

# Taller Guard: Medicina de precisión en cáncer de próstata avanzado

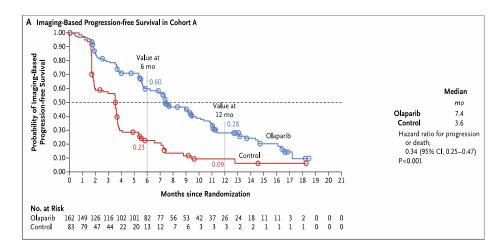
Dr. Miguel Angel Climent
Instituto Valenciano de Oncología (IVO)
Jefe Clínico Oncología Médica

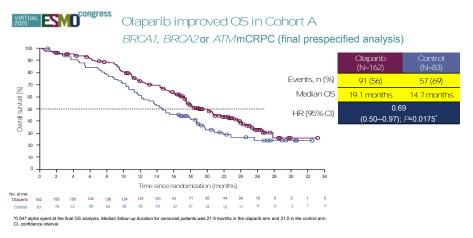
|                      | Olaparib                                 |                                |   | Rucaparib  |  | Niraparib   | Talazopa  | rib                    |  |
|----------------------|--|--------------------------------|---|--|--|---|---|------------------------|--|
| Trial                | TO PARP-A                                | TO PARP-B                      | PROFOUND  | TRITON2  | TRITON 3                                 | GALAHAD   | TALAPRO   | ZZ- First              |  |
| Phase                | Phse 2                                   | Phase 2<br>adaptative          | Phase 3   | Phase 2 single<br>arm  | Phase 3 (2:1)                            | Phase 2, Single<br>arm  | Phase 2<br>single arm   | F2 (2:1)               |  |
| Treatment            |  | Olaparib                       | Olaparib vs<br>abi/enza   | Rucaparib  | Rucaparib<br>vs<br>Abi/eza/Do<br>ce      | Niraparib   | Talazoparib   | Enza +-<br>Talazoparib |  |
| Scenario             | CPRCm pre-<br>treated (Taxane<br>& ARSI) | CPRCm pre-<br>treated (Taxane) | CPRCm pre-<br>treated (ARSI)  | CPRCm pre-<br>treated<br>(Taxane +<br>ARSI)  | CPRCm<br>pretreated<br>(ADT + 1<br>ARSI) | CRPCm pretreated (II (III) taxane III (III) ARSI)   | CPRCm pre-<br>treated * (27)<br>taxane (31) (27)<br>ARSI)   | CPHSm naive            |  |
| N                    | 50                                       | 98                             | 387   | 360  | Aprox 400                                | 291   | 89 (enf<br>medible)   | 54                     |  |
| Endpoint<br>1°       | ORR                                      | CR                             | PFSr (BRCA/ATM)   | ORR (BRCA)   | PFSr                                     | ORR (gBRCA /<br>BRCA<br>bialélico)  | ORR   | PCS-CR                 |  |
| HRR<br>alterations   | HRR (any)                                | HRR (any)                      | Cohort A: BRCA1, BRCA2, ATM Cohort B: BARD1, BRIP1, CDK12, CHEK1, CHEK2, FANC1, PALB2, PPPR2A, RAD51C, RAD51B, RAD51D, RAD54L | 15 genes<br>(germinal or<br>somatic, mono-<br>o bi-allelic):<br>BRCA1, BRCA2,<br>ATM, BARD1,<br>BRIP1, CDK12,<br>CHEK2, FANCA,<br>NBN, PALB2,<br>RAD51, RAD51B,<br>RAD51C,<br>RAD51D,<br>RAD54L) | BRCA1,<br>BRCA2 or<br>ATM mutant         | 8 genes (biallelic):<br>BRCA1, BRCA2,<br>ATM, FANCA,<br>PALB2, CHEK2,<br>BRUP1, HDAC2 o<br>BRCA germinal) | 11 genes (mono<br>or biallelic):<br>BRCA1, BRCA2,<br>CHECK2, ATM,<br>ATR, FANCA,<br>MLH1,<br>MREN1A, NBN,<br>PALB2, RAD51C) |                        |  |
| Molecular<br>Testing | Academic Lab                             | Academic Lab                   | Central Lab<br>(tissue)   | Local/central<br>(Blood /Tissue<br>)   | Local/Centr<br>al (Tissue)<br>and ctDNA  | Local/Central<br>(Tissue) and<br>ctDNA  | Central/local<br>(Foundation<br>Medicine)   | Academic<br>Lab        |  |

