

# Prostate Treatment

PRESENTED BY MELISSA RIDDLE, ODS-C

ICR VIDEO TRAINING SERIES |

IOWA CANCER REGISTRY

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## Active Surveillance

Small tumors ~ slow growth

Found on PSA screening

Incidental finding in BPH treatment

NCCN advises in younger male with slow-growing disease and likely to live more than 10 years.

Noteworthy: Observation is recommended if expected to live less than 10 years.

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# Active Surveillance

## Date Therapy Initiated

- Date decision was made for active surveillance
- Even if patient later changes their mind and opts for treatment
  - Treatment determined later is subsequent

## Treatment Status = 2

- When documentation states patient is being monitored using active surveillance/watchful waiting/deferred therapy or other options

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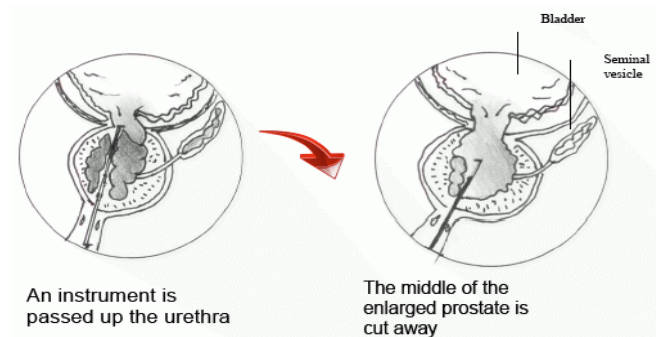
# Prostate Surgery Codes - TURP

Procedure	Notes	Code
Transurethral resection (TURP) NOS	Unknown if specimen was sent to pathology	<b>A190</b>
TURP NOS	Specimen sent to pathology; Path report	<b>A210</b>
TURP – Cancer incidental finding	TURP for benign disease; Aqua ablation water jet, described on pathology as a TURP and adenoca was incidental	<b>A220</b>
TURP – Cancer is suspected or known		<b>A230</b>

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# Transurethral Resection (TURP)



<https://qprostate.com.au/wp-content/uploads/2016/06/turp-diagramresized-513x300.gif>

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## Prostate Surgery Codes

Procedures	Notes	Code
Local tumor excision NOS <ul style="list-style-type: none"> <li>• With Cryosurgery</li> <li>• With Laser</li> <li>• With Hyperthermia</li> </ul>	Specimen sent to pathology <b>Holmium laser enucleation</b> of prostate (with path specimen) <b>code A250</b>	<b>A200</b> <ul style="list-style-type: none"> <li>• <b>A240</b></li> <li>• <b>A250</b></li> <li>• <b>A260</b></li> </ul>
Subtotal, Segmental, or Simple prostatectomy (not included in path staging)	Part or all of prostate capsule intact; May include suprapubic prostatectomy	<b>A300</b>
Radical prostatectomy; Total prostatectomy	Excision of prostate, capsule, ejaculatory ducts, seminal vesicle, and may incl bladder neck	<b>A500</b>
Prostatectomy WITH resection with other organs; Pelvic exenteration	ANY type of prostatectomy with resection "en bloc" "in continuity with" other organs; Cystoprostatectomy	<b>A700</b>

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## Surgical Treatment

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### Radical prostatectomy

- Open
- Radical retropubic
- Radical perineal
- Laparoscopic radical
- Robotic-assisted

Great video on Robot Rad Prostatectomy:

<https://www.youtube.com/watch?v=HK-bW-IQEIU>

### Pelvic lymph node dissection (PLND)

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## Cryosurgery

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Option if radiation therapy fails

Freezes prostate tumors

Outpatient

- Tiny needles inserted into prostate through perineum
- Argon gas flows through needles and freezes prostate, killing cancer cells

### **Surgery Codes:**

- **A140** – Cryoprostatectomy (no pathologic specimen)
- **A240** – Cryosurgery with local tumor excision or TURP (path specimen)

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# Radiation

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## Radiation Therapy

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**EBRT** most often

- ADT (androgen deprivation therapy) given with EBRT

**3D-CRT** (three-dimensional conformal radiation therapy)

- IMRT precise type of 3D-CRT

**Brachytherapy**

- LDR Brachytherapy - seeds
- HDR Brachytherapy – tubes into prostate gland and high dose delivered through needles into prostate

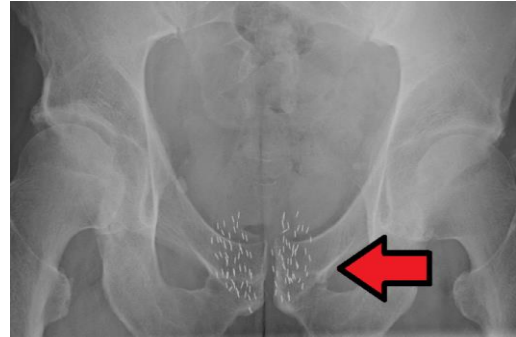
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# LDR Brachytherapy



