

AGM Chairman's address and CEO's presentation

Melbourne, Australia; 30 November 2021: Attached is the Chairman's address together with the CEO's presentation to the Annual General Meeting (AGM) of Starpharma Holdings Limited (ASX: SPL, OTCQX: SPHRY), to be held at 11am (Melbourne time) today.

The AGM will be held online. Shareholders and proxyholders will be able to listen, view presentations, vote and ask questions during the meeting in real-time through the Lumi virtual platform, for which details are available via <https://starpharma.com/2021agm>.

About Starpharma

Starpharma Holdings Limited (ASX:SPL, OTCQX:SPHRY) is a global biopharmaceutical company and a world leader in the development of new pharmaceutical and medical products based on proprietary polymers called dendrimers, with programs for respiratory viruses, DEP® drug delivery and VivaGel®. Starpharma has developed VIRALEZE™, an antiviral nasal spray that is registered for sale in the Europe, India and New Zealand, and available outside Australia in certain markets online. VIRALEZE™ is not approved for sale or supply in Australia. SPL7013 is utilised in approved products - the VivaGel® condom and VivaGel® BV. VivaGel® BV has been licensed in >160 countries, is registered in >45 countries and available for sale in the UK, Europe, Japan, South East Asia, South Africa, Australia and New Zealand.

As a leading company in dendrimer-based drug delivery, Starpharma's proprietary drug delivery platform technology, DEP®, is being used to improve pharmaceuticals, to reduce toxicities and enhance their performance. There are numerous internal and partnered programs underway to develop DEP® versions of existing drugs, particularly in the area of anti-cancer therapies. DEP® partnerships include oncology programs with AstraZeneca, with Merck in the area of Antibody Drug Conjugates (ADCs), with Chase Sun in the area of anti-infectives and other world leading pharmaceutical companies. Starpharma's partnered DEP® programs have the potential to generate significant future milestones and royalties.

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Disclosure

This ASX Announcement was authorised for release by the Chairman, Mr Rob Thomas.

Forward Looking Statements

This document contains certain forward-looking statements, relating to Starpharma's business, which can be identified by the use of forward-looking terminology such as "promising", "plans", "anticipated", "will", "project", "believe", "forecast", "expected", "estimated", "targeting", "aiming", "set to", "potential", "seeking to", "goal", "could provide", "intends", "is being developed", "could be", "on track", or similar expressions, or by express or implied discussions regarding potential filings or marketing approvals, or potential future sales of product candidates. Such forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause actual results to be materially different from any future results, performance or achievements expressed or implied by such statements. There can be no assurance that any existing or future regulatory filings will satisfy the FDA's and other authorities' requirements regarding any one or more product candidates nor can there be any assurance that such product candidates will be approved by any authorities for sale in any market or that they will reach any particular level of sales. In particular, management's expectations regarding the approval and commercialization of the product candidates could be affected by, among other things, unexpected trial results, including additional analysis of existing data, and new data; unexpected regulatory actions or delays, or government regulation generally; our ability to obtain or maintain patent or other proprietary intellectual property protection; competition in general; government, industry, and general public pricing pressures; and additional factors that involve significant risks and uncertainties about our products, product candidates, financial results and business prospects. Should one or more of these risks or uncertainties materialize, or should underlying assumptions prove incorrect, actual results may vary materially from those described herein as anticipated, believed, estimated or expected. Starpharma is providing this information as of the date of this document and does not assume any obligation to update any forward-looking statements contained in this document as a result of new information, future events or developments or otherwise. Clinical case studies and other clinical information given in this document are given for illustrative purposes only and are not necessarily a guide to product performance and no representation or warranty is made by any person as to the likelihood of achievement or reasonableness of future results. Nothing contained in this document nor any information made available to you is, or shall be relied upon as, a promise, representation, warranty or guarantee as to the past, present or the future performance of any Starpharma product.

Chairman's Address

Starpharma Holdings Limited

Annual General Meeting

30 November 2021

Good morning,

On behalf of the Board of Directors, it is my pleasure to welcome you to Starpharma's 2021 Annual General Meeting.

Before I give my formal address, on behalf of the Board, I want to acknowledge the recent passing of our fellow Director, Peter Turvey, who stepped down as a Director in July this year due to illness. We extend our sincere condolences to his family and colleagues. Peter made an exceptional contribution to the company during his tenure and was a highly respected and regarded member of the biopharmaceutical industry. I know Peter was incredibly proud of Starpharma's development and was pleased to be involved with the development of medical products, and particularly oncology products, which have the potential to improve patient's lives and health outcomes.

I also want to thank upfront our CEO Dr. Jackie Fairley and the entire team at Starpharma for their commitment through such a challenging year. A year impacted by significant periods of lockdown and restrictions in Melbourne, and dealing with multiple regulators and clinical trials within a global pandemic background. Our team of around 50 people are highly skilled, innovative and passionate about making a difference. They operate at the cutting edge of science.

And while from an operational perspective, this has been a year of substantial progress, including the reporting of some very exciting new interim clinical results for DEP® cabazitaxel last week in prostate cancer patients, we nevertheless share with you the frustration with the current share price despite having recently achieved a multitude of valuable milestones.

This year, we continued to witness the devastating impacts of the COVID-19 pandemic following the emergence of multiple new and more severe variants, which required our community to innovate and adapt quickly to overcome the challenges posed by this global health crisis.

For Starpharma, it reinforced the value of our purpose and strategic focus as an organisation, which is to leverage the company's proprietary dendrimer platform technology to build a portfolio of high-value products and partnerships that address significant unmet patient need. It inspired our team to develop VIRALEZE™, an innovative broad-spectrum antiviral nasal spray that can be used in situations where individuals may be at risk of being exposed to respiratory viruses, including coronavirus.

Throughout 2021, Starpharma expedited the development and commercialisation of VIRALEZE™. This involved rapid development, scale-up and manufacture of the product, while pursuing registrations and securing the right distributors in multiple regions worldwide. We registered VIRALEZE™ in Europe, India, and New Zealand, and secured distribution agreements in the UK, Italy, and Vietnam, to enable launches of VIRALEZE™ in pharmacies, online and in retail outlets in those regions. Starpharma established its own e-commerce store which has now shipped VIRALEZE™ to consumers in more than 50 countries. You will hear from Jackie shortly regarding these developments, including an update on the commercial arrangements her team are working on across the globe.

During the year, we continued to test the antiviral agent in VIRALEZE™ (SPL7013), against new coronavirus variants as they emerged, and other respiratory viruses, to understand the breadth of activity of the product. SPL7013, which already has a deep pedigree as a potent and broad spectrum antiviral compound, was shown to be virucidal against all four of the World Health Organisation's SARS-CoV-2 '*variants of concern*' – Delta, Alpha, Beta and

Gamma – as well as other respiratory viruses, including influenza and RSV, and pandemic viruses, SARS, and MERS in laboratory studies. New data on VIRALEZE™ and SPL7013 has also been published in prestigious international and peer reviewed scientific journals this year, highlighting the product's impressive antiviral and virucidal activity. Indeed, our collaborators at the prestigious Scripps Research Institute have emphasized the significance of this broad-spectrum activity across multiple variants.

COVID-19 is not the first pandemic the world has faced, and experts tell us it won't be the last. And while preventing a pandemic may not be entirely possible, across the world there is a recognition that we can better prepare ourselves with a range of interventions, like VIRALEZE™. With its advantages of broad-spectrum antiviral and virucidal activity, excellent safety profile and room temperature storage, VIRALEZE™ has great potential for providing an additional layer of protection against a range of respiratory viruses now and in future pandemic preparedness.

In parallel with our work on VIRALEZE™, Starpharma has also expanded the application of its cutting-edge DEP® drug delivery platform.

The company was excited to sign a new DEP® partnership agreement with leading international pharmaceutical company, Merck & Co Inc., in February. This is in addition to our established DEP® partnerships with AstraZeneca and Chase Sun, as well as several undisclosed partner programs. This growing stable of partnerships with leading companies demonstrate the optionality and high value of Starpharma's DEP® technology and the increasing attention from big pharma around the world.

Our DEP® collaborations enable partners to utilise Starpharma's drug delivery platform to develop value-added candidates with early-stage development costs partner funded and future licensing rights available for resultant DEP® based products. The partnerships we have built with our DEP® platform have the potential to create life-changing products for our patients, and long-term revenues for Starpharma by way of milestones and royalties.

Starpharma's commercial deal with AstraZeneca for instance, is an excellent demonstration of the potential progression for these partnered programs and the valuable opportunities associated with our DEP® technology.

It has been very exciting to see AstraZeneca accelerate and expand its clinical program for their novel anti-cancer drug, AZD0466, into a global multi-centre phase I/II trial this year, with a focus on hematological tumours or blood cancers. This expanded program includes a substantial increase in the number of trial sites globally, and this particular trial design means that the transition from phase I to phase II is seamless and significantly expedited. The study is actively enrolling patients at sites in the US, South Korea, and Australia, with plans to open in Europe as part of the global expansion announced earlier this year. This investment and expansion are being undertaken by AstraZeneca to facilitate development of AZD0466 with the objective of obtaining regulatory approval as soon as possible for specific indications of high unmet clinical need.

Starpharma was delighted to see that AstraZeneca and the prestigious MD Anderson Cancer Center will present AZD0466 at the world's premier hematology conference, ASH, in December, with two posters and presentations highlighting the clinical program and impressive performance of this innovative oncology agent as well as the benefits Starpharma's DEP® technology can deliver. We look forward to further updates as the program for AZD0466 progresses.

Internally, we continued to progress our three clinical stage DEP® products, DEP® docetaxel, DEP® cabazitaxel and DEP® irinotecan, through each of their phase II clinical development programs. Despite varying impacts of COVID-19 on each trial, all continued to recruit patients during the year and make good progress.

We are seeing impressive responses in patients treated with our DEP® products, demonstrating efficacy signals in a range of cancer types that are difficult to treat and in very

heavily pre-treated patients. These efficacy signals, which include significant reductions in measurable tumours for some patients, are particularly important for those who have failed multiple previous treatments and have few options. The results from these phase II trials have the potential to deliver vital treatment options for cancer patients and will be important milestones for the company by way of supporting new DEP[®] licences. We look forward to completing these programs.

Our Board, management, and Starpharma's partners have great confidence in the significant value of Starpharma's DEP[®] technology. This value lies not only in its ability to improve on the performance of existing and new drugs and to reduce side effects, but also its versatility and broad applicability to a wide range of medical products, including oncology agents, anti-infectives and so on.

To enable us to keep developing additional DEP[®] candidates towards the clinic and build value in our internal portfolio, Starpharma has deepened its development pipeline with a range of new DEP[®] candidates, including DEP[®] radiopharmaceutical and DEP[®] ADC (Antibody Drug Conjugate) products. The use of ADCs is an innovative and cutting-edge area in cancer therapy that continues to grow. Starpharma already has a number of partner programs including with Merck & Co Inc., and so the value of DEP[®] in this area is becoming well recognised. We look forward to progressing our partnered and internal programs further, in the year ahead.

Lastly with our VivaGel[®] portfolio – our commercial partners continued to roll out our products, including new launches of VivaGel[®] BV by Mundipharma in Nordic countries and South Africa, and the launch of the VivaGel[®] condom by LifeStyles in Europe. VivaGel[®] BV is now registered in more than 45 countries, and we continue to work closely with our partners to advance registrations and launches in other countries. The feedback from consumers and clinicians about VivaGel[®] BV is extremely positive.

I do want to thank my fellow board members for all their support. On the 1st of August 2021, we were pleased to appoint Lynda Cheng as an independent non-executive Director. Lynda Cheng has extensive experience as a finance executive, including as a CFO and has substantial non-executive and international experience.

Looking ahead this is an exciting time for Starpharma. We have an increasingly broad and high-value product pipeline, with multiple products in the clinic and on market, a very strong IP position and a growing suite of partners and commercial opportunities across our portfolio.