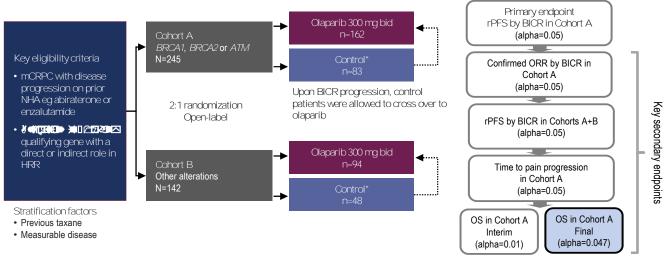
## **Profound**

#### Olaparib for Metastatic Castration-Resistant Prostate Cancer

J. de Bono, J. Mateo, K. Fizazi, F. Saad, N. Shore, S. Sandhu, K.N. Chi, O. Sartor, N. Agarwal, D. Olmos, A. Thiery-Vuillemin, P. Twardowski, N. Mehra, C. Goessl, J. Kang, J. Burgents, W. Wu, A. Kohlmann, C.A. Adelman, and M. Hussain

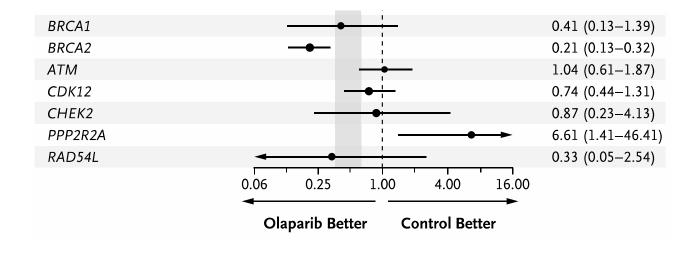






Statisticai analysis pian

Patients randomized between April 2017 and November 2018; DCO for final OS: 20 Warch 2020

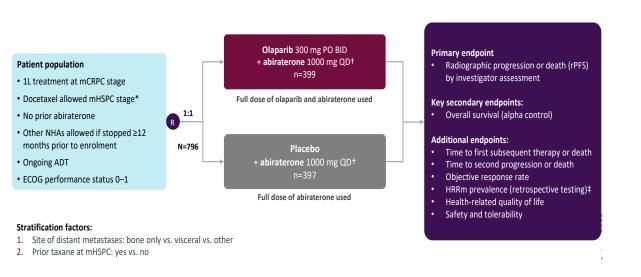


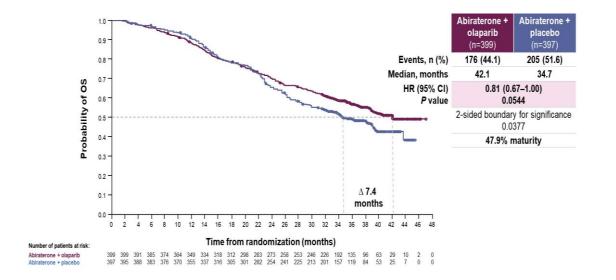
## Combinación iPARP + ARPI

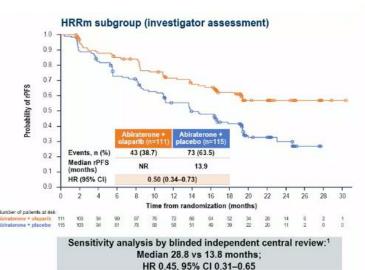
| Trial                  | Therapies                     | rPFS HRRm<br>(CI)   | rPFS BRCA1/2<br>(CI) | Prior ARPI | Prior taxane |
|------------------------|-------------------------------|---------------------|----------------------|------------|--------------|
| TALAPRO-2 <sup>1</sup> | Enzalutamide<br>+ Talazoparib | 0.45<br>(0.33-0.61) | 0.20<br>(0.11-0.36)  | 8%         | 29.4%        |
| PROpel <sup>2</sup>    | Abiraterone +<br>Olaparib     | 0.50<br>(0.34-0.73) | 0.23<br>(0.12-0.43)  | 0.15%      | 24.5%        |
| MAGNITUDE <sup>3</sup> | Abiraterone +<br>Niraparib    | 0.73<br>(0.56-0.96) | 0.53<br>(0.36-0.79)  | 3.1%       | 20.1%        |

