GURC Algorithm Disclaimer

The algorithms are intended to guide therapy by highlighting commonly selected treatment sequences. They are inspired by clinical evidence, but based primarily on clinical opinion stemming from discussion among multi-disciplinary experts. As they do not represent all available treatment options or reflect all available evidence, they should not be considered definitive or replace evidence-based clinical guidelines or consensus statements.

As individual patient needs are the primary consideration in therapeutic strategy, clinicians should consider suggested treatment options or clinical trial enrolment in light of disease characteristics and history, patient preference, available evidence and, ideally, in the context of a multi-disciplinary discussion.

ivianagement algorithm for prostate cancer patients with a biochemical recurrence post-radical local therapy

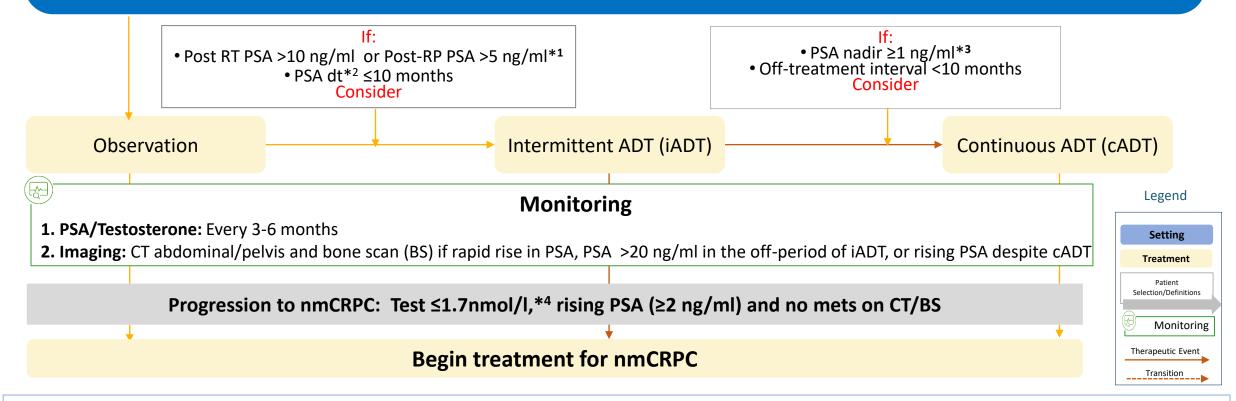
Patient with rising PSA and no metastases (post-radical local therapy)

Definition of biochemical recurrence:

- Post-Radiation therapy: PSA nadir +2 ng/ml
- Post-Radical prostatectomy: PSA >0.2 ng/ml

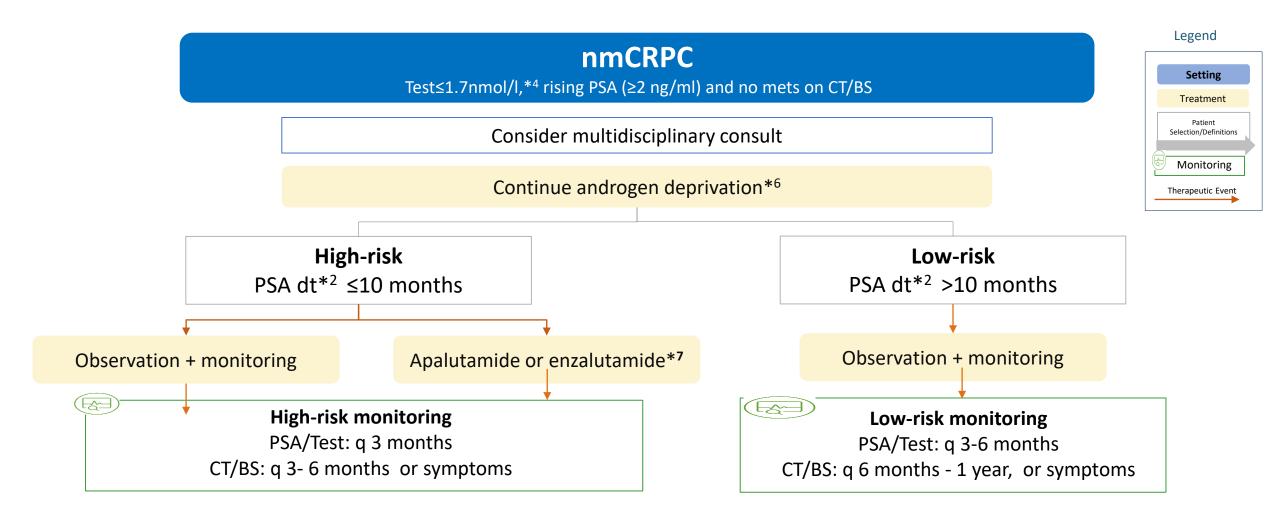
Consider early referral for local salvage therapy:

- Post-RT: if prostate biopsy shows local recurrence and PSA <5ng/ml, consider referral for local salvage options (ie: surgery, brachytherapy, cryotherapy).</p>
- Post-RP: the optimal time to refer for consideration for salvage RT is when PSA >0.1 ng/ml (and <2 ng/ml).



Points of Consideration:

- *1 Clinicians should consider a lower PSA threshold when there is no prostate in-situ
- *2 PSA doubling time can be easily calculated using an online calculator: MSKCC
- *3 Clinicians should consider switching from iADT to cADT if patients do not achieve a PSA nadir of at least 1 after 6 mos of iADT
- *4 Lower testosterone levels (Test ≤0.7 nmol/L) have been associated with improved outcomes; secondary hormonal manipulations (switch ADT or add anti-androgen) may be considered if Test >0.7 nmol/L [Klotz et al 2018]
- ** This algorithm does not address other aspects of care such as bone health and cardiovascular health.



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- *5 Participation in clinical trials at each treatment juncture is encouraged whenever possible
- *6 There is emergent evidence for the benefit of local therapy in select nmCRPC patients
- *7 Pending Health Canada approval; apalutamide and enzalutamide have recently shown a statistically significant improvement in the primary endpoint of metastasis-free survival in phase 3 trials; overall survival data not yet mature
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Abbreviations: AA: antiandrogen; (c/i)ADT: (continuous/intermittent) androgen deprivation therapy; BS: bone scan; CRPC: castration-resistant prostate cancer; CT, computed tomography; dt: doubling time; mets: metastases; nm: non-metastatic; PSA: prostate-specific antigen; pts: patients; RP: radical prostatectomy; RT: radiation therapy; test, testosterone