

Innovando en el abordaje multidisciplinar del cáncer de próstata en Andalucía

Málaga, 27 de septiembre de 2023

Organizado por:

En colaboración con:

saom
Sociedad andaluza
de oncología médica



Perfil del paciente candidato a tratamiento con ^{177}Lu -PSMA-617.

Begoña Pérez-Valderrama

Oncología Médica

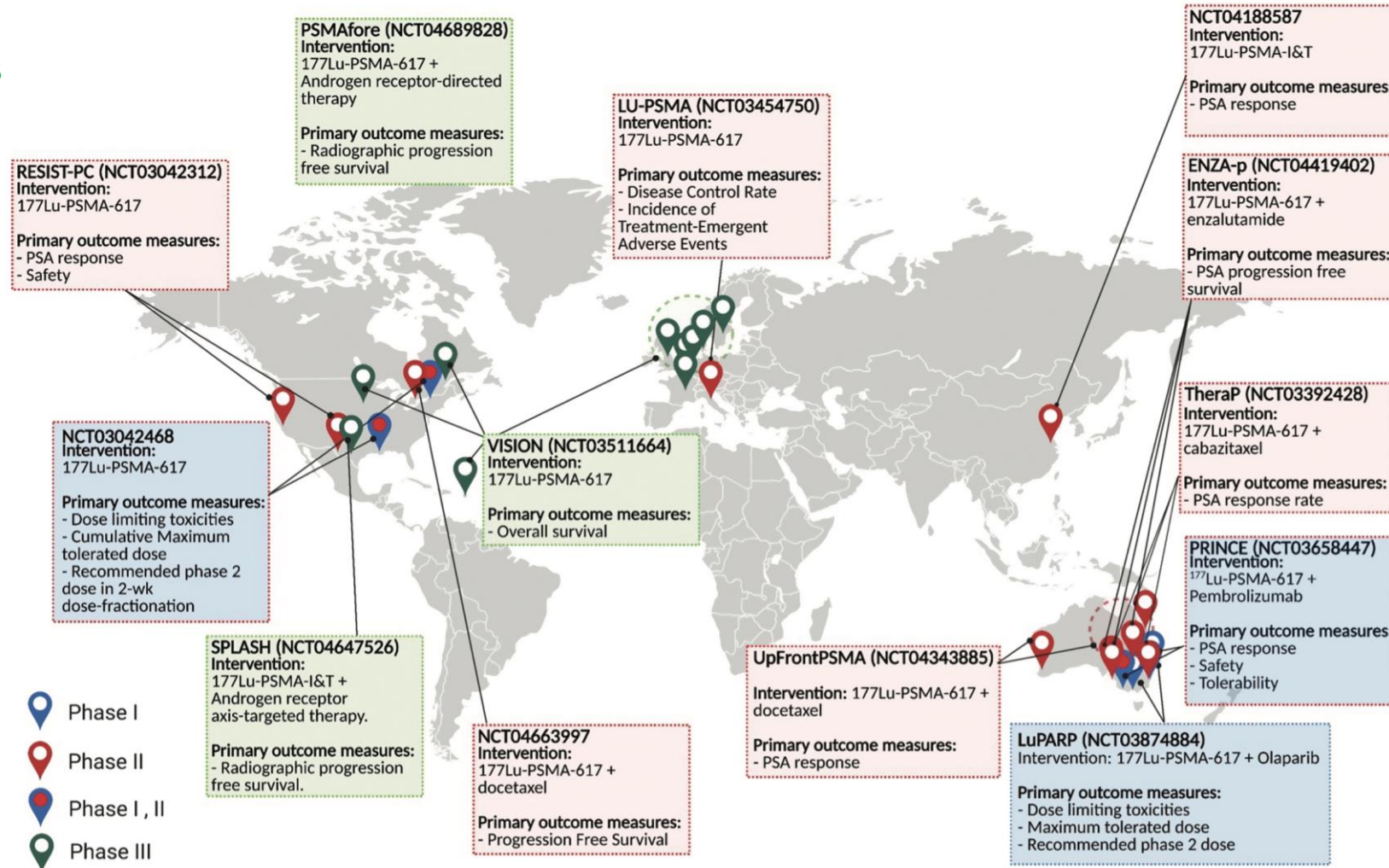
Hospital Universitario Virgen del Rocío. Sevilla

CÁNCER DE PRÓSTATA

CPRCm

➤ ¹⁷⁷Lu-PSMA-617: selección de pacientes

Ensayos clínicos



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**PERFIL DE PACIENTE:
Indicación agencias reguladoras**

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➤ ¹⁷⁷Lu-PSMA-617



AUTHORISED

This medicine is authorised for use
in the European Union.

Pluvicto is a medicine used to treat cancer of the prostate (a gland of the male reproductive system). It is used when the cancer is metastatic (spreading to other parts of the body), progressive, castration-resistant (worsens despite treatment to lower levels of the male sex hormone testosterone), and the cancer cells have a protein called prostate-specific membrane antigen (PSMA) on their surface (PSMA-positive prostate cancer).

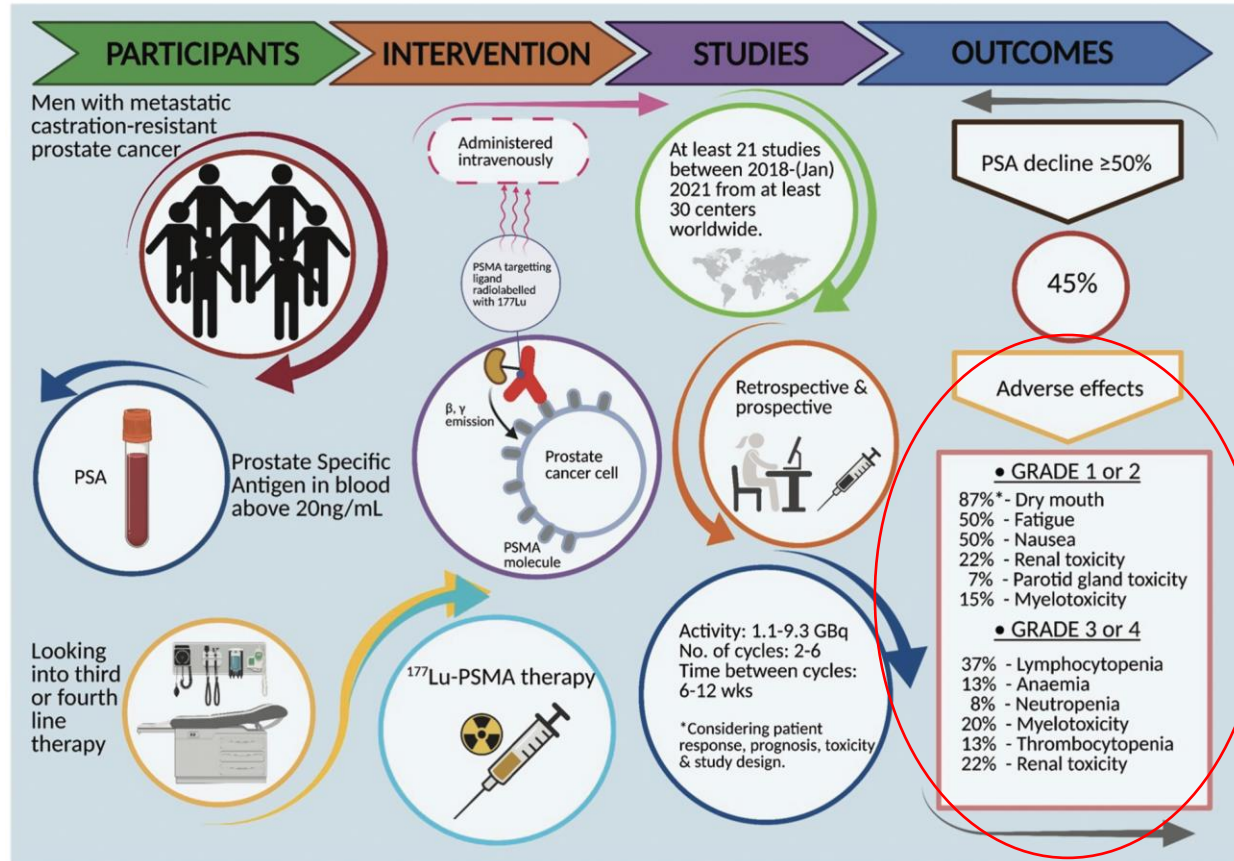
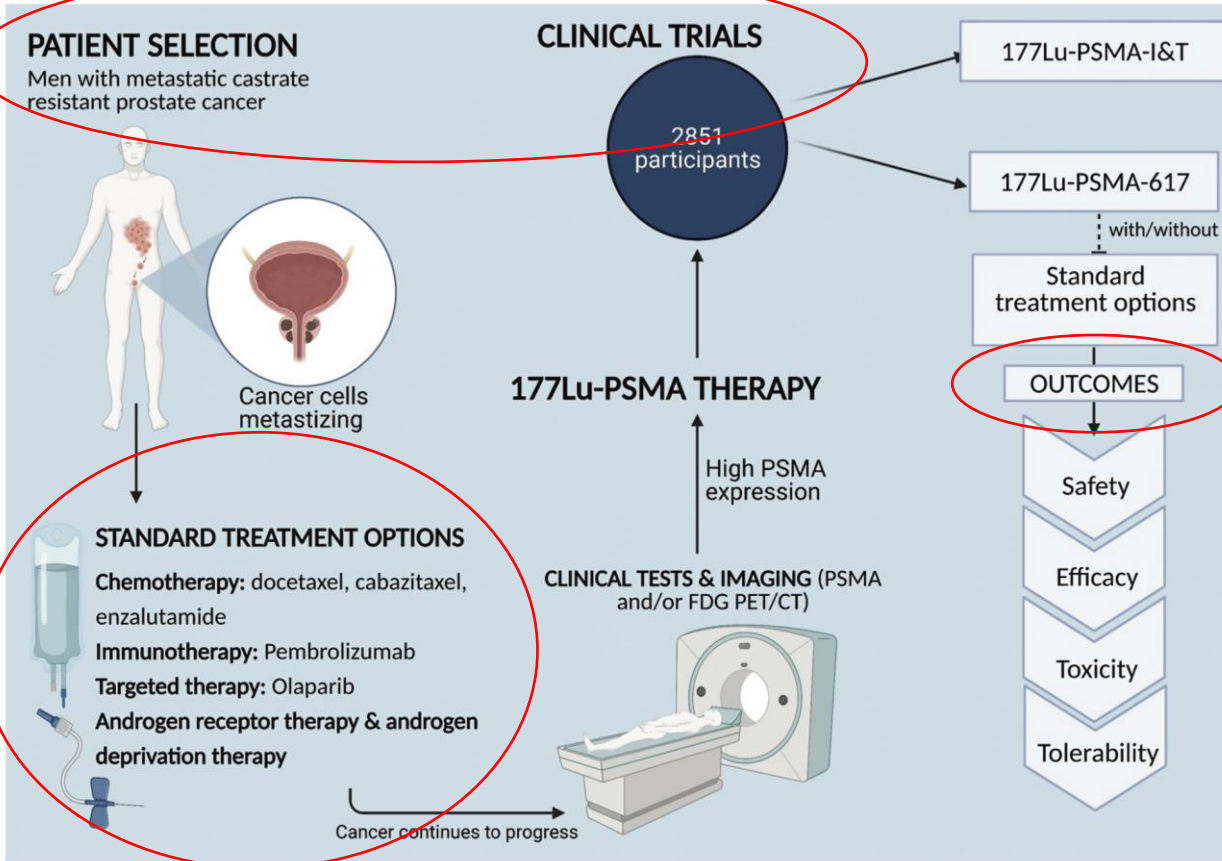
Pluvicto is used together with androgen deprivation therapy (treatment to lower male sex hormones) in adults previously treated with androgen receptor pathway inhibitors (medicines for prostate cancer), and a medicine of the group of cancer medicines known as taxanes. Androgen receptor pathway inhibitors may also be added to Pluvicto and androgen deprivation therapy.

