

A photograph of a modern glass building with a blue tint overlay. The building has a distinctive facade with large, white, triangular structural elements. The text is overlaid on the left side of the image.

Blue Cell Therapeutics

*Allogeneic cell therapy for nerve regeneration
and angiogenesis*

April 2025

Clinic ready, scalable,
safe and long-lasting
allogeneic cell therapy
for nerve regeneration
and angiogenesis

- Blue Cell Therapeutics has developed a potentially curative solution for diseases where angiogenesis and nerve regeneration are beneficial.
- Lead product, BlueC-231, is in development for the treatment of severe Erectile Dysfunction (ED)
- Other indications under investigation, including Pulmonary Arterial Hypertension (PAH).
- Clinical proof of concept data with 72% full response in early clinical trial, and plan for two phase I/II trials with improved BlueC-231 cells in 2027. 1st arm in men with ED who have undergone prostatectomy and 2nd arm in men with diabetes mellitus
- Patented and scalable allogeneic manufacturing strategy for adipose derived stem cells with angiogenic and neuro-regeneration activity.
- 70,000 patients can be treated with material from a single donor.
- Looking for €39 MM Series A to reach clinical validation.

Blue Cell partners – academic, commercial, and hospitals



Lonza

CHARITÉ / innovationsfonden

KLIFO



Rigshospitalet

SDU
University of
Southern Denmark

Experienced drug development team and Board of Directors

Management



Søren P Sheikh MD, PhD, HD
Chief Executive/Medical Officer



Thomas Sandal, MSc, EBA
Chief Development/Technology Officer



Blue Cell team



Benjamin Class, PhD
Senior Scientist



Maja L. Nybo, PhD
Senior Scientist



Reza Yarani, PhD
Senior Scientist



Jone Kvam, MSc
Scientist



Mingshu M Eriksen, BSc
Senior Lab Technician



Mette Søgaaard Hansen, BSc
Senior Lab Technician

Board of Directors



Ole Vahlgren
Chairman of the Board



Michael Ulveman
Board member



Anders Vadsholt
Board member



Anella S. Rogaczewski
Board member

Advisory board

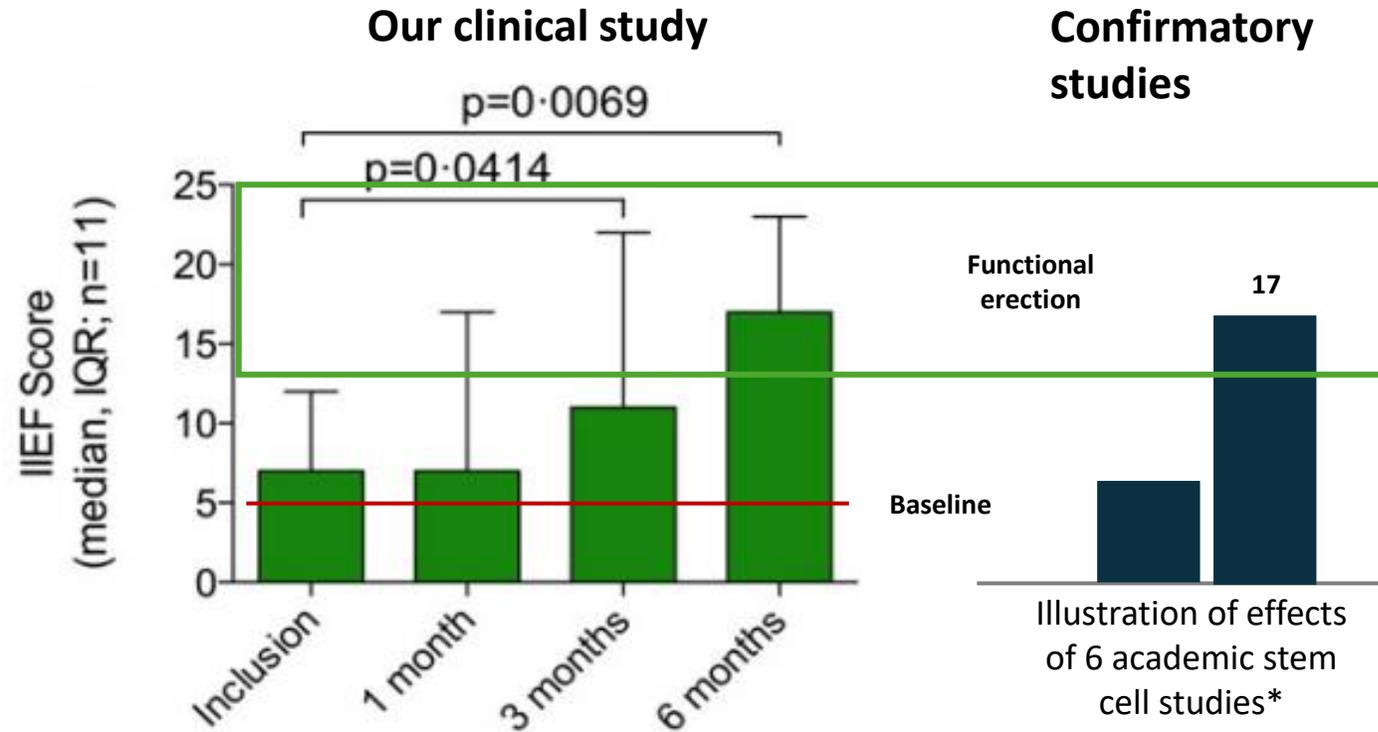
Miguel Mulet
CEO Thytech, Tigenix. Alofisel on the market.

