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# **MEETING SUMMARY**

## **ASCO 2020, VIRTUAL MEETING**

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**HIGHLIGHTS FROM GU NURSES CONNECT**  
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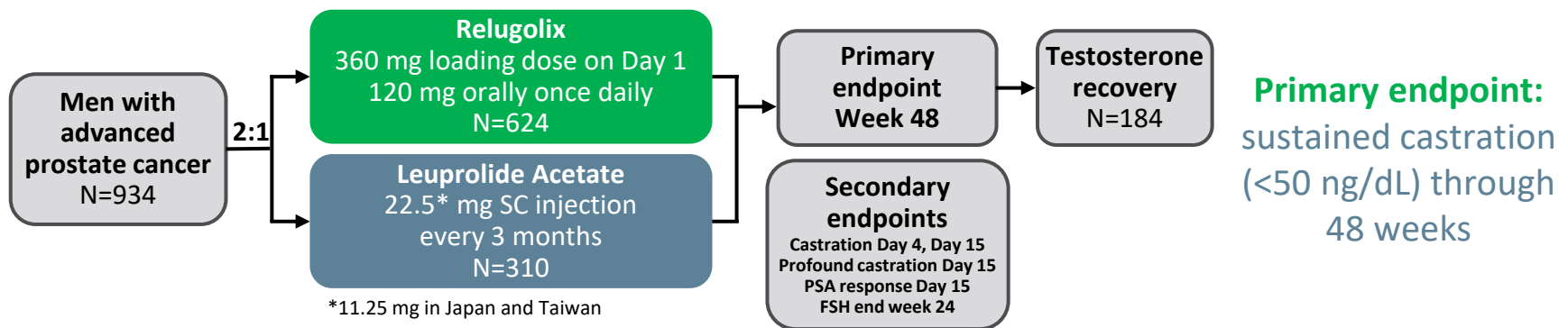
**HERO PHASE 3 TRIAL: RESULTS  
COMPARING RELUGOLIX, AN ORAL  
GnRH RECEPTOR ANTAGONIST,  
VERSUS LEUPROLIDE ACETATE FOR  
ADVANCED PROSTATE CANCER**

**Shore N, et al.**

**ASCO 2020. Abstract #5602. Oral presentation**

# HERO STUDY: BACKGROUND

- Androgen deprivation therapy (ADT) is the **mainstay of treatment for advanced or metastatic prostate cancer**<sup>1</sup>
- Gonadotropin-releasing hormone (GnRH) agonists, such as leuprolide acetate, **are the most commonly used ADT for medical castration. However they cause an initial testosterone surge** with a delayed onset of castration and require depot injection<sup>2</sup>
- **Relugolix is an oral, GnRH receptor antagonist** in development for the treatment of men with advanced prostate cancer<sup>3,4</sup>
- **HERO, a global, pivotal, phase 3 trial**

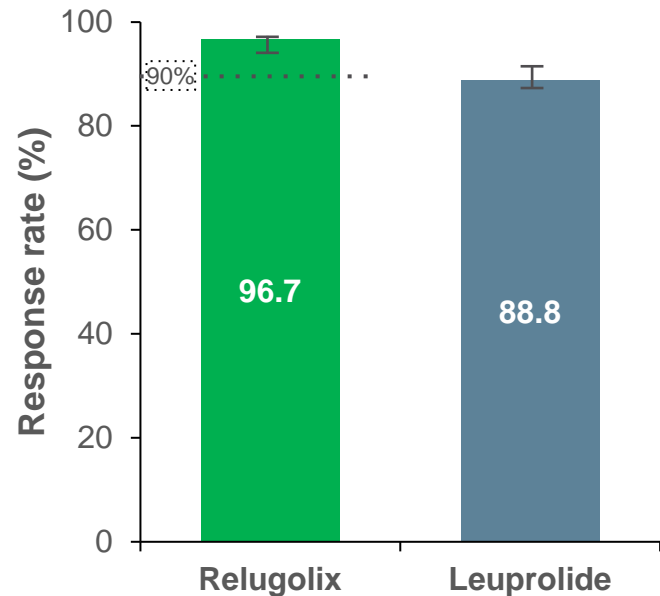


ADT, androgen deprivation therapy; FSH, follicle stimulating hormone; GnRH, gonadotropin-releasing hormone; PSA, prostate specific antigen; SC subcutaneous

# HERO STUDY: RESULTS



## PRIMARY ENDPOINT



Primary endpoint success criterion:  
Relugolix lower boundary of 95% CI  $\geq 90\%$