Pluvicto is a radiopharmaceutical (a medicine that gives off a small amount of radioactivity) that contains the active substance lutetium (¹⁷⁷Lu) vipivotide tetraxetan.

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**PERFIL DE PACIENTE:
Criterios de inclusión**

CÁNCER DE PRÓSTATA

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➤ ¹⁷⁷Lu-PSMA-617

VISION

N=831

- mCRPC post docetaxel
- Previous treatment with both:
 - ≥ 1 ARI
 - 1 or 2 taxane regimens
- Protocol-permitted SOC planned before randomization
- Excluding chemo, IO, Ra-223, investigational drugs
- ECOG 0-2
- PSMA-positive on ⁶⁸Ga-PSMA-11*

Randomization 2:1

¹⁷⁷Lu-PSMA-617 +
protocol-permitted SOC
7.4 GBq iv q6 weekly
4 cycles, increasable to 6

Protocol-permitted SOC
alone

Approved hormonal treatments
Biphosphonates
Radiation therapy
Denosumab
Glucocorticoids

Primary endpoint: OS
Alternate: rPFS (after March 5, 2019)

Median follow-up -> 20.9 months

Centrally read PSMA PET imaging criteria

- ≥ 1 PSMA-positive metastatic lesion
 - Positive = ⁶⁸Ga uptake > liver
- No PSMA-negative metastatic lesions
 - Bone with soft tissue component ≥ 1.0 cm
 - Lymph node ≥ 2.5 cm
 - Solid organ ≥ 1.0 cm

Baseline characteristics

Characteristic	Analysis Set for Imaging-Based Progression-free Survival (N = 581)		All Patients Who Underwent Randomization (N = 831)	
	¹⁷⁷ Lu-PSMA-617 plus Standard Care (N = 385)	Standard Care Alone (N = 196)	¹⁷⁷ Lu-PSMA-617 plus Standard Care (N = 551)	Standard Care Alone (N = 280)
Median age (range) — yr	71.0 (52–94)	72.0 (51–89)	70.0 (48–94)	71.5 (40–89)
ECOG performance-status score of 0 or 1 — no. (%)†	352 (91.4)	179 (91.3)	510 (92.6)	258 (92.1)
Site of disease — no. (%)				
Lung	35 (9.1)	20 (10.2)	49 (8.9)	28 (10.0)
Liver	47 (12.2)	26 (13.3)	63 (11.4)	38 (13.6)
Lymph node	193 (50.1)	99 (50.5)	274 (49.7)	141 (50.4)
Bone	351 (91.2)	179 (91.3)	504 (91.5)	256 (91.4)
Median PSA level (range) — ng/ml	93.2 (0–6988)	90.7 (0–6600)	77.5 (0–6988)	74.6 (0–8995)
Median alkaline phosphatase level (range) — IU/liter‡	108.0 (26–2524)	96.0 (34–1355)	105.0 (17–2524)	94.5 (28–1355)
Median LDH (range) — IU/liter‡	230.5 (119–5387)	232.0 (105–2693)	221.0 (88–5387)	224.0 (105–2693)
Median time since diagnosis (range) — yr	7.3 (0.9–28.9)	7.0 (0.7–26.2)	7.4 (0.9–28.9)	7.4 (0.7–26.2)
Gleason score at diagnosis — no. (%)§				
8–10	226 (58.7)	118 (60.2)	324 (58.8)	170 (60.7)
Unknown	28 (7.3)	19 (9.7)	42 (7.6)	24 (8.6)
Previous prostatectomy — no. (%)¶	159 (41.3)	82 (41.8)	240 (43.6)	130 (46.4)
Previous androgen-receptor–pathway inhibitor — no. (%)				
One regimen	213 (55.3)	98 (50.0)	298 (54.1)	128 (45.7)
Two regimens	150 (39.0)	86 (43.9)	213 (38.7)	128 (45.7)
More than two regimens	22 (5.7)	12 (6.1)	40 (7.3)	24 (8.6)
Previous taxane therapy — no. (%)**				
One regimen	207 (53.8)	102 (52.0)	325 (59.0)	156 (55.7)
Two regimens	173 (44.9)	92 (46.9)	220 (39.9)	122 (43.6)
Docetaxel	377 (97.9)	191 (97.4)	534 (96.9)	273 (97.5)
Cabazitaxel	161 (41.8)	84 (42.9)	209 (37.9)	107 (38.2)

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➤ ¹⁷⁷Lu-PSMA-617

TheraP

N=200

- mCRPC post docetaxel suitable for cabazitaxel
- PD with rising PSA and PSA ≥ 20
- ECOG 0-2
- Previous ARi therapy allowed
- PET eligibility criteria*

Primary endpoint: PSA₅₀-RR

Median follow-up -> 18.4 months

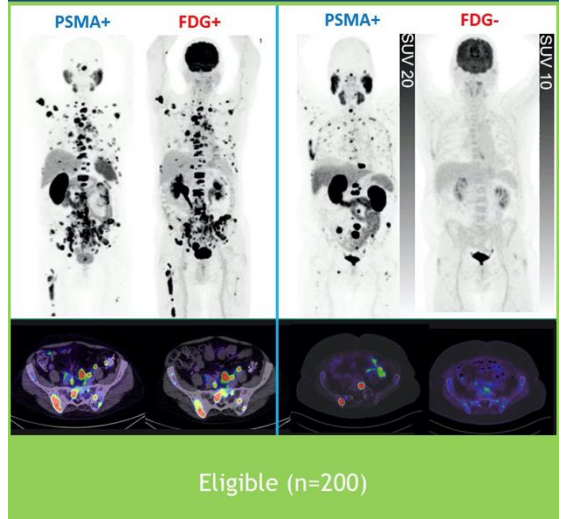
⁶⁸Ga-PSMA + ¹⁸F-FDG PET/CT

- PSMA SUVmax ≥ 20 at any site
- Measurable sites SUVmax > 10
- No FDG positive/PSMA negative sites of disease
- Centrally reviewed