Ian Pearce
Prof. Urology, Manchester Royal Infirmary

Jakob Lerche Hansen
PhD, Novo Nordisk, Blue Cell Therapeutics

Early data show 72% of severe ED patients regained functional erection with autologous adipose-derived stem cells

- 11 patients with severe ED and unresponsive to pharmaceuticals enrolled in clinical trial at Odense University Hospital
- Treated with BlueCell autologous Adipose-derived Stem Cell therapy - 1 year after prostatectomy
- 8 of 11 (72%) regained their ability to have an erection and perform sexually at 6 months.



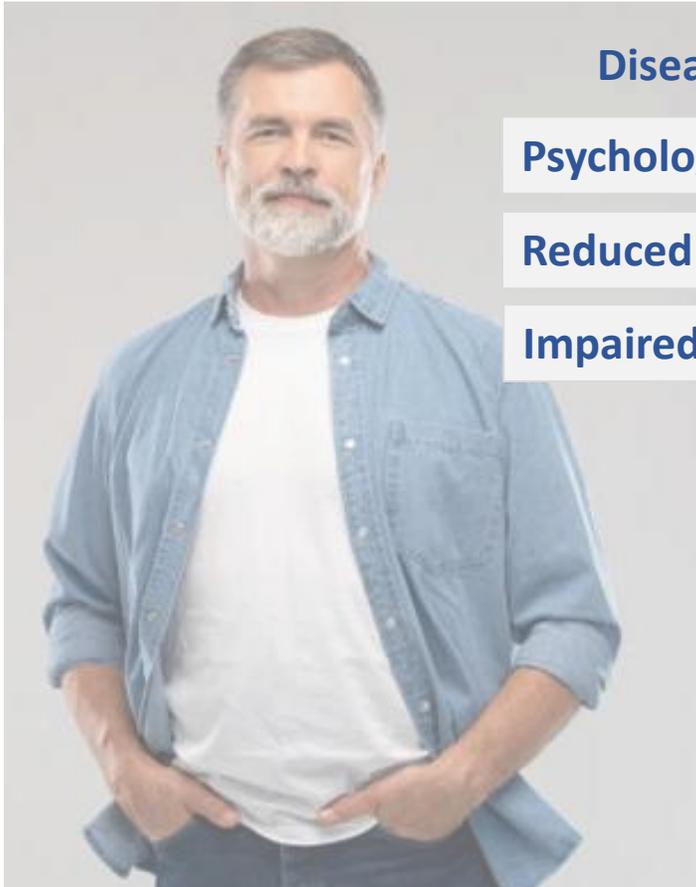
Haahr and Sheikh et al., *EBioMedicine* (2016). 5:204–210

International Index of Erectile Function questionnaire (IIEF) scores for each patient at inclusion, 1, 3 and 6 months after a single intra-cavernous bolus of autologous ASCs.

* *Yiou et al. Eur Urol Focus* (2017), 3:643. *Al Demour et al. Urologia Int.* (2021). 105:935 and 4 other studies

***Sansone et al., Sexual Medicine* (2023). 11:204–21

Cell therapy provides the first potentially curative treatment for Erectile Dysfunction by restoring vascular function



Disease mechanisms

Psychological effects

Reduced neuronal function

Impaired vascular function

Entry market

Surgery related ED e.g.

Prostatectomy

Homogeneous
patient population

Expansion market

Metabolic related ED e.g.

