The Bullseye THE VISION STUDY

ISSUE #1 JANUARY 2025

In this issue, four experts provide their perspectives on mCRPC and PLUVICTO in the VISION study.

THIS ISSUE'S EXPERTS



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The perspectives provided within this newsletter by Dr Shore, Dr Fleming, Dr Brown, and Dr Gejerman are their own and not reflective of their affiliations. The medical experts in this newsletter have been paid by Novartis to provide their perspectives. This newsletter is not intended to be and does not serve as medical advice, guidance, or recommendations from Novartis.

Indication

PLUVICTO® (lutetium Lu 177 vipivotide tetraxetan) is indicated for the treatment of adult patients with prostate-specific membrane antigen (PSMA)-positive metastatic castration-resistant prostate cancer (mCRPC) who have been treated with androgen receptor (AR) pathway inhibition and taxane-based chemotherapy.

IMPORTANT SAFETY INFORMATION

Risk From Radiation Exposure

PLUVICTO contributes to a patient's long-term cumulative radiation exposure, which is associated with an increased risk for cancer.

Minimize radiation exposure to patients, medical personnel, and household contacts during and after treatment with PLUVICTO consistent with institutional practices, patient treatment procedures, Nuclear Regulatory Commission patient-release guidance, and instructions to the patient for follow-up radiation protection.



Patients with mCRPC urgently need therapeutic options.

- More than half of patients die within 2 years of an mCRPC diagnosis¹
- With every line of therapy, fewer patients are treated. Of all treated first-line patients, only 55% are treated second-line and only 30% are treated in third-line¹
- Despite availability of ARPIs and chemotherapy, as patients progress through lines of therapy, unique treatment options become increasingly limited^{2,3}

mCRPC is a lethal disease. Patients and their caregivers are always wanting to know, do I have other tools in my armamentarium that I can avail myself of when I progress on an ARPI and when I progress on a taxane-based therapy?

Dr Shore



PLUVICTO was studied in the VISION trial, the largest phase 3 trial of a PSMA-targeted radioligand therapy.^{4,5}

The VISION trial was a randomized, multicenter, active-control study comparing PLUVICTO + BSOC vs BSOC alone in 831 men with PSMA+ mCRPC.

I refer to this as a **"plus one" trial**, where patients were going to get the **best standard of care**, plus a **novel therapy**. **Dr Fleming**

IMPORTANT SAFETY INFORMATION (continued)

Risk From Radiation Exposure (continued)

Ensure patients increase oral fluid intake and advise them to void as often as possible to reduce bladder radiation.

To minimize radiation exposure to others, advise patients to limit close contact (less than 3 feet) with household contacts for 2 days or with children and pregnant women for 7 days, to refrain from sexual activity for 7 days, and to sleep in a separate bedroom from household contacts for 3 days, from children for 7 days, or from pregnant women for 15 days.

Primary end points^{1,2} • OS • rPFS Secondary end points^{1,2} • ORR PSA decline Scan this QR code to be • Safety and tolerability directed to a video of • Health-related quality of life Pain Dr Shore providing an overview of the **VISION** trial When scanned QR code links to : https:// www.pluvicto-hcp.com/ https://www.pluvicto-hcp.com/me-perspectives-pluvicto-hcp#4541 medical-expertperspectives#4541

VISION enrolled men with PSMA+ mCRPC who had progressed on an ARPI and taxane therapy.^{4,5}

Baseline patient characteristics were well balanced across the treatment and control arms.

Across both treatment and control arms, 58% of patients received only 1 prior taxane.

When I sit down with a patient now and say, "Look, here's your PSMA scan, it's lighting up. And while that's very disconcerting, that shows us that we can have a **therapeutic option that** we did not have before."

IMPORTANT SAFETY INFORMATION (continued)

Myelosuppression

PLUVICTO can cause severe and life-threatening myelosuppression. In the VISION study, grade 3 or 4 decreased hemoglobin (15%), decreased platelets (9%), decreased leukocytes (7%), and decreased neutrophils (4.5%) occurred in patients treated with PLUVICTO. Grade ≥3 pancytopenia occurred in 1.1% of patients (including 2 fatal events). Two deaths (0.4%) due to intracranial hemorrhage and subdural hematoma in association with thrombocytopenia were observed. One death due to sepsis and concurrent neutropenia was observed.

