

Novartis ESMO Call

Investor Presentation October 24, 2023



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Participants



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Agenda

- 1 Pluvicto potential across prostate cancer stages
- 2 Pluvicto PSMAfore results
- 3 Q&A

Prostate cancer is the second most common cancer in men worldwide

1.4 million

Prostate cancer cases worldwide per year

30%

5-year survival prognosis for mCRPC patients

+4 months

median OS benefit from current SoC seen in VISION study

SoC

heavily reliant on hormonal therapies (castration)

>375k

Prostate cancer deaths per year WW



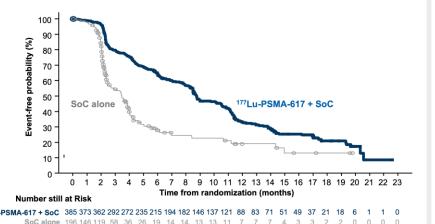
Source: Wang L. Et all, Front. Public Health, 16 February 2022 (Frontiers | Prostate Cancer Incidence and Mortality: Global Status and Temporal Trends in 89 Countries From 2000 to 2019 (frontiersin.org))

Ph3 VISION study: *Pluvicto* met both primary endpoints of rPFS and OS in the mCRPC post-taxane setting, as published in NEJM¹

Reduced risk of progression or death by 60%

rPFS HR: 0.40 (99.2% CI: 0.29, 0.57), p<0.001 (one-sided)

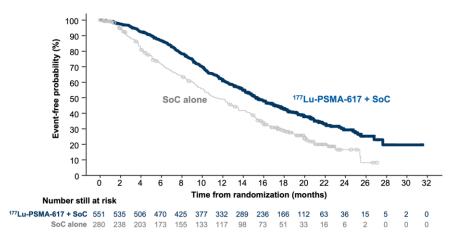
Median rPFS, months: 8.7 vs. 3.4



Reduced risk of death by 38%

OS HR: **0.62** (95% CI: 0.52, 0.74), p<0.001 (one-sided)

Median OS, months: 15.3 vs. 11.3



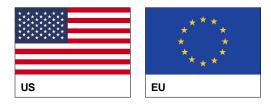
1. Sartor, N Engl J Med 2021;385:1091-103

Pluvicto approved in 37 countries including US and EU; RoW submissions ongoing

FDA indication statement

PLUVICTO is a radioligand therapeutic agent 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.

More than 7,400 patients treated across 37 countries¹



Other selected countries

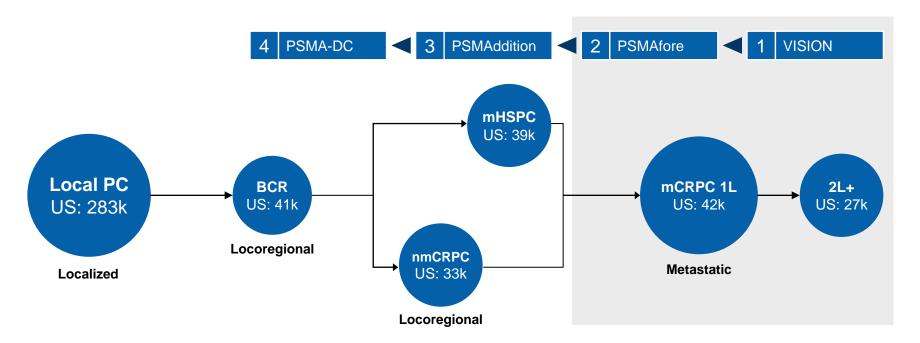






1. In commercial setting

Ambition to transform advanced prostate cancer across four main segments with *Pluvicto* studies



Source: Cerner Enviza 2023 US Prostate Cancer Incidence PC = prostate cancer BCR = biochemical recurrence nmCRPC = non-metastatic castration-resistant prostate cancer mHSPC = metastatic hormone-sensitive prostate cancer mCRPC = metastatic castration-resistant prostate cancer

PSMAfore met primary endpoint¹ with clinically meaningful and highly statistically significant rPFS benefit in pre-taxane setting

1

Pluvicto demonstrated robust efficacy...