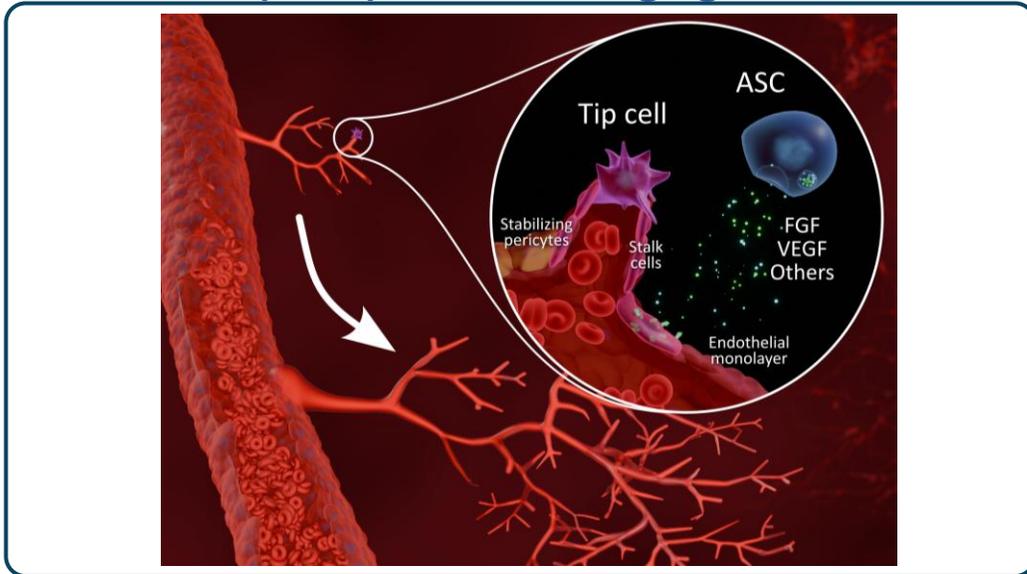
**Diabetes, Vascular
disease, Age**

Heterogeneous
patient population

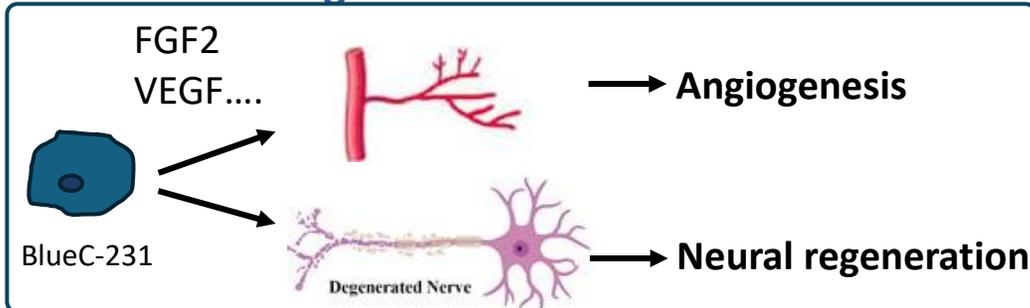
The causes of erectile dysfunction are diverse. The central cause is related to reduced blood supply to the penile tissue. This may be caused by surgery, metabolic or vascular diseases. Improving blood supply and nerve function are the mechanisms of action believed to be able to cure erectile dysfunction

Blue Cells can recreate blood vessels, restore damaged nerves, and alleviate and cure erectile dysfunction

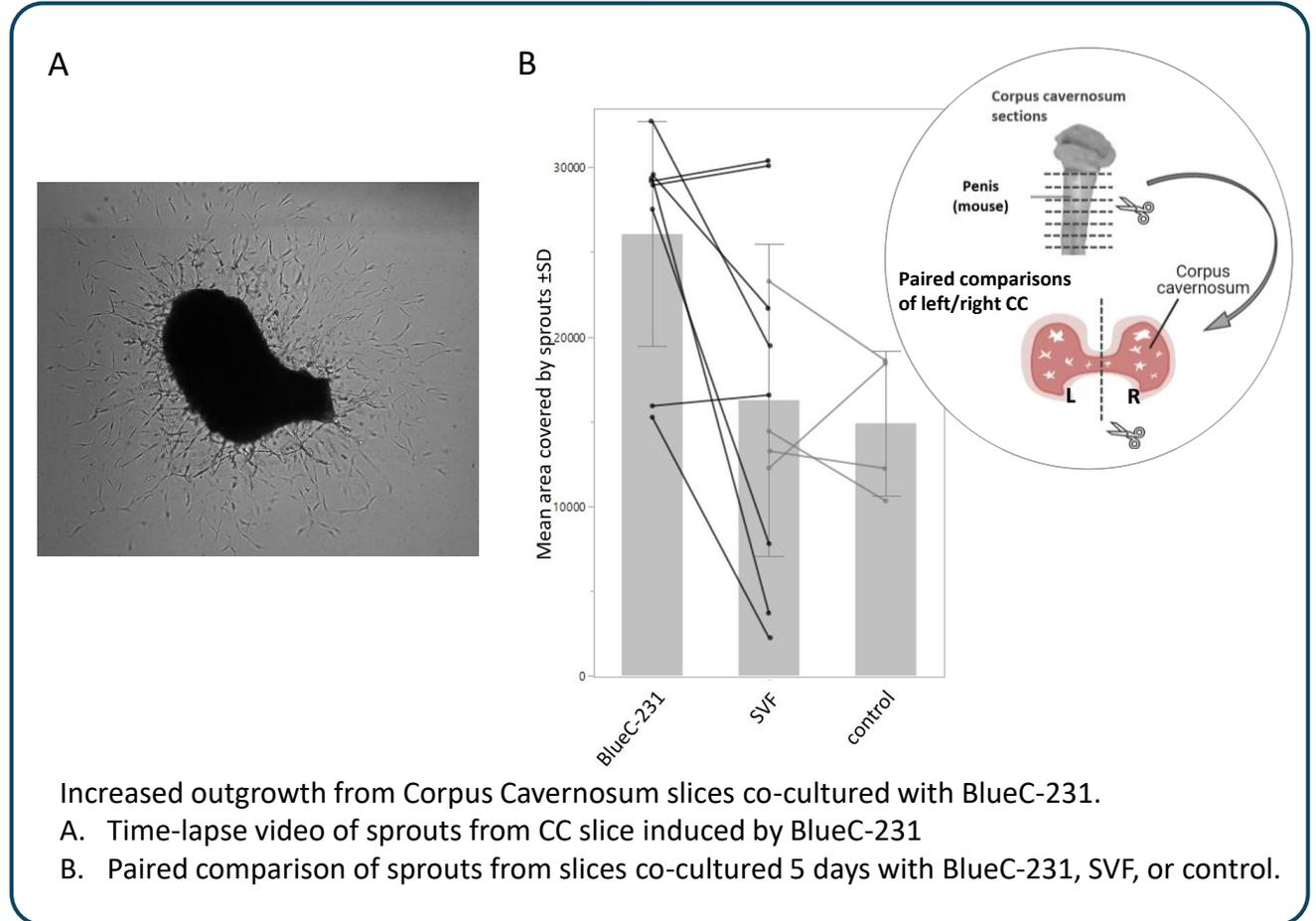
BlueC-231 (ASCs) stimulate angiogenesis...