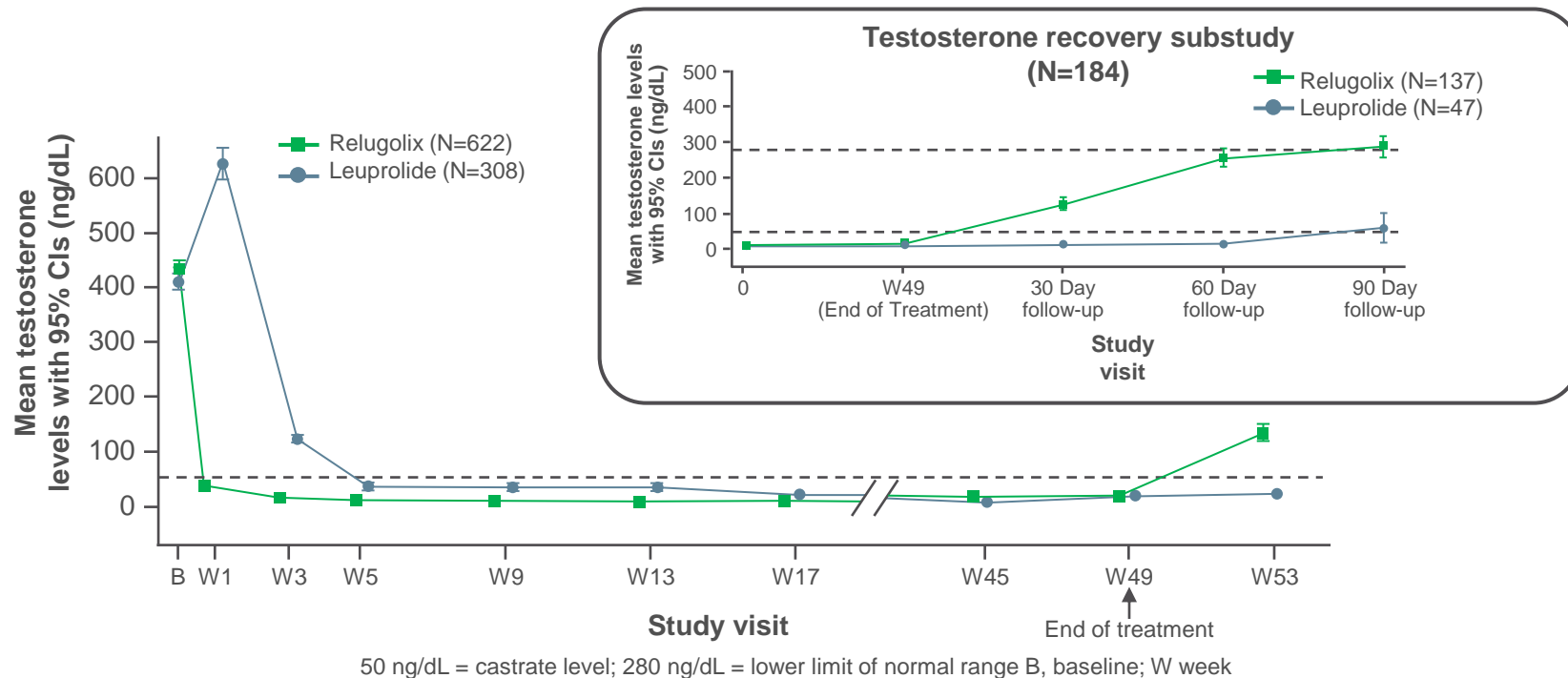
Difference between treatments demonstrated non-inferiority and superiority of relugolix to leuprolide [7.9%; 95% CI: 4.1-11.8%,  $p < 0.001$ ]

## SECONDARY ENDPOINTS

Secondary Endpoints	Relugolix (N=622) %	Leuprolide (N=308) %	P-value
Cumulative probability of testosterone suppression to $< 50$ ng/dL at Day 4	56.0	0	$< 0.001$
Cumulative probability of testosterone suppression to $< 50$ ng/dL at Day 15	98.7	12.0	$< 0.001$
Proportion of patients with PSA response at Day 15 followed with confirmation at Day 29	79.4	19.8	$< 0.001$
Cumulative probability of profound testosterone suppression to $< 20$ ng/dL at Day 15	78.4	1.0	$< 0.001$
Mean of FSH level at end of week 24, IU/L	1.72	5.95	$< 0.001$