Randomization 1:1

¹⁷⁷Lu-PSMA-617
8.5 GBq iv q6 weekly
↓ 0.5 GBq each cycle
Up to 6 cycles

Cabazitaxel
20 mg/m² iv q3 weekly
Up to 10 cycles



Eligible (n=200)

Baseline characteristics

	¹⁷⁷ Lu]Lu-PSMA-617 (n=99)	Cabazitaxel (n=101)
Age, years		
Mean (SD)	71.7 (7.9)	71.5 (7.0)
Median (IQR)	72.1 (66.9-76.7)	71.8 (66.7-77.3)
>20 metastases*	77 (78%)	79 (78%)
ECOG performance status		
0	42 (42%)	44 (44%)
1	53 (54%)	52 (52%)
2	4 (4%)	4 (4%)
Missing data	0	1 (1%)
PSA, ng/mL	93.5 (44-219)	110 (64-245)
Alkaline phosphatase, U/L	111 (83-199)	130 (79-187)
Gleason score at diagnosis		
≤7	25 (25%)	35 (35%)
≥8	53 (53%)	50 (50%)
Missing data	21 (21%)	16 (16%)
Disease stage		
Lymph node only	7 (7%)	9 (9%)
Bone metastases	90 (91%)	90 (89%)
Visceral metastases	7 (7%)	13 (13%)
Previous treatment		
Abiraterone only	21 (21%)	24 (24%)
Enzalutamide only	49 (50%)	58 (57%)
Both	21 (21%)	9 (9%)

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**PERFIL DE PACIENTE:
Factores predictores**

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➤ ¹⁷⁷Lu-PSMA-617: subgrupos

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Randomization 2:1

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4 cycles, increasable to 6

Protocol-permitted SOC alone

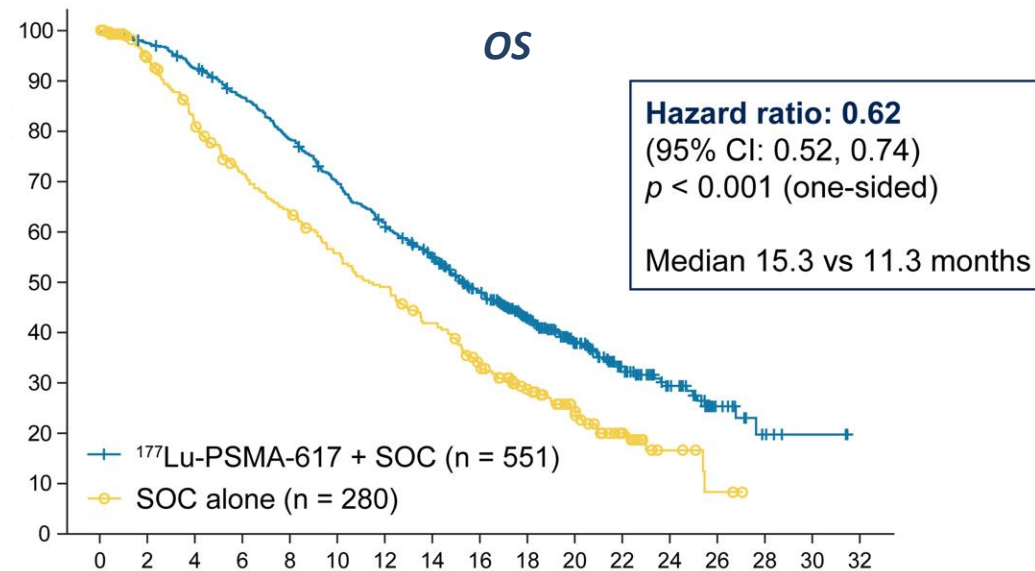
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Biphosphonates
Radiation therapy
Denosumab
Glucocorticoids

Primary endpoint: OS
Alternate: rPFS (after March 5, 2019)

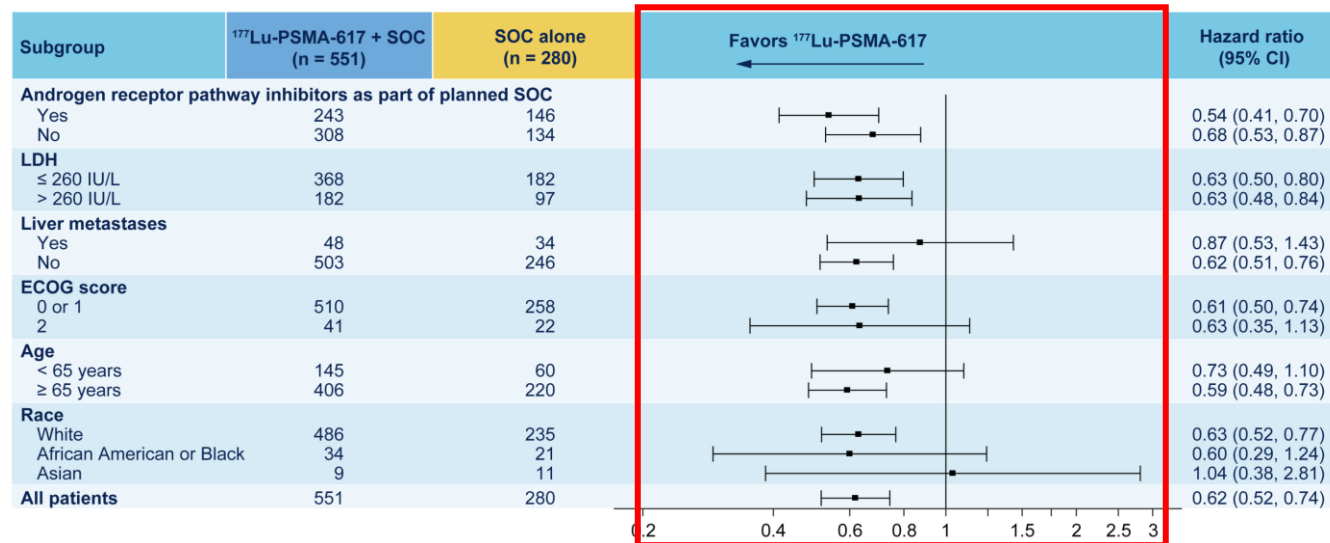
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OS by subgroups



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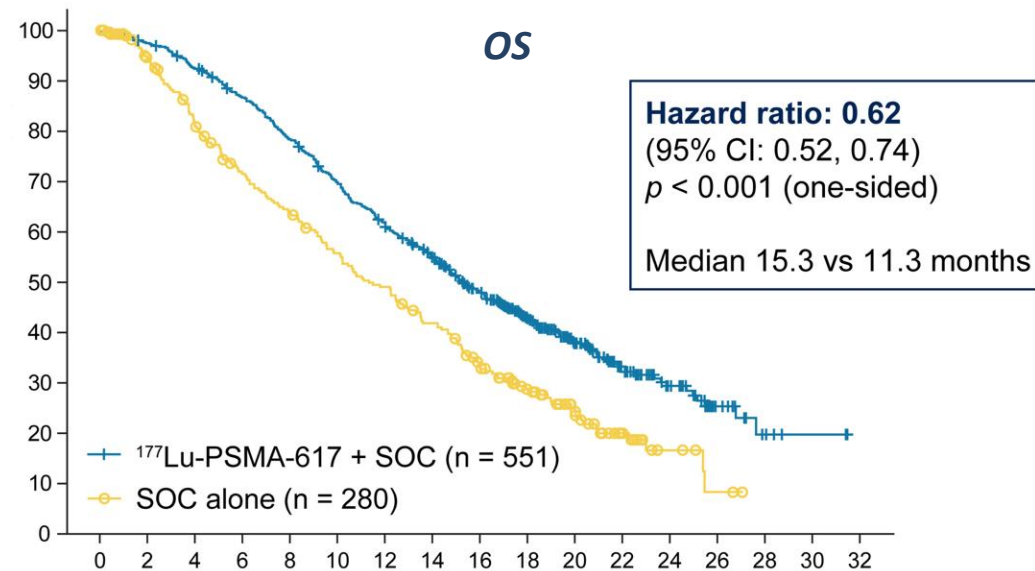
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OS by prior treatments