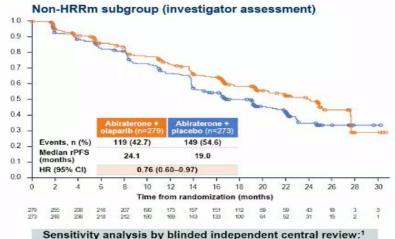
<sup>1</sup>Fizazi et al, ASCO GU, 2023 <sup>2</sup>Clarke et al, NEJM Evidence, 2022 <sup>3</sup>Chi et al, JCO, 2023

## Propel: abiraterona + olaparib



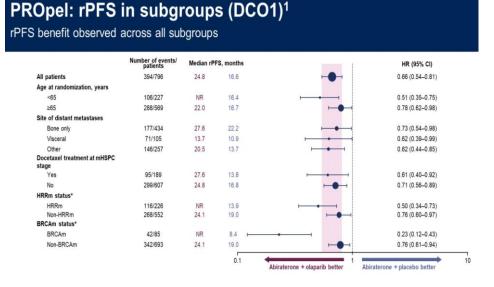




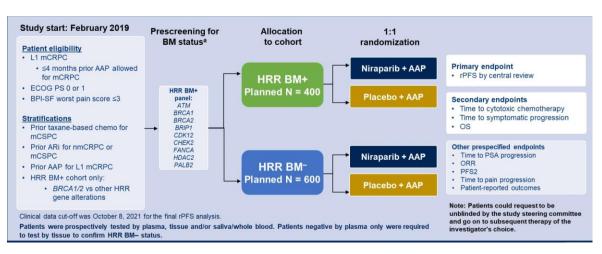


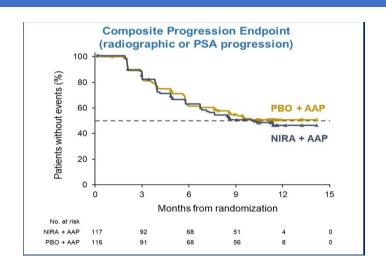
Median 27.6 vs 19.1 months;

