HERIZON: A Phase 2 study of HER-Vaxx (IMU-131), a HER2 targeting peptide vaccine, plus standard of care chemotherapy in patients with HER2 overexpressing metastatic or advanced gastric/GEJ adenocarcinoma. Final Overall Survival Analysis

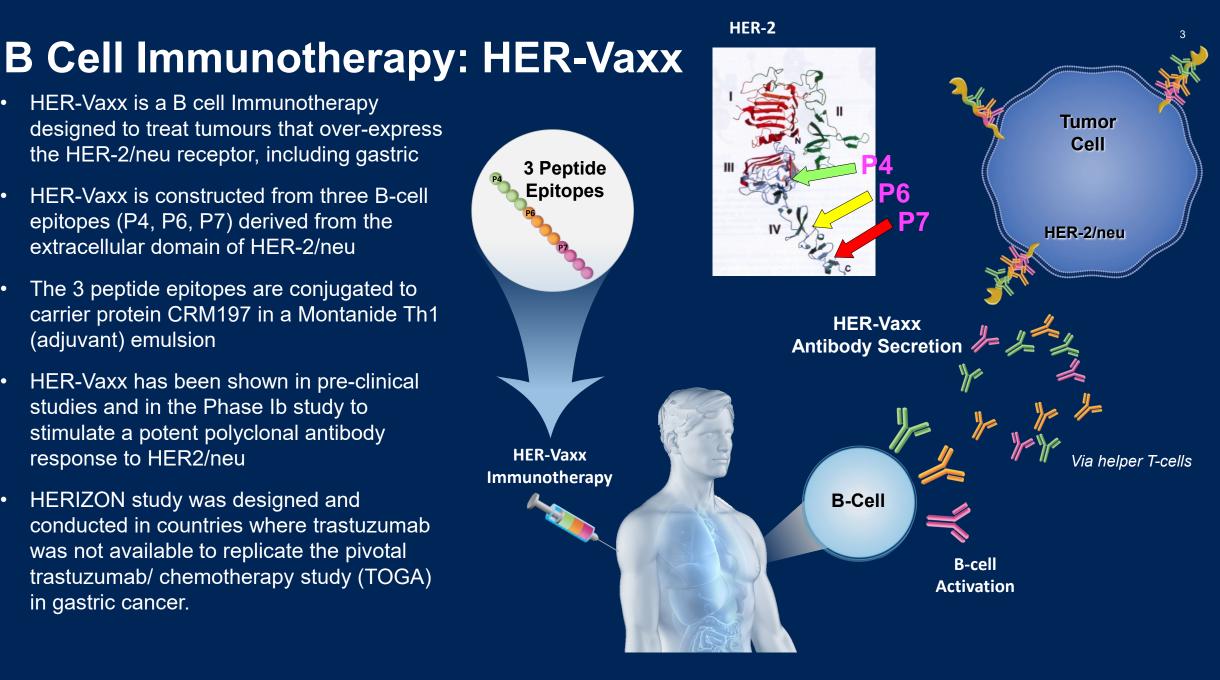
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DECLARATION OF INTERESTS