# HERO STUDY: RESULTS

## TIME COURSE OF TESTOSTERONE



## SAFETY SUMMARY

- Safety and tolerability profiles of relugolix and leuprolide were similar
- MACE were experienced by 2.9% relugolix group versus 6.2% leuprolide group

# HERO STUDY: CONCLUSIONS



- Relugolix achieved castration as early as Day 4
- Compared to leuprolide, **relugolix achieved superiority** for:
  - **Sustained castration** rates
  - **Castration** (<50 ng/dL) and **profound castration** (<20 ng/dL) by Day 15
  - **PSA response** (decrease of >50%) by Day 15
- **Testosterone recovery within normal range** (54% vs 3%) at 90 days
- Relugolix treatment was **well tolerated**
  - **54% reduction in the risk of MACE with relugolix** treatment compared with leuprolide

## Take home messages:

- Discuss the Pro's and con's of treatment options with patients (inc. cost-effectiveness and adherence)
- Consider relugolix in patients with severe hypersensitivity reactions to injections and significant cardiovascular history
- Possibly use as intermittent ADT given the fast testosterone recovery



# **PHASE 2 TRIAL OF LENVATINIB PLUS PEMBROLIZUMAB FOR DISEASE PROGRESSION AFTER PD-1/PD-L1 IMMUNE CHECKPOINT INHIBITOR IN mccRCC**

**Lee C-H, et al.**

**ASCO 2020. Abstract #5008. Oral presentation**

# STUDY 111/KEYNOTE-146: BACKGROUND

## RENAL CELL CARCINOMA COHORT



- Modulation of **vascular endothelial growth factor (VEGF)–mediated immune suppression** via angiogenesis inhibition **may augment the activity of immune checkpoint inhibitors (ICI)**<sup>1</sup>
- **Lenvatinib (LEN)**, a multikinase **VEGF receptor inhibitor, plus everolimus is approved for advanced renal cell carcinoma (RCC)** after one prior anti-angiogenic therapy.<sup>2</sup> **Pembrolizumab (PEM)**, an **anti-PD-1 antibody, plus axitinib is approved as first-line therapy of advanced RCC**<sup>3</sup>
- **Study 111/KEYNOTE-146** is a multicentre, open-label, single-arm phase 1b/2 trial evaluating the efficacy and safety of **LEN (20 mg/d)** in combination with PEM (200 mg intravenously every 3 weeks) in patients with selected solid tumours<sup>4</sup>
- **Results of the expansion cohort (n=104) of mccRCC** patients from study 111/KEYNOTE-146 who had progressed after ICI therapy are reported<sup>4</sup>
  - **Primary endpoint:** Objective response rate (ORR) at week 24 by irRECIST
  - **Secondary endpoints:** ORR, PFS, OS, safety and tolerability

# STUDY 111/KEYNOTE-146: RESULTS

## RENAL CELL CARCINOMA COHORT



### EFFICACY DATA

	irRECIST N=104
<b>ORR (week 24), % (95% CI)</b>	51 (41-61)
<b>ORR, % (95% CI)</b>	55 (45-65)
<b>Best objective response, %</b>	
Partial response	55
Stable disease	36
Progressive disease	5
Not evaluable	5
<b>Median DOR, months (95% CI)</b>	12 (9-18)
<b>Median PFS, months (95% CI)</b>	11.7 (9.4-17.7)
<b>Median OS, months (95% CI)</b>	NR (16.7-NR)

### SAFETY DATA

	N=104
<b>Any TRAEs</b>	99%
<b>TRAEs leading to treatment discontinuation</b>	15%
<b>TRAEs ≥ 20% of patients (any grade)*</b>	
Fatigue	53%
Diarrhoea	46%
Proteinuria	39%
Hypertension	34%
Dysphonia	35%
Nausea	32%
Stomatitis	32%
Arthralgia	29%
Decreased appetite	28%
Palmar-plantar erythrodysesthesia syndrome	25%
Hypothyroidism	23%
Headache	22%

\*Grade 5 TRAEs: upper gastrointestinal haemorrhage and sudden death

CI, confidence interval; DOR, duration of response; irRECIST, Immune-related Response Evaluation Criteria In Solid Tumours; NR, not reached; ORR, objective response rate; OS, overall survival; PFS, progression free survival; TRAE, treatment related adverse event