HR 0.72, 95% CI 0.56-0.93

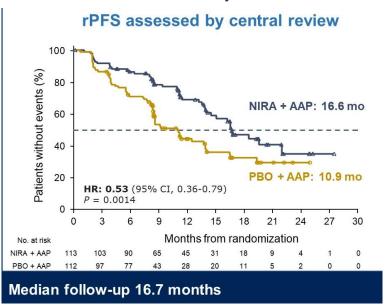


## MAGNITUDE: Niraparib + Abiraterona

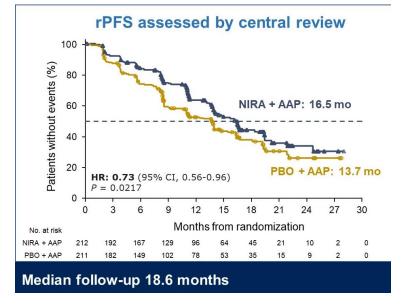


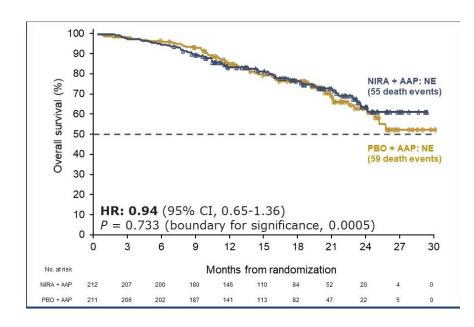


#### Población BRCA 1/2 mutada

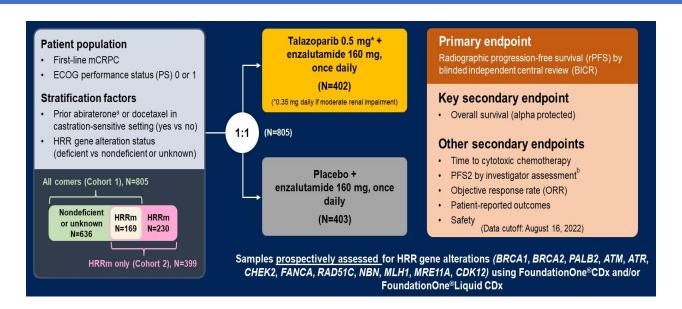


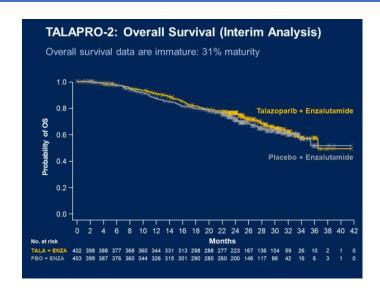
#### **Población HRR mutados**

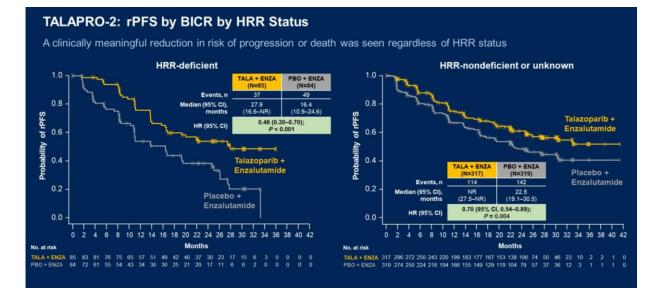


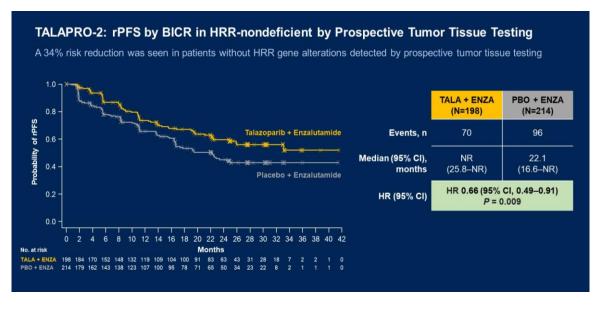


## Talapro 2: enzalutamida + talazoparib









### ARPi + PARPi phase 3 trials in mCRPC

|            |   | MAGN   | IITUD¹                           | PROF                                       | PEL <sup>2,3</sup>   | TALAPRO-24   |   |  |
|------------|---|--|----------------------------------|--|--|--|---|--|
|            | AR signaling inhibitor                          | Abiratero  | one (AA)                         | Abirater                                   | one (AA)   | Enzalutamide   |   |  |
|            | PARP inhibitor                                  | Nira   | oarib                            | Olap                                       | oarib  | Talaz  | oparib  |  |
|            | Inclusion criteria                              | 1L mC<br>BPI-4<br>D <b>SOLDHXX</b> A/<br>HRR a                       | o-□■<br>A for mCRPC              | ECOG<br>No prior AA<br>ARSi allowed if sto | 1L mCRPC<br>ECOG PFS 0-1<br>No prior AA in mCRPC<br>ARSi allowed if stopped ☐12 m. prior<br>All comers |  | CRPC<br>PFS 0-1<br>for mHSCP allowed<br>omers |  |
| DESIGN     | Molecular testing                               | Prosp<br>Plasma: Resolut<br>Tissue: Found                            | tion Biosciences                 | Tissue: Found                              | pective<br>lationOne®CDx<br>onOne®Liquid CDx   | Tissue: Found  | pective<br>dationOne®CDx<br>ionOne®Liquid CDx |  |
| stuby be   | Genes analyzed                                  | ATM, BRCA1, BRC<br>CHEK2, FANCA,                                     | A2, BRP1, CDK12,<br>HDAC2, PALB2 | CDK12, CHEK1,<br>PALB2, RAD51B,            | A2, BARD1, BRIP1,<br>CHEK2, FANCL,<br>RAD51C, RAD51D,<br>D54L  | ATM, ATR, BRCA1, BRCA2, CHEK2,<br>FANCA, MLH1, MRE11A, NBN, PALB2,<br>RAD51C |   |  |
| 5          | Stratification factors                          | Prior docetaxe<br>Prior ARSi for nm<br>Prior AA for<br>BRCA1/2 vs no | CRPC or mHSPC                    |  | etastases<br>e at mHSCP  | HRR status Prior AA or docetaxel for mHSCP                                   |   |  |
|            | Primary endpoint rPFS by central review in HRRm |  |                                  | rPFS by investig                           | ator in all comers   | rPFS by central reviewer in all comers                                       |   |  |
|            |   | Experimental arm   | Control arm                      | Experimental arm                           | Control arm  | Experimental arm   | Control arm                                   |  |
|            | Patients  | 212  | 211                              | 399  | 397  | 402  | 403   |  |
|            | HRRm  | 100%   | 100%                             | 28%  | 29%  | 21%  | 21%   |  |