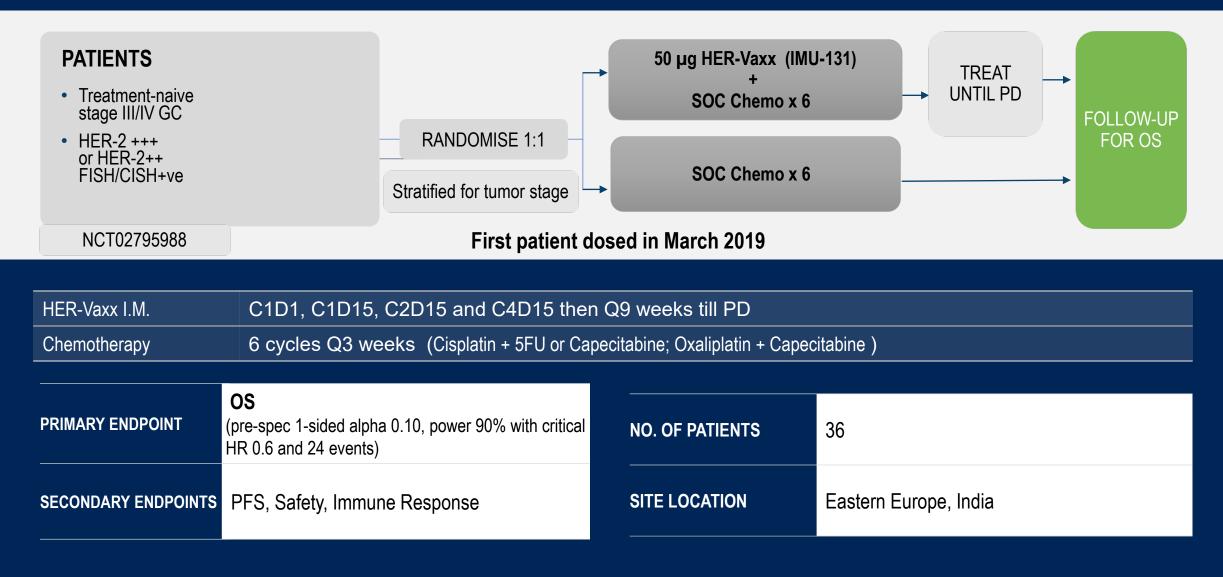
- Study related funds provided to my institution by the study sponsor, Imugene Limited.
- Travel grant to attend ASCO GI 2023, provided by Imugene Limited.



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HERIZON Phase 2 Open Label, Multicenter Study



Baseline Demographics and Characteristics

| | HER-Vaxx + Chemotherapy N=19 (%) | Chemotherapy N=17 (%) |
|---|-------------------------------------|--------------------------|
| Median Age [years] (range) | 65 (48, 84) | 68 (44, 79) |
| M/F | 10 (53)/9 (47) | 13 (77)/4 (23) |
| ECOG performance grade, n (%) | | |
| Grade 0 | 8 (42) | 8 (47) |
| Grade 1/2 | 11 (58) | 9 (53) |
| Initial tumor diagnosis type, n (%) | | |
| Adenocarcinoma of gastroesophageal junction | 2 (10) | 2 (12) |
| Adenocarcinoma of the stomach | 17 (90) | 15 (88) |
| Tumor stage at screening, n (%) | | |
| Stage IIIb | 5 (26) | 4 (24) |
| Stage V | 14 (74) | 13 (77) |
| Prior treatment n (%) | | |
| Prior gastric cancer surgery | 10 (53) | 7 (41) |
| Prior gastric cancer drug therapy | 4 (21) | 2 (12) |
| Prior gastric cancer radiotherapy | 1 (5) | 0 |
| 5 patients | | Data cut 01Jun22 |

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No Additive Toxicity to Chemotherapy with HER-Vaxx

| Safety Overview | | Adverse Event in $\geq 10\%$ of Patients | | | | | |
|---|--|--|--------------------------|--|-----------|--------------------------|-----------|
| | HER-Vaxx + Chemotherapy N=19 (%) | Chemotherapy N=17 (%) | | HER-Vaxx + Chemotherapy N=19 (%) | | Chemotherapy N=17 (%) | |
| | | 16 (04) | | Grade 1/2 | Grade ≥ 3 | Grade 1/2 | Grade ≥ 3 |
| Any TEAE | 18 (95) | 16 (94) | Decreased appetite | 5 (26) | 0 | 1 (6) | 0 |
| Any serious TEAE | 2 (11) | 5 (29) | Headache | 5 (26) | 0 | 0 | 0 |
| ≥ Grade 3 | 8 (42) | 7 (42) | Diarrhoea | 4 (21) | 1 (5) | 3 (18) | 0 |
| Treatment-related 16 (84) | | 13 (77) | Nausea | 4 (21) | 0 | 1 (6) | 0 |
| | 16 (84) | | Fatigue | 3 (16) | 2 (11) | 2 (12) | 0 |
| TEAE leading to treatment2 (11)discontinuation2 (11) | 4 (24) | Vomiting | 3 (16) | 0 | 3 (18) | 0 | |
| | | Anaemia | 2 (11) | 1 (5) | 1 (6) | 4 (24) | |
| | | Injection site reaction | 2 (11) | 0 | 0 | 0 | |
| TEAE leading to treatment reduction or interruption8 (42) | | Pain in extremities | 2 (11) | 0 | 0 | 0 | |
| | 8 (42) | 6 (35) | Peripheral swelling | 2 (11) | 0 | 0 | 0 |
| | | Weight decreased | 2 (11) | 0 | 1 (6) | 0 | |
| Any TEAE leading to death | 1 (5) | 1 (6) | Platelet count decreased | 0 | 1 (5) | 3 (18) | 1 (6) |
| One patient in each arm experienced a Grade 5 event: | | Hypoalbuminemia | 0 | 0 | 2 (12) | 0 | |