- ✓ More than doubled median rPFS²
- Consistent benefit across subgroups²
- Improved QoL compared to daily oral ARPI²
- Pre-specified crossover-adjusted OS analysis HR 0.80²

2

... with a favorable safety profile

- ✓ Lower rate of Grade ≥3 AEs compared to daily oral ARPI
- ✓ Low rate of AE-driven discontinuations
- ✓ Fewer patients required dose adjustment
- Even better tolerability than in VISION

^{1.} Primary rPFS analysis based on centrally confirmed rPFS events with Oct. 2022 data cutoff. 2. Updated rPFS analysis (at time of 2nd interim OS analysis) based on Jun. 2023 data cutoff.

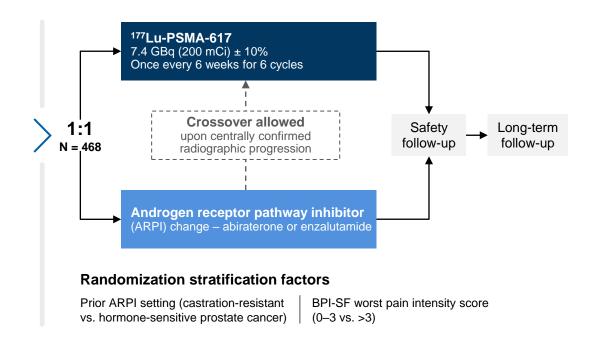
Agenda

- Pluvicto potential across prostate cancer stages
- **Pluvicto PSMAfore results**
- Q&A

PSMAfore study design

Eligible adults

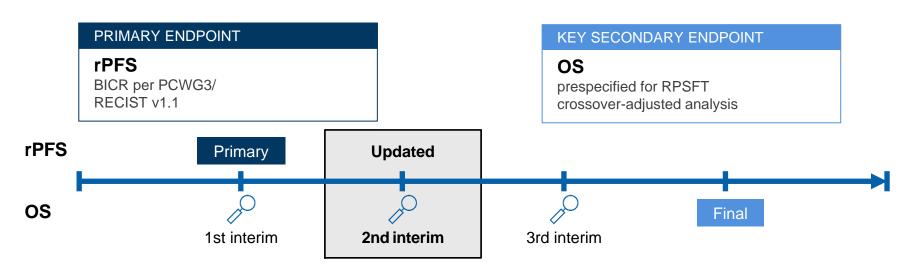
- Confirmed progressive mCRPC
- ≥ 1 PSMA-positive metastatic lesion on 68Ga-PSMA-11 PET/CT and no exclusionary PSMA-negative lesions
- Progressed once on prior second-generation ARPI
 - Candidates for change in ARPI
- Taxane-naive (except [neo]adjuvant > 12 months ago)
 - Not candidates for PARP inhibition
- ECOG performance status 0–1



PSMAfore was specifically designed to address key unmet needs in mCRPC

| | Insights | PSMAfore trial design |
|----------------------|---|--|
| Dosing regimen | Low kidney uptake enables 6 cycles of Pluvicto at 7.4 GBq, already proven in the sicker post-taxane setting | Maintain dosing regimen for pre-taxane population to optimize radiation delivery |
| Choice of comparator | Many patients unwilling or ineligible to take taxane-based chemotherapy, due to debilitating side effects | Compare to change in ARPI, to potentially allow patients to reduce, eliminate or delay chemo |
| Crossover design | Strong results in VISION increased risk of dropout in PSMAfore control arm | Study allowed patients on control arm to receive Pluvicto after centrally confirmed radiographic progression Pre-specified primary OS analysis adjusted for crossover because of this confounding factor |

PSMAfore analysis plan



Other secondary endpoints

- rPFS2
- PSA50
- Time to SSE
- Time to soft tissue progression
- PFS, PFS2Time to chemotherapy
 - HRQoL
 - Safety and tolerability

Exploratory endpoints

- ORR, DCR, DOR
- Time to PSA progression
- Time to pain progression
- Biomarker associations