		¹⁷⁷ Lu-PSMA-617 + SoC (n = 551)	SoC alone (n = 280)	Favors ¹⁷⁷ Lu-PSMA-617	Favors SoC	HR (95% CI)
		n/N (%)	n/N (%)	←	→	
ARPIs	1	182/296 (61.5)	83/130 (63.8)			0.74 (0.57, 0.97)
	≥ 2	161/255 (63.1)	104/150 (69.3)			0.52 (0.41, 0.67)
Taxane regimens	1	206/342 (60.2)	108/165 (65.5)			0.59 (0.46, 0.75)
	≥ 2	113/170 (66.5)	70/99 (70.7)			0.73 (0.53, 0.99)
Non-taxane regimens	0	299/485 (61.6)	167/252 (66.3)			0.61 (0.50, 0.74)
	≥ 1	44/66 (66.7)	20/28 (71.4)			0.71 (0.42, 1.23)
Immunotherapies	0	255/414 (61.6)	134/200 (67.0)			0.58 (0.47, 0.73)
	≥ 1	88/137 (64.2)	53/80 (66.3)			0.72 (0.51, 1.01)
Bone health agents	Yes	66/99 (66.7)	43/57 (75.4)			0.54 (0.36, 0.80)
	No	277/452 (61.3)	144/223 (64.6)			0.64 (0.52, 0.79)
²²³ Ra	Yes	59/97 (60.8)	31/48 (64.6)			0.73 (0.47, 1.13)
	No	284/454 (62.6)	156/232 (67.2)			0.60 (0.49, 0.73)
PARP inhibitors	Yes	22/30 (73.3)	11/16 (68.8)			0.60 (0.28, 1.28)
	No	321/521 (61.6)	176/264 (66.7)			0.62 (0.51, 0.75)
All patients		343/551 (62.3)	187/280 (66.8)			0.62 (0.52, 0.74)

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- PSMA-positive on ⁶⁸Ga-PSMA-11*

Randomization 2:1

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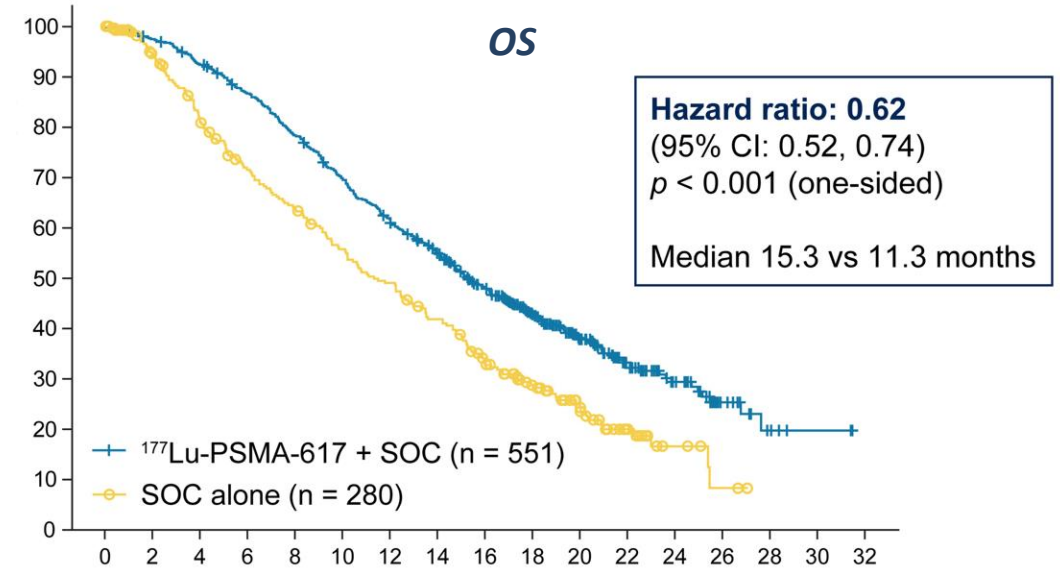
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OS by concomitant SoC treatment

		¹⁷⁷ Lu-PSMA-617 + SoC (n = 551)	SoC alone (n = 280)	Favors ¹⁷⁷ Lu-PSMA-617 ← → Favors SoC		HR (95% CI)
		n/N (%)	n/N (%)			
ARPIs	Yes	166/289 (57.4)	110/166 (66.3)			0.55 (0.43, 0.70)
	No	177/262 (67.6)	77/114 (67.5)			0.70 (0.53, 0.93)
Bone health agents	Yes	152/240 (63.3)	86/125 (68.8)			0.59 (0.45, 0.78)
	No	191/311 (61.4)	101/155 (65.2)			0.64 (0.50, 0.82)
Radiation therapy	Yes	51/75 (68.0)	22/31 (71.0)			0.78 (0.46, 1.32)
	No	292/476 (61.3)	165/249 (66.3)			0.60 (0.49, 0.73)
All patients		343/551 (62.3)	187/280 (66.8)			0.62 (0.52, 0.74)

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Randomization 2:1

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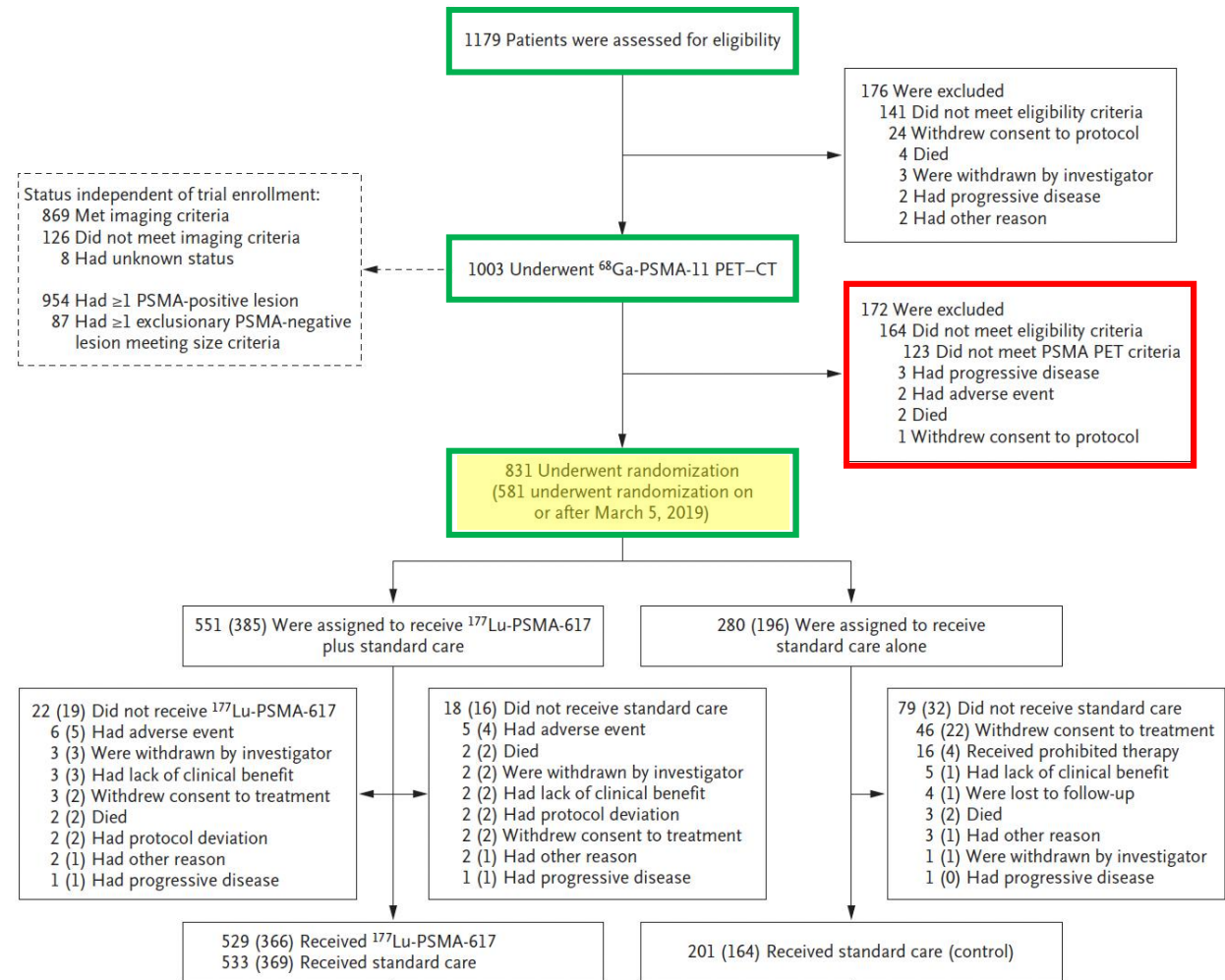
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Screening and randomization



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Objective: to assess the association between quantitative parameters from pre-treatment ⁶⁸Ga-PSMA-11 PET/CT scans and outcomes (rPFS, OS, ORR and PSA response^a) with ¹⁷⁷Lu-PSMA-617 therapy