As we near the end of 2021, we are focused on progressing our DEP[®] programs, internal and partnered, and closing out a number of valuable distribution arrangements and product registrations for VIRALEZE[™]. As we look to 2022 and beyond, Starpharma remains focused on fulfilling its purpose and strategic objectives with further registrations, launches and revenue growth for VIRALEZE[™] and VivaGel[®] products, and DEP[®] partnerships.

We take great pride in knowing that our product portfolio has real potential to create positive, even lifechanging, results for patient and customer health worldwide, all the while generating significant long-term value for our shareholders.

I thank shareholders for their support and look forward to the year ahead.

Thank you

Rob Thomas AO Chairman



Annual General Meeting

30 November 2021

Dr Jackie Fairley, CEO



Important notice and disclaimer

This document contains certain forward-looking statements, relating to Starpharma's business, which can be identified by the use of forward-looking terminology such as "promising", "plans", "anticipated", "will", "project", "believe", "forecast", "expected", "estimated", "targeting", "aiming", "set to", "potential", "seeking to", "goal", "could provide", "intends", "is being developed", "could be", "on track", or similar expressions, or by express or implied discussions regarding potential filings or marketing approvals, or potential future sales of product candidates. Such forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause actual results to be materially different from any future results, performance or achievements expressed or implied by such statements. There can be no assurance that any existing or future regulatory filings will satisfy the FDA's and other health authorities' requirements regarding any one or more product candidates nor can there be any assurance that such product candidates will be approved by any health authorities for sale in any market or that they will reach any particular level of sales. In particular, management's expectations regarding the approval and commercialization of the product candidates could be affected by, among other things, unexpected clinical trial results, including additional analysis of existing clinical data, and new clinical data; unexpected regulatory actions or delays, or government regulation generally; our ability to obtain or maintain patent or other proprietary intellectual property protection; competition in general; government, industry, and general public pricing pressures; and additional factors that involve significant risks and uncertainties about our products, product candidates, financial results and business prospects. Should one or more of these risks or uncertainties materialize, or should underlying assumptions prove incorrect, actual results may vary materially from those described herein as anticipated, believed, estimated or expected. Starpharma is providing this information as of the date of this presentation and does not assume any obligation to update any forward-looking statements contained in this document as a result of new information, future events or developments or otherwise.

Clinical case studies and other clinical information given in this document are given for illustrative purposes only and are not necessarily a guide to product performance and no representation or warranty is made by any person as to the likelihood of achievement or reasonableness of future results. Nothing contained in this document nor any information made available to you is, or shall be relied upon as, a promise, representation, warranty or guarantee as to the past, present or the future performance of any Starpharma product.

FLEURSTAT BVGEL (VivaGel® BV) for the treatment of BV and relief of symptoms: Ask your pharmacist – they must decide if this product is right for you. Always read the label. Follow the directions for use. Do not use for more than 7 days unless a doctor has told you to. See your doctor if symptoms persist after 7 days or recur within 2 weeks, and if you consider you may be at risk of an STI. See a doctor if you are diabetic or pregnant/breastfeeding (or plan to be).

VIRALEASE™: Always read the label and follow the instructions for use. This medical device is a regulated health product which bears, under this regulation, the CE marking in the EU. Do not use if you have a history of sensitivity to any ingredients in the formulation. Not for use in children under the age of 12 years. See a doctor if you are pregnant or breastfeeding. Always follow recommendations from health authorities, including vaccination and good hygiene practices, such as the use of masks, physical distancing, and regular handwashing to ensure the best possible protection against respiratory viruses. Not approved for sale or supply in Australia.

Starpharma's dendrimer platform delivers significant optionality with multiple potential revenue streams, valuable products & clinical-stage assets



Through innovative research and development, Starpharma is creating therapies which have the potential to improve patient health worldwide.

- Unique polymer (dendrimer) platform creating valuable patented healthcare products (>200 patents)
- Deep portfolio of high-value products on-market and clinical stage assets, with current sales, near term potential commercial and clinical milestones
- Products address clear unmet medical need for large markets
- Established manufacturing and supply chain
- Successful partnerships with leading global companies
- Well funded; share register is made up of ~55% institutions, ~40% retail, ~5% staff & other



DEP® - A valuable proprietary nanoparticle drug delivery platform creating significant optionality, accelerates path to market and manages investment risk



VIRALEZE™ Antiviral Nasal Spray - Registered for sale in the UK/Europe, India, and New Zealand, and available in certain markets online



VivaGel® BV - Registered in >45 countries; licensed in >160 countries, on-market in the UK, Europe, Asia, South Africa, Australia & NZ



VivaGel® condom - Approved in Japan, Europe, Australia & Canada



Starpharma's portfolio: High-value assets including VIRALEZE™, VivaGel® products on market, and multiple DEP® clinical-stage assets



Internal DEP® products

Preclinical Phase 1 Phase 2

DEP® irinotecan

DEP® cabazitaxel

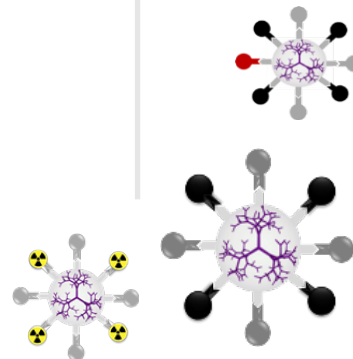
DEP® docetaxel

DEP® radiopharmaceutical candidates

DEP® HER-2 ADC

DEP® gemcitabine

DEP® non-oncology candidates



Marketed Products



Partnered DEP® Products

- Global multi-centre phase 1/2 trial underway for AstraZeneca's first DEP® oncology drug, AZD0466
- Research agreement signed with MSD for dendrimer-based ADCs using DEP® technology
- Research partnership with Chase Sun, to develop several DEP® nanoparticle formulations for an anti-infective drug



AstraZeneca



2021 HIGHLIGHTS

→ AstraZeneca expanded and expedited its AZD0466 clinical program into a global, multi-centre phase 1/2 trial



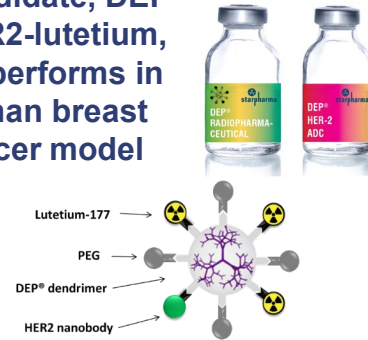
→ Starpharma signed new DEP® partnership with pharmaceutical company Chase Sun



→ Starpharma announced positive DEP® phase 2 interim results in prostate cancer



→ Starpharma's second Radio-pharmaceutical candidate, DEP® HER2-lutetium, outperforms in human breast cancer model



→ TGA approves the expansion of the marketing authorization for VivaGel® BV (Fleurstat BVgel) to include prevention of recurrent BV indication



→ DEP® docetaxel and gemcitabine combination clinical study commences



→ VIRALEZE™ antiviral nasal spray registered for sale in UK/Europe, India, and New Zealand



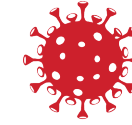
→ VIRALEZE™ launched via LloydsPharmacy in the UK; partnered with ADMENTA Italia Group in Italian pharmacies, and through TBL/Nam Thanh Medical in Vietnam



→ LifeStyles launched the VivaGel® condom in countries in Europe, marketed under Absolute™ DUAL PROTECTION brand



→ Testing for VIRALEZE™ confirms SPL7013 virucidal activity *in vitro* in multiple variants of SARS-CoV-2 - it inactivated >99.99% of the Delta variant within 30 seconds



Delta Variant B.1.617.2

Spreads much faster than other variants*



→ Testing for VIRALEZE™ confirms SPL7013 active against other pandemic respiratory viruses “SARS” and “MERS”, in laboratory studies

→ Testing for VIRALEZE™ confirms SPL7013 active against human respiratory syncytial virus (RSV), in laboratory studies

→ Starpharma awarded \$1 million by the Australian MRFF to expedite development of VIRALEZE™



→ VIRALEZE™ administered nasally reduced viral load by >99.9% (vs. saline) in the lungs and trachea of animals challenged with SARS-CoV-2; study published in the international peer-reviewed journal, *Viruses*



→ VIRALEZE™ well tolerated in multiple dose clinical study

Financial summary

Strong balance sheet with \$53.4M cash (30 September 2021)



Key Financial Data	FY21 A\$M	FY20 A\$M
Revenue	2.2	6.6
Other Income	1.3	0.6
Loss for the period	(19.7)	(14.7)
Net operating cash outflows	(14.8)	(10.8)
Net financing & investing cash in/(out) flows	46.1	(0.7)
Net cash burn (excluding capital raise) ¹	(16.5)	(11.2)

FY21 Result

- Revenue: ↓, note FY20 included \$4.3M (US\$3M) AstraZeneca DEP® milestone
- Other Income includes \$0.9M MRFF grant income for VIRALEZE™
- Investment in R&D Programs: ↑ DEP®, ↑ VIRALEZE™, ↓ VivaGel® BV
- R&D tax incentive: ↑ \$7.2M (FY20 \$5.7M) anticipated to be received early Q3FY22
- Corporate, Admin & Finance expense: ↑ on \$1.1M unfavourable FX movement of foreign cash held
- Net financing cash inflows: \$46.9M net proceeds from equity placement and share purchase plan

Cash as at 30 Sep 2021 is \$53.4M



¹ Net cash burn is considered a non-IFRS value and has not been audited in accordance with Australian Accounting Standards. Net cash burn is calculated by the movement in cash and cash equivalents between reporting periods, adjusted for the impact of the capital raising during the period.

Starpharma's DEP® platform - broad applicability and exceptional optionality



Multiple DEP® products and therapeutic areas - partnered and internal programs



Chemotherapeutics	Radiotheranostics	Antibody Drug Conjugates (ADCs)	Non-oncology
<ul style="list-style-type: none">• Franchise extension• Generic differentiation• New Chemical Entities• Combinations including immuno-oncology <div></div> <div></div>	<ul style="list-style-type: none">• Radiotheranostic applications – growth area• Can use variety of isotopes and targeting <div></div>	<ul style="list-style-type: none">• Flexible technology• Increased drug antibody ratio• Targeting group agnostic• Site selective payload attachment <div></div> <div></div>	<ul style="list-style-type: none">• Antiviral• Anti-infective• Endocrinology <div></div> <div></div>

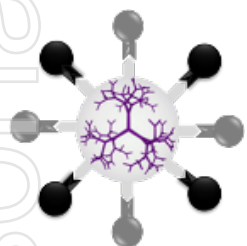
DEP® partnering creates significant value and optionality

Starpharma's DEP® platform enhances the commercial and therapeutic value of a wide range of drugs, creating multiple potential revenue streams and significant IP leverage



AstraZeneca's novel DEP® nanoparticle AZD0466

- Clinical program significantly expanded and advanced in 2021, to a multi-region, global Phase 1/2 clinical trial in advanced haematological malignancies
- The new phase 1/2 trial design is aimed at seamless transition to phase 2, to facilitate expedited marketing approval
- AZD0466 is the first candidate in Starpharma's multiproduct licence with AstraZeneca; US\$7M in milestones received to date
- Total AZD0466 deal up to US\$124M milestones + royalties (est. up to A\$2.4B revenue to SPL)

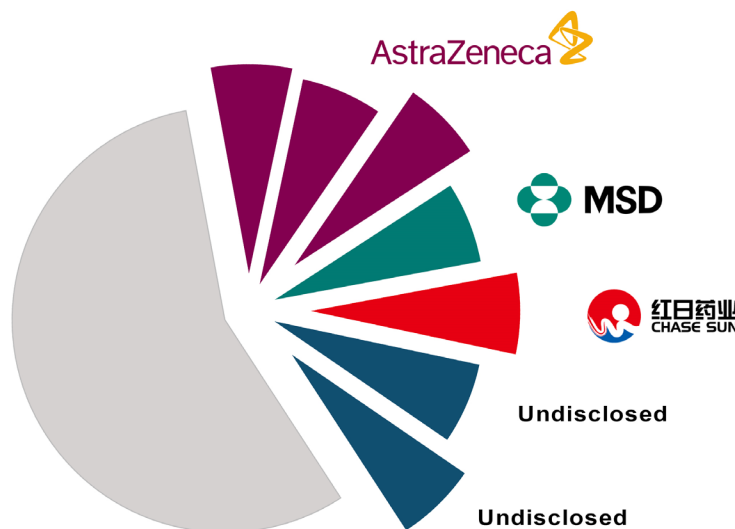


AstraZeneca



DEP® platform allows for multiple partnerships

Starpharma has several disclosed/undisclosed partnered DEP® programs, including with large pharma companies: AstraZeneca, Merck and Chase Sun.

