

BC Cancer Protocol Summary for Treatment of Metastatic Castration Sensitive Prostate Cancer using Apalutamide

Protocol Code:

GUMCSPAPA

Tumour Group:

Genitourinary

Contact Physician:

Dr. Christian Kollmannsberger

ELIGIBILITY:

Patients must have:

- metastatic castration sensitive prostate cancer (mCSPC) who are either:
 - chemotherapy naïve or have received prior chemotherapy containing DOCEtaxel
- AND
- no prior androgen deprivation therapy (ADT) or have received ADT for not more than 6 months for metastatic castration sensitive prostate cancer (mCSPC) immediately prior to starting current protocol

Patients should have:

- ECOG performance status 0 to 2
- Serum potassium greater than 3.5 mmol/L

Notes:

- Patients with mCSPC are eligible to receive any of the following, but not their sequential use:
 - apalutamide (GUMCSPAPA),
 - enzalutamide (GUMCSPENZ),
 - abiraterone (GUMCSPABI), or
 - darolutamide with DOCEtaxel (UGUMCSPDD)
- Patients treated with apalutamide for mCSPC and develop castration resistant disease are:
 - NOT eligible to receive abiraterone (UGUPABI, [UGUPAVOABI](#), [UGUPAVNABI](#)) or enzalutamide (UGUPENZ)

TESTS:

- Baseline: CBC & Diff, creatinine, sodium, potassium, blood pressure, TSH, PSA, testosterone
- Baseline if clinically indicated: ECG
- Each time seen by physician: PSA, blood pressure
- If clinically indicated: TSH, creatinine, sodium, potassium, testosterone, ECG

TREATMENT:

Drug	Dose	BC Cancer Administration Guideline
apalutamide	240 mg	PO once daily

One cycle consists of 4 weeks (30 days) of apalutamide. Dispense a 90 day supply with each physician visit. Dispense each 30-day supply in original container. Treat until disease progression or unacceptable toxicity.

Dose reduction:

Dose level -1: apalutamide 180 mg PO daily

Dose level -2: apalutamide 120 mg PO daily

Androgen ablative therapy (e.g., LHRH agonist, LHRH antagonist) should be maintained. Discontinue other antiandrogen (e.g., bicalutamide), if used as part of combined androgen blockade.

DOSE MODIFICATION:

Rash management:

Grade	Management
1	Continue apalutamide at current dose. Initiate topical steroid cream AND oral antihistamine
2	May continue apalutamide, or hold at treating physician's discretion Initiate topical steroid cream AND oral antihistamine If symptoms improve to equal or less than grade 1, restart apalutamide at same dose (240 mg PO daily)
≥ 3	Hold apalutamide Initiate topical steroid cream AND oral antihistamine Consider short course oral steroid If symptoms improve to equal or less than grade 1, restart apalutamide at same dose (240 mg PO daily), or reduced dose by one dose level (180 mg PO daily) If toxicity recurs at Grade 3 or higher, reduce dose by one dose level (180 mg PO daily or 120 mg PO daily).

PRECAUTIONS:

- Rash:** Rash is reported in 25% of patients on apalutamide. It is commonly described as macular or maculopapular in presentation and has a median onset within 3 months. It typically resolves after 2 months. Corticosteroids and antihistamines have been used to treat the rash (see rash management table).
- Hypothyroidism:** Grade 1-2 hypothyroidism is reported in up to 22% of patients receiving apalutamide. Median onset is 4 months. Monitor TSH throughout treatment and initiate thyroid replacement as indicated.
- Falls and fractures:** Falls and fractures have been associated with apalutamide. Mechanism unknown. Fractures have been reported within one month and up to 32 months after treatment initiation.
- Drug interactions:** CYP2C8 inhibitors (e.g. gemfibrozil) and CYP 3A4 inhibitors (e.g. ketoconazole) may increase the serum level of apalutamide.

5. **Seizures:** Seizures have been reported in patients on apalutamide. Onset of 12-16 months after treatment initiation. Use cautiously in patients with a history of seizures or other predisposing factors. Permanently discontinue apalutamide in patients who develop a seizure during treatment.
6. **Hypertension:** Apalutamide may result in an increased blood pressure. This rarely leads to discontinuation or dose modification, but may require antihypertensive treatment. Monitor blood pressure frequently.

Call Dr. Christian Kollmannsberger or tumour group delegate at (604) 877-6000 or 1-800-663-3333 with any problems or questions regarding this treatment program.

References:

1. Chi, K, et al. Apalutamide for Metastatic, Castration-Sensitive Prostate Cancer. N Engl J Med. 2019 Jul 4;381(1):13-24
2. Janssen Inc. ERLEADA™ apalutamide product monograph. Toronto, Ontario; 11 Dec 2019