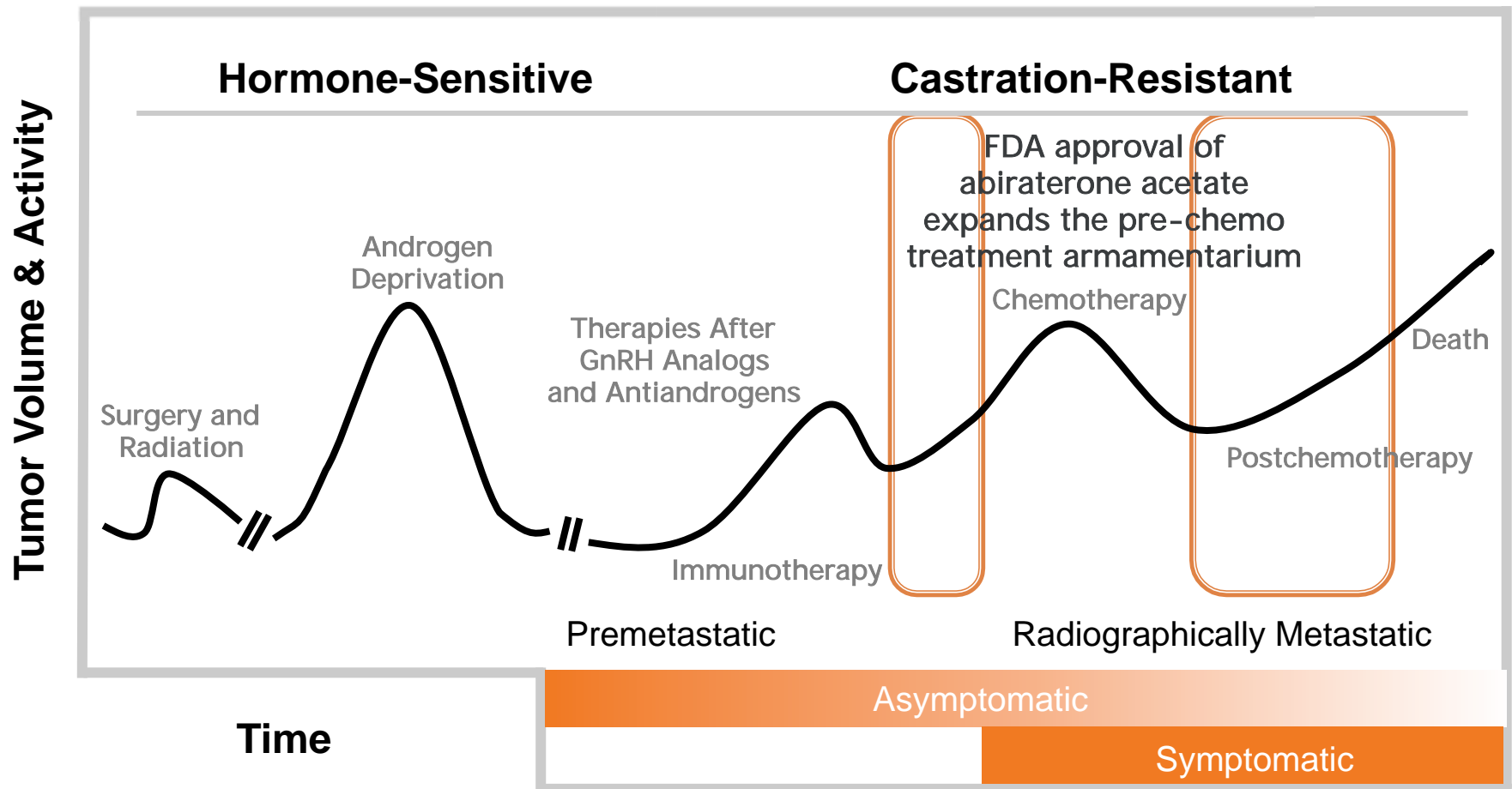


The Role of the Urologist in the Management of Advanced Prostate Cancer

Prostate Cancer Disease Progression Overview



NOTE: This diagram represents *typical* disease progression. Note that some patients are metastatic at diagnosis, and are thus still hormone-sensitive.

Medical Management of Advanced Prostate Cancer—2012 and Beyond

- ▶ Approved agents
 - Zoledronic acid (2002)
 - Docetaxel (2004)
 - Sipuleucel-T (2010)
 - Cabazitaxel (2011)
 - Denosumab (2011)
 - Abiraterone (2011/2012)
 - Enzalutamide (2012)
- ▶ Successful Phase III Trials
 - Radium-223 dichloride
- ▶ Ongoing Phase III Trials
 - Ipilimumab, Prostavac, orteronel, custiren, tasquinimod

Monitoring patients



Monitoring Requirement	LUPRON® <i>leuprolide acetate</i>	CASODEX® <i>bicalutamide</i>	ZYTIGA® <i>abiraterone acetate</i>	PROVENGE® <i>sipuleucel-T</i>	XTANDI® <i>enzalutamide</i>	ZOMETA® <i>zoledronic acid</i>	TAXOTERE® <i>docetaxel</i>	XGEVA® <i>denosumab</i>
Blood glucose	✓	✓						
Hepatotoxicity		✓	✓				✓	
Cardiovascular indications	✓			✓				
Mineralo-corticoid excess			✓					
Bone health	✓					✓		
Osteonecrosis of the Jaw/ Hypocalcemia						✓		✓
Renal toxicity						✓		
Seizure					✓			
Neutropenia							✓	
Cutaneous/ neurologic reactions							✓	
Acute myeloid leukemia							✓	

Treatment	Side Effects
LUPRON® <i>leuprolide acetate</i>	Hot flashes, injection site reaction, testicular shrinkage, difficulty urinating, fatigue
CASODEX® <i>bicalutamide</i>	Hot flashes, pain, asthenia, constipation, infection, nausea, edema, diarrhea
ZYTIGA® <i>abiraterone acetate</i>	Fatigue, joint swelling, edema, hot flush, diarrhea, vomiting, cough
PROVENGE® <i>sipuleucel-T</i>	Chills, fatigue, fever, back pain, nausea, joint ache, headache
XTANDI® <i>enzalutamide</i>	Fatigue, back pain, diarrhea, arthralgia, hot flush, edema, headache, upper respiratory infection
ZOMETA® <i>zoledronic acid</i>	Nausea, fatigue, anemia, bone pain, constipation, fever, vomiting
TAXOTERE® <i>docetaxel</i>	Infections, neutropenia, anemia, febrile neutropenia, hypersensitivity, thrombocytopenia, neuropathy
XGEVA® <i>denosumab</i>	Fatigue, asthenia, hypophosphatemia, and nausea

Urologist-centered, patient-focused

»» How do we get there?

Three models of care

- ▶ Academic institution
- ▶ Large urology practice
- ▶ Small private practice