... and neuro-regeneration

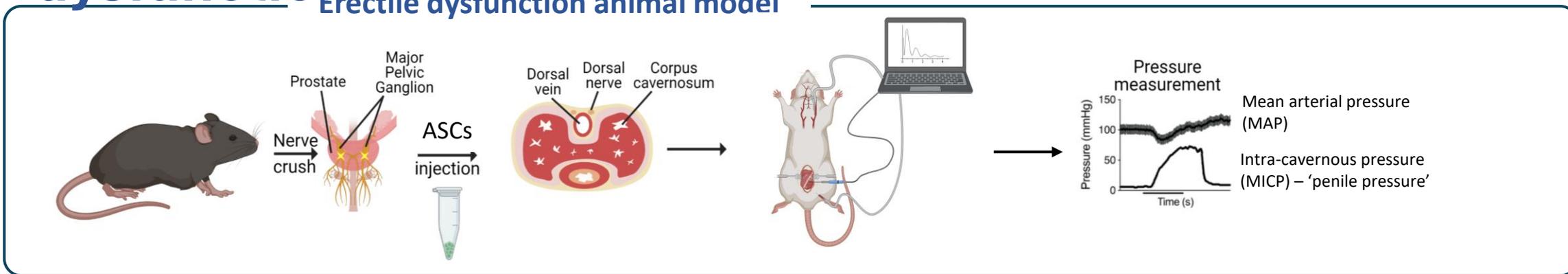


BlueC-231 induce angiogenesis in Corpus Cavernosum slices – more efficiently than clinically tested SVF