PSMA PET parameters

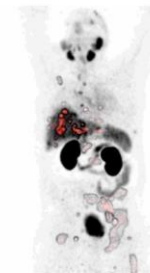
- SUV_{mean}
- SUV_{max}
- Tumor volume
- Tumor load
- Presence of PSMA-positive lesion by region (Yes/No)

Extracted for

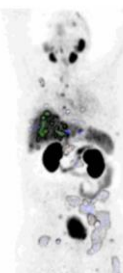
Segmented anatomical regions

- Bone
- Lymph node
- Liver
- Other soft tissue
- Whole body (combination of all regions)

Whole-body lesion ROI



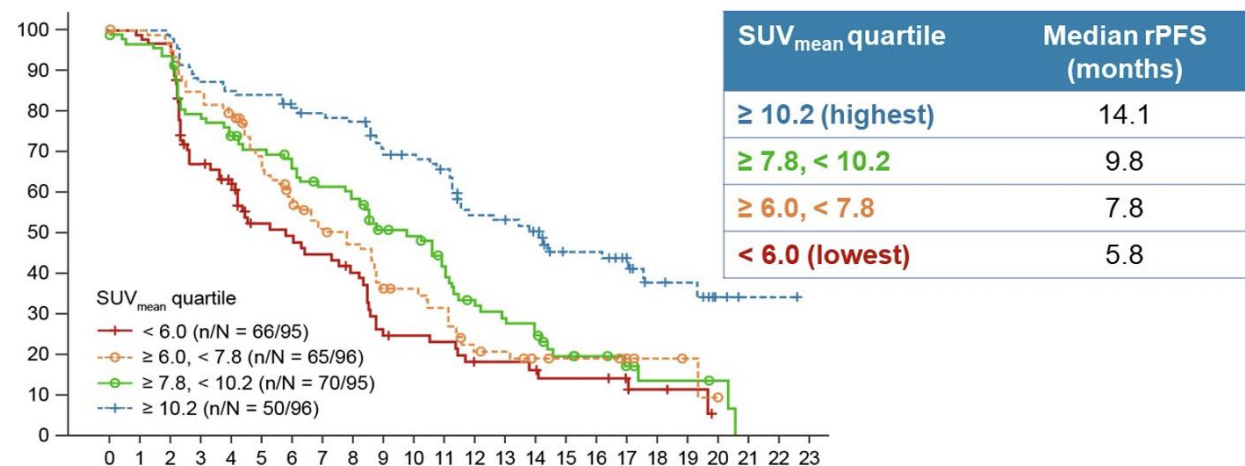
Regional lesion ROI



- Bone lesion
- Liver lesion
- Lymph node lesion

- 92.7% had positive ⁶⁸Ga-PSMA-11 uptake in bone
- 13.1% had positive ⁶⁸Ga-PSMA-11 uptake in liver

Higher whole-body SUV_{mean} was associated with prolonged rPFS



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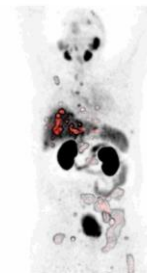
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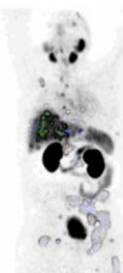
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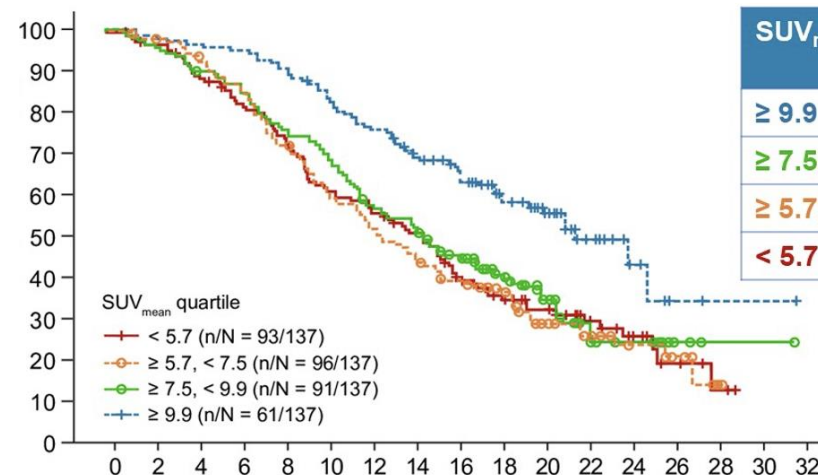
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Higher whole-body SUV_{mean} was associated with improved OS



SUV _{mean} quartile	Median OS (months)
≥ 9.9 (highest)	21.4
≥ 7.5, < 9.9	14.6
≥ 5.7, < 7.5	12.6
< 5.7 (lowest)	14.5

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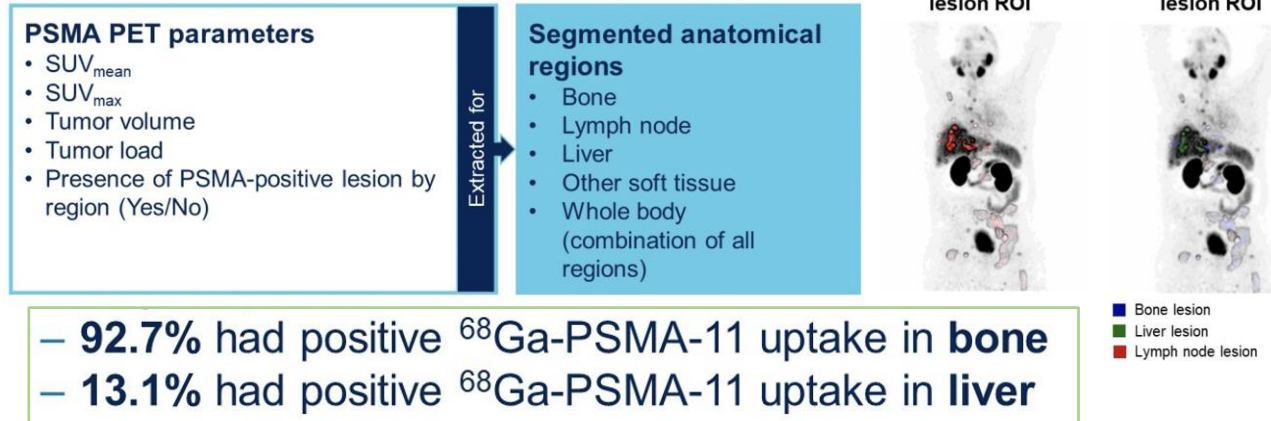
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Anatomical region	rPFS	OS	ORR	PSA50
	HR [95% CI], p value	HR [95% CI], p value	OR [95% CI], p value	OR [95% CI], p value
Bone	0.45 [0.26, 0.78], 0.004	0.38 [0.22, 0.67], < 0.001	3.06 [1.12, 8.38], 0.03	NS
Liver	0.48 [0.34, 0.67], < 0.001	0.49 [0.37, 0.66], < 0.001	2.55 [1.02, 6.34], 0.045	2.42 [1.21, 4.86], 0.013

Absence of PSMA+ lesions in bone and liver associated with a decreased risk of rPFS events and a decreased risk of death, and an increased odds of radiographic response

CÁNCER DE PRÓSTATA

CPRCm

➤ ¹⁷⁷Lu-PSMA-617: factores predictores

TheraP

N=200

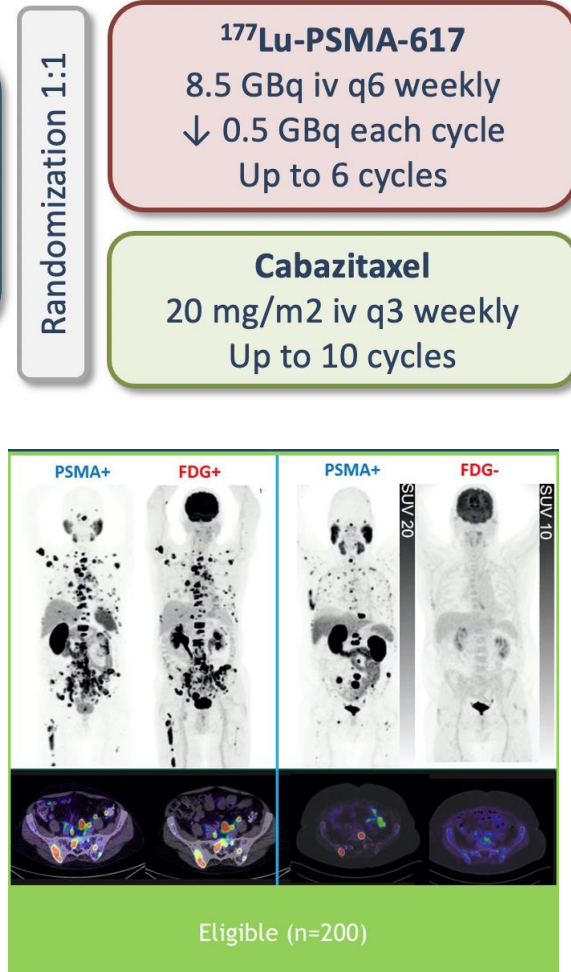
- mCRPC post docetaxel suitable for cabazitaxel
- PD with rising PSA and PSA ≥ 20
- ECOG 0-2
- Previous ARi therapy allowed
- PET eligibility criteria*