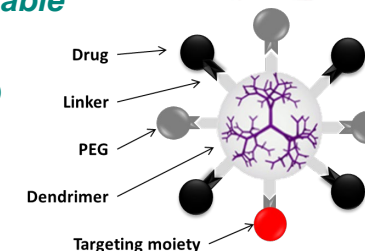


DEP® platform offers optionality, enabling multiple licences to run in parallel

Starpharma has signed a DEP® research agreement with MSD for dendrimer-based ADCs using DEP® technology

“MSD is a recognised leader in oncology, and we are delighted to have signed this new Research Agreement in such an innovative and valuable area”

Dr Jackie Fairley, CEO
Starpharma



Starpharma has a research partnership with Chase Sun, to develop several DEP® nanoparticle formulations for an anti-infective drug



AstraZeneca's novel DEP[®] nanoparticle AZD0466



- **AZD0466** is a highly optimised DEP[®] nanoparticle formulation of AstraZeneca's dual Bcl-2/xL inhibitor (AZD4320)
- Dual Bcl-2/xL inhibition with AZD0466 has potential for broader activity than the marketed Bcl-2 inhibitor, venetoclax (Venclexta[®]). In 2020, Venclexta had sales of ~US\$1.34 billion (+69% cf. 2019)
- Clinical program significantly expanded and advanced in 2021, to a multi-region Phase 1/2 clinical trial in advanced haematological malignancies
- This new phase 1/2 trial is aimed at seamless transition to phase 2, to facilitate expedited marketing approval
- AZD0466 is the first candidate in Starpharma's multiproduct licence with AZ; US\$7M in milestones received to date
- Total AZD0466 deal up to US\$124M milestones + royalties (est. up to A\$2.4B revenue to SPL)
- AZD0466 studies in a human mesothelioma model were recently [published in Nature Biotechnology](#)



AstraZeneca to present AZD0466 posters at 2021 Annual Society of Hematology (ASH) Meeting

Poster 1: 2353 NIMBLE: A Phase I/II Study of AZD0466

<https://ash.confex.com/ash/2021/webprogram/Paper147482.html>

Poster 2: 1867 Combination Therapy of Bcl-2/XL dual Inhibitor AZD0466 with Acalabrutinib to Overcome Therapeutic Resistance in Aggressive R/R Mantle Cell Lymphoma

<https://ash.confex.com/ash/2021/webprogram/Paper151609.html>



Starpharma has a number of partnerships with leading antibody drug conjugate companies

Starpharma's DEP® technology represents a valuable partnering platform which has the potential to generate revenue through royalties and milestones









Starpharma has a DEP® research agreement with MSD for dendrimer-based ADCs using DEP® technology.



Significant commercial momentum in ADCs



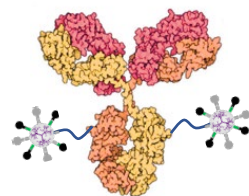
					
AstraZeneca & Daiichi Sankyo, US\$6.9B, <i>July 2020</i>	Gilead & Immunomedics, US\$21B, <i>Sep 2020</i>	Seattle Genetics & Merck, US\$6.8B, <i>Sep 2020</i>	Merck & VelosBio, US\$2.75B, <i>Nov 2020</i>	Boehringer Ingelheim & NBE Therapeutics, €1.2B, <i>Dec 2020</i>	BMS & Eisai, US\$3.1B, <i>June 2021</i>

DEP® platform delivers multiple benefits and unique flexibility in Antibody Drug Conjugates (ADCs)

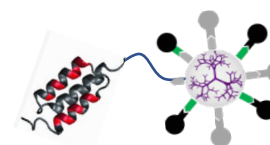
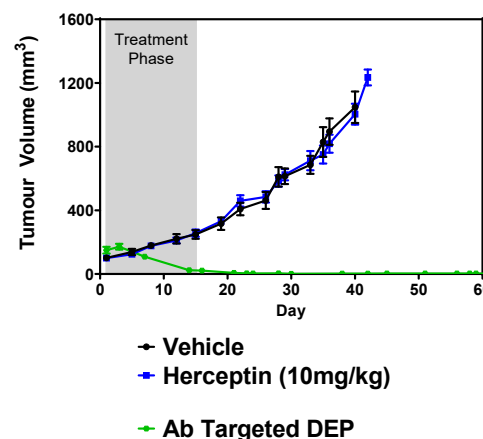
Starpharma's DEP® technology provides advantages, including enhanced efficacy, over conventional ADCs

Starpharma's DEP® ADCs – Multiple Benefits

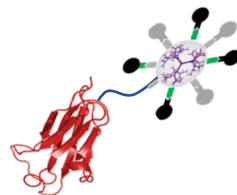
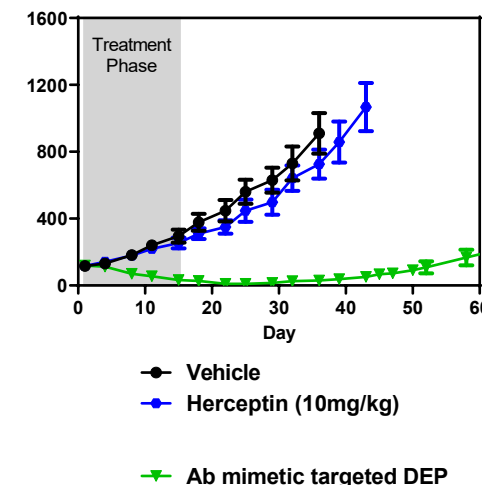
- Allows increased payload per dendrimer conjugate (DAR)
- Flexibility in use of wide range of targeting molecules e.g., full antibodies, antibody fragment, small molecules
- Can use a wide range of payloads and drug linkers to meet desired drug release requirements
- Readily scalable - precisely manufactured
- Can also deliver increased solubility and formulation benefits



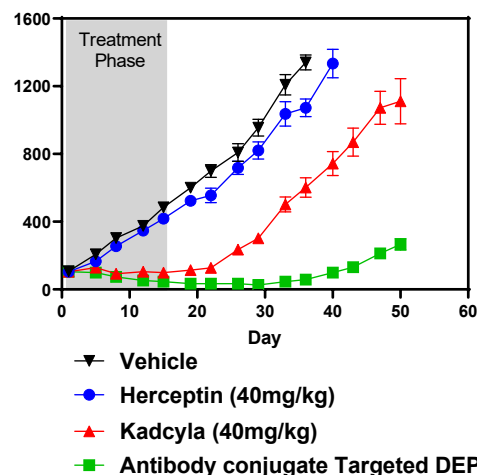
Full antibody



Affibody (antibody mimetic)



Nanobody (antibody fragment)

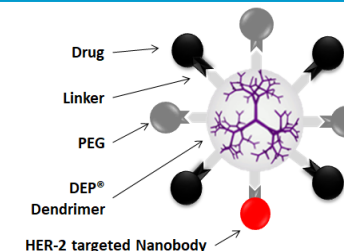


DEP® HER-2 ADC

DEP® HER2-ADC demonstrated significant tumour regression and 100% survival, outperforming Herceptin® & Kadcylla® in a human ovarian cancer model



2019 sales of Roche's Kadcylla® US\$1.62B and Adcetris >US\$1B




DEP[®] internal oncology programs

Multiple clinical-stage assets with high commercial value potential



PHASE 2

DEP[®] DOCETAXEL:
Enhanced version of docetaxel (Taxotere[®]) – widely used for breast, lung & prostate cancer

Docetaxel (Taxotere[®]) was a blockbuster cancer drug with peak global sales >US\$3B despite having multiple US FDA “Black Box” warnings

Advantages of DEP[®] docetaxel[#]:
Reduction in neutropenia; detergent-free formulation; no steroid pre-treatment; tumour-targeting (~70x more); improved efficacy; improved pharmacokinetics; patent filings to 2032 (plus up to an additional ~5 years).

PHASE 2




DEP[®] CABAZITAXEL:
Enhanced version of leading prostate cancer drug cabazitaxel (Jevtana[®])

Cabazitaxel (Jevtana[®]) – global sales of ~US\$600M for 2020 despite having multiple US FDA “Black Box” warnings

Advantages of DEP[®] cabazitaxel[#]:
Improved toxicity profile; detergent-free formulation; no steroid pre-treatment; tumour-targeting, improved efficacy; patent filings to 2039 (plus up to an additional ~5 years).


PHASE 2




DEP[®] IRINOTECAN:
Improved version of irinotecan (Camptosar[®]) - predominantly used for colorectal cancer

Camptosar[®] had peak global sales of US\$1.1B despite having multiple US FDA “Black Box” warnings.

Advantages of DEP[®] irinotecan[#]: Irinotecan is a pro-drug that is converted to the more active metabolite, SN38; DEP[®] solubilises SN38 and allows direct dosing, avoiding the need for liver conversion and patient variability; improved efficacy; patent filings to 2039 (plus up to an additional ~5 years).



Starpharma's deep preclinical pipeline includes DEP[®] candidates including:

- DEP[®] gemcitabine
- DEP[®] radiotherapeutic candidates
- DEP[®] antibody drug conjugate (ADC) candidates
- Other therapeutic areas

COMMERCIAL OBJECTIVE



Create value through clinical proof-of-concept (phase 2)



License following phase 2 clinical data; platform validation



Clinical data adds value to partnered programs



Utilise accelerated development /reg. pathways (i.e. 505b2) for optimal ROI

[#]Clinical studies have demonstrated reduction in important side effects with DEP[®] such as bone marrow toxicity, anaphylaxis, severe diarrhoea and hair-loss

^{*}Multiple preclinical studies have established improved efficacy, survival and safety with DEP[®] with many different drugs

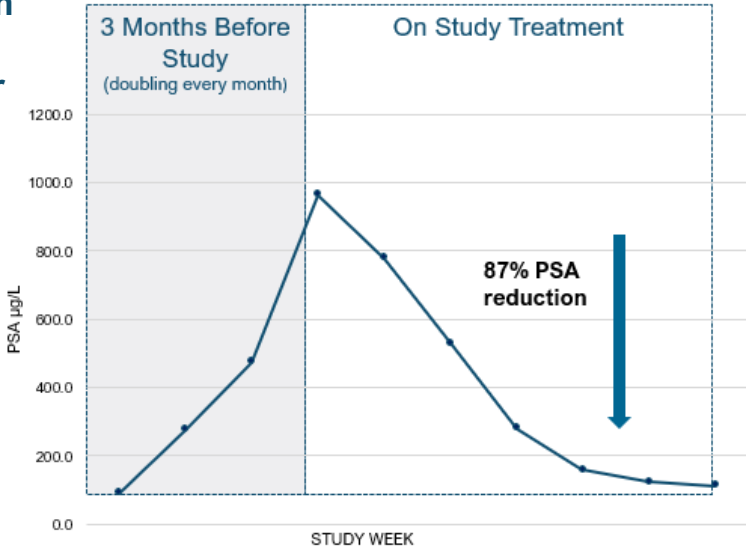
DEP[®] cabazitaxel: phase 2 trial ongoing, encouraging efficacy signals

Enhanced version of leading prostate cancer drug cabazitaxel (Jevtana[®])



Trial status:	Phase 2, ongoing, 51 patients recruited
Efficacy signals seen in:	Prostate, ovarian, gastro-oesophageal, cholangiocarcinoma, head & neck, lung, thymic and other cancers
Interim observations:	<ul style="list-style-type: none">• Encouraging efficacy signals have been observed, including radiological responses, significant target tumour shrinkage and substantial tumour biomarker reductions (e.g., Prostate Specific Antigen (PSA)), in cancers including prostate, ovarian, lung, gastro-oesophageal, head and neck and other cancers.• These impressive tumour responses were observed in heavily pre-treated patients and include significant tumour shrinkage including in prostate and ovarian cancer, in patients who have failed multiple other lines of cancer treatment.• Significantly fewer and less severe side effects, particularly bone marrow toxicity, than is usually associated with Jevtana[®].