# STUDY 111/KEYNOTE-146: CONCLUSIONS



## RENAL CELL CARCINOMA COHORT

- **Lenvatinib plus pembrolizumab** demonstrated **promising anti-tumour activity in patients with mccRCC** with disease progression following PD-1/PD-L1 ICI therapy
- **Adverse event profile** of the combination treatment was **consistent with other studies**. No new safety signals were detected
- A phase 3 study is evaluating the combination for first-line treatment in advanced RCC (NCT02811861)

### Take home messages:

- Consider Lenvatinib plus pembrolizumab in patients with a clear cell histology following disease progression after first line ICI therapy
- For patients who have tolerated IO very well, this allows continuation of IO by combining with a different TKI

ICI, immune checkpoint inhibitor; IO, immuno-oncology; mccRCC, metastatic clear cell renal cell carcinoma; PD-1, programmed cell death-1; PD-L1, programmed death ligand-1

**IMPACT OF AN IO  
EDUCATION/MONITORING PROGRAM  
ON PATIENTS  
SELF-EFFICACY AND ADVERSE  
EVENT REPORTING FROM IMMUNE  
CHECKPOINT INHIBITORS**

**Cheema PK, et al.**

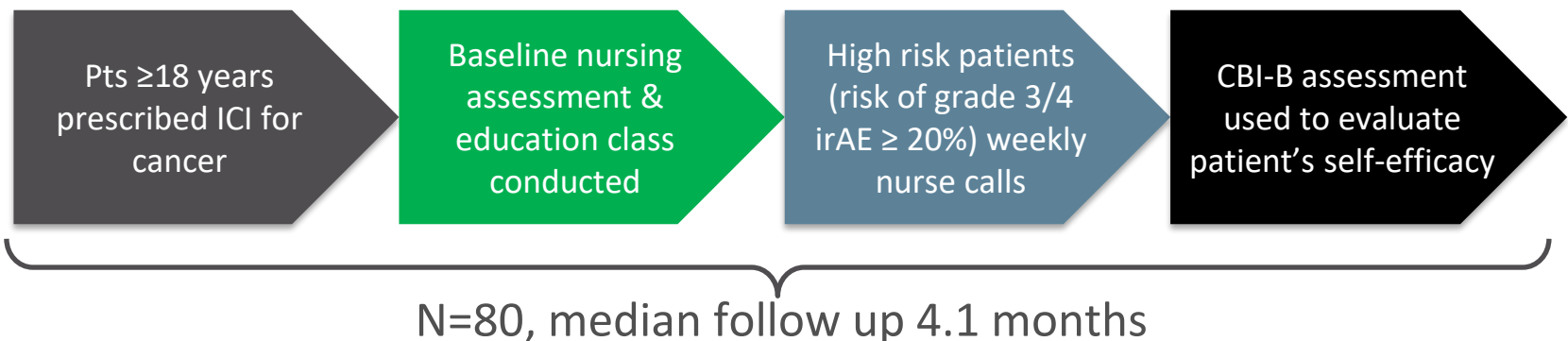
**ASCO 2020. Abstract #2032. Poster presentation**

# BACKGROUND

- Use of **immune checkpoint inhibitors** (ICIs) is associated with serious adverse events related to excessive immune activation, known as **immune-related adverse events (irAEs)**<sup>1</sup>
- **Communication** of these irAEs **to patients is important** to aid early detection and management

## METHODS

- A standard nursing immuno-oncology (IO) education and monitoring program was implemented at a single Canadian centre between May 2018-Dec 2019



CBI-B, cancer behaviour inventory-brief version; ICI, immune checkpoint inhibitors; IO, immuno-oncology; irAEs, immune-related adverse events

# RESULTS

Baseline Characteristics	(N=80)
Median age	69 yrs
Males	70% (56)
English as first language	66% (53)
<b>Highest level of education</b>	
Elementary	19% (15)
High school	30% (24)
Trade diploma	26% (21)
Post-secondary	21% (17)
Limited cancer health literacy	41% (33)
<b>ICI prescribed</b>	
Monotherapy anti-PD1/PDL1	70% (56)
Nivolumab/ipilimumab combination	13% (10)
Anti-PD-1/PD-L1 + CT/other therapies	17% (14)
<b>Cancer diagnosis</b>	
NSCLC	55% (55)
Melanoma	19% (15)
RCC	9% (6)
Other	5% (4)

- Significant improvement in CBI-B scores pre- and post-assessment/education ( $p < 0.001$ ) which was maintained over time