Primary endpoint: PSA₅₀-RR

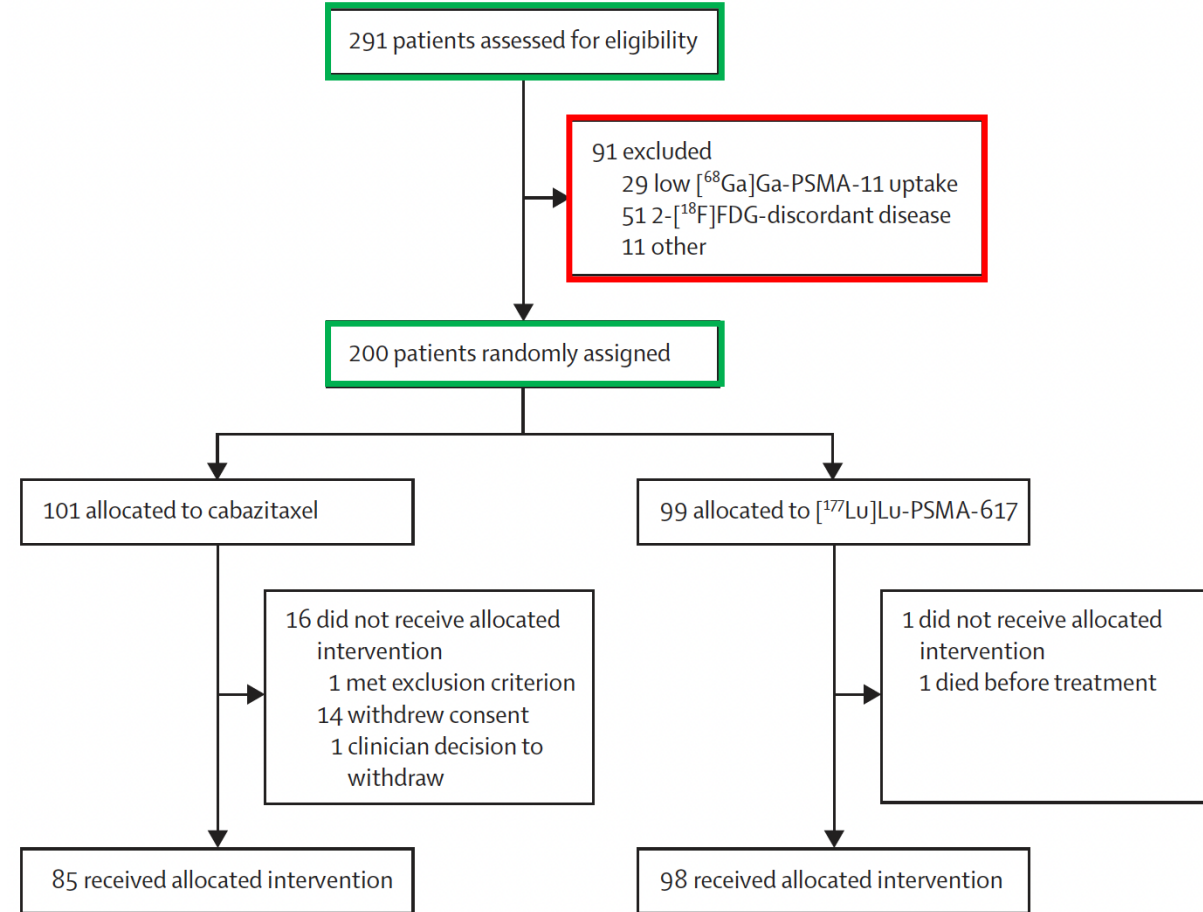
Median follow-up -> 18.4 months

⁶⁸Ga-PSMA + ¹⁸F-FDG PET/CT

- PSMA SUVmax ≥ 20 at any site
- Measurable sites SUVmax > 10
- No FDG positive/PSMA negative sites of disease
- Centrally reviewed



Screening and randomization



CÁNCER DE PRÓSTATA

CPRCm

➤ ¹⁷⁷Lu-PSMA-617: factores predictores

TheraP

N=200

- mCRPC post docetaxel suitable for cabazitaxel
- PD with rising PSA and PSA ≥ 20
- ECOG 0-2
- Previous ARi therapy allowed
- PET eligibility criteria*

Primary endpoint: PSA₅₀-RR

Median follow-up -> 18.4 months

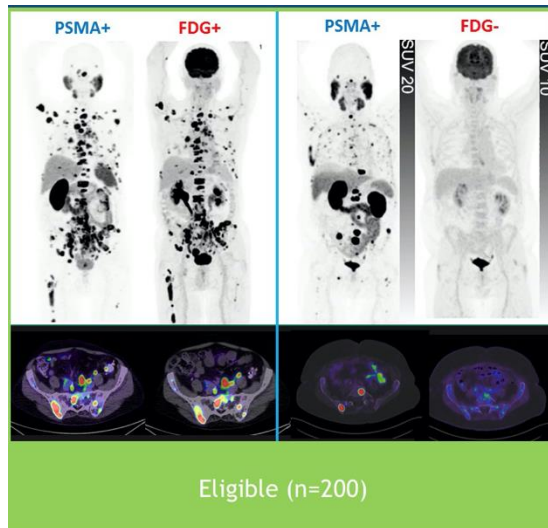
⁶⁸Ga-PSMA + ¹⁸F-FDG PET/CT

- PSMA SUVmax ≥ 20 at any site
- Measurable sites SUVmax > 10
- No FDG positive/PSMA negative sites of disease
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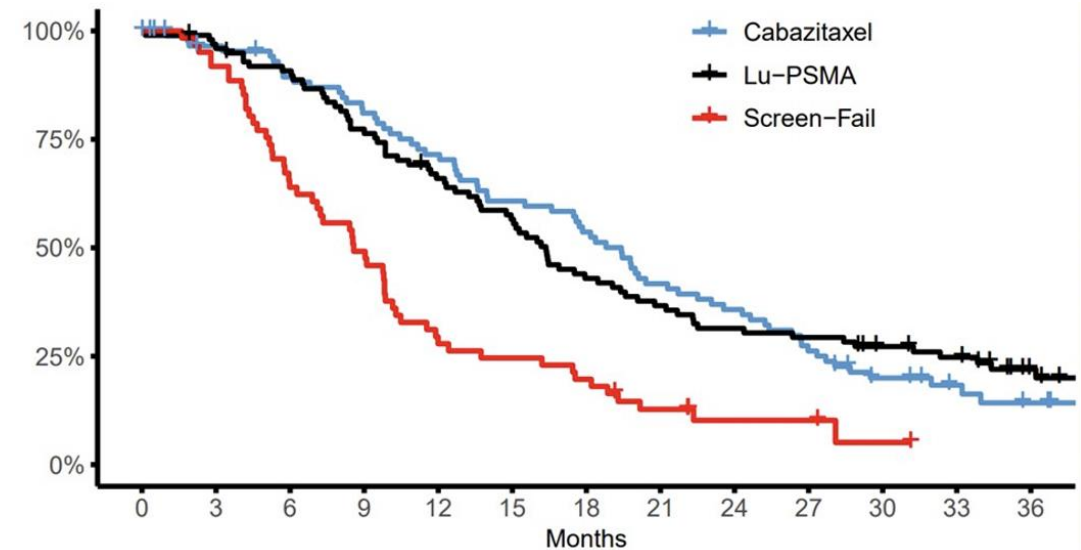
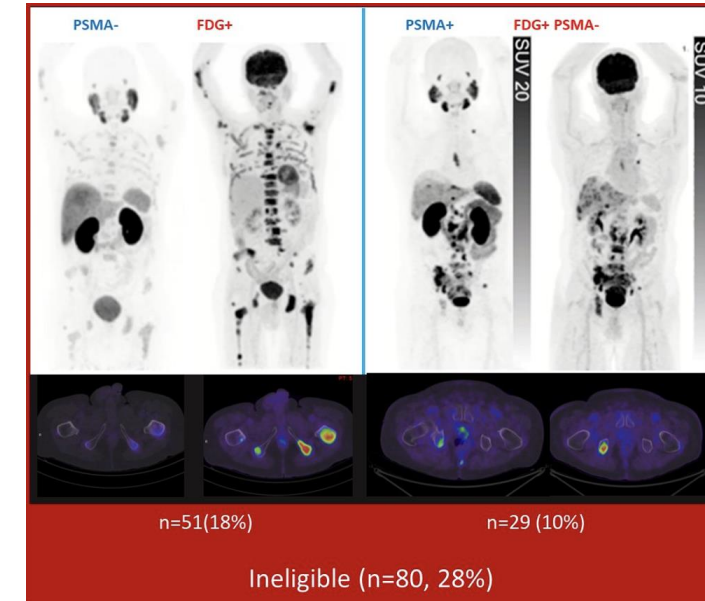
Randomization 1:1