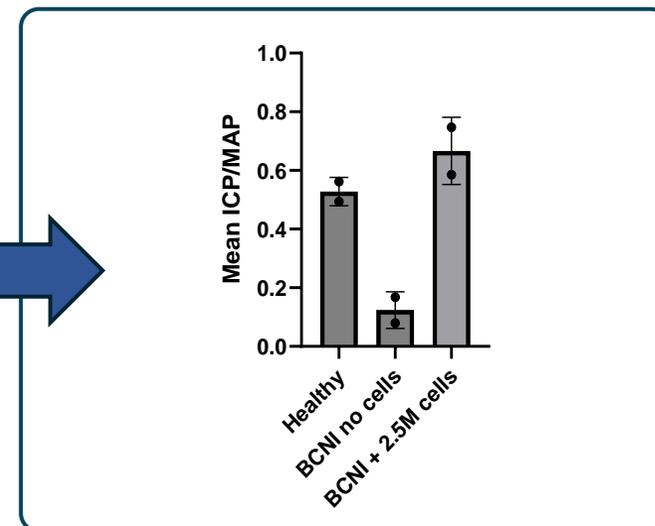
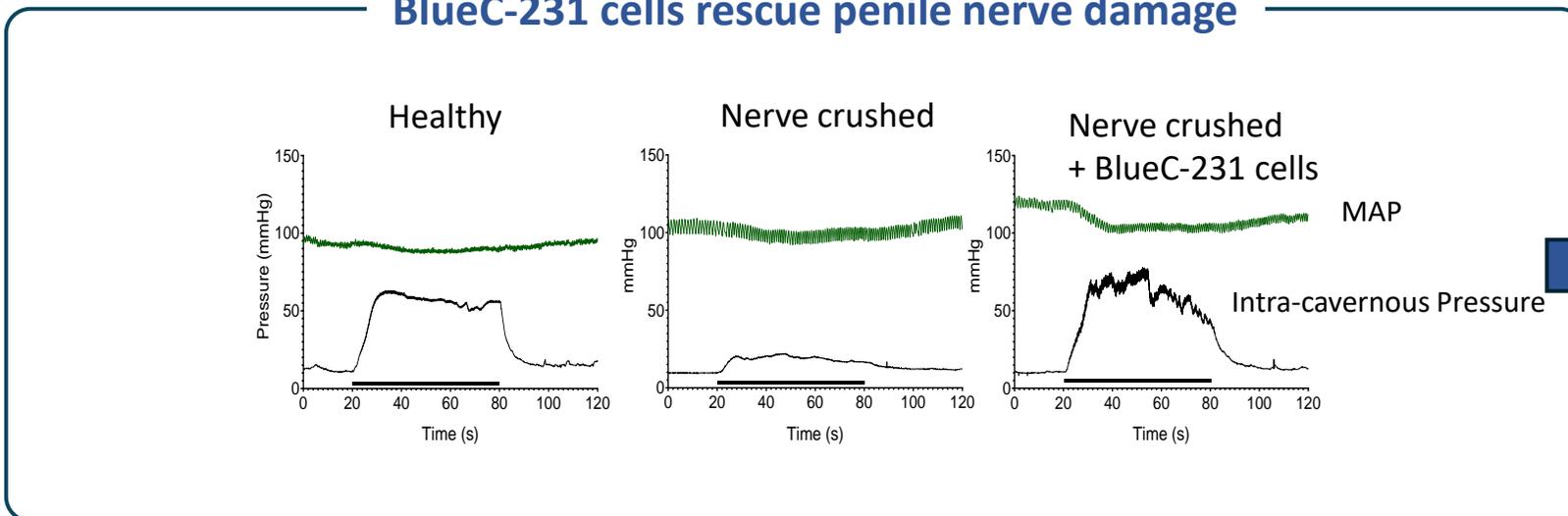


BlueC-231 human cells have robust effect in established preclinical POC model of erectile dysfunction

Erectile dysfunction animal model



BlueC-231 cells rescue penile nerve damage



BlueCell will create a new market category with curative potential

NEW CATEGORY - Curative Cell Therapy



1st line

Pharmacology



Viagra, Cialis, Levitra, etc.
MUCO (ointment)