	N=80 %
Patients $\geq 1$ irAE	43
irAE grade 1/2 (when detected)	65
irAE requiring ER visit (n=3)	3.75
<b>Method of detection of irAE</b>	
Patient self-reporting	62
Followed by proactive calls	27
<b>Rate of discontinuation of ICI</b>	8.8

# CONCLUSIONS



- **A standardised IO baseline assessment, education and monitoring program resulted in improved patient self-efficacy**
  - Most irAEs were detected by self-reporting and proactive calls
- This IO program can be a model for other oncology programs

## Take home messages:

- With a diverse patient population, it is key is to incorporate a standardised nursing assessment and education program with proactive follow up to improve patients understanding of treatment toxicities



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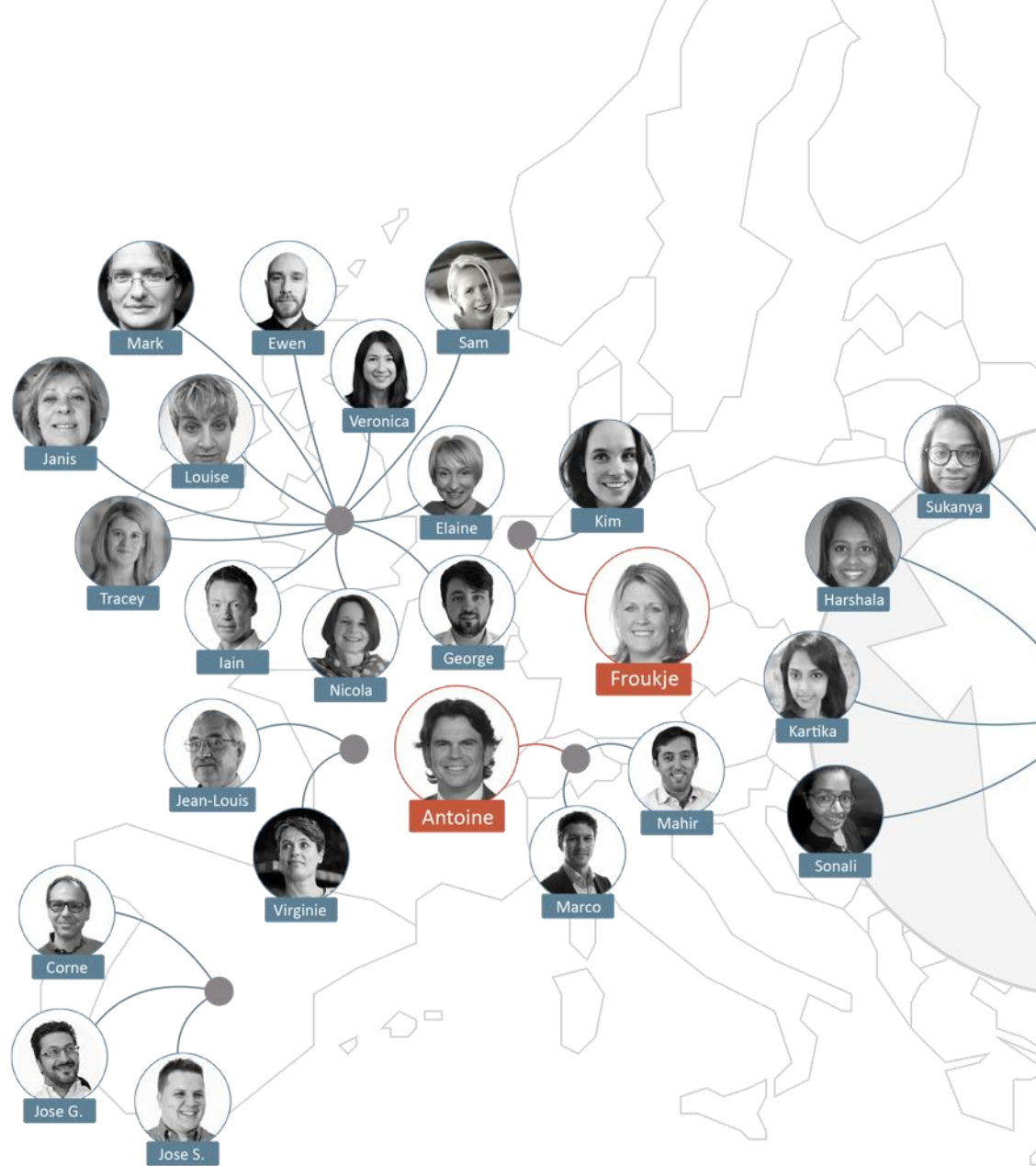
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