

# PanCO: Results of a single-arm pilot study of <sup>32</sup>P microparticles in unresectable locally advanced pancreatic adenocarcinoma with gemcitabine/nab-paclitaxel or FOLFIRINOX chemotherapy<sup>1</sup>

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## Study Objective

To further investigate the safety, efficacy, feasibility and performance of the OncoSil™ device when implanted intratumourally using EUS in a patient population undergoing standard chemotherapy for unresectable LAPC.

## Study Design

### Key Eligibility Criteria

- Histologically or cytologically proven pancreatic adenocarcinoma
- Unresectable LAPC
- Target tumour diameter 2-6cm
- ECOG Performance Status 0 to 1
- No distant metastases
- No prior radiotherapy or chemotherapy for pancreatic cancer

### Location

International, multicentre pilot study with 10 sites in 3 countries:

- Australia
- Belgium
- UK

### Data Collection/Follow-up

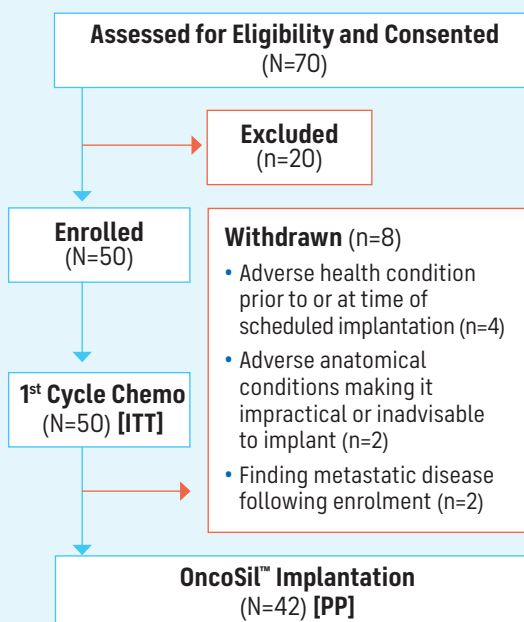
- SPECT-CT Bremsstrahlung imaging at ≤4 hours and day 7
- Blood and urine <sup>32</sup>P analysis
- 8 weekly CT – RECIST 1.1 and tumour volume\*
- FDG-PET – Baseline and week 12\*
- CA 19-9 tumour marker serial analysis

### Treatment

<sup>32</sup>P activity calculated from patients' tumour volume to deliver 100 Gy absorbed dose.

† By physician choice; per standard-of-care

## Participant Flow



## Baseline Characteristics

Demographic/Characteristic	n (%) ITT Cohort (N=50)
<b>Age, years</b> Median (Range)	65 (42-84)
<b>Sex</b> Male : Female	28 (56%) : 22 (44%)
<b>Race:</b> White/Caucasian	40 (80%)
Asian	7 (14%)
Black/African American	3 (6%)
<b>ECOG Performance Status 0 : 1</b>	26 (52%) : 24 (48%)
<b>CA 19-9, (U/mL) [n=49]</b> Median (Range)	163 (1-6576)
<b>Pancreatic tumour location</b> Head : Body	42 (84%) : 8 (16%)
<b>Target lesion longest diameter, cm*</b> Median (Range)	4.5 (2.6-7.1)
<b>Tumour volume, cc*</b> Median (Range)	24.4 (7.9-68.7)
<b>Study days to OncoSil™ implantation [n=42]</b> Median (Range)	31 (21-77)
<b>Chemotherapy</b> gemcitabine + nab-paclitaxel	40 (80%)
FOLFIRINOX	10 (20%)

\*By independent central reader analysis

## Key Results



### Safety and Tolerability (PP Cohort)

- 956 TEAEs reported; 139 were Grade  $\geq 3$   
No serious device or radiation-related toxicities were reported
- 289 TEAEs (30.2%) occurred pre-OncoSil™ implantation (25 Grade  $\geq 3$ ) vs. 667 TEAEs (69.8%) post-implant (114 Grade  $\geq 3$ ) [median follow-up: 1 vs. 31 months, respectively], with 41 vs. 609 attributed to the OncoSil™ device and/or implantation procedure vs. chemotherapy, respectively
- No increased incidence of grade  $\geq 3$  TEAEs pre-implantation vs. per cycle, overall and by key categories, post-implantation