|            | Age, median (range), y                          | 69 (45-199)  | 69 (43-88)                       | 69 (43-91)                                 | 70 (46-88)   | 71 (41-90)   | 71 (36-91)                                    |  |
| z          | PSA at study entry (ng/mL)                      | 21.4 (0-4826.5)  | 17.4 (0.1-4400)                  | 17.9 (6.09-67)                             | 16.81 (6.26-53.3)  | 18.2 (0.1-2796)  | 16.2 (0.1-2285)                               |  |
| POPULATION | ECOG<br>0<br>1                                  | 130 (61%) 146 (69%)<br>82 (39%) 65 (31%)                             |                                  | 286 (72%)<br>112 (28%)                     | 272 (68%)<br>124 (31%)   | 259 (64%)<br>143 (36%)   | 271 (67%)<br>132 (33%)                        |  |
| 90         | Site of metastases<br>Bone<br>Visceral          | 183 (86.3%)<br><b>51 (24.1%)</b>                                     | 170 (80.6%)<br>39 (18.5%)        | 349 (88%)<br>55 (14%)                      | 339 (85%)<br>60 (15%)  | 349 (87%)<br>57 (14%)  | 342 (85%)<br>77 (19%)                         |  |
|            | Prior docetaxel mHSPC                           | 41 (19.3%) 44 (20.9%   |                                  | 90 (23%) 89 (22%)                          |  | 86 (21%  | 93 (23%)                                      |  |
|            | Prior ARPi for nmCRPC/mHSPC                     | 8 (3.8%)   | 5 (2.4%)                         | 1 (0.3%)                                   |  | 21 (5%)  | 25 (6%)                                       |  |
|            | Prior ARPi for L1 m CRPC                        | 50 (23.6%)   | 48 (22.7%)                       | 0  | 0  | 0  | 0   |  |

#### ARPi + PARPi

#### rPFS benefit: BRCA > HRRm

|          |                               | MAGNITUD <sup>1</sup>  | PROPEL <sup>2,3</sup>  | TALAPRO-24  |
|----------|-------------------------------|--|--|---|
|          | rPFS all comers               |  | 24.8 vs 16.6 months<br>HR 0.66 (95% CI 0.54-0.81)<br>P<0.001 | NR vs 21.9 months<br>HR 0.63 (95% Cl 0.5-0.78)<br>P<0.001     |
|          | rPFS BRCA subgroup            | <b>16.6 vs 10.9 months</b><br><b>HR 0.53</b> (95%Cl 0.36-0.79)<br>P=0.0014 | NR vs 8.4 months<br>HR 0.23 (95% CI 0.12-0.43)               | Not reported  |
| ACY      | rPFS HRRm subgroup            | <b>16.5 vs 13.7 months</b><br><b>HR 0.73</b> (95%Cl 0.56-0.96)<br>P=0.0217 | NR vs 13.9 months<br>HR 0.50 (95% CI 0.34-0.73)              | 27.9 vs 16.4 months<br>HR 0.46 (95% CI 0.3-0.7)<br>P<0.001    |
| EFFICACY | rPFS non-HRR/unknown          |  | 24.1 vs 19 months<br>HR 0.76 (95%Cl 0.60-0.97)               | NR vs 22.5 months<br>HR 0.70 (95% CI 0.54-0.89)<br>P<0.001    |
|          | Time to PSA progression       | 18.5 vs 9.3 months<br>HR 0.57 (95% CI 0.43-0.76)<br>P<0.001                | NR vs 12 months<br>HR 0.55 95% CI 0.45-0.68)                 | 26.7 vs 17.5 months<br>HR 0.72 (95% CI 0.58-0.89)<br>P=0.002  |
|          | Objective Response Rate (ORR) | <b>60% vs 28%</b><br>P<0.001<br>CR: 22% vs 18%; PR 38% vs 34%              | 58% vs 48%<br>P=0.041<br>CR: 4% vs 6%; PR 54% vs 42%         | <b>62% vs 44%</b><br>P=0.005<br>CR: 38% vs 18%; PR 24% vs 26% |