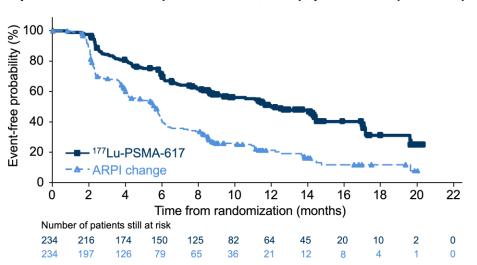
Baseline patient characteristics similar between the two arms and representative of intended population

| | | ¹⁷⁷ Lu-PSMA-617 (n = 234) | ARPI change (n = 234) |
|---|--|---|-------------------------------------|
| Age, years, median (range) | | 71 (43–94) | 72 (53–91) |
| White, n (%) | | 211 (90.2) | 214 (91.5) |
| ECOG performance status 0 1 | | 146 (62.4) 86 (36.8) | 115 (49.1) 114 (48.7) |
| Gleason score 8–10, n (%) | | 136 (58.1) | 107 (45.7) |
| PSA, median (range), μg/L | | 18.4 (0–1197) | 14.9 (0–4224) |
| Haemoglobin, median (range), g/L | | | 129.0 (88–156) |
| Alkaline phosphatase, median (range), U | kaline phosphatase, median (range), U/L | | 103.5 (28–1319) |
| Lactate dehydrogenase, median (range), | ctate dehydrogenase, median (range), U/L 197.0 (66–1314) 196.5 (12 | | 196.5 (124–999) |
| Site of disease n (%) | Liver Lymph node Bone | 13 (5.6) 76 (32.5) 205 (87.6) | 7 (3.0) 74 (31.6) 203 (86.8) |
| Prior ARPI n (%) | Abiraterone Enzalutamide Other | 119 (50.9) 94 (40.2) 21 (9.0) | 130 (55.6) 84 (35.9) 20 (8.5) |

Pluvicto showed a clinically meaningful and highly statistically significant rPFS benefit in taxane-naive patients with PSMA+ mCRPC

Primary¹ HR: 0.41 (95% CI: 0.29, 0.56); p < 0.0001

Updated² HR: 0.43 (95% CI: 0.33, 0.54); p < 0.0001 (nominal)



| | ¹⁷⁷ Lu-PSMA-617 (n = 234) | ARPI change (n = 234) |
|-------------------------|---|--------------------------|
| Events, n | 115 (49.1%) | 168 (71.8%) |
| Median rPFS (95% CI) | 12.0 months (9.3, 14.4) | 5.6 months (4.2, 6.0) |

^{1.} Primary rPFS analysis based on centrally confirmed rPFS events with Oct. 2022 data cutoff. 2. Updated rPFS analysis (at time of 2nd interim OS analysis) based on Jun. 2023 data cutoff.

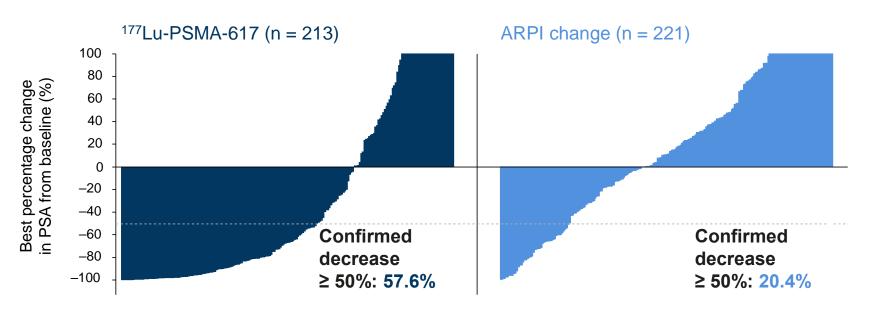
Benefit¹ was consistent across pre-specified subgroups²

| | | HR | 95% CI |
|------------------------------|--|--------------|--------------------------|
| All patients | | 0.43 | 0.33, 0.54 |
| Previous ARPI setting | ✓ CRPC✓ HSPC | 0.40 0.57 | 0.30, 0.52 0.33, 0.98 |
| Symptomatology | Asymptomatic or mildly symptomaticSymptomatic | 0.40 0.51 | 0.30, 0.53 0.32, 0.79 |
| Liver metastases at baseline | ✓ Yes✓ No | 0.42 0.43 | 0.11, 1.61 0.33, 0.55 |
| Baseline PSA level | ✓ < median ✓ ≥ median | 0.42 0.40 | 0.29, 0.60 0.29, 0.56 |
| Initial Gleason score | ✓ < 6✓ ≥ 6 | 0.55 0.42 | 0.10, 3.09 0.32, 0.54 |
| Baseline LDH level | ✓ ≤ 260 IU/L✓ > 260 IU/L | 0.41 0.53 | 0.31, 0.54 0.27, 1.07 |
| Previous ARPI | ✓ Abiraterone✓ Enzalutamide | 0.47 0.35 | 0.33, 0.66 0.24, 0.52 |

