



BBP-681 Overview

Non-confidential

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Core Team



Thomas Rossi, PhD
CEO
Formerly CEO of Agile Tx, Kore Pharma, and SVP, Board member for The R.W. Johnson Pharmaceutical Research Institute



KORE PHARMACEUTICALS, LLC




Kahlil D'Souza
Assoc. Director of BD and Operations




Ken Truitt, MD
CMO
Formerly CMO at ImmusanT, Inc. and SVP of Internal Medicine at Daiichi Sankyo






Lisa Pugliese
VP of Clinical Operations



Agis Kydonieus, PhD
Head of Formulation Development
Formerly VP of R&D Bristol-Myers Squibb
Has published extensively in transdermal delivery



Founders



José Baselga, MD, PhD



Eulàlia Baselga Torres, MD
SJD Barcelona Children's Hospital



Sant Joan de Déu
Barcelona · Hospital



Pau Castel, PhD
New York University





Venous and Lymphatic Malformations (VM/LM) affect over 110,000 people in US+EU and can cause significant morbidity



VM/LMs are **driven by dysregulated activation of the PI3K/AKT signaling pathway**, representing a logical potential treatment target



BBP-681 is designed to potently inhibit PI3K α and is optimized for skin permeation to target cutaneous lesions



Phase 1/2 trial was initiated in 2021 with an interim readout expected in 1H2022



Venthera is potentially positioned to address the **broader Vascular Anomalies space**, consisting of several druggable monogenic diseases with a high unmet medical need

Venous and Lymphatic Malformations are heterogenous overgrowth anomalies that can dramatically impact patients

BBP-681

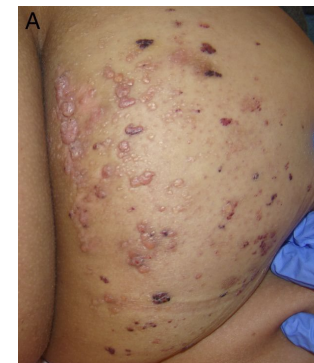
Venous Malformations

- Dilated and dysfunctional slow-flow venous channels, deficient in smooth muscle cells
- Present at birth, and grow slowly and unpredictably throughout life
- Arise in any location, but a large portion involve the skin
- Cause pain, bleeding, disfigurement and functional impairment
- Current treatments include compression bandages, analgesics, laser ablation, surgical resection, sclerotherapy, and in rare cases off label rapamycin
- Thromboembolic complications may require anti-platelet agents or anticoagulants



Lymphatic Malformations

- Immature lymphatic structures that fails to communicate with normal vasculature
- Classified as macrocystic (cysts are >1 cm), microcystic (cysts are <1 cm), and mixed
- Superficial or deep and can arise in any location, tissue, or organ
- Cause pain, disfigurement, bleeding or 'weeping' of lymphatic fluid and functional impairment
- Current treatments include compression bandages, laser ablation, surgical resection, sclerotherapy, and off label rapamycin



Venous and Lymphatic Malformation Standard of Care

Lesion Description	Cutaneous lesions	Deep isolated lesions	Syndromic disease
Typical Treatments	Analgesics, compression dressings, anticoagulants, laser (at limited centers)	Analgesics, compression dressings, anticoagulants, laser, sclerotherapy	Surgery, sclerotherapy, sirolimus (off-label)
Treatment Strategy	“Watch and Wait” : very little to offer for cutaneous lesions	Patient-specific therapy: Highly practitioner-dependent	Systemic therapy as tolerated; repeat procedures
Visual example			