This is not a head-to-head comparison and the trials cannot be directly compared

1. Presented at ASCO GU 2022 by Dr K Chi; 2. Clarke et al, NEJM Evid 2022; 3. Presented by Dr Saad at ESMO 2022; 4. Presented by Dr Agarwal at ASCO 2023







#### ARPi + PARPi

#### rPFS benefit: BRCA > HRRm > non-HRRm

|          |                               | MAGNITUD1   | PROPEL <sup>2,3</sup>  | TALAPRO-24   |
|----------|-------------------------------|---|--|--|
|          | rPFS all comers               |   | 24.8 vs 16.6 months<br>HR 0.66 (95% CI 0.54-0.81)<br>P<0.001 | NR vs 21.9 months<br>HR 0.63 (95% Cl 0.5-0.78)<br>P<0.001                |
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#### ARPi + PARPi

#### rPFS benefit: BRCA > HRRm > all comers > non-HRRm

|          |                               | MAGNITUD1   | PROPEL <sup>2,3</sup>  | TALAPRO-24  |
|----------|-------------------------------|---|--|---|
|          | rPFS all comers               | -   | <b>24.8 vs 16.6 months</b><br><b>HR 0.66</b> (95% CI 0.54-0.81)<br>P<0.001 | NR vs 21.9 months<br>HR 0.63 (95% Cl 0.5-0.78)<br>P<0.001     |
|          | rPFS BRCA subgroup            | 16.6 vs 10.9 months<br>HR 0.53 (95%Cl 0.36-0.79)<br>P=0.0014  | NR vs 8.4 months<br>HR 0.23 (95% CI 0.12-0.43)                             | Not reported  |
| ACY      | rPFS HRRm subgroup            | 16.5 vs 13.7 months<br>HR 0.73 (95%Cl 0.56-0.96)<br>P=0.0217  | NR vs 13.9 months<br>HR 0.50 (95% CI 0.34-0.73)                            | 27.9 vs 16.4 months<br>HR 0.46 (95% CI 0.3-0.7)<br>P<0.001    |
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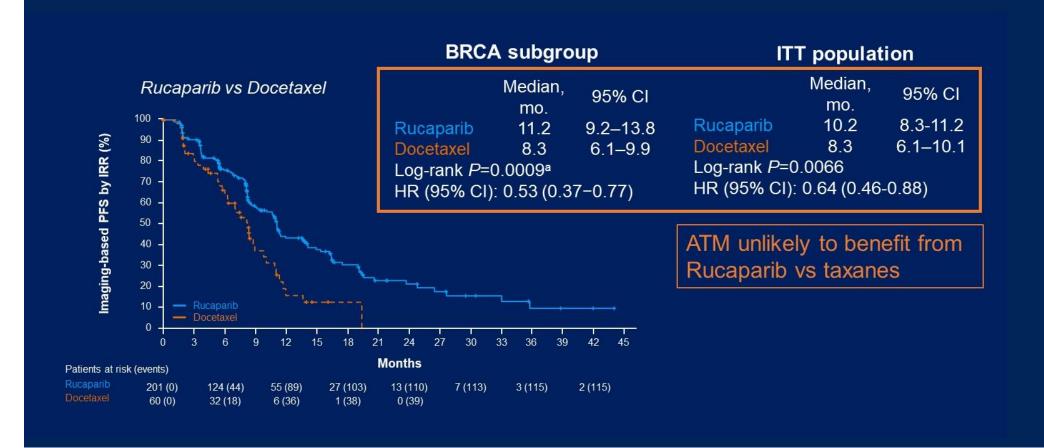
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#### **How do PARPi compare with taxanes?**