62-year-old man with metastatic prostate cancer showed 87% reduction in PSA (right)



Positive DEP[®] cabazitaxel phase 2 interim results in prostate cancer patients

One or more encouraging efficacy signals were observed in 100% of advanced prostate cancer patients assessed following DEP[®] cabazitaxel treatment.

Sites:

DEP® cabazitaxel Phase 2 Trial – Positive Interim Results in Prostate Cancer Cohort



Prostate cancer is the 2nd most common cancer in males, with ~1.4 million new prostate cancer patients diagnosed annually¹

About cabazitaxel (Jevtana®)

- Primary indication – prostate cancer
- 2 FDA “Black Box” warnings for neutropenia and anaphylaxis (polysorbate 80 detergent)
- Sales of Jevtana® exceeded US\$600 million in 2020 (+12%)



DEP® cabazitaxel - Phase 2 prostate cancer patients

- 25 heavily pre-treated patients (average age 73 years) with Stage (IV) hormone-refractory prostate cancer
- Average of 4 prior anti-cancer treatments and >70 months/cycles
- >95% had received prior taxanes, including docetaxel and cabazitaxel (Jevtana®)
- Patients received DEP® cabazitaxel at 20mg/m² cabazitaxel
- No need for prophylactic steroids or antihistamines as polysorbate 80-free aqueous formulation
- No primary G-CSF⁴ prophylaxis required

DEP® cabazitaxel - Phase 2 interim results in prostate cancer cohort

100% of evaluable patients² had one or more efficacy response³:

- 64% had prolonged disease control for up to 36 weeks
 - 18% had significant tumour shrinkage, a Partial Response (Jevtana® – 18.5%)
- 90% had a PSA decrease
 - 52% had a ≥50% decrease in PSA (Jevtana® – 29.5%)
- 83% had no progression of secondary bone disease
- 56% evaluable for all three measures had responses in all three

Significantly fewer and less severe adverse events reported than for Jevtana:

- Fewer and less severe bone marrow toxicities, particularly neutropenia
- No anaphylaxis – DEP® cabazitaxel aqueous formulation – polysorbate 80-free
- No severe hypersensitivity or hair loss
- Vast majority of AEs mild to moderate
- Very few patients required G-CSF therapy for myelosuppression










¹: <https://www.uicc.org/news/globocan-2020-new-global-cancer-data>

²: Evaluable patients are those who received ≥1 dose DEP® cabazitaxel and had an applicable efficacy assessment conducted post treatment. 3 patients were not evaluable for efficacy.

³: Scher, H.I., et al., Trial design and objectives for castration-resistant prostate cancer: updated recommendations from the Prostate Cancer Clinical Trials Working Group 3. *J Clin Oncol*, 2016, 34(12):1402-18.

⁴: G-CSF: granulocyte-colony stimulating factor, is used as a therapy for myelosuppression

DEP[®] cabazitaxel: Advantages over Jevtana[®] many commercial parallels with Abraxane[®] (paclitaxel)

  		 Jevtana[®] 2020 sales US\$600M	 DEP[®] cabazitaxel (Improved nanoparticle formulation)
<ul style="list-style-type: none"> Abraxane[®] is an improved nanoparticle formulation of Taxol (paclitaxel), which had peak sales US\$1.6B prior to patent expiry Abraxane[®] approved in 2005 by the FDA initially for the treatment of breast cancer with further indications added Celgene acquired Abraxis[^] in 2010 for ~\$2.9B; Abraxane[®] sales were US\$314M in 2009 Abraxane[®] sales in 2020 – US\$1.24B (Celgene now part of BMS) Abraxane[®] now accounts for ~97% of paclitaxel sales (\$)  	FDA Black box warning	1. Neutropenic Deaths (febrile neutropenia)	<ul style="list-style-type: none"> Not observed
		2. Severe hypersensitivity (polysorbate-80 detergent)	<ul style="list-style-type: none"> Not observed; detergent-free formulation
	Premedication	<ul style="list-style-type: none"> Antihistamine (required) Corticosteroid (required) H2 antagonist (required) Antiemetic prophylaxis (recommended) 	<ul style="list-style-type: none"> Not required; polysorbate-80/detergent-free formulation
	Primary G-CSF prophylaxis (bone marrow protection)	<ul style="list-style-type: none"> Prophylactic G-CSF recommended for older/high-risk patients (to prevent severe myelosuppression) 	<ul style="list-style-type: none"> Not required Significantly less bone marrow toxicity (myelosuppression)
	Patent	<ul style="list-style-type: none"> EU – expired US – 2031 (use patent) will exclude generics 	<ul style="list-style-type: none"> EU – 2039 US – 2039 (potential for 5-year extension)

80-year-old man with stage IV prostate cancer



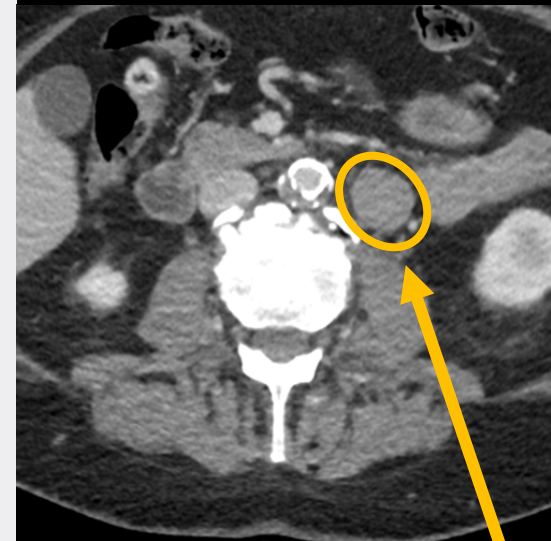
- Progressed following 33 cycles/months of 3 different prior anti-cancer therapies
- 7 cycles of DEP[®] cabazitaxel to date
- Achieved 79% reduction in PSA (prostate specific antigen)
- Achieved partial response (significant tumour shrinkage), including a 62% decrease in size of target lymph node)
- No G-CSF therapy required

Notable absence of clinically significant:

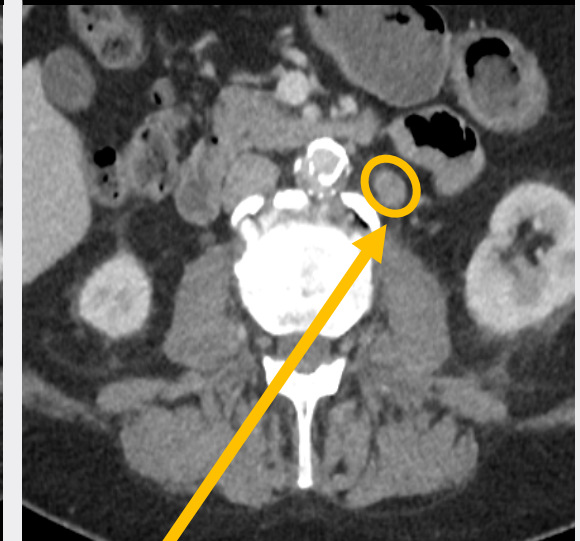
- Neutropenia
- Anaemia
- Thrombocytopenia

CT Scans of Lymph Node metastasis

BASELINE



POST-TREATMENT



62% reduction in size of cancerous lymph node, returned to normal size

Oesophageal cancer

- Oesophageal cancer is the sixth leading cause of cancer-related mortality worldwide.¹
- The diagnosis typically occurs in patients with locally advanced unresectable or metastatic disease, when palliative chemotherapy is the primary treatment option.
- The 5-year survival rates can be as low as 5%.²

1. Sung H, Ferlay J, Siegel RL, et al. Global cancer statistics 2020: GLOBOCAN estimates of incidence and mortality worldwide for 36 cancers in 185 countries. *CA Cancer J Clin.* 2021;71(3):209-249. doi:10.3322/caac.21660

2. Siegel RL, Miller KD, Fuchs HE, Jemal A. Cancer Statistics, 2021. *CA Cancer J Clin.* 2021;71(1):7-33. doi:10.3322/caac.21654

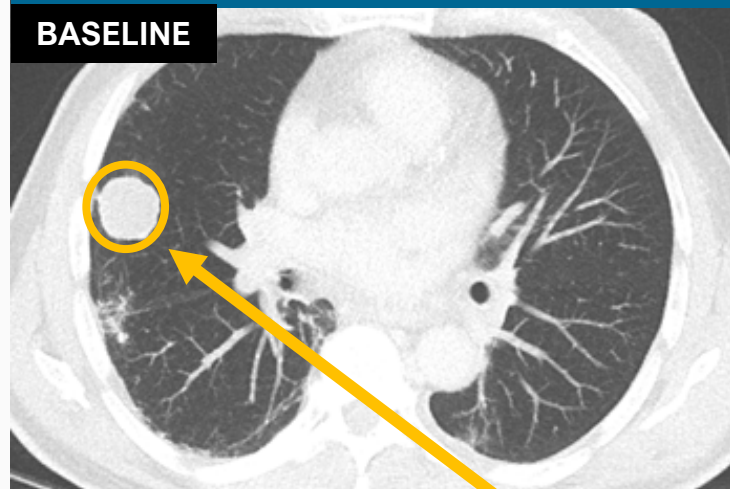
73-year-old man with stage IV oesophageal cancer



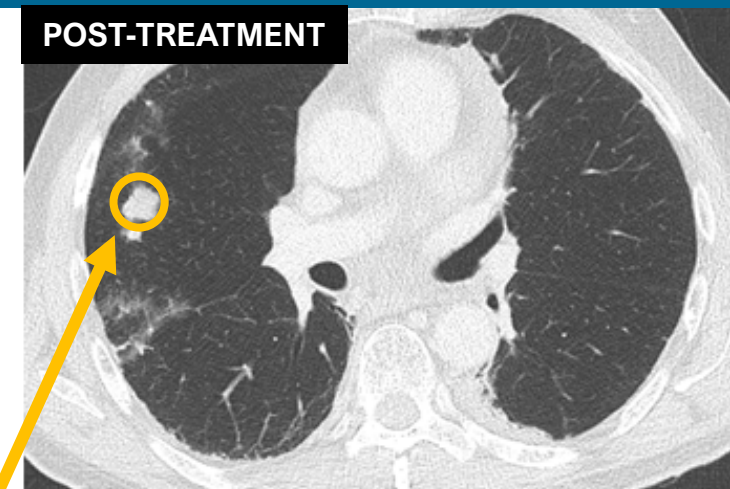
- Cancer progressed following extensive radiation therapy and chemotherapy
- Achieved partial response (significant tumour shrinkage) following 5 cycles of DEP[®] cabazitaxel:
 - 42% overall decrease in tumour burden
 - 45% reduction in size of lung metastasis