Source: Castel P, Carmona FJ, Grego-Bessa J, et al. Somatic PIK3CA mutations as a driver of sporadic venous malformations. Science translational medicine. 2016; 8(332):332ra42; Behraves S, Yakes W, Gupta N, et al. Venous malformations: clinical diagnosis and treatment. Cardiovasc Diagn Ther. 2016; 6(6):557-569.; Rikihisa N, Akita S, Osuga K, Mimura H, Yuzuriha S, Sasaki S. Evaluation of pain incidence due to venous malformation based on data from 85 institutions in Japan. J Vasc Surg Venous Lymphat Disord. 2020 Mar;8(2):244-250.; <https://www.hopkinsmedicine.org/interventional-radiology/conditions/malformations/>;
6 | <https://icloudhospital.com/specialties/congenital-vascular-malformation>

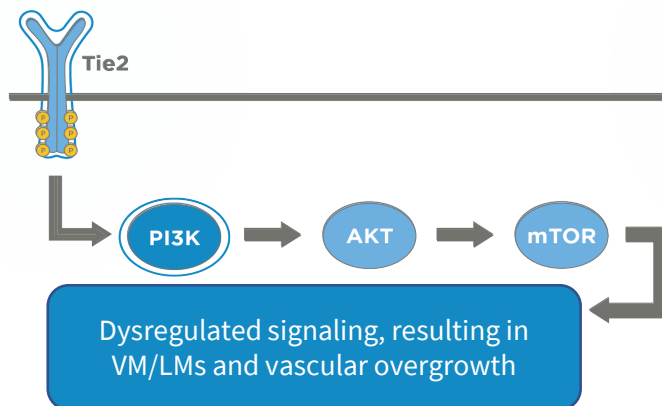


VMs and LMs result from mutations leading to dysregulated activation of the PI3K/AKT pathway; both preclinical and clinical evidence support PI3K inhibition as a therapeutic strategy

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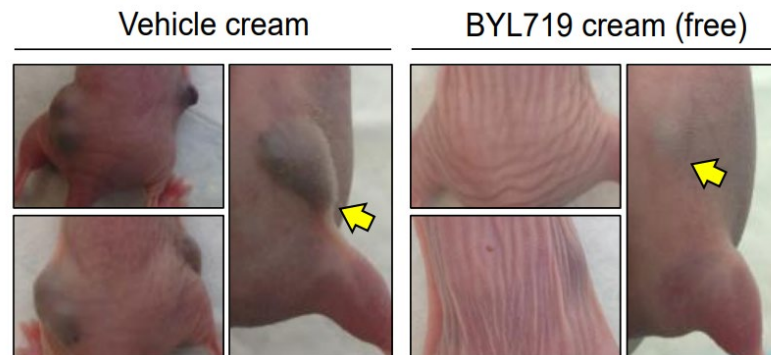
VM/LMs result from somatic gain of function (GOF) mutations that activate PI3K signaling

- VMs: 30% driven by GOF mutations in PIK3CA; 60% by TEK2 (Tie2) GOF mutations
- LMs: 90% driven by PIK3CA GOF mutations



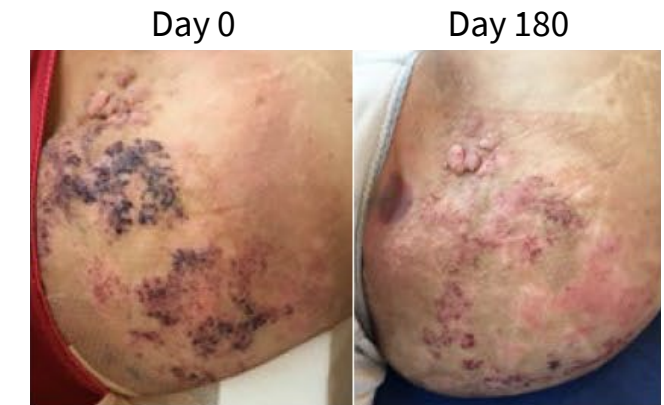
PI3K inhibition causes regression of lesions in a VM mouse model

- Rapid regression of VM lesions upon topical application of a PI3K α -specific inhibitor (BYL719, alpelisib)



Compassionate use of Alpelisib in PROS provides clinical proof of target