60-70% MS*

No spontaneity
Temporary effect
No effect in >30%

30%

2nd and 3rd line

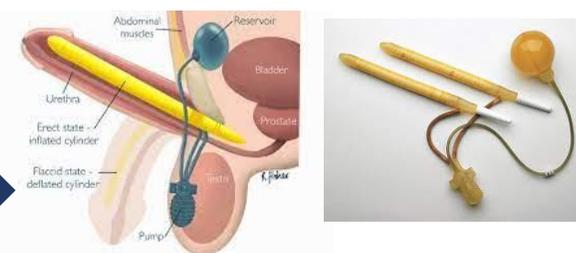
External medical devices



Tension rings,
Vacuum constriction devices

Uncomfortable
Temporary solution
~20% failure rate

Surgical medical devices



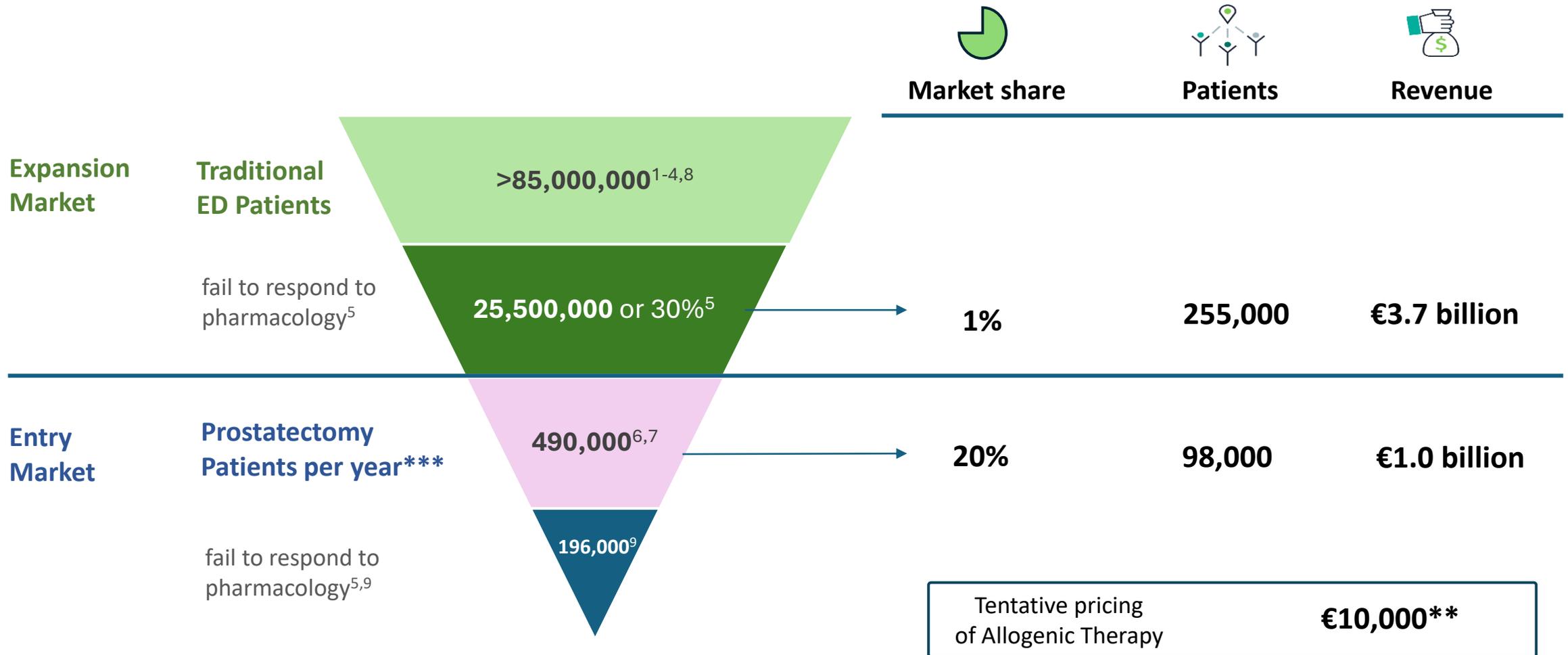
Penile prosthesis

Up to \$30,000 pr. device/operation

Invasive
Infection, shortening of the penis
~30% dissatisfaction rate¹

*Dark Horse Consulting

Large market potential with a commercially scalable solution*



*Dark Horse Consulting

***Inventory patients as well as China and India not included, only Europe, US and Australia

Sources: 1) [Current Opinion in Supportive and Palliative Care](#) (2016), 2) [Johns Hopkins](#), 3) [American Cancer Society](#) (2023), 4) [Sexual Medicine Reviews](#) (2020), 5) [Journal of Clinical Urology](#) (2023), 6) [GlobalData.com](#) 7) [Journal of Clinical Urology](#) (2023) 8) [American Cancer Society, European Cancer Information System, Prostate Cancer UK](#), 9) [Dovepress](#)

**Alofisel, the only ASC product on the market carries a price tag of €40,000 (fistula treatment)

Scalable, with clear path to commercialization

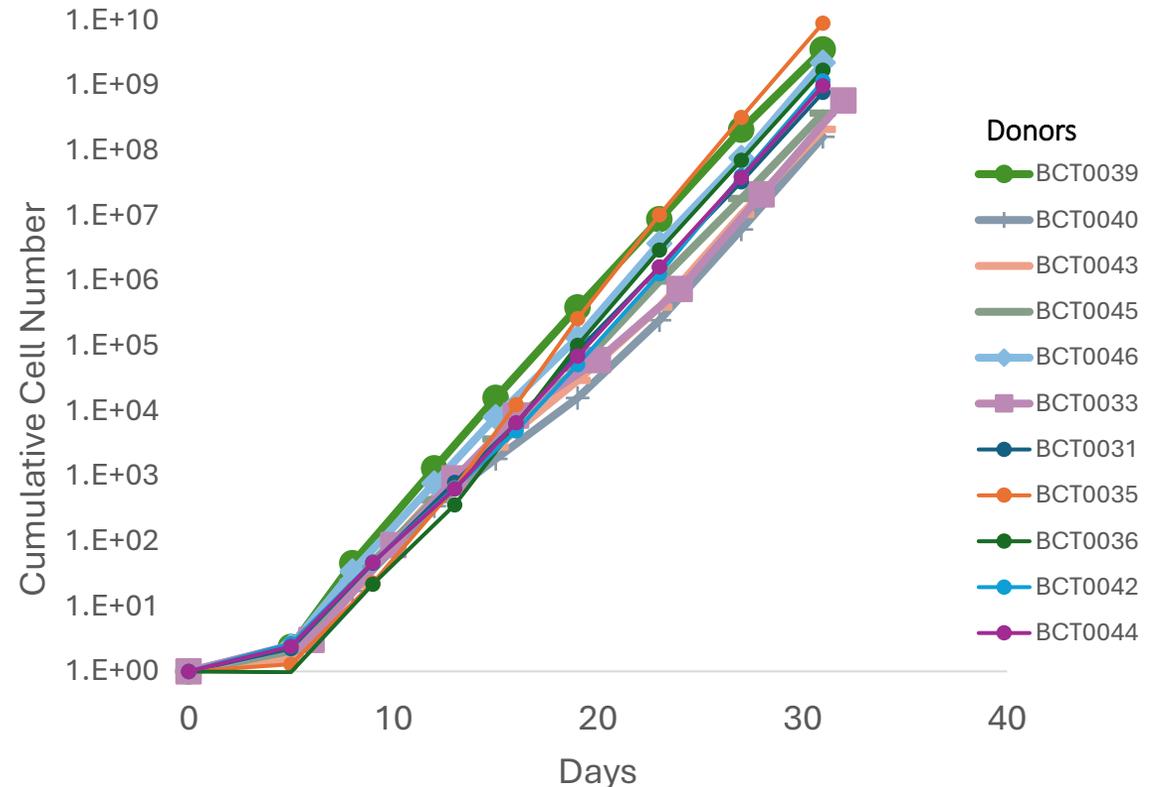
Scalable for commercial success

- Consistent and pure allogeneic cell product
- High proliferation of donor cells enable >70,000 patient treatments per donor
- Frozen for easy distribution and storage