^{1.} rPFS per BIRC HR for Pluvicto vs. ARPI change 2. Subgroups with <10 patients in both arms include liver mets at baseline (yes) and initial Gleason score < 6

PSA50 response was >2.5X more frequent with *Pluvicto* than with ARPI change among evaluable patients

Waterfall plots of best percentage change from baseline in PSA

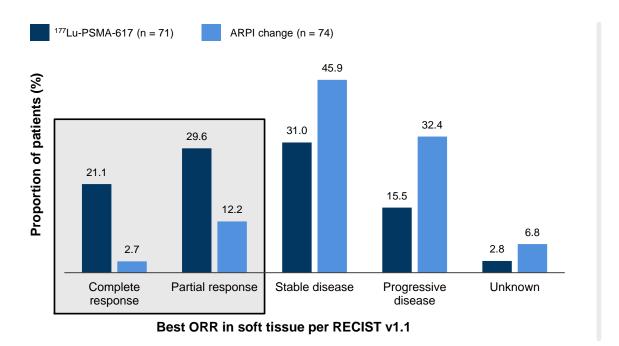


Pluvicto halved the number of symptomatic skeletal events (SSE)¹ and prolonged time without SSE vs. ARPI change

| | ¹⁷⁷ Lu-PSMA-617 (n = 234) | ARPI change (n = 234) |
|-------------------------------------|---|--------------------------|
| Number of events, n (%) | 25 (10.7) | 59 (25.2) |
| SSE | 21 (9.0) | 54 (23.1) |
| Death | 4 (1.7) | 5 (2.1) |
| Median time to SSE, months (95% CI) | NE (NE, NE) | NE (15.6, NE) |
| HR (95% CI) | 0.35 (0.2 | 22, 0.57) |

^{1.} SSE defined as the first new symptomatic pathological bone fracture, spinal cord compression, tumor-related orthopedic surgical intervention, requirement for radiation therapy to relieve bone pain or death from any cause

Objective response rate (ORR) was higher and duration of response (DOR) was longer with *Pluvicto* versus ARPI change¹



ORR in soft tissue:

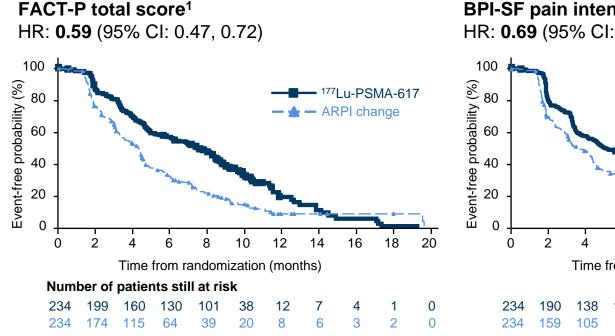
50.7% vs. 14.9%²

Median DOR in soft tissue³, months:

13.6 vs. 10.14

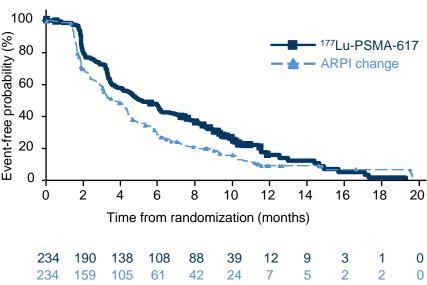
1. Among patients with measurable disease at baseline. 2. 95% CI: 50.7% (38.6, 62.8) vs. 14.9% (7.7, 25.0) 3. In patients with complete response or partial response 4. 95% CI: 13.6 (11.6, NE), n = 36 vs. 10.0 (4.6, NE), n = 11

Patients on *Pluvicto* demonstrated improved quality of life compared to daily oral ARPI



BPI-SF pain intensity scale²

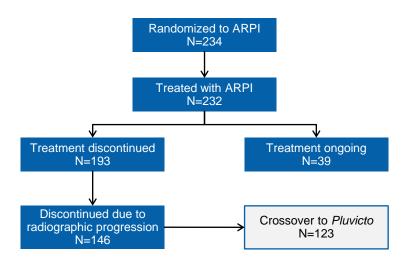
HR: **0.69** (95% CI: 0.56, 0.85)