OncoSil™ in combination with first-line chemotherapy for LAPC had an **acceptable safety profile** over a study timeframe (median 31.6 months)



### Tumour Response (Best Response by Central Imaging Analysis, RECIST v1.1<sup>1\*</sup>)

Best Response, Evaluable Patients	ITT Cohort (n=50)	PP Cohort (n=42)
Complete Response [CR]**	0 (0%)	0 (0%)
Partial Response [PR]**	14 (29.8%)	13 (31.0%)
Stable Disease [SD]**	31 (66%)	29 (69.0%)
Progressive Disease [PD]**	2 (4.3%)	0 (0%)
Not evaluated	3	0
<b>Overall Response Rate [ORR]</b>	<b>14 (28.0%)</b>	<b>13 (31.0%)</b>
<b>Disease Control Rate [DCR]</b>	<b>45 (90.0%)</b>	<b>42 (100%)</b>

\*By central image reader analysis. \*\*Percentages based on the number of assessable study participants.  
^Response before surgical resection.

**33% patients (14/42) were either surgically resected OR were technically sufficiently downstaged to be considered for resection\***



**23.8% patients (10/42) were resected**

- 9 patients received gemcitabine + nab-paclitaxel; 1 received FOLFIRINOX
- HPB surgeons noted reduction in the fibrosis of the tumours along blood vessels and favourable tissue planes
  - 4 resected patients died (at 18.8-19.2 months from enrolment)
  - **6 remained alive at 26.4-35.3 months post-enrolment (5 disease-free)**

\*Four patients did not undergo surgery due to concomitant co-morbidities and/or other considerations (advanced age, patient choice).



### Local Disease Control Rate (LDCR<sub>16 weeks</sub>) and Surgical Resection

Outcome	ITT Cohort (n=50)	PP Cohort (n=42)
LDCR <sub>16 weeks</sub> , n (%) [1° Efficacy Endpoint]	41 (82.0%)	38 (90.5%)
<b>Rate of Surgical Resection with Curative Intent, n (%)</b>	<b>10 (20.0%)</b>	<b>10 (23.8%)</b>
<b>RO Margins, n (%)</b> vs. <b>R1 Margins, n (%)</b>	<b>8 (80.0%)</b> vs. 2 (20.0%)	<b>8 (80.0%)</b> vs. 2 (20.0%)
Median Progression-Free Survival (95% CI)	9.3 months (5.7-11.3)	9.3 months (5.8-11.3)
<b>Median Overall Survival (95% CI)</b>	<b>15.2 months (11.3-18.8)</b>	<b>15.5 months (11.4-20.1)</b>

#### Abbreviations:

**CI:** Confidence interval  
**ECOG:** Eastern Cooperative Oncology Group  
**EUS:** Endoscopic ultrasound

**ITT:** Intention-to-treat  
**LAPC:** Locally advanced pancreatic cancer  
**NC:** Not calculable

**PD:** Progressive disease  
**PP:** Per protocol  
**TEAEs:** Treatment-emergent adverse events

**REFERENCES:** 1. Ross PJ, Wasan HS, Croagh D et al. Results of a single-arm pilot study of 32<sup>nd</sup> microparticles in unresectable locally advanced pancreatic adenocarcinoma with gemcitabine/nab-paclitaxel or FOLFIRINOX chemotherapy. ESMO Open February 2022;7(1):100356. doi: 10.1016/j.esmoop.2021.2.001. 2. Ross PJ, Burnett C, Nikfarjam M et al. Comparison of Resected vs. Non-resected PanCO Study Patients with Unresectable Locally Advanced Pancreatic Cancer (uLAPC) Receiving 32<sup>nd</sup> P-microparticles and Chemotherapy. Poster presentation PBP-006 E-AHPBA 2023, Lyon, France. <https://doi.org/10.1016/j.hpb.2023.07.454>.

**INTENDED USE / INDICATIONS FOR USE:** OncoSil™ is intended for intratumoural implantation into a pancreatic tumour via injection under endoscopic ultrasound guidance. OncoSil™ is indicated for the treatment of patients with locally advanced unresectable pancreatic cancer, in combination with gemcitabine-based chemotherapy.

This information is intended for healthcare professionals only. All medical treatments carry benefits and risks. For safety related information, please refer to the OncoSil™ System Instructions for Use.

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