



The 2019 CUA- CUOG Guidelines for the Management of Castration-Resistant Prostate Cancer (CRPC)

Fred Saad, Armen Aprikian, Antonio Finelli, Neil E. Fleshner, Martin Gleave, Anil Kapoor, Tamim Niazi, Scott North, Frederic Pouliot, Ricardo Rendon, Bobby Shayegan, Kala Sridhar, Alan So, Nawaid Usmani, Eric Vigneault, Kim N. Chi

Disclosures

- Details available on the CUA website cua.org or at cuaj.ca



Methods

- MEDLINE search of the English language and conference proceedings were used to produce the present document.
- Wherever Level 1 evidence is lacking, the guideline attempts to provide expert opinion to aid in the management of patients.
- Levels of evidence and grades of recommendation employing the International Consultation on Urologic Disease (ICUD)/WHO modified Oxford Centre for Evidence-Based Medicine grading system.
- Based on a modified GRADE methodology, the strength of each recommendation is represented by the words STRONG or WEAK.



Therapeutic options

- Given the rapid pace of clinical trials and publications it was felt to be beyond the scope of a guideline to include any agent was not health Canada approved
- As new agents are approved the guidelines will be updated rapidly



Definition

- **Castration-resistant prostate cancer (CRPC) is defined by disease progression despite castrate levels of testosterone and may present as either a continuous rise in serum prostate-specific antigen (PSA) levels, the progression of pre-existing disease, and/or the appearance of new metastases.**



74th Annual Meeting
June 29 – July 1

74^e Congrès annuel
29 juin – 1 juillet



Management of CRPC

Androgen deprivation therapy and first-generation androgen receptor antagonists

- **Because the androgen receptor remains active in most patients who have developed castration-resistant disease, it is recommended that ADT be continued for the remainder of a patient's life (*Level 3, Weak Recommendation*).**
- **In patients who develop CRPC, the addition or change of first-generation androgen receptor antagonists may be considered (*Level 3, Weak Recommendation*).**



Guideline statements regarding nmCRPC

- **ADT should be maintained in the nmCRPC state.**
- **First-generation androgen receptor antagonists (i.e., bicalutamide, flutamide, etc.) should be discontinued if patients are receiving these agents (*Level 3, Weak Recommendation*).**



Non-metastatic CRPC (nmCRPC)

- **For men with high-risk nmCRPC, defined as a PSA doubling time (PSADT) of less than 10 months, with an estimated life expectancy of greater than five years should be offered apalutamide or enzalutamide (*Level 1, Strong Recommendation*).**



Non-metastatic CRPC (nmCRPC)

- **In men with high-risk nmCRPC who are felt to be unsuitable or refuse approved therapies, observation or use of first-generation androgen receptor antagonists may be attempted (*Level 3, Weak Recommendation*).**
- **Patients who are untreated for nmCRPC should be followed with regular imaging every 6–12 months depending on PSADT (*Level 3, Weak Recommendation*).**



Detection of metastases and imaging in untreated patients

- For patients who progress on ADT without evidence of distant metastases, it is suggested to screen for metastases
- Imaging techniques most commonly used include nuclear bone scans and abdominal/pelvic CT and chest X-ray.
- The role of positron-emission tomography (PET) such as PSMA-PET are still unclear and the benefits unknown.



Frequency of imaging

- Patients with a rapid PSADT (<10 months) or elevated PSA levels (>20)
 - Imaging in these patients should be performed every 3–6 months.
- Patients with a slower PSADT (>10 months) should be screened every 6–12 months (*Expert opinion*).



Treatment of metastatic CRPC (mCRPC)

- **Since mCRPC is generally associated with a high risk of morbidity and cancer-related mortality, patients with mCRPC detected on conventional imaging should be considered for systemic therapy with demonstrated survival benefits.**
- **Patients with mCRPC should optimally receive multidisciplinary care to maximize survival and quality of life.**
- **Because any treatment for advanced disease remains non-curative, patients with advanced prostate cancer should be encouraged to participate in clinical trials.**



Chemo-Naïve or First Line therapy for mCRPC

- **Abiraterone acetate 1000 mg/day plus prednisone 5 mg twice daily is recommended for first-line therapy for asymptomatic or minimally symptomatic metastatic CRPC (*Level 1, Strong Recommendation*).**
- **Enzalutamide 160 mg per day is recommended as first-line therapy for asymptomatic or minimally symptomatic mCRPC (*Level 1, Strong Recommendation*).**



First line or Chemo-naive mCRPC:

- **Docetaxel 75 mg/m² every three weeks plus 5 mg oral prednisone twice daily can be offered (*Level 1, Strong Recommendation*).**
 - The timing of therapy in men without symptoms should be discussed with the patient and therapy should be individualized based on the patient's clinical status and preference.
- This is the first line therapy for recommended mCRPC if the patient progressed on an ARAT for nmCRPC or mHSPC



mCRPC with moderate or severe symptoms

- Docetaxel 75 mg/m² every three weeks plus 5 mg oral prednisone twice daily is recommended (*Level 1, Strong Recommendation*).
- *If unable to receive docetaxel: Radium-223 every four weeks for six cycles (Level 1, Strong Recommendation)*
- Abiraterone acetate 1000 mg/day plus prednisone 5 mg twice daily or enzalutamide 160mg/day may be considered as first-line therapy in patients who cannot receive or refuse docetaxel (*Expert opinion*).