CT scans of cancer metastasis in lung

BASELINE



POST-TREATMENT









45% reduction in size of lung metastasis

DEP[®] docetaxel: phase 2 trial ongoing, encouraging efficacy signals

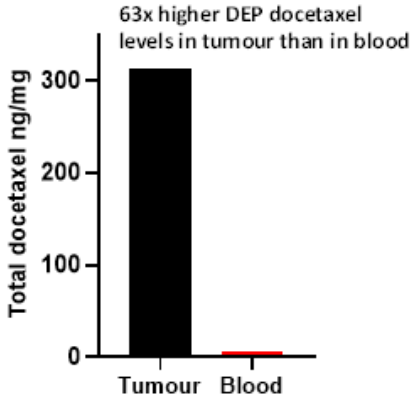
Enhanced version of docetaxel (Taxotere[®]) – widely used for breast, lung & prostate cancer



Trial status:	Phase 2 trial ongoing, 65 patients recruited [^]
Efficacy signals seen in:	Lung, pancreatic, oesophageal, cholangiocarcinoma, gastric cancers (and others)
Combinations:	+ gemcitabine (Gemzar [®]), targeting pancreatic cancer + nintedanib (Vargatef [®]), targeting lung cancer
Interim observations:	<ul style="list-style-type: none">• Encouraging efficacy signals observed, including prolonged stable disease and significant tumour shrinkage in patients with pancreatic, oesophageal, cholangiocarcinoma, and gastric cancer. These impressive tumour responses include stable disease for up to 40 weeks and significant tumour shrinkage in a heavily pre-treated late-stage oesophageal cancer patient.• Notable lack of bone marrow toxicity (e.g., neutropenia) and other common side effects incl. hair-loss, mouth ulcers, anaphylaxis and oedema.• Efficacy signals observed in heavily pre-treated patients (treated with up to 40 cycles and 9 different anti-cancer regimens previously).
Sites:	<div> University College London Hospitals</div> <div> The Newcastle upon Tyne Hospitals NHS Foundation Trust</div> <div> Guy's and St Thomas' NHS Foundation Trust</div> <div> The Leeds Teaching Hospitals NHS Trust</div> <div> The Christie</div> <div></div>



The same tumour targeting observed with DEP[®] in animal studies has been replicated in patients treated with DEP[®] docetaxel, **delivering substantially higher levels of drug to the tumour (> 63x) than in blood**



DEP[®] docetaxel clinical combination studies

DEP[®] docetaxel + gemcitabine (Gemzar[®])

- Based on compelling DEP[®] preclinical data & investigator interest, combination DEP[®] docetaxel with gemcitabine trial commenced, targeting pancreatic cancer

DEP[®] docetaxel + nintedanib (Vargatef[®])

- Encouraging efficacy signals observed
 - Prolonged stable disease & tumour shrinkage in non-small cell lung cancer; heavily pre-treated patients
 - Notable lack of bone marrow toxicity (e.g., neutropenia) and other common side effects, including mouth ulcers, anaphylaxis and oedema

[^]including across monotherapy and in combination

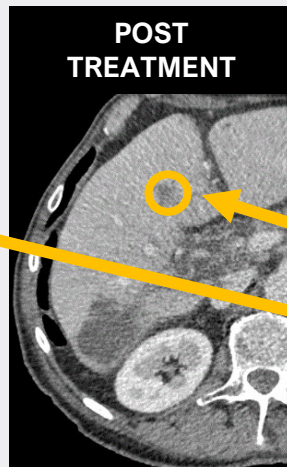
DEP[®] docetaxel clinical case studies: monotherapy and in combination

66-year-old man: stage IV oesophageal cancer with liver metastases (monotherapy)



Oesophageal cancer is the sixth leading cause of cancer-related mortality worldwide¹; 5-year survival rates can be as low as 5%²

- Patient had progressive disease after radiotherapy and 9 cycles of two different treatment regimens
- Response to DEP[®] docetaxel:
 - Reduction in size of tumour lesions of up to 48%; maintained for >16 weeks



48% reduction in size of tumour lesion

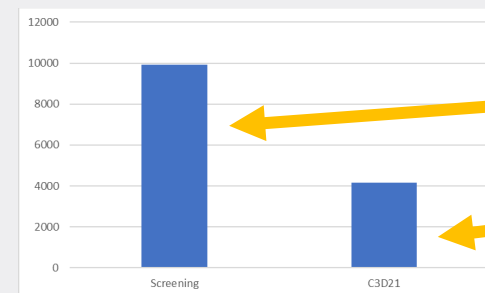
1: Sung H, Ferlay J, Siegel RL, et al. Global cancer statistics 2020: GLOBOCAN estimates of incidence and mortality worldwide for 36 cancers in 185 countries. CA Cancer J Clin. 2021;71(3):209-249. doi:10.3322/caac.21660/
2: <https://www.cancerresearchuk.org/about-cancer/oesophageal-cancer/survival>

74-year-old man with stage IV pancreatic cancer (in combination with gemcitabine)



Pancreatic cancer is the 12th most common cancer worldwide.³ The 5-year survival rate is only 10.7%.⁴

- Progressed following surgery and ~34 cycles of two different treatment regimens, including 6 cycles of gemcitabine
- Received 5 cycles of DEP[®] docetaxel + gemcitabine
- Response to combination therapy:
 - 58% reduction in tumour biomarker CA19-9 after 13 weeks
 - Stable disease for >19 weeks









58% reduction in tumour biomarker

3: <https://www.wcrf.org/dietandcancer/pancreatic-cancer-statistics/>
4: <https://www.canceraustralia.gov.au/about-us/news/tackling-one-australias-deadliest-cancers>

DEP[®] irinotecan: phase 2 trial underway, encouraging efficacy signals



Enhanced version of irinotecan (Camptosar[®]) - predominantly used for colorectal cancer

Trial status:	Phase 2, ongoing, 61 patients recruited
Efficacy signals seen in:	Breast, colorectal, ovarian, pancreatic, lung and oesophageal cancer
Interim observations:	<ul style="list-style-type: none">Encouraging efficacy signals observed include prolonged stable disease, impressive tumour shrinkage and reductions in tumour marker levels for a number of tumour types, including breast, colorectal, ovarian, pancreatic, lung and oesophageal cancer
Combinations:	<ul style="list-style-type: none">Combinations, based on investigator interest and preclinical studies, being explored with partners to create value
Sites:	<div></div>



DEP[®] irinotecan incorporates the irinotecan active moiety (SN38) and is an improved version of Camptosar[®]

DEP[®] irinotecan:

- Provides the ability to solubilise the active metabolite, SN38
- Removes the need for liver metabolism
- Showed improved efficacy and survival benefit in preclinical models
- Patented formulation

Results from DEP[®] irinotecan phase 1 trial:

- Encouraging efficacy signals observed in 50% of evaluable[^] patients, all of whom were heavily pretreated
- Efficacy signals observed included prolonged stable disease and substantial tumour shrinkage in tumour types including CRC, pancreatic and breast cancer
- No cases of the severe high-grade diarrhoea with DEP[®] irinotecan – this side effect is experienced by 20-40% of patients with conventional irinotecan, and often requires hospitalisation
- Patients treated with DEP[®] irinotecan generally experienced less severe side effects than typically associated with Camptosar[®]; AEs observed included nausea, vomiting, alopecia and neutropenia

Phase 1/2 Combination arm

DEP[®] irinotecan in combination with 5-FU+ Leucovorin ('FOLFIRI') – a commonly used combination treatment, particularly first-line, in colorectal cancer – to commence shortly in the UK and Australia.

[^]Evaluable patients are those patients who have received ≥1 dose DEP[®] irinotecan and have had a tumour assessment conducted post treatment

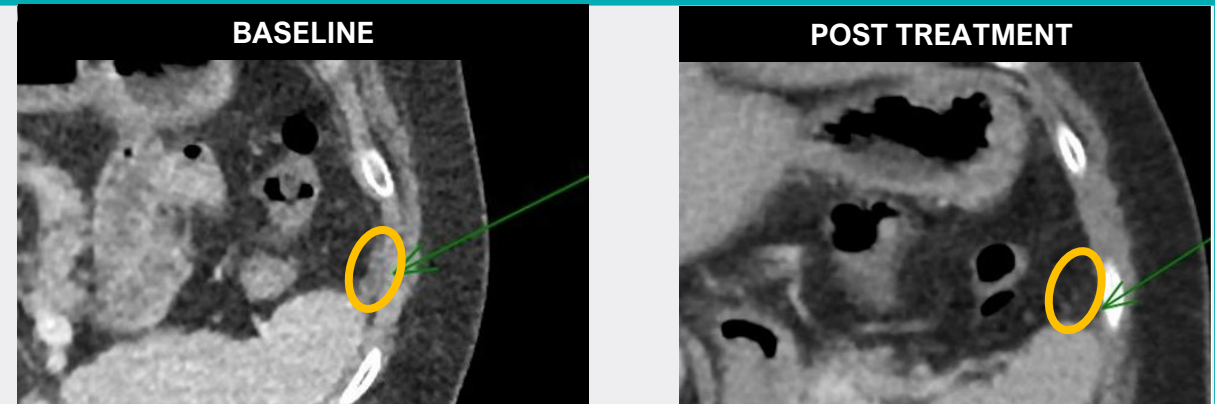
55-year-old woman with heavily pre-treated stage IV ovarian cancer



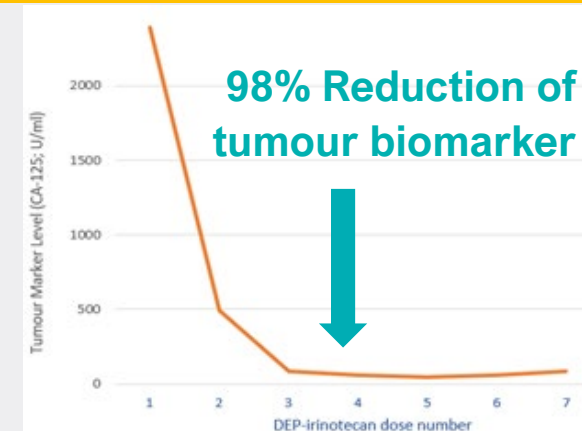
Ovarian cancer has the lowest survival rate of women's cancer* with a 5-year survival of ~17% for Stage IV

- Patient was **heavily pre-treated with > 60 treatment cycles of 6 different kinds** of anti-cancer therapy
- **Platinum and PARP-resistant ovarian cancer**
- Received 10 cycles of DEP[®] irinotecan
- Response to DEP[®] irinotecan:
 - **Complete resolution of target tumour lesion after 3 cycles** of treatment;
 - Partial Response **maintained for up to 27 weeks**
 - **98% reduction** in tumour biomarkers

* https://ovariancancer.net.au/wp-content/uploads/2019/01/Ovarian-Cancer-Facts-_2019_-FINAL.pdf



Complete resolution (100%) of tumour lesion up to 27 weeks of treatment with DEP[®] irinotecan



DEP® irinotecan: clinical case study in oesophageal cancer

Oesophageal cancer

- Oesophageal cancer is the sixth leading cause of cancer-related mortality worldwide.¹
- The diagnosis typically occurs in patients with locally advanced unresectable or metastatic disease, when palliative chemotherapy is the primary treatment option.
- The 5-year survival rates can be as low as 5%.²

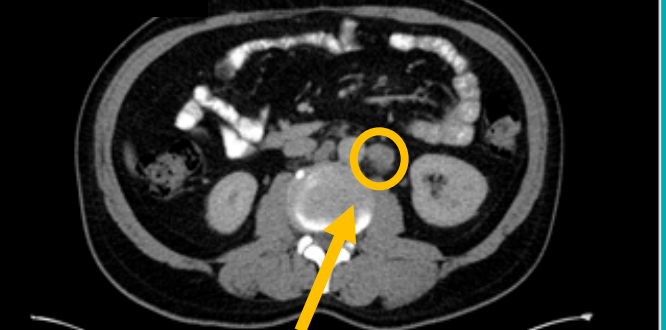
¹Sung H, Ferlay J, Siegel RL, et al. Global cancer statistics 2020: GLOBOCAN estimates of incidence and mortality worldwide for 36 cancers in 185 countries. *CA Cancer J Clin.* 2021;71(3):209-249. doi:10.3322/caac.21660
²Siegel RL, Miller KD, Fuchs HE, Jemal A. Cancer Statistics, 2021. *CA Cancer J Clin.* 2021;71(1):7-33. doi:10.3322/caac.21654