^{1.} FACT-P: Median time to worsening, months (95% CI): 7.5 (6.1, 8.5) vs. 4.3 (3.5, 4.5) 2. BPI: Median time to worsening, months (95% CI): 5.0 (4.4, 6.9) vs. 3.7 (3.1, 4.4)

Overall survival data interpretation confounded by crossover

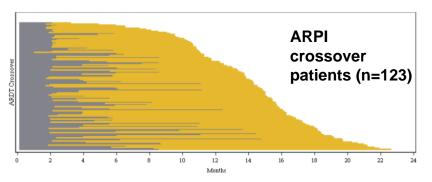
Crossover: 123/146 (84%) patients who discontinued with radiographic progression

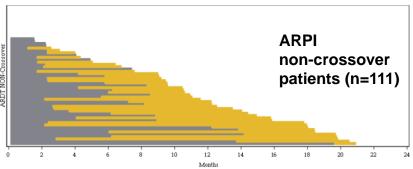


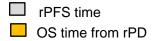
45% information fraction at time of 2nd interim OS analysis

| os | HR | 95% CI |
|---|------|--------------|
| Pre-specified primary crossover-adjusted analysis | 0.80 | (0.48, 1.33) |
| Unadjusted ITT analysis | 1.16 | (0.83, 1.64) |

ARPI patients who crossed over to *Pluvicto* had a survival benefit over ARPI patients who did not cross over







Estimated OS probability at 12 months:

92.1% for pts randomized to ARPI arm who crossed over

68.6% for pts randomized to ARPI arm who did not cross over

Other than *Pluvicto* crossover and concurrent radiation, no major difference in post-progression therapies between treatments arms

Antineoplastic therapy since discontinuation of study drug by medication type¹

| Medication Type | ¹⁷⁷ Lu-PSMA-617 N=234 n (%) | ARPI N=234 n (%) |
|---|---|-----------------------|
| Pluvicto as crossover treatment | 0 | 123 (84.2) |
| Radiation therapy | 36 (15.4) | 66 (28.2) |
| Concurrent (includes crossover treatment) | 7 (3.0) | 39 (16.7) |
| Post-study treatment | 29 (12.4) | 27 (11.5) |
| ≥ 1 subsequent ANP medication (excluding crossover) | 81 (34.6) | 68 (29.1) |
| Chemotherapy | 70 (29.9) | 61 (26.1) |
| Hormonal therapy | 13 (5.6) | 4 (1.7) |
| Biologic therapy | 5 (2.1) | 2 (0.9) |
| Targeted therapy (excluding radioligand therapy) | 2 (0.9) | 3 (1.3) |
| PSMA-directed radioligand therapy | 1 (0.4) | 5 (2.1) |
| Other | 1 (0.4) | 0 |

^{1.} Full analysis set. A medication / therapy can appear with more than one medication type. Only ANP medications that started after the end of randomized treatment date are summarized. For crossover subjects all antineoplastic medications after crossover are included in the ARPI column. Targeted therapies reported: capivasertib, olaparib, and NUV-868 (BETi). PSMA-directed radioligand therapies reported: Pluvicto, 67CuBIPSMA.

Treatment with *Pluvicto* had a favorable safety profile and was well tolerated

63% of patients received 6 cycles of *Pluvicto*

Lower rate of Grade ≥3 AEs compared to daily oral ARPI

Fewer patients on *Pluvicto* required a dose adjustment compared to ARPI

AE-driven discontinuations were low and balanced between the arms

| AEs, n (%) | ¹⁷⁷ Lu-PSMA-617 (n = 227) | ARPI change (n = 232) |
|----------------------------|---|--------------------------|
| Any | 223 (98.2) | 223 (96.1) |
| Grade 3-4 | 77 (33.9) | 100 (43.1) |
| Serious | 46 (20.3) | 65 (28.0) |
| Treatment-related | 7 (3.1) | 5 (2.2) |
| Fatal (Grade 5) | 4 (1.8) | 5 (2.2) |
| Treatment-related | 0 | 1 (0.4) |
| Leading to dose adjustment | 8 (3.5) | 35 (15.1) |
| Leading to discontinuation | 13 (5.7) | 12 (5.2) |