Peripheral neuropathy

Advarga Evant in > 10% of Datianta

0

Grade 5 Covid infection in the HER-Vaxx + chemotherapy arm •

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Grade 5 respiratory failure in the chemotherapy alone arm •

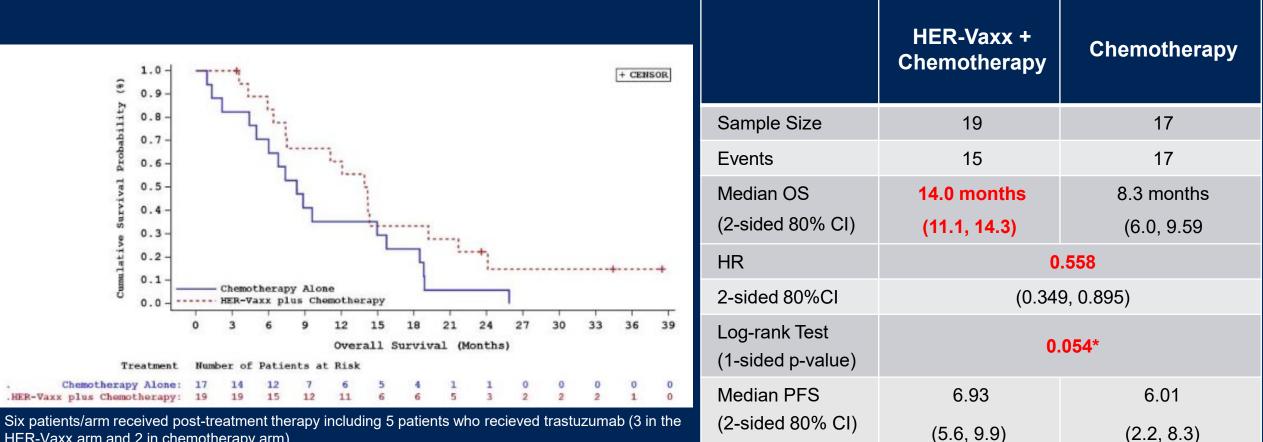
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0

2 (12)

0

Overall Survival Benefit when is HER-Vaxx Added to Chemotherapy



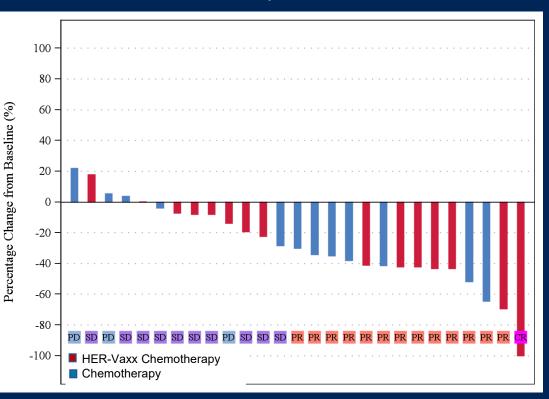
HER-Vaxx arm and 2 in chemotherapy arm).