60-year-old man with stage IV oesophageal cancer



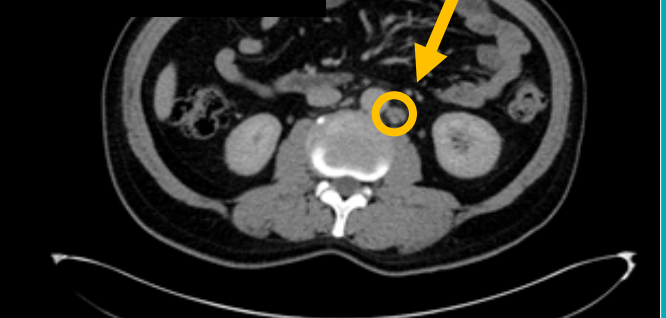
- Pre-treated with 3 different prior anti-cancer agents
- Received 7 cycles of DEP® irinotecan
- Significant tumour lesion reduction (40%) observed after 3 cycles of DEP® irinotecan
- Stable disease >18 weeks
- 87% reduction in tumour biomarker

BASELINE



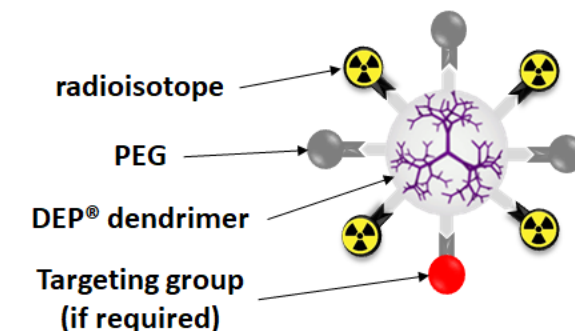
40% reduction in a tumour lesion size after 9 weeks of treatment

POST-TREATMENT













DEP® - a valuable platform with application to multiple radiotheranostics

- Radiotheranostics is a rapidly developing area of cancer treatment and diagnosis with sales estimated to grow to \$12–15 billion by 2030[^]
- Significant corporate activity in recent years
- Starpharma's DEP® platform has yielded multiple radiotheranostic DEP® products
- Starpharma continues discussions with potential partners regarding access to Starpharma's DEP® platform and licensing DEP® radiotheranostic/radiopharmaceutical candidates



Deals involving radiopharmaceuticals

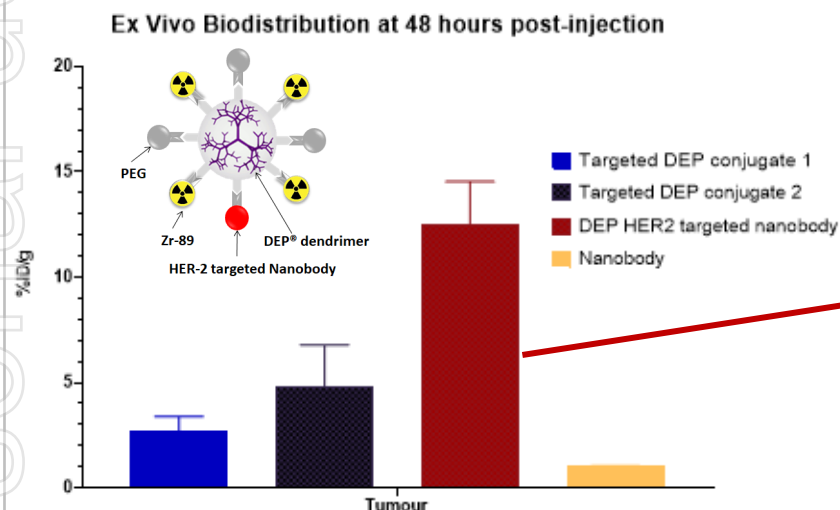


 	 	 	 	 
Novartis & Advanced Accelerator Applications (acquisition) US\$3.9B, Oct 2017	Novartis & Endocyte (acquisition) US\$2.1B, Oct 2018	Lantheus & Progenics (acquisition) US\$641M, Oct 2019	Telix & China Grand (licence) AU\$40M, Nov 2020	Fusion & Ipsen (product acquisition) €417.5M, Jan 2021

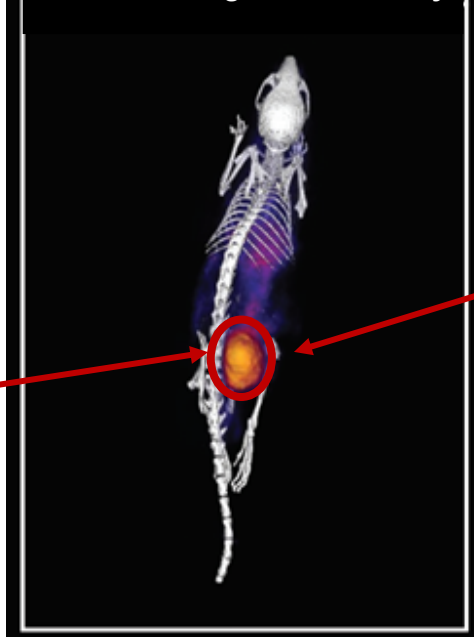
Targeted DEP[®] theranostics offer multiple benefits:

- Flexibility in size and structure of nanoparticle (allowing different targeting groups and pharmacokinetics)
- Enhanced tumour accumulation due to the EPR effect (10x nanobody alone)
- Enhanced tissue targeting and retention due to specific receptor binding (and internalization)
 - Enhanced entry and specific accumulation allows for enhanced PET visualization (diagnostic)
 - Enhanced accumulation and cellular internalization in tumours delivers enhanced efficacy and less off-target toxicity

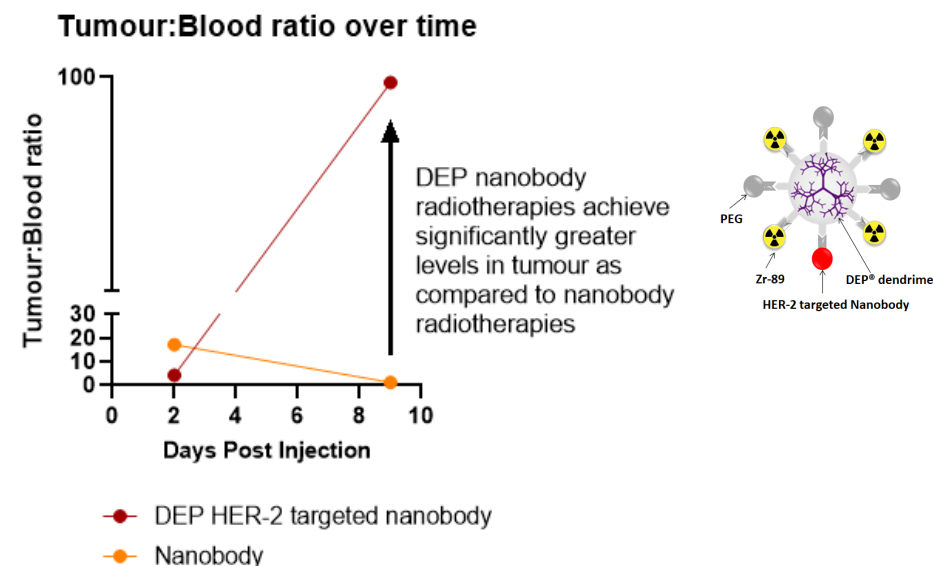
High levels of accumulation in tumour tissue within 48 hours allows Targeted DEP[®] radio conjugates to be valuable in a diagnostics (PET imaging)



DEP HER2 targeted nanobody



High levels of retention in the tumour (tumour: blood ratio) over an extended period delivers enhanced efficacy with reduced off-target toxicities

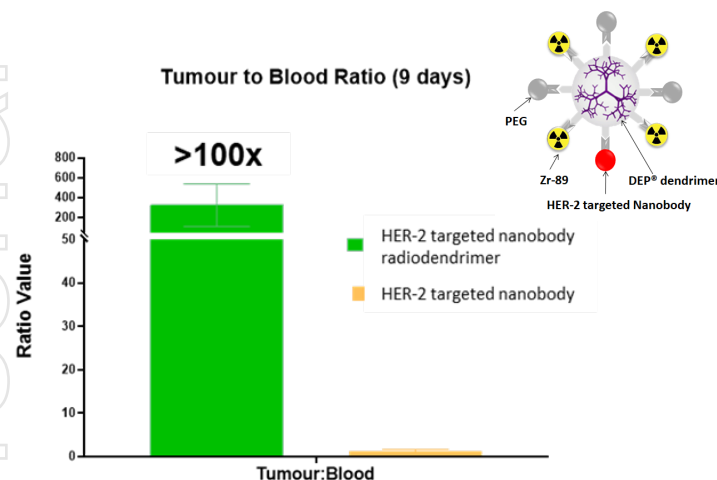


Starpharma has developed multiple novel radiotheranostic (radiodiagnostics and radiotherapeutics) candidates

DEP® radiodiagnostic

DEP® HER2-zirconium

- DEP® HER2-zirconium achieved significant tumour accumulation: >100x in tumour vs. blood in a human HER2-positive ovarian cancer model
- DEP® HER2-zirconium accumulation in tumour is significantly greater than nanobody alone products due to dendrimer delivery advantages (EPR effect)
- DEP® HER2-zirconium pharmacokinetics allow for optimal visualization in PET imaging

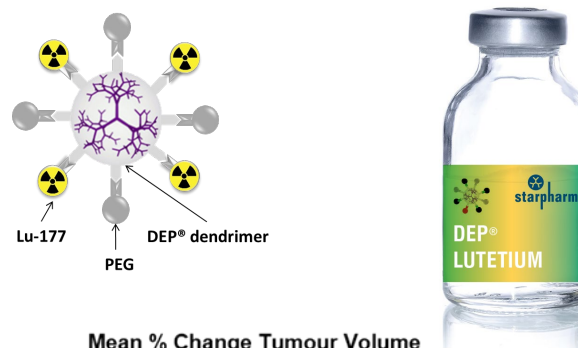


EPR: Enhanced permeation and retention effect

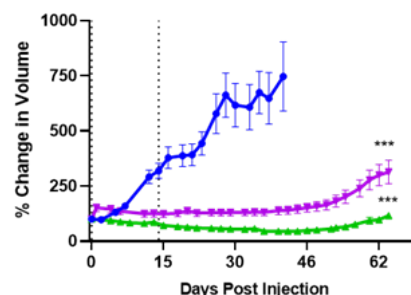
DEP® radiotherapeutics

DEP® lutetium

- DEP® lutetium showed significant anticancer activity, with tumour regression
- 100% survival in a human prostate cancer model¹



Mean % Change Tumour Volume



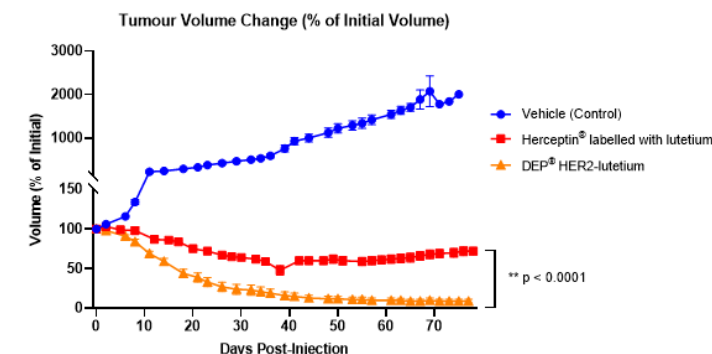
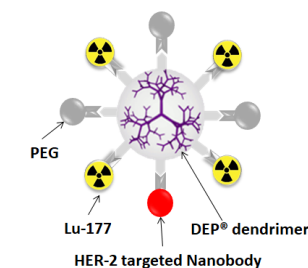
¹ 100% survival to >66 days

human prostate cancer model (DU-145)z

DEP® HER2-lutetium

DEP® HER2-lutetium:

- Achieved complete tumour regression
- Outperformed Herceptin® labelled with lutetium, in a human HER2-positive breast cancer model
- Was extremely well tolerated



VIRALEZE™ antiviral nasal spray is virucidal, inactivating >99.9% of SARS-CoV-2 (the coronavirus that causes COVID-19)



- Broad-spectrum antiviral nasal spray containing 1% SPL7013, shown in laboratory studies to inactivate respiratory viruses, including >99.9% of coronavirus SARS-CoV-2 (Paull, 2021)
- Virucidal, irreversibly and rapidly inactivating **>99.9%** of *multiple variants* of coronavirus/SARS-CoV-2, including **Delta**
- SPL7013 also irreversibly inactivates a broad spectrum of respiratory viruses
- **VIRALEZE™ is registered for sale in the UK/Europe & India**
- **VIRALEZE™ is partnered with LloydsPharmacy in the UK; ADMENTA Italia Group in Italy; and HealthCo/TBL & Nam Thanh Medical in Vietnam**
- **VIRALEZE™ regulatory submissions (including TGA) made, others in progress and commercial discussions for multiple countries well advanced**

LloydsPharmacy

ADMENTA Italia

VIRALEZE



VIRALEZE™ is not approved for sale or supply in Australia.