- ✓ Off the shelf option for hospitals
- ✓ Good manufacturing economics at <1,000€/patient
- ✓ Commercial scalability

Robust proliferative ASC capacity across donors



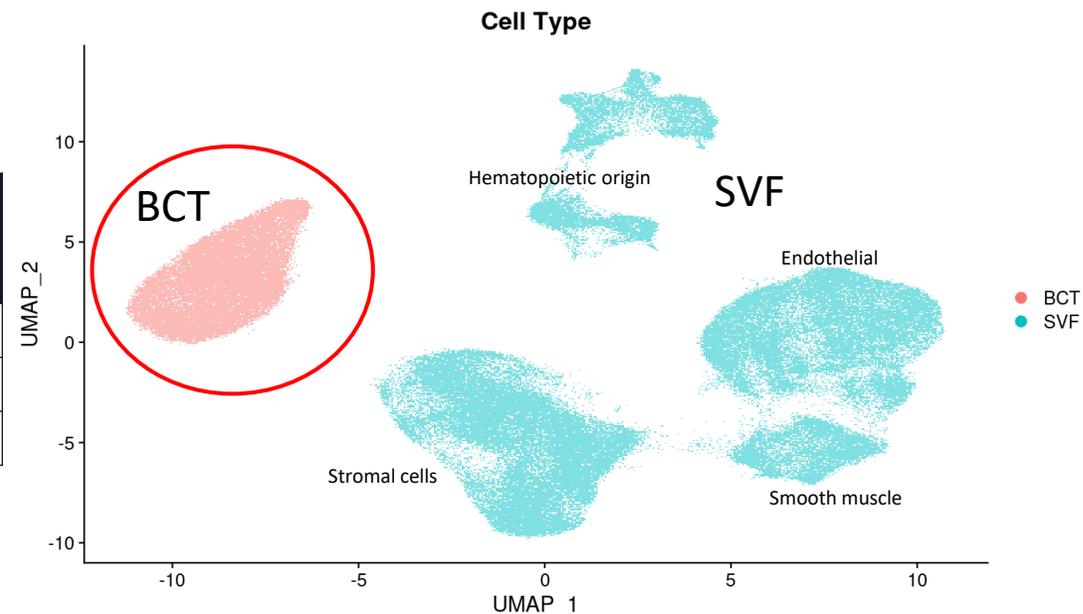
BCT-231 are non-natural, hence patentable in the USA.

Based on RNA content, BCT cells do not cluster with any SVF cells

BCT

We compare the similarity of BCT cells to the SVF dataset

Donor	% Cells with anchors	Could MAP?	Mean Mapping Score
BCT0032	0.27	FALSE	-
BCT0035	0.32	FALSE	-
BCT0036	0.19	FALSE	-



Conclusion

There was less than 1% of cells with Anchors so the datasets couldn't be mapped to the SVF dataset. This indicates that BCT cell types differ from the cell types in the SVF dataset.

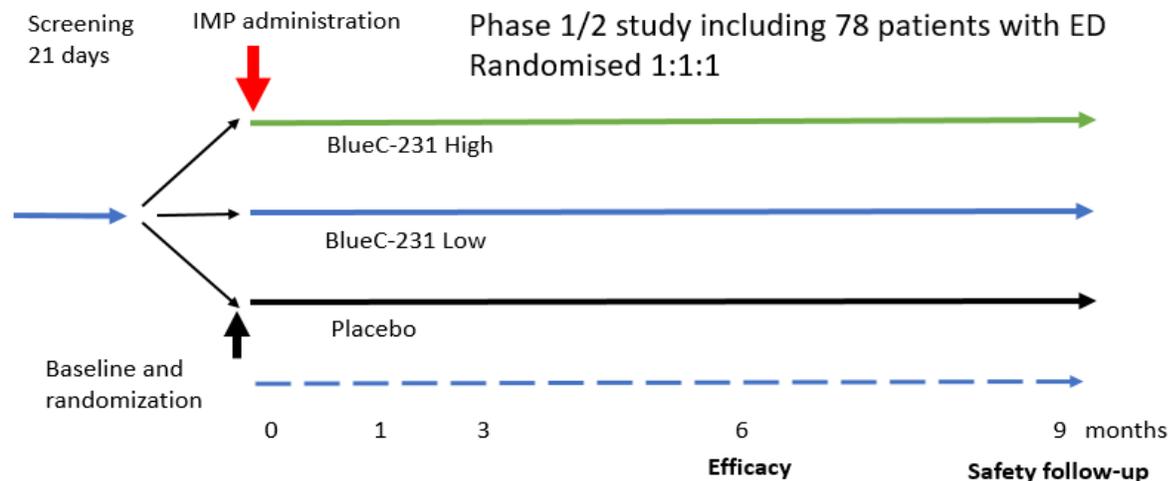
Clinical program executed by MAC Clinical Research

