Click Fit Transfer Guide Tubes placed on each needle according to number with order dictated on HDR Prostate Needle Placement Form
- Measurement taken to verify catheter length

For stainless steel needle and Click Fit Transfer Guide Tube: _____________
(Standard measurement = 121.4cm for 20cm needles with Click Fit Transfer Guide Tube)

(**Subtract 1.4cm to verify Applicator Length on Treatment Plan)

Measurement verified by _____________

- Connect catheters to HDR turret according to correct number
- Depress yellow button on HDR unit to seed connectors
- When properly seeded, light indicator will be green above port holes in use, all other port holes will be red
- Verify connector tubing is free of kinks and excessive bends for all catheters
- Secondary authorized personnel to verify catheter-numbering matches dictated numbering on HDR Prostate Needle Placement Form
- Towel placed between patient and connectors for radiation protection
- Key on back of HDR unit turned to UNLOCK position
- Call Oncologist to verify
Post treatment:
- When treatment is complete and safe to enter treatment room, depress yellow button on front of HDR unit to unseat connector, remove Guide Tubes from HDR unit (and if 2nd tx to follow, secure connectors near patient)

Equipment Cleaning/Sterilization:
- Guide Tubes and measurement wire wiped with sterile water dampened gauze (kept in cabinet), and dried
- Instructions for Stainless Steel Needle Sterilization followed
- Prostate template and cover given to Nursing