VIRALEZE™ advantages

- ✓ Broad-spectrum, works against multiple strains of **SARS-CoV-2 and multiple respiratory viruses**
- ✓ **Virucidal, irreversibly and rapidly inactivating >99.9% of coronavirus/SARS-CoV-2 within one minute (Paull, 2021)**
- ✓ **Potent antiviral activity against multiple strains of SARS-CoV-2, including 'Variants of Concern', Delta, Alpha, Beta and Gamma**
- ✓ Ability to inactivate virus either before or after exposure
- ✓ Well-tolerated; acts locally in the nasal cavity and is not absorbed into the bloodstream[^]
- ✓ Provides a moisturising and protective barrier to help keep nasal tissue hydrated
- ✓ Room temperature storage, easy and convenient for regular use



[^]Starpharma completed a double-blinded, placebo-controlled safety study to support marketing of VIRALEZE™. The study involved 40 healthy volunteers, using the product 4 times a day for 14 days. VIRALEZE™ was well tolerated by all participants, with no notable or serious adverse events reported. Results confirmed that SPL7013 is not absorbed into the bloodstream following nasal application - potential for systemic effects is negligible.

Paull J.R.A., et al. Virucidal and antiviral activity of astodimer sodium against SARS-CoV-2 in vitro. *Antiviral Res* 2021;191:105089 (<https://doi.org/10.1016/j.antiviral.2021.105089>)

VIRALEZE™ antiviral nasal spray launched in UK/EU 1HCY21, further registrations achieved, and further launches to follow



VIRALEZE



VIRALEZE™ is registered in Europe, India, and New Zealand. Registration of VIRALEZE™ is also being sought in multiple regions worldwide

VIRALEZE™ partnered with HealthCo/TBL for supply and distribution in Vietnam. Registration well advanced



VIRALEZE™ Webstore has shipped to >50 countries worldwide

ADMENTA Italia

VIRALEZE™ partnered with ADMENTA Italia Group for the sales and distribution of VIRALEZE™ in Italian pharmacies

LloydsPharmacy

VIRALEZE™ partnered with LloydsPharmacy in the UK and the product packaging has been updated in anticipation of resolution with MHRA and re-launch

Starpharma is also in advanced discussions with potential commercial partners elsewhere in Europe, multiple countries in Asia, India, the Middle East, and other regions

- VIRALEZE™ is manufactured in Europe utilising an existing qualified contract manufacturing organisation (CMO)
- Starpharma's CMO has flexible manufacturing facilities and they have built additional capacity to meet demand
- Starpharma has worked with existing raw material suppliers and has built inventory of components and raw materials



VIRALEZE™ distribution and supply in Vietnam

- Starpharma signed an initial supply contract and received first orders for 100,000 units and is well advanced in negotiations of an ongoing distribution agreement
- Starpharma has already filled its first order of VIRALEZE™ antiviral nasal spray for Vietnam with product having arrived in Vietnam ready for launch
- A portion of VIRALEZE™ of the initial orders will be donated to hospitals and organisations in Vietnam
- Registration of VIRALEZE™ in Vietnam is well advanced
- Vietnam is experiencing a widespread Delta outbreak has a population of ~100M and low levels of vaccination with ~50% of its population fully vaccinated

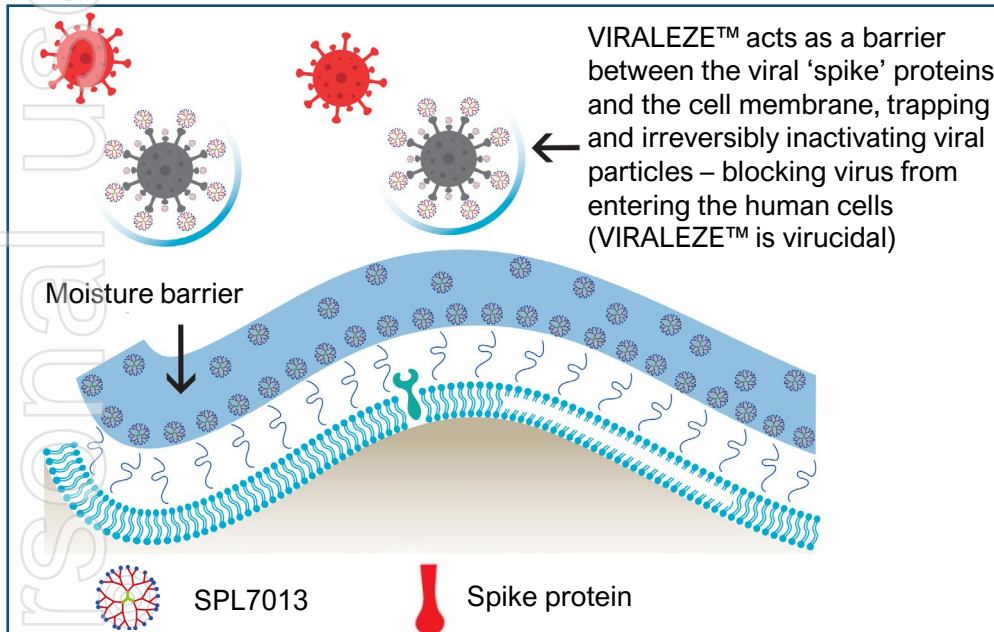


Examples of
Starpharma's
partners'
marketing and
launch materials
for VIRALEZE™
in Vietnam



How VIRALEZE™ works and why it maintains activity despite mutations

- SARS-CoV-2 infects human cells by using the characteristic viral surface proteins, or “spikes”, to attach to receptor proteins on the surface of human cells
- Antiviral agent in VIRALEZE™, SPL7013, irreversibly traps viral spike proteins, inactivating virus and preventing infection**



VIRALEZE™ is not approved for sale or supply in Australia.

VIRALEZE™ (SPL7013) has potent and virucidal activity against multiple variants of SARS-CoV-2



- Antiviral testing has confirmed SPL7013 (VIRALEZE™ antiviral agent) has potent (>99%) virucidal activity against the Delta, Alpha, Beta and Gamma variant strains of SARS-CoV-2 coronavirus in laboratory studies
- The broad-spectrum antiviral activity of VIRALEZE™ is an important advantage for the product, especially as new variants of SARS-CoV-2, including the latest Omicron Variant of Concern, continue to emerge[^]
- SPL7013 mode of action and activity has not been adversely impacted by mutations in the spike proteins, i.e., SPL7013 is less susceptible to “escape”, which can occur with products based on more specific binding mechanisms

Mutations that make SARS-CoV-2 more infectious (bind more tightly to cells) appear to make the virus more susceptible to trapping by SPL7013

Virus: SPL7013 [†] Incubation Time	Percent Reduction of Infectious Virus vs Virus Control [^]					
	US	Alpha	Beta	Gamma	Delta	Kappa
30 seconds	>99.9%	>99.9%	>99%	>99%	>99.99%	>99.9%

[†] 10 mg/mL SPL7013; [^] virus without exposure to SPL7013



“It is particularly exciting to see a product with this level of virucidal activity, especially against these Variants of Concern... The latest data are consistent with our previous data showing robust antiviral and virucidal effects of SPL7013 against the US strain of SARS-CoV-2 and suggests a mechanism of action that is not impacted by mutations affecting the virus spike proteins.”

- Professor Philippe Galloway, Scripps Research institute

[^]Testing of SPL7013 against Omicron will be undertaken as soon as virus is available.

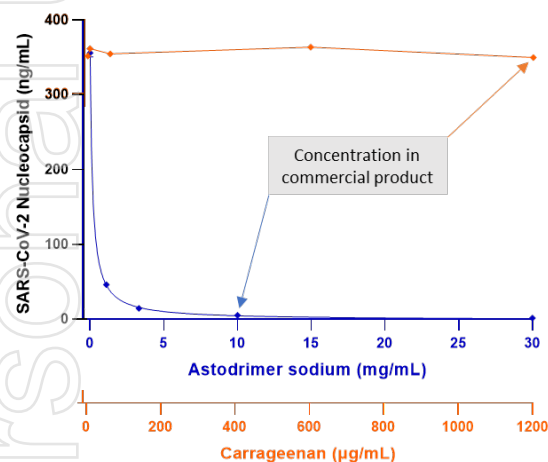
SPL7013 has potent antiviral activity across a wide range of respiratory viruses

- Extensive research has been conducted at **The Scripps Research Institute** in the US and is published in the prestigious, peer reviewed scientific journal, **Antiviral Research**
- A 1% w/w concentration of SPL7013 (the concentration found in VIRALEZE™) has been shown to **inactivate >99.9% of SARS-CoV-2 within 30 seconds**; maintains its antiviral effects when **applied either before or after exposure to virus**
- SPL7013 has been shown to have potent antiviral effects against **influenza viruses and RSV** as well as other respiratory viruses that have caused pandemics - **SARS, MERS, and Swine Flu (H1N1)**



The antiviral effect of SPL7013 compares favorably with other antiviral agents:

Antiviral effects of SPL7013 against SARS-CoV-2 vs. carrageenan



Carrageenan
(active in other antiviral nasal sprays)
0.5% inhibition

SPL7013
(active in Viraleze)
>99% inhibition



VIRALEZE™ antiviral (SPL7013) showed >99% inhibition of SARS-CoV-2, at therapeutic concentrations, where carrageenan was not effective, even at the highest concentration tested.

VIRALEZE™ is not approved for sale or supply in Australia.