Collaboration with MAC Clinical Research

- Medicines and Healthcare Products Regulatory Agency (MHRA)-accredited clinical facility in Manchester
- Deep knowledge and experience with of ED trials
- MAC will invest £5M in the clinical trial

Clinical programs will comprise of two phase I/II studies in post-prostatectomy patients and diabetics followed by two confirmatory phase III studies

Treatment of ED in prostatectomized patients



One phase I/II study comparing two doses of BlueC-231 vs. placebo

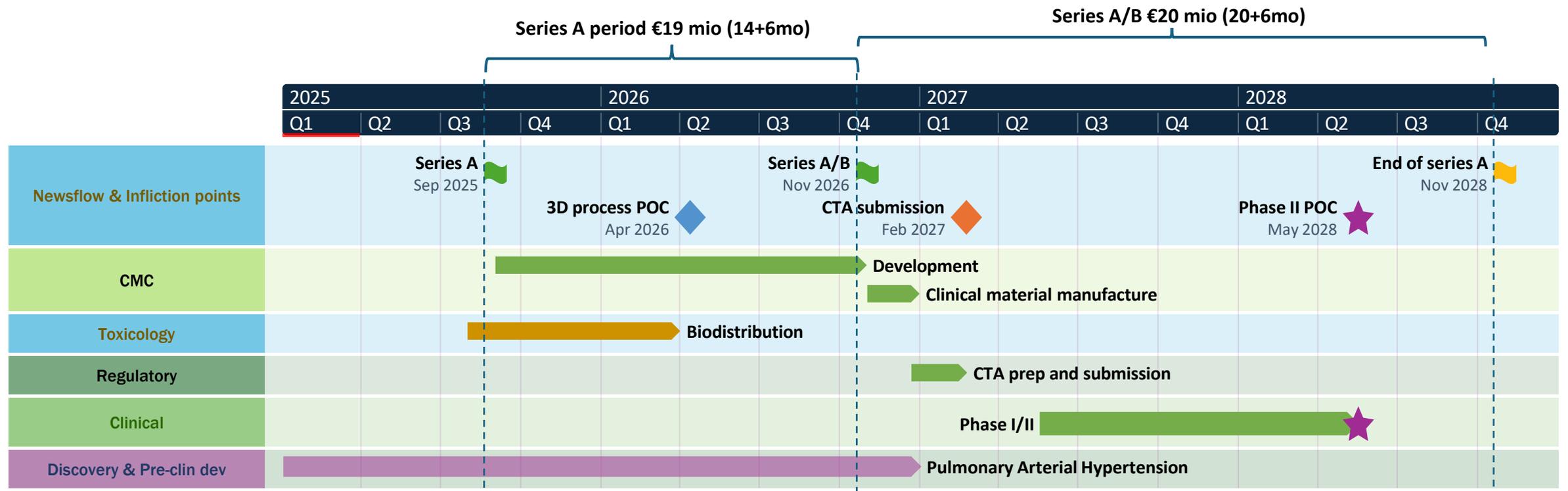
Power of 90% to detect

- mean increase in IIEF-5 of 5 points
- Requires randomization of 78 patients

Inclusion criteria

- No nocturnal erection
- ED 6-12 months post prostatectomy
- Desire to be sexually active

Funding strategy for shortest overall timeline



Our Vision: A cell therapy that restores sexual function, spontaneity and sensitivity

Recent MSC Stem Cell Therapy breakthrough: Mesoblast got FDA approval for Ryoncil (Remestemcel-L-rk) to treat acute Graft versus Host disease (GVHD) in children

Industry worries

- Few stem cell therapies have been clinically proven
- High costs to produce cell therapies
- Challenges with developing scalable therapies
- Donor variation
- Unclear method of action
- Unproven stem cell therapies, targeting vulnerable consumers
- Market access built on ongoing pharmacotherapy, device, or surgical interventions

Our solution

- Autologous ASCs have been clinically proven in ED
- Cost-effective, scalable and reproducible allogeneic therapies
- One donor treats 70,000 patients
- Low impact of donor variation
- BlueC-231 angiogenetic action corresponds to ED pathobiology
- Local administration
- Disruption of standard of care



Thank you

Contacts:

Søren Sheikh, CEO

E-mail sheik@blue-cell.com

Thomas Sandal, CDO

E-mail ts@blue-cell.com