

PROSTATE CANCER

ONCOLOGY

Novel & emerging therapies in prostate cancer - current & future outlook

Hormonal therapy continues to be a mainstay in early disease, but nevertheless many pts progress to advanced stages with poor prognosis



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NHTs are now in BCR; PARPi & RLTs are approved newer class treatments in mCRPC while many others are in Ph 3; similar trends expected in mHSPC



KEY TAKEAWAYS

Early PC: Definite therapy (surgery & RT) +/- ADT used. NHTs have started receiving approval in nmHSPC with BCR. Ph 3 investigation ongoing in localized setting with NHTs

nmCRPC: Lower interest due to declining expected incidence. NHTs are preferred in high-risk patients

mHSPC: Increased diagnosis due to lower utilization of PSA screening & higher use of PSMA-PET. ADT Tx intensification with NHT (double) or with chemo+NHT (triplets) are the current SoC NHT + ADT + chemo triplet is a recommended SoC for high burden disease. Other key MoAs. RLTs (Pluvicto), AKTi, PARPi, CDK4/6i still in clinical stages

mCRPC: The space is crowded. The PSMA+ve space is occupied by Novartis Pluvicto. Many pts are already exposed to both NHT & chemo in pre-mCRPC lines. PARPi limited to small subset (HRRm) while AKTi is delayed. AR degraders/ inhibitors and ADCs are emerging therapies in this space, but possibility of approvals in 2027 & beyond

Hormone sensitive

Chemotherapy is mainstay for NEPC Hormone resistant PSMA+ve HRRm

AKTi

#Regimens Applicable for NHT-naive pts *Approvals in 2027 and beyond

Current *vs.* future: Use of novel imaging technique like PSMA PET increasing mHSPC & 1L mCRPC diagnoses; nmCRPC shrinking

Current

- Screening & Diagnosis
- **PSA & biopsies remain gold standard** for initial diagnosis; MRI widely used, but PSMA PET not widely available
- Decreasing diagnosis of PC due to fewer PSA screening tests (and consequently lower number of biopsies)
- Increase in biomarker testing for HRRm since the approval of Cdx for PARPi in 2020. Both tissue- and liquid-based testing available

Future

- Biopsies remain important; PSA scores remain important for diagnosis/prognosis, but not screening
- PSMA-PET scans to become gold standard for imaging but availability still an issue
- HRRm remains standard test during initial diagnosis workup to identify eligibility for targeted therapies

Disease characteristics

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Pricing &

Reimbursement

- Decrease in the number of PC patients diagnosed at localized stage due to fewer PSA screenings
- Increasing incidence of M1 mHSPC and declining BCR & M0 nmCRPC pts (due to increasing detection of metastasis by PSMA imaging)
- In mCRPC, numbers are relatively stable
- Increasing rate of NHT resistance, even in early mCRPC
- Abiraterone generics have only impacted ZYTIGA U.S. revenues
- Pricing for NHTs remains stable, despite expansion into earlier/larger populations
- No indication specific or value-based pricing yet
- Increasing divergence between approved and reimbursed indications

- Locally advanced to further shrink because of decrease in PSA-based screening assays
- Strong increase in M1 and 1L mCRPC (due to PSMA PET scans & later diagnosis)
- In mCRPC, almost all patients are NHT exposed and higher chemo-refractory patients (due to triplet usage in mHSPC)
- Growing NHT resistance population, even in mHSPC
- Generic competition causes decline in pricing conditions for all therapies
- PSMA RLTs being challenged by other PSMA modalities, but penetration limited to richer markets
- Value-based pricing common across all lines
- Strong competition within NHT & PARPi class
- Cost of diagnostic assays becomes important





VYUHGENICS INC. Regd. Office: HENDERSON, NEVADA, USA

+1 (929) 335 3748 | sales@Vyuhgenics.com