Vast majority of AEs were low-grade

Treatment-emergent adverse events in ≥ 10% patients in either arm

Grades 3-5 All grades ¹⁷⁷Lu-PSMA-617 ARPI change ¹⁷⁷Lu-PSMA-617 ARPI change AEs, n (%) (n = 227)(n = 232)(n = 227)(n = 232)Dry mouth 130 (57.3) 3(1.3)5 (2.2) 0 Asthenia 72 (31.7) 67 (28.9) 1 (0.4) 8 (3.4) 71 (31.3) 28 (12.1) 1 (0.4) Nausea 0 Anaemia 55 (24.2) 39 (16.8) 14 (6.2) 14 (6.0) Fatigue 52 (22.9) 59 (25.4) 0 4 (1.7) Constipation 50 (22.0) 31 (13.4) 1 (0.4) 0 Decreased appetite 48 (21.1) 42 (18.1) 0 1 (0.4) Arthralgia 43 (18.9) 48 (20.7) 0 1 (0.4) COVID-19 37 (16.3) 26 (11.2) 1 (0.4) 1 (0.4) Diarrhoea 37 (16.3) 20 (8.6) 0 1 (0.4) 28 (12.3) 38 (16.4) 2(0.9)5 (2.2) Back pain Vomiting 26 (11.5) 11 (4.7) 0 0 Oedema peripheral 0 0 19 (8.4) 26 (11.2) Weight loss 15 (6.6) 28 (12.1) 2(0.9)5 (2.2)

Exposure-adjusted safety data show even better tolerability in this earlier line of treatment than was seen in the VISION study

| | Incidence rate per 100 subject-time years PSMAfore | Incidence rate per 100 subject-time years VISION |
|----------------------------------|--|--|
| AEs (Grade ≥3) | 60 | 88 |
| Treatment related AEs (Grade ≥3) | 17 | 39 |
| SAEs | 33 | 53 |

~2,000 patient-years of exposure in VISION, PSMAfore and post-marketing experience support favorable safety and tolerability profile of *Pluvicto*

PSMAfore study showed robust efficacy with favorable safety of **Pluvicto in PSMA+ mCRPC patients in the pre-taxane setting**

| Robust efficacy | Pluvicto vs. ARPI arm | Favorable safety profile |
|--|-----------------------------|--|
| ✓ rPFS¹ | HR 0.41 (0.29, 0.56) | ✓ Vast majority of AEs low-grade |
| ✓ Median rPFS² | 12.0 vs. 5.6 months | ✓ Grade 3-4 AEs: 33.9% Pluvicto vs. 43.1% ARPI |
| ✓ PSA50 response | 57.6% vs. 20.4% | SAEs: 20.3% <i>Pluvicto</i> vs. 28.0% ARPI |
| ✓ Time to SSE | HR 0.35 (0.22, 0.57) | AEs leading to discontinuation ⁶ : 5.7% vs. 5.2% |
| ✓ ORR³ | 50.7% vs. 14.9% | AEs leading to dose adjustment ⁶ : 3.5% vs. 15.1% |
| ✓ Time to worsening (FACT-P ⁴) | HR 0.59 (0.47, 0.72) | |
| ✓ Time to worsening (BPI-SF⁵) | HR 0.69 (0.56, 0.85) | Overall exposure to <i>Pluvicto</i> ~2,000 patient-years (incl. VISION, PSMAfore and post-marketing experies |
| Crossover-adjusted OS | HR 0.80 (0.48, 1.33) | |
| Unadjusted OS (84% crossove | er) HR 1.16 (0.83, 1.64) | |

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^{1.} Primary rPFS analysis based on 166 rPFS events per BICR assessment (or centrally confirmed rPFS events); 1-sided p-value: <0.0001. Updated analysis of rPFS (at time of 2nd interim OS analysis) was consistent, with HR 0.43 (0.33, 0.54). All other data points from updated analysis with more mature data. 2. (95% CI): 12.0 (9.3, 14.4) vs. 5.6 (4.2, 5.95) 3. ORR in soft tissue per RECIST 1.1 for pts with measurable disease at baseline; (95% CI): 50.7% (38.6, 62.8) vs. 14.9% (7.7, 25.0) 4. FACT-P: prostate cancer-specific quality of life 5. BPI-SF: severity of pain and impact of pain on daily functions 6. Comparisons for Pluvicto vs. ARPI arm

Next steps for *Pluvicto* in the pre-taxane setting

High crossover confounded OS analysis interpretation with 45% information fraction

PSMAfore continues to next interim analysis for OS after ~75% of target events

Submission to health authorities to follow in 2024

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