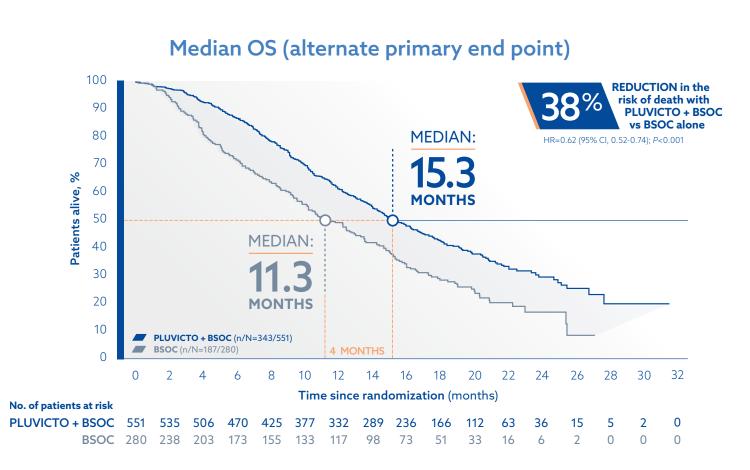
PLUVICTO is the first and only PSMA-targeted radioligand therapy to significantly improve overall survival (OS) in a phase 3 mCRPC trial.^{4,5}

Many of these **patients are asking** for another form of therapy that's different, and then I can have the **conversation with them about PLUVICTO**. It's an RLT, it has a novel mechanism of action and has a **life-prolonging benefit**. **Dr Shore**

IMPORTANT SAFETY INFORMATION (continued)

Myelosuppression (continued)

Perform complete blood counts before and during treatment with PLUVICTO. Withhold, reduce dose, or permanently discontinue PLUVICTO and clinically treat patients based on severity of myelosuppression.



A post hoc exploratory subgroup analysis of OS by number of prior taxanes was conducted in VISION.⁶

	PLUVICTO + BSOC median OS (months)	BSOC alone median OS (months)
1 prior taxane	16.2 (n/N=206/342)	11.8 (n/N=108/165)
2 prior taxanesª	13.6 (n/N=113/170)	10.6 (n/N=70/99)

Patients treated with PLUVICTO who had 1 prior taxane showed a greater median OS than those who had 2 prior taxane therapies.

Limitations: No formal statistical testing was planned for this exploratory subgroup analysis; therefore, there was no prespecified statistical procedure controlling for type 1 error. These results should be interpreted with caution.

^aOf the 831 patients, 8 had received more than 2 taxanes previously.⁷

The data from the VISION trial are **compelling**. We have improvements in overall survival, we have improvements in radiographic progression-free survival, and some improvements in important secondary end points. Furthermore, we know that treatment options in the "third-line" space can be sometimes limited, and these patients can oftentimes progress rapidly. I think it's important that we try to **identify these patients robustly, start them on therapy quickly,** and **try to support them through their course** and get the intended benefits seen in the VISION trial.

Dr Brown

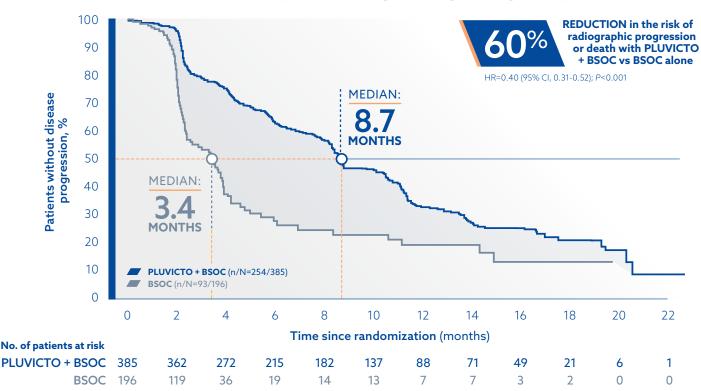
IMPORTANT SAFETY INFORMATION (continued)

Renal Toxicity

PLUVICTO can cause severe renal toxicity. In the VISION study, grade 3 or 4 acute kidney injury (3%) and increased creatinine (0.9%) occurred in patients treated with PLUVICTO.