## Combinación iPARP+ ARPI en CPHS

| Trial Name | PARP<br>inhibitor | AR pathway inhibitor | Radiotherapy    | Biomarker<br>Selected | Phase | Trial Number |
|------------|-------------------|----------------------|-----------------|-----------------------|-------|--------------|
| AMPLITUDE  | Niraparib         | Abiraterone          | No              | Yes                   | Ш     | NCT04497844  |
| FAALCON    | Olaparib          | Abiraterone Yes      |                 | No                    | Ш     | NCT04748042  |
| TALAPRO-3  | Talazoparib       | Enzalutamide         | Enzalutamide No |                       | III   | NCT04821622  |
| ZZ-First   | Talazoparib       | Enzalutamide         | No              | No                    | II    | NCT04332744  |
|            | Talazoparib       | Abiraterone          | No              | No                    | II    | NCT04734730  |
|            | Olaparib          | Abiraterone          | No              | Yes                   | II    | NCT05167175  |
| ASCLEPIuS  | Niraparib         | Abiraterone          | Yes             | No                    | 1/11  | NCT04194554  |
|            | Niraparib         | Abiraterone          | Yes             | No                    | Ш     | NCT04947254  |
| GUNS       | Niraparib         | Abiraterone          | No              | Yes                   | II    | NCT04812366  |

## Situación actual de iparps en cancer de próstata

- En CPRC ya está todo dicho o debemos avanzar?
- Cuáles son la preguntas que quedan por responder?
- Cómo podemos plantearnos contestarlas?
- Propuestas

Y en CPHS?

## AVPC: aggressive variant prostate cáncer

- Patients must meet at least one of the following AVPC criteria:
  - 1.- Histologically proven small cell (neuroendocrine) prostate carcinoma
  - 2.- Exclusive visceral metastases.
  - 3.- Predominantly lytic bone metastases identified by plain x-ray or CT scan.
  - 4.- Bulky (>/= 5cm in longest dimension) lymphadenopathy or high-grade tumor mass in prostate/pelvis.
  - 5.- Low PSA (</= 10ng/mL) at initial presentation (prior to androgen ablation or at symptomatic progression in the castrate-setting) plus high volume (>/= 20) bone metastases.
  - 6.- Elevated serum lactate dehydrogenase (>/=2 x upper limit of normal) or elevated serum carcinoembryonic antigen (>/= 2 x upper limit of normal) in the absence of other etiologies.
  - 7.- Short interval (</= 180 days) to castrate-resistant progression following initiation of hormonal therapy.
  - 8.- Known loss or mutation (by CLIIA certified molecular testing, IHC and/or DNA sequencing) in at least 2 of the following: Tp53, RB1 and PTEN.

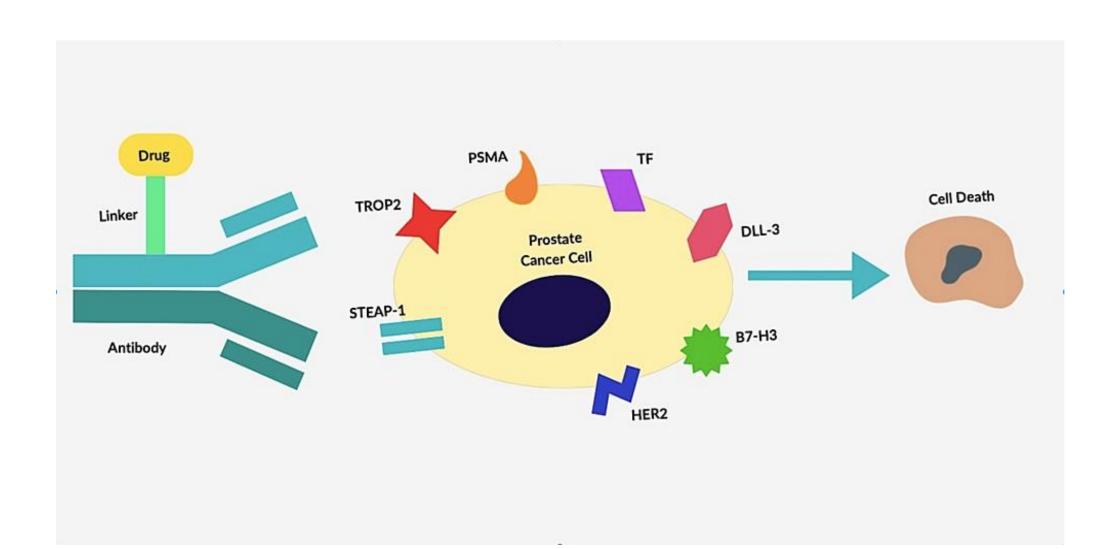
## Propuestas para AVPC

• En el contexto de CPRC?