Metastatic CRPC who progress after docetaxel-based chemotherapy

- **Cabazitaxel (25 mg/m²) plus prednisone (5 mg/day) (*Level 1, Strong Recommendation*)**
- **Radium-223 every four weeks for six cycles (*Level 1, Strong Recommendation*)**
- **If not received prior to docetaxel:**
- **Abiraterone acetate (1000 mg per day) plus prednisone (5 mg twice daily) (*Level 1, G Strong Recommendation*)**
- **Enzalutamide (160 mg/day) (*Level 1, Strong Recommendation*)**



Metastatic CRPC who progress after docetaxel-based chemotherapy

- ***Options with unknown survival benefit***
- Docetaxel plus prednisone re-exposure in patients who have had a previous favorable response to docetaxel may be reasonable (*Expert opinion*).
- Mitoxantrone plus prednisone may be offered for palliative pain relief (*Grade C*).

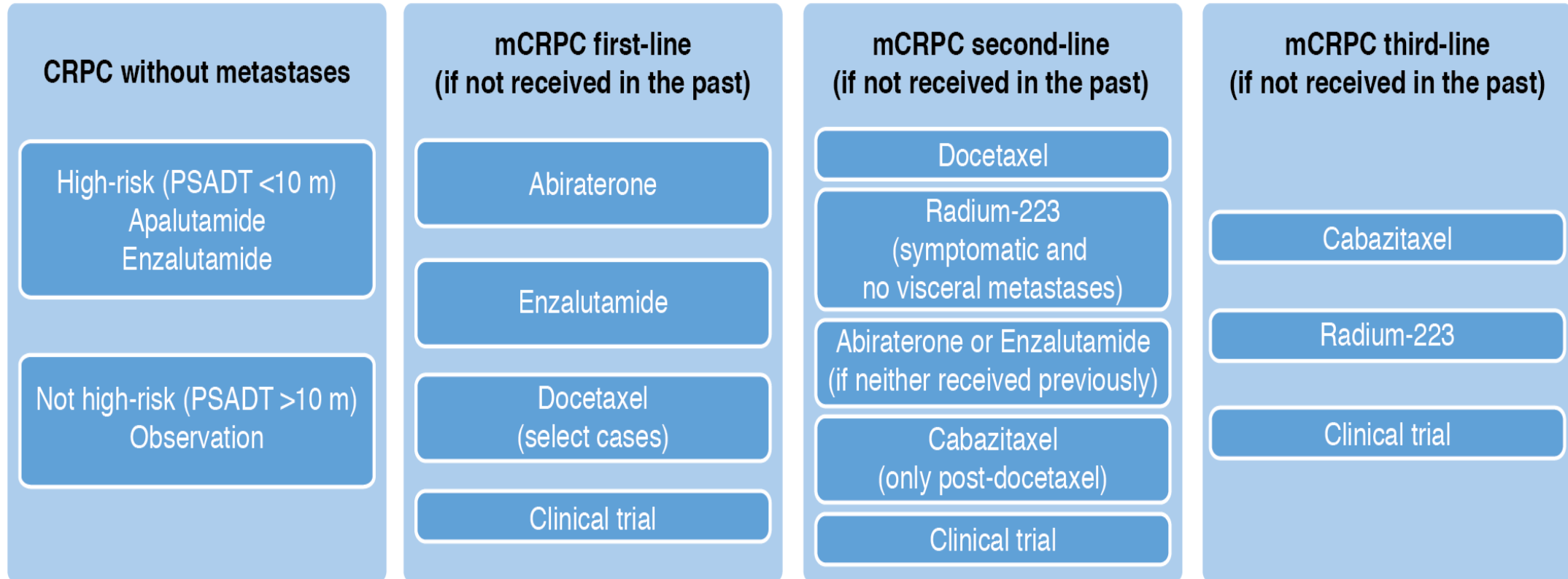


Patients with CRPC and bone metastases

- **Denosumab (120 mg subcutaneous) or zoledronic acid (4 mg intravenous) every four weeks, is recommended to prevent disease-related skeletal complications (*Level 1, Strong Recommendation*).**
- **The optimal duration of zoledronic acid and denosumab in men with CRPC and bone metastases is undefined.**
 - **The risk of ONJ appears to be related to time on bone-targeted therapy, therefore, caution should be taken in using these agents beyond two years.**
- **Denosumab and zoledronic acid are not approved and not indicated for SRE prevention in the treatment of metastatic castration-sensitive prostate cancer or for bone metastases prevention.**



Summary of guidelines



In the presence of bone metastases:
Denosumab or zoledronic acid are recommended to reduce the risk of skeletal complications
Palliative radiation therapy should be considered in patients with pain

Available on line
<https://www.cuaj.ca> Ressources Tab

Thank You