¹⁷⁷Lu-PSMA-617
8.5 GBq iv q6 weekly
↓ 0.5 GBq each cycle
Up to 6 cycles

Cabazitaxel
20 mg/m² iv q3 weekly
Up to 10 cycles



OS in Screen Failures



CÁNCER DE PRÓSTATA

CPRCm

➤ ¹⁷⁷Lu-PSMA-617: factores predictores

TheraP

N=200

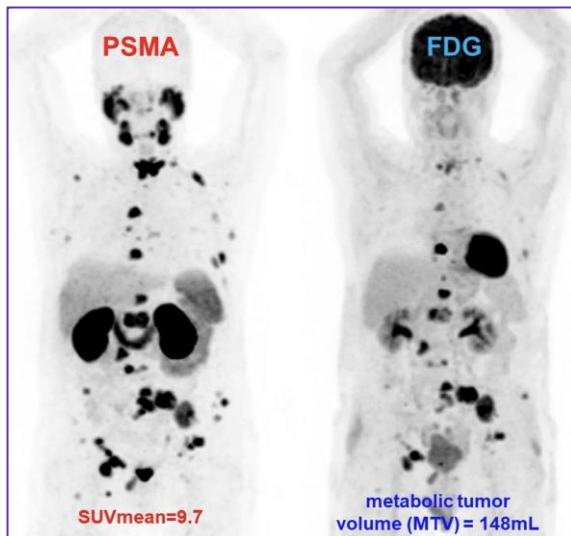
- mCRPC post docetaxel suitable for cabazitaxel
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- Previous ARi therapy allowed
- PET eligibility criteria*

Randomization 1:1

¹⁷⁷Lu-PSMA-617
8.5 GBq iv q6 weekly
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Up to 6 cycles

Cabazitaxel
20 mg/m² iv q3 weekly
Up to 10 cycles

Primary endpoint: PSA₅₀-RR

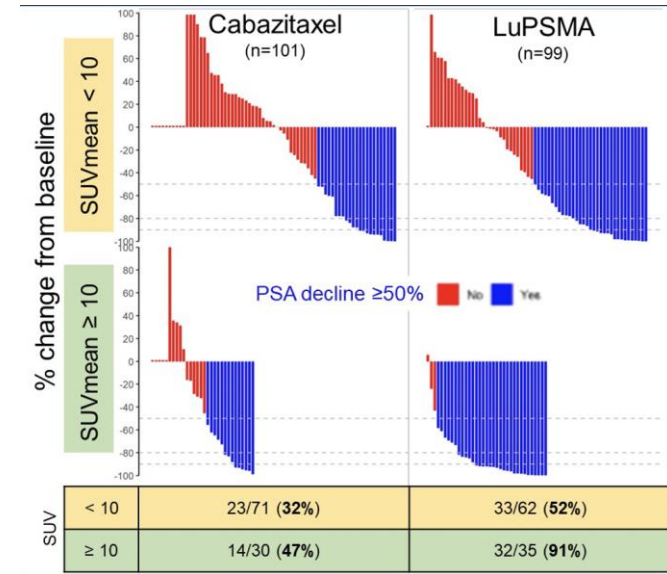


Baseline characteristics

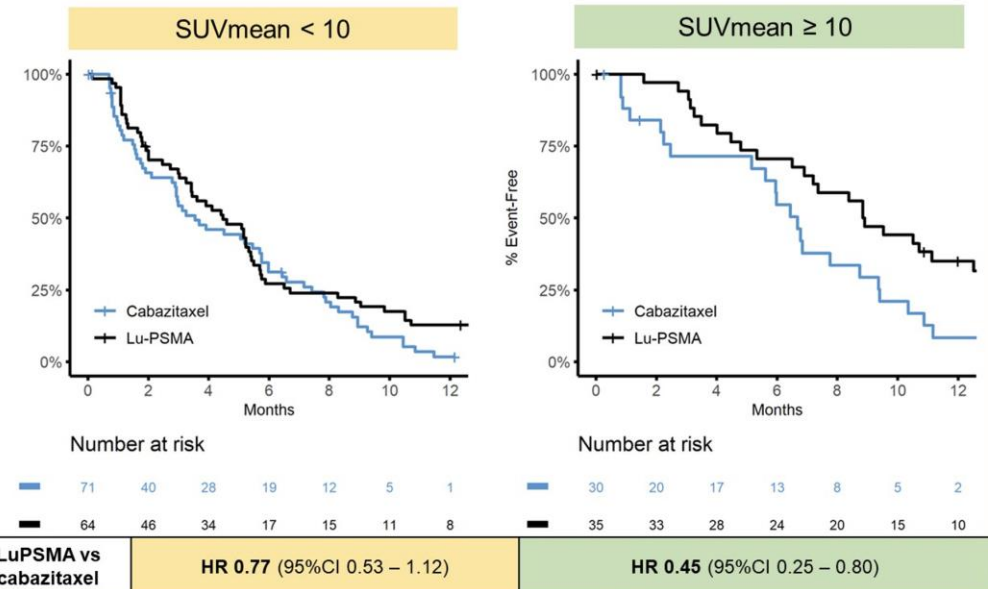
Characteristic	Cabazitaxel (n = 101)	Lu-PSMA (n = 99)
PSMA SUVmean ≥ 10	30/101 (30%)	35/99 (35%)
FDG volume ≥200 mL	30/101 (30%)	30/99 (30%)

Efficacy by PSMA intensity

PSA₅₀-RR



PSA PFS



CÁNCER DE PRÓSTATA

CPRCm

➤ ¹⁷⁷Lu-PSMA-617: factores predictores

TheraP

N=200

- mCRPC post docetaxel suitable for cabazitaxel
- PD with rising PSA and PSA ≥ 20
- ECOG 0-2
- Previous ARi therapy allowed
- PET eligibility criteria*