Advise patients to remain well hydrated and to urinate frequently before and after administration of PLUVICTO. Perform kidney function laboratory tests, including serum creatinine and calculated creatinine clearance (CrCl), before and during treatment. Withhold, reduce dose, or permanently discontinue PLUVICTO based on severity of renal toxicity.

rPFS was significantly longer with PLUVICTO + BSOC vs BSOC alone.^{5,6}



Median rPFS (alternate primary end point)

Interpretation of the magnitude of the rPFS effect was limited due to a high degree of censoring from early dropout in the control arm.

Significantly more patients achieved a response with PLUVICTO + BSOC vs patients treated with BSOC alone.^{4,8}

- PLUVICTO + BSOC achieved a 30% ORR (n=95; 95% CI, 25-35)^{*,†}
- BSOC alone achieved a 2% ORR (n=2; 95% CI, 0-6)^{*,†}

*ORR is reported as a measure of response in soft tissue, lymph node, or visceral lesions. *Stratified Wald's Chi-Square test 2-sided *P* value.

IMPORTANT SAFETY INFORMATION (continued)

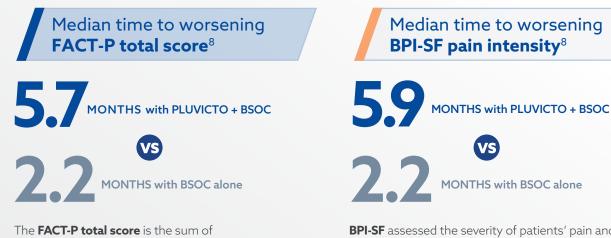
Embryo-Fetal Toxicity

The safety and efficacy of PLUVICTO have not been established in females. Based on its mechanism of action, PLUVICTO can cause fetal harm. No animal studies using lutetium Lu 177 vipivotide tetraxetan have been conducted to evaluate its effect on female reproduction and embryo-fetal development; however, all radiopharmaceuticals, including PLUVICTO, have the potential to cause fetal harm. Advise male patients with female partners of reproductive potential to use effective contraception during treatment with PLUVICTO and for 14 weeks after the last dose.

Patient-reported outcomes for PLUVICTO were assessed by FACT-P and BPI-SF.⁸

We've all experienced patients where we really pull out of the fire: patients that were not doing well, just felt very fatigued or in pain.





the scores of 39 items of the questionnaire and ranges from 1 to 156, with higher scores indicating better quality of life. FACT-P measures physical wellbeing, social/family well-being, emotional well-being, functional well-being, and prostate cancer subscale^{5,9} **BPI-SF** assessed the severity of patients' pain and its impact on daily function through a 9-question form, with scores ranging from 0 to 10 and lower scores representing lower levels of pain intensity. BPI-SF measures pain intensity (worst, least, average, current), pain relief, and interference of pain (on 7 HRQOL dimensions of general activity, mood, walking ability, normal work, relations with others, sleep, and enjoyment of life)^{5,9}

Dr Gejerman

- Both time to worsening FACT-P total score and time to worsening BPI-SF pain intensity were preplanned secondary end points. Data are from patients who were randomized after enhanced study site education measures who had a baseline assessment and at least 1 postbaseline assessment^{5,8}
- For analysis of each outcome, only patients with a baseline assessment and ≥1
 postbaseline time point were included. Main models were adjusted for randomization
 stratification factors⁹
- Type 1 error was not controlled in the quality-of-life analyses. There was no hypothesis testing for patient-reported outcomes and no α control was applied⁹

IMPORTANT SAFETY INFORMATION (continued)

Infertility

The recommended cumulative dose of 44.4 GBq of PLUVICTO results in a radiation-absorbed dose to the testes within the range where PLUVICTO may cause temporary or permanent infertility.

PLUVICTO has an established safety profile.⁴

Adverse reactions occurring at a ≥5% incidence in patients who received PLUVICTO + BSOC^{4,7,8,*}