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Code	Description
00	No radiation treatment
01	External beam, NOS
02	External beam, photons
03	External beam, protons
04	External beam, electrons
05	External beam, neutrons
06	External beam, carbon ions
07	Brachytherapy, NOS
08	Brachytherapy, intracavitary, LDR
09	Brachytherapy, intracavitary, HDR
10	Brachytherapy, interstitial, LDR
11	Brachytherapy, interstitial, HDR
12	Brachytherapy, electronic
13	Radioisotopes, NOS
14	Radioisotopes, radium-222
15	Radioisotopes, strontium-89
16	Radioisotopes, strontium-90
98	Radiation therapy administered, but treatment modality is not specified or unknown
99	Unknown if radiation treatment administered

EBRT

Insert into  
body cavity

Insert into  
tissue

## Radiation Treatment Modality Phase I, II, III

- Identify radiation modality administered during first, second and third phase of radiation
- First course treatment only

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## Radiopharmaceuticals

Drug	Notes	Treatment Modality Code
<b>Radium-223</b> (Alpharadin)	Treats hormone resistant prostate cancer w/ bone mets causing symptoms	<b>13</b>
<b>Lutetium-177</b> (Lutrin) (Lu177)	Attaches to prostate cells anywhere in body if cells have PSMA on cell surface	<b>13</b>
<b>89Sr</b> (Strontium) (Strontium-89)	Relieve pain caused by bone mets	<b>15</b>
<b>153Sm</b> (Samarium SM 153)	Relieve pain caused by bone mets	<b>13</b>

<https://seer.cancer.gov/seertools/seerrx/>

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## Systemic Therapy

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# Hormone Therapy

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- **Androgen Deprivation Therapy (ADT)**
  - Reduce androgens in the body or stop prostate cancer cell growth
- Stop testicles from making androgens (medical castration):
  - **LHRH** (Lutenizing hormone-releasing hormone) **agonists**
    - Lupron, Eligard, Zoladex, Trelstar
  - **LHRH antagonists** - Lower testosterone more quickly
    - Firmagon, Orgovyx
- Lower androgens from adrenal glands and/or prostate cancer:
  - Zytiga, Nizoral
- **Androgen Receptor Antagonists** (Anti-androgens)
  - Attach to protein in prostate cancer cell to stop tumor growth
  - Eulexin, Casodex, Nilandron

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# Hematologic Transplant/Endocrine Procedures

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- Endocrine surgery and/or endocrine radiation therapy – **Code 30**
  - Endocrine organs are testes and ovaries
  - Endocrine surgery and/or radiation procedures **must be bilateral** or must remove remaining paired organ for hormonal effect
    - **Bilateral orchiectomy** (surgical castration)
      - Removal of testicles to stop prostate cancer from growing
      - Hormonal effect – slowing/stopping testosterone

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# Chemotherapy

- Usually for advanced stage group (Stage 4B)
  - Along with hormone therapy
    - Docetaxel – most often the first chemo drug administered
      - Typically combined with a steroid drug such as prednisone/dexamethasone
    - Cabazitaxel if docetaxel fails along with steroid
    - Mitoxantrone
    - Cisplatin
    - Carboplatin

If  
**prednisone/dexamethasone**  
administered with chemo  
code these as **HRT**

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# Immunotherapy

- **Cancer Vaccine:**
  - Sipuleucel-T (Provenge)
    - WBC from patient are mixed with protein from prostate cancer cells (PAP)
    - Administered back to patient intravenous – 3 doses
  - Usually for cancer no longer responding to HRT
- **Immune checkpoint inhibitors (PD-1 checkpoint)**
  - Advanced prostate cancer
    - Pembrolizumab (Keytruda)
      - approved with certain DNA changes, i.e. MSI-H or MMR
    - Dostarlimab (Jemperli)

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# Targeted Drug Therapy

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- **PARP inhibitors** (abnormal DNA repair gene – BRCA1 or BRCA2)
  - Rucaparib (Rubraca) – used after tumor grows with taxane chemo
    - Metastatic, hormone resistant prostate cancer
  - Olaparib (Lynparza) – with steroid drug
    - Metastatic, hormone resistant prostate cancer
  - Talazoparib (Talzenna)
  - Niraparib + abiraterone (Akeega)

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# Neoadjuvant Therapy

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- **What is the intent of the treatment?**
  - Neoadjuvant therapy is systemic and/or radiation given prior to surgery to shrink the tumor or improve outcomes
    - Reduce disease burden that might allow surgical resection
    - Eradicate or control undiscovered mets and improve overall outcomes
    - Provide prognostic information based on response
  - Limited systemic therapy is **not neoadjuvant therapy** (not a full course of treatment)
    - May be given prior to surgery as a bridge
    - May occur in clinical trials with no expectation to shrink disease
- **Hormones:** Lupron before surgery
- **Radiation therapy with Hormone before surgery**
- **NADT (Neoadjuvant androgen deprivation therapy)**
  - Given prior to RP

FORUM POST re Bridge Therapy: <https://cancerbulletin.facs.org/forums/forum/site-specific-data-items-grade-2018/116187-covid-and-bridge-response#post116199>

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## SEER\*Rx

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- Be sure to look up drugs in SEER\*Rx for accurate coding
  - Hormone
  - Chemo
  - Immunotherapy

<https://seer.cancer.gov/seertools/seerrx/>



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## Questions?

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### Contact Info

Melissa Riddle, ODS-C

Training & Education

Iowa Cancer Registry

[melissa-riddle@uiowa.edu](mailto:melissa-riddle@uiowa.edu)

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