*Significant, 1-sided p < 0.10

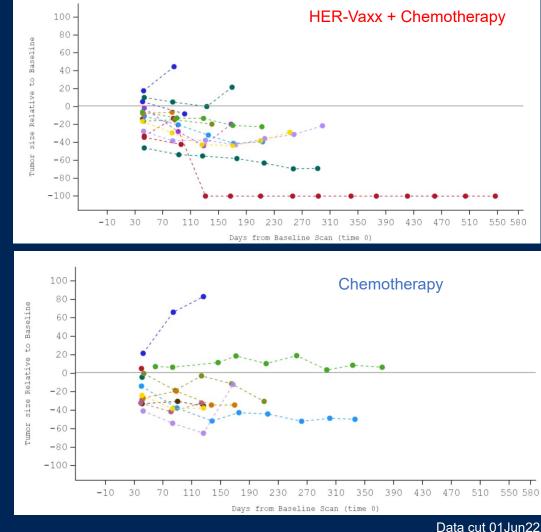
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HER-Vaxx added to Chemotherapy Demonstrated Deep and Durable Responses

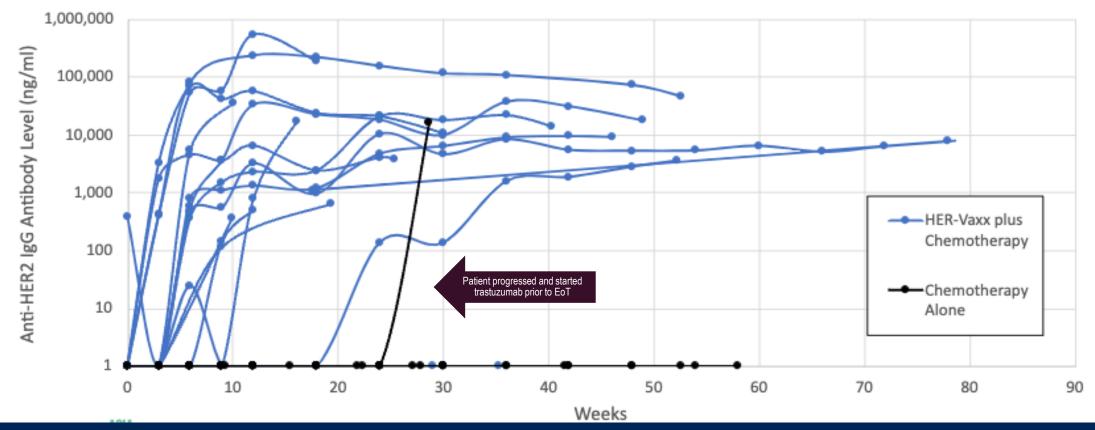
Best overall response



Five patients not included due to: 2 patients with no target lesions; No tumor evaluation by BICR for 1 HER-Vaxx + Chemotherapy (1 PD) and Chemotherapy (1 PR, 2 PD) patients.



HER-Vaxx Produced Elevated and Sustained Anti-HER-2 IgG Antibodies



HER2-Specific IgG by Treatment Assignment and Study Visit- Logarithmic Scale

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Conclusions

- HER-Vaxx (IMU-131) + chemotherapy showed a statistically significant 45% overall survival benefit compared to chemotherapy alone (14.0 vs 8.3 months)
- Duration of response was longer in HER-Vaxx + chemotherapy arm over chemotherapy alone arm (30 vs 19 weeks)
- Vaccination with HER-Vaxx induced persistent HER-2 specific antibodies which correlated with clinical response as proof of concept for a first-in-class B Cell Immunotherapy based on HER-2 peptides
- No additive toxicity was seen when HER-Vaxx was administered in combination with chemotherapy
- Exploring alternative HER-Vaxx doses in single arm phase 2 extension study
- The nextHERIZON study (NCT05311176) is currently enrolling (TIP #16 @ASCO GI): HER-Vaxx plus ramucirumab /paclitaxel OR pembrolizumab following progression with trastuzumab treatment in GC