Randomization 1:1

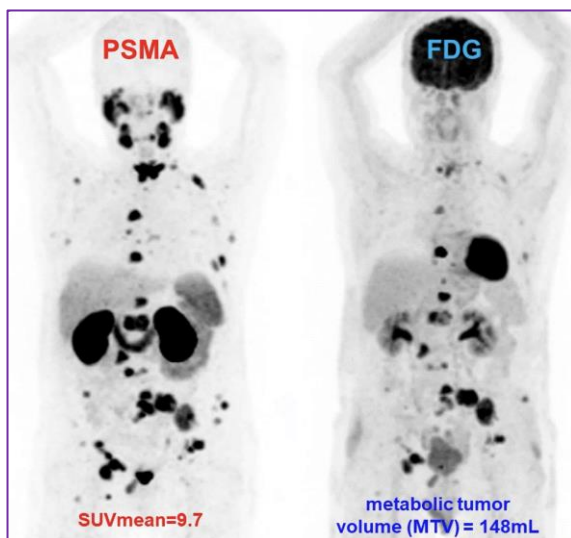
¹⁷⁷Lu-PSMA-617

8.5 GBq iv q6 weekly
↓ 0.5 GBq each cycle
Up to 6 cycles

Cabazitaxel

20 mg/m² iv q3 weekly
Up to 10 cycles

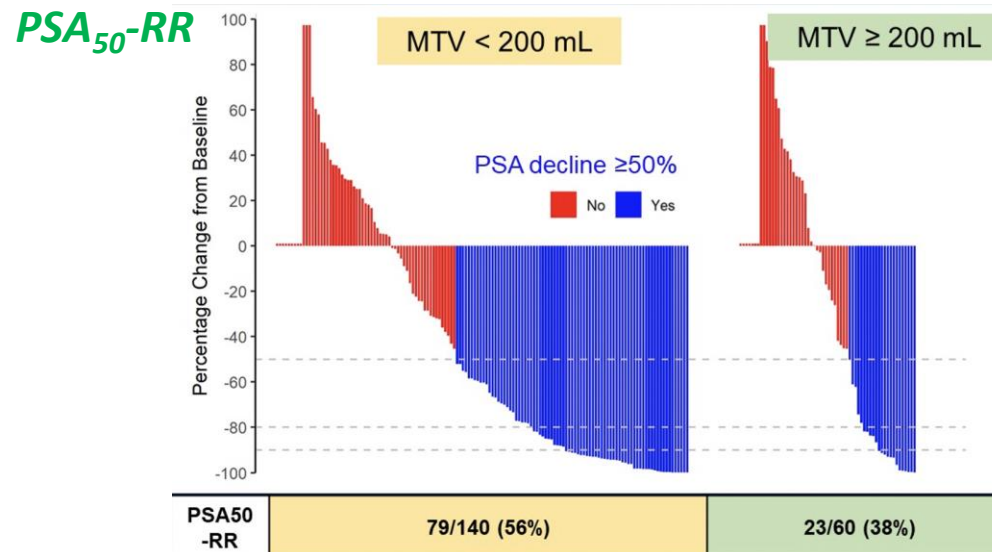
Primary endpoint: PSA₅₀-RR



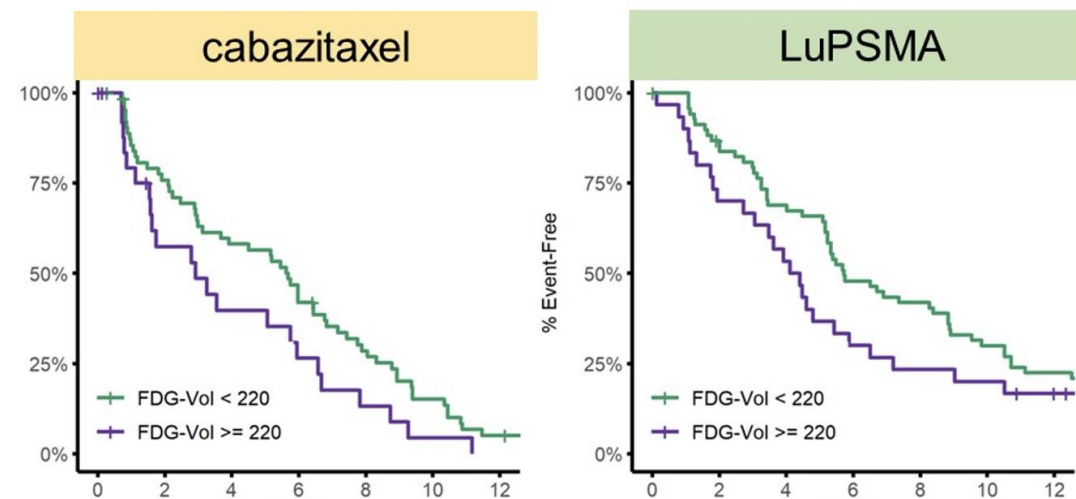
Baseline characteristics

Characteristic	Cabazitaxel (n = 101)	Lu-PSMA (n = 99)
PSMA SUVmean ≥ 10	30/101 (30%)	35/99 (35%)
FDG volume ≥ 200 mL	30/101 (30%)	30/99 (30%)

Efficacy by FDG volume



PFS



Innovando en el abordaje multidisciplinar
del **cáncer de próstata** en Andalucía

Málaga, **27 de septiembre de 2023**

Organizado por:

saom
Sociedad andaluza
de oncología médica



En colaboración con:



PERFIL DE PACIENTE:
Perfil de toxicidad

CÁNCER DE PRÓSTATA

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➤ ¹⁷⁷Lu-PSMA-617: efectos adversos

	Ensayo VISION (N=529)		Ensayo Thera-P (N=99)	
	Cualquier Gr	Gr ≥ 3	Cualquier Gr	Gr ≥ 3
Astenia	43,1%	5,9%	70%	5%
Boca seca	38,8%	0	60%	0
Ojos secos	-	-	30%	0
Náuseas	35,3%	1,3%	40%	1%
Anemia	31,8%	12,9%	19%	8%
Dolor	23,4%	3,2%	61%	11%
Artralgias	22,3%	1,1%	-	-
Pérdida de apetito	21,2%	1,9%	-	-
Estreñimiento	20,2%	1,1%	-	-
Diarrea	18,9%	0,8%	-	-
Vómitos	18,9%	0,9%	12%	1%
Trombopenia	17,2%	7,9%	18%	11%
Linfopenia	14,2%	7,8%	-	-
Leucopenia	12,5%	2,5%	10%	1%

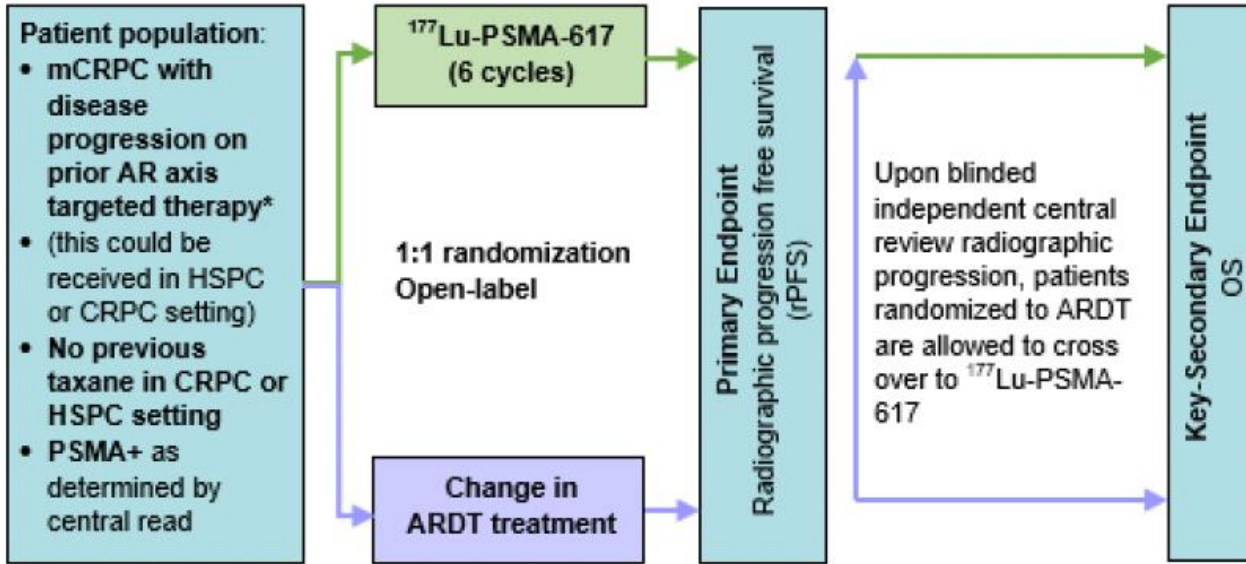
CÁNCER DE PRÓSTATA

CPRCm

➤ ¹⁷⁷Lu-PSMA-617

PSMAfore

N=450



Primary endpoint: rPFS

⁶⁸Ga-PSMA-11 PET/TC scan positive (central reader)

Novartis Pluvicto™ shows statistically significant and clinically meaningful radiographic progression-free survival benefit in patients with PSMA-positive metastatic castration-resistant prostate cancer

Dec 05, 2022

Ad hoc announcement pursuant to Art. 53 LR

- Phase III PSMAfore trial with Pluvicto™ met the primary endpoint of radiographic progression-free survival (rPFS) in PSMA-positive mCRPC who have been treated with androgen-receptor pathway inhibitor (ARPI) therapy¹
- Pluvicto becomes the first PSMA-targeted radioligand therapy to demonstrate clinical benefit in mCRPC patients before receiving taxane-based chemotherapy¹, addressing a significant unmet need²
- Findings to be presented at an upcoming medical meeting and submitted to regulatory authorities for approval in 2023
- Novartis is advancing a broad portfolio of radioligand therapies to treat cancer and is investing in manufacturing capacity to meet the growing global demand for treatment

Basel, December 5, 2022 – Today, Novartis announced the pivotal Phase III PSMAfore study with Pluvicto™ (INN: lutetium (¹⁷⁷Lu) vipivotide tetraxetan), a prostate-specific membrane antigen (PSMA)-targeted radioligand therapy, met its primary endpoint. Pluvicto demonstrated a statistically significant and clinically meaningful improvement in radiographic progression-free survival (rPFS) in patients with PSMA-positive metastatic castration-resistant prostate cancer (mCRPC) after treatment with androgen-receptor pathway inhibitor (ARPI) therapy, compared to a change in ARPI¹. No unexpected safety findings were observed in PSMAfore; data are consistent with the already-well established safety profile of Pluvicto^{1,3}.

CÁNCER DE PRÓSTATA

CPRCm

➤ ¹⁷⁷Lu-PSMA-617: Perfil del paciente candidato

- ✓ CPRCm
- ✓ Que haya recibido al menos 1 IEA y un taxano (pendiente de resultados de PSMAfore y líneas previas)
- ✓ Positivo por ⁶⁸Ga-PSMA-PET
- ✓ Buena función orgánica:
 - Renal: eGFR ≥ 50 mL/min/1.73 m²
 - Hepática:
 - BbT $< 2 \times$ LSN (≤ 3 si Sd Glibert)
 - GPT / GOT $\leq 3 \times$ LSN (≤ 5 si metástasis hepáticas)
 - Hematológica:
 - Hb 9.0 g/dL
 - Neutrófilos $\geq 1.5 \times 10^9$ /L
 - Plaquetas ≥ 100.000