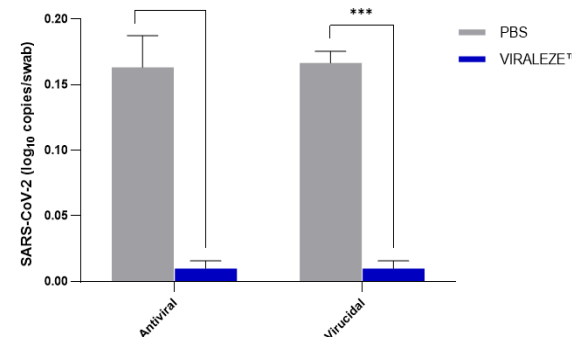
VIRALEZE™ protects against infection in SARS-CoV-2 challenge model



VIRALEZE™ protected animals and significantly reduced their viral load in a WHO recommended, humanized animal model of SARS-CoV-2 infection published in the peer-reviewed journal, **Viruses**

- VIRALEZE™ administered nasally reduced viral load by >99.9% in the lungs and trachea** (vs. saline control) of animals challenged with SARS-CoV-2
- Viral load in the nasal cavity** of animals treated with VIRALEZE™ was also **significantly lower (>90%)** compared with the control animals
- VIRALEZE™ treated animals had no infectious virus detected in brain or liver, in contrast to all control animals
- Pro-inflammatory cytokines (IL-6, IL-1α, IL-1β, TNFα and TGFβ) in serum, lung and trachea were significantly lower in VIRALEZE™ treated animals v. saline

Viral Load in Nasal Cavity of SARS-CoV-2 infected K18-hACE2 mice treated with PBS or VIRALEZE™



<https://www.mdpi.com/1999-4915/13/8/165>

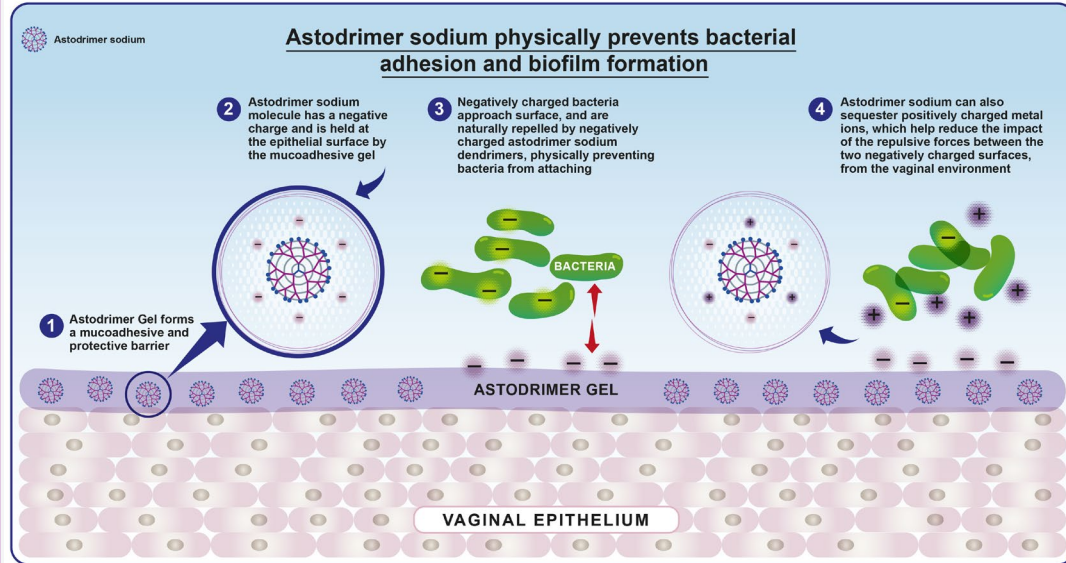
Figure 2. The number of SARS-CoV-2 (USA-WA1/2020) viral genome copies (qRT-PCR) on Day 7 per nasal swab from K18-hACE2 mice treated with PBS or VIRALEZE™ nasal spray and infected with SARS-CoV-2 (USA-WA1/2020) (Antiviral) or infected with SARS-CoV-2 (USA-WA1/2020) inoculum pre-incubated with PBS or VIRALEZE™ nasal spray (Virucidal). Columns and error bars represent mean ± SEM. * $p < 0.05$, *** $p < 0.001$, paired t-tests.

Source: Testing conducted at The Scripps Research Institute 2: Paull, J.R.A., et al. 2020. Virucidal and antiviral activity of astodimer sodium against SARS-CoV-2 in vitro. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3830085

VivaGel® BV - a breakthrough product for the treatment of BV and prevention of recurrent BV

- Bacterial vaginosis or BV is the most common vaginal infection worldwide, affecting 1 in 3 women
- BV is caused by an imbalance of naturally occurring normal bacterial vaginal flora and can lead to a range of medical issues
- BV treatment has typically involved antibiotics (e.g., metronidazole). Antibiotic resistance is a problem and antibiotics have unpleasant side effects and there is demand for alternative approaches. Other current BV therapies do not prevent BV recurring

VivaGel® BV has a novel mechanism of action



**BREAKTHROUGH THERAPY FOR A
SIGNIFICANT UNMET NEED**



Rapid relief of odour
in 24 hours



Targets harmful BV-
causing bacteria



Restores vaginal flora,
normalises pH levels



Clinically proven to
prevent recurrent BV



Clinically proven to
treat BV



Non-antibiotic and not
absorbed into the blood
stream



VivaGel® BV is licensed in >160 countries around the world and approved in >45 countries with multiple other submissions underway



Launched in the UK, Europe, Asia, South Africa, Australia & NZ



Further launches and regulatory submissions progressing in multiple regions

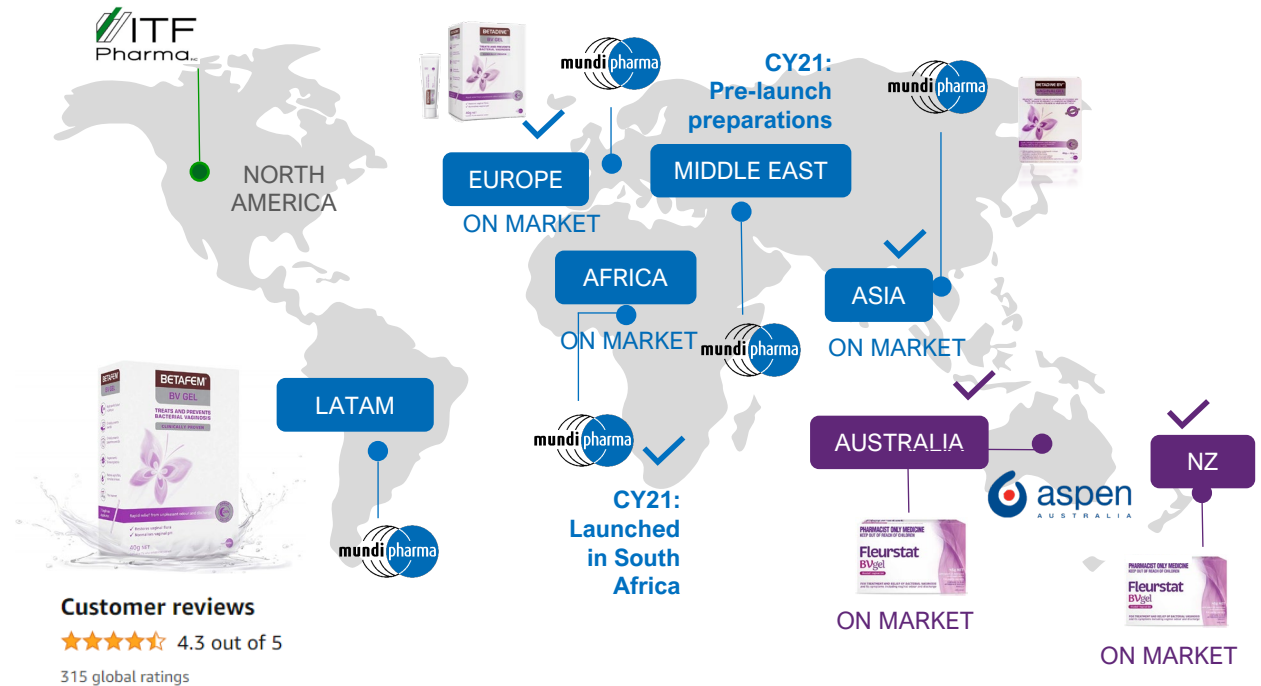


Global market for BV treatment est. to be US\$750M and prevention est. to be US\$1B annually

COVID-19 had a significant impact on healthcare provision and marketing:

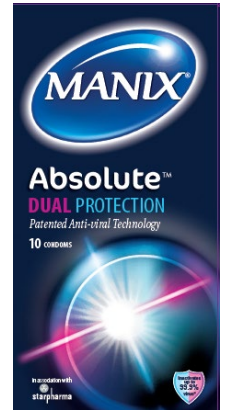
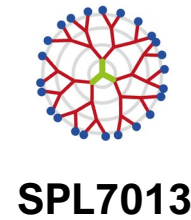
- Overloaded healthcare systems diverted from standard activities
- Reduced access to medical consultations, including women's health
- Face-to-face consultations significantly decreased
- Marketing activities significantly curtailed
- Individuals have avoided seeking treatment for health problems due to lockdowns and avoidance of medical settings

In the US, a formal dispute resolution process is ongoing with the FDA as part of the regulatory process for VivaGel® BV, and COVID-19 has had an impact on timing. VivaGel® BV's Fast Track status & QIDP (qualified infectious disease status) remain on foot based on potential for VivaGel® BV to address a serious infection and significant unmet need in BV. ITF Pharma licence remains on foot.



Left: Retail Pharmacy article featuring Fleurstat BVgel, September 2021.

- The VivaGel® condom incorporates SPL7013 antiviral, which has demonstrated activity in HIV, HSV-2, HPV
- Starpharma continues to support its marketing partners, Okamoto (Japan/Asia), LifeStyles, and Sky and Land (China), to progress registration and commercialisation of the VivaGel® condom.
- In 2021, the VivaGel® condom was launched in Europe under the LifeStyles brand name Absolute™ Dual Protection.
- Starpharma continues to progress regulatory activities in other regions



Key value drivers and outlook - DEP® platform



→ Progress and completion of DEP® docetaxel, DEP® cabazitaxel & DEP® irinotecan phase 2 trials; progress value-adding combination studies



→ AZD0466 clinical progress, expansion of trial sites recruitment & receipts of milestones

→ AstraZeneca: Exercise of Option Agreement &/or deals for further compounds



红日药业集团
CHASE SUN



→ Progress with existing partnered DEP® programs, including with Merck & Co., Inc., & Chase Sun

→ Execute/expand new DEP® partnerships/agreements

→ Advance DEP® radiopharmaceuticals, DEP® ADCs & DEP® antivirals

→ Advance value-adding DEP® combinations in clinic & other DEP® products

Key value drivers and outlook - VIRALEZE™ and VivaGel® BV



→ Further roll-out of VIRALEZE™ Antiviral Nasal Spray in registered regions

→ Further VIRALEZE™ registrations in other regions

→ Further VIRALEZE™ launches in other regions



→ Further distribution & marketing arrangements with commercial partners

→ Continued testing of SPL7013 against SARS-CoV-2 variants & other respiratory viruses



→ Commercial roll-out of VivaGel® BV in Europe, Asia & other markets

→ Further regulatory approvals & launches for VivaGel® BV; building revenues – milestones & sales/royalties

→ VivaGel® BV – FDA review process



→ Further VivaGel® BV licences

→ VivaGel® condom approvals/launch in additional regions

→ Further development/ co-development of SPL7013 e.g., potentially for ocular use



ENVIRONMENT

Appropriate systems in place to comply with relevant Federal, State, and Local environment regulations



Starpharma is committed to conducting its operations in an environmentally responsible manner

Starpharma has adopted documented procedures and processes to ensure all waste products are disposed of strictly in accordance with relevant environmental regulations.

SOCIAL

 >40% of roles, including leadership roles are held by female

Starpharma's supplier code includes a wide range of business practices to provide suppliers with clear expectations regarding their conduct

17 countries represented by a small, diverse group of employees



GOVERNANCE

Compliance with



No breaches of:

- Code of Conduct
- Anti-bribery
- Whistleblowing

DIRECTOR INDEPENDENCE



BOARD 80%
COMMITTEES 100%

Starpharma is committed to the principles underpinning best practice in corporate governance, with a commitment to the highest standards of legislative compliance and financial and ethical behaviour.

'Having a diverse workforce drives better outcomes for our business and provides the company with greater breadth of experience and ideas'.



[Download Report](#)

The very nature of Starpharma's products affords the opportunity of changing lives for the better



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