	PLUVICTO + BSOC (n=529)		BSOC (n=205)	
Adverse Reactions	All grades (%)	Grades 3 to 4 (%)	All grades (%)	Grades 3 to 4 (%)
General disorders Fatigue Decreased appetite Weight decreased Peripheral edema ^a Pyrexia	43 21 11 10 7	6 1.9 0.4 0.4 0.4	23 15 9 7 3.4	1.5 0.5 0 0.5 0
Gastrointestinal disorders Dry mouth ^b Nausea Constipation Vomiting ^c Diarrhea Abdominal pain ^d	39 35 20 19 19 11	0 1.3 1.1 0.9 0.8 1.1	0.5 17 11 6 2.9 6	0 0.5 0.5 0.5 0.5 0.5
Blood and lymphatic system disorders Anemia Thrombocytopenia	32 17	13 8	13 4.4	4.9 1
Renal and urinary disorders Urinary tract infection ^e Acute kidney injury ^f	12 9	3.8 3.2	1 6	0.5 2.9
Nervous system disorders Dizziness Headache Dysgeusia ⁹	8 7 7	0.9 0.8 0	4.4 2 1.5	0 0 0

*National Cancer Institute Common Terminology Criteria for Adverse Events (NCI CTCAE) Version 5.0. ^aPeripheral edema includes peripheral edema, fluid retention, and fluid overload. ^bDry mouth includes dry mouth, aptyalism, and dry throat. ^cVomiting includes vomiting and retching. ^dAbdominal pain includes abdominal pain, abdominal pain upper, abdominal discomfort, abdominal pain lower, abdominal tenderness, and gastrointestinal pain. ^eUrinary tract infection includes urinary tract infection, cystitis, and cystitis bacterial. ^fAcute kidney injury includes blood creatinine increased, acute kidney injury, renal failure, and blood urea increased. ^gDysgeusia includes dysgeusia and taste disorder.

IMPORTANT SAFETY INFORMATION (continued)

Adverse Reactions

The most common adverse reactions (\geq 20%) occurring at a higher incidence in patients who received PLUVICTO plus best standard of care (BSoC) were fatigue, dry mouth, nausea, anemia, decreased appetite, and constipation. Clinically relevant adverse reactions in <5% of patients included dry eye, vertigo, and pancytopenia (including bicytopenia).

PLUVICTO has an established safety profile.⁴

- 12% of patients discontinued PLUVICTO + BSOC due to any treatment-related adverse events vs 8% with BSOC alone
- Clinically relevant adverse reactions in <5% of patients who received PLUVICTO + BSOC included dry eye, vertigo, and pancytopenia (including bicytopenia)

No unexpected laboratory abnormalities were reported.



Scan this QR code to be directed to a video of a multidisciplinary team providing an overview of the efficacy and safety of PLUVICTO

> When scanned QR code links to : https://www.pluvictohcp.com/medical-expertperspectives#4546

https://www.pluvicto-hcp.com/me-perspectives-pluvicto-hcp#4516

IMPORTANT SAFETY INFORMATION (continued)

Laboratory Abnormalities

The most common laboratory abnormalities that worsened from baseline in ≥30% of patients who received PLUVICTO plus BSoC were decreased lymphocytes, decreased hemoglobin, decreased leukocytes, decreased platelets, decreased calcium, and decreased sodium.

PLUVICTO Indication and Important Safety Information

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Please see full Prescribing Information at www.pluvicto.com.

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- 9. Sartor O, de Bono J, Chi KN, et al; VISION Investigators.Lutetium-177–PSMA-617 for metastatic castrationresistant prostate cancer. *N Engl J Med*. 2021;385(12)(protocol):1091-1103. doi:10.1056/NEJMoa2107322

Notes

PLUVICTO -A radioligand therapy for patients with PSMA+ mCRPC

What's especially **hopeful** about PLUVICTO is it's

another mechanism of action where we combine a diagnostic test, where patients can see where their disease is, with a treatment that targets that directly.

Dr Fleming

- PLUVICTO targets PSMA, a biomarker overexpressed in more than 80% of men with prostate cancer
- PLUVICTO significantly improves OS
 - Median OS was 15.3 months with PLUVICTO + BSOC vs 11.3 months with BSOC alone (HR=0.62; 95% CI, 0.52-0.74; P<.001)
- PLUVICTO has an established safety profile
 - Most common ARs (≥20%) with PLUVICTO + BSOC were fatigue, dry mouth, nausea, anemia, decreased appetite, and constipation
- PLUVICTO can be used after only 1 ARPI, 1 taxane, and PSMA+ PET scan

Consider PLUVICTO when your patients are starting on their first chemotherapy.

It's nice to look to a therapy with a **different mechanism of action**, **imparting an overall survival benefit** in a multidisciplinary care setting.

Dr Brown

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Please see additional Important Safety Information throughout and on page 10.



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