• En el contexto de CPHS?

• Profundización en estudios moleculares para caracterizar mejor esta población ?

### Antibody drugs conjugates and targets in prostate cancer cells



## Antibody drugs conjugates and targets in prostate cancer cells: trials results

| Study/reference  | Report         | Phase                                  | Enrollment (n) | Antibody<br>target    | Intervention  | Payload  | Disease<br>setting | Inclusion criteria                              | Histology  | Primary<br>endpoint | ORR<br>(%)  | Median<br>OS    |
|--|----------------|--|----------------|-----------------------|---|--|--------------------|---|--|---------------------|-------------|-----------------|
| HAMPHERENT PROPERTY  |                | 1995-                                  | CTVe           | F <b>-4 €</b> *8"     | <b>₹♦€</b> 8 <b>€\$</b> €8 ~                                    |  |                    |   | <b>F.E.D. ◆E.#</b> N.<br><b>M.E.D.</b> ©         | P. ♣ Ø              |             |                 |
| <b>6&gt;€&gt; • &amp;</b> \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | <b>闽广</b> 正参   | 192                                    | 墨圖             | P <b>- ♦ ●</b> ***    | ◆© B©I  |  |                    | 9 X M23 M COLO)AN + XCH CH<br>XCO CHANGE A XCO  | 19 <b>20) •2•</b> 10<br>19 <b>20) •</b> 10 €3    | F≃ <b>♦</b> 8′      | <b>1</b> 2  | <b>™</b>        |
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## Antibody drugs conjugates and targets in prostate cancer cells: trials in progress

| Study/reference     | Launch | Phase | Antibody<br>target | Intervention   | Payload       | Disease setting   | Histology             | Primary<br>endpoint     | Activity               |
|---------------------|--------|-------|--------------------|--|---------------|---|-----------------------|-------------------------|------------------------|
| NCT04381832         | 2020   | 1/11  | TROP-2             | Sacituzumab-Govitecan + adenosine receptor antagonist combinations | SN-38         | mCRPC after progression on abiraterone and < 2 prior lines of chemotherapy                | Prostate<br>carcinoma | ORR                     | Active, in recruitment |
| NCT03725761<br>[15] | 2018   | 1/11  | TROP-2             | IMMU-132   | SN-38         | mCRPC > 1 prior line of enzalutamide or abiraterone                                       | Prostate<br>carcinoma | PSA<br>response<br>rate | Active, in recruitment |
| NCT05489211<br>[16] | 2022   | 1/11  | TROP-2             | Dato-DXd monotherapy and in combination                            | DXd           | Advanced or metastatic solid tumors   | Multiple              | ORR                     | Active, in recruitment |
| NCT04644068         | 2020   | 1/11  | HER2/TROP-<br>2    | Trastuzumab-DXd + PARPi/Dato-DXd<br>+ PARPi                        | DXd           | Advanced or metastatic solid tumors   | Multiple              | Safety                  | Active, in recruitment |
| NCT02465060<br>[18] | 2015   | II    | HER2               | Ado-trastuzumab emtansine  | Maytansinoid- | Advanced refractory solid tumors/lymphomas/multiple myeloma                               | Multiple              | ORR                     | Active, in recruitment |
| NCT03602079         | 2018   | II    | HER2               | A166   | Duostatin-5   | Refractory locally advanced/metastatic solid tumors with HER2 expression or amplification | Multiple              | Safety                  | Active, not recruiting |
| NCT03729596<br>[20] | 2018   | Ш     | В7-Н3              | MGC018   | Duocarmycin   | Advanced solid tumors   | Multiple              | Safety                  | Active, in recruitment |

## Nuevos antiandrógenos en CPRC

TAS3681: AR antagosnist for full length and AR-splice variant

Phase I/II

Cirtuvivint: pan CLK/DYRK inhibitor

Phase I/II

En combinación con ARSI

• EPI-7386: small molecule targetin AR-N terminal domain (NYH)

Phase I

 Bavdegalutamide (ARV-110): PROTAC protein degrader, targeting wild-type and mutant AR

Phase I/II

• ODM-208: non-steroidal CYP11A1 inhibitor: active in LBD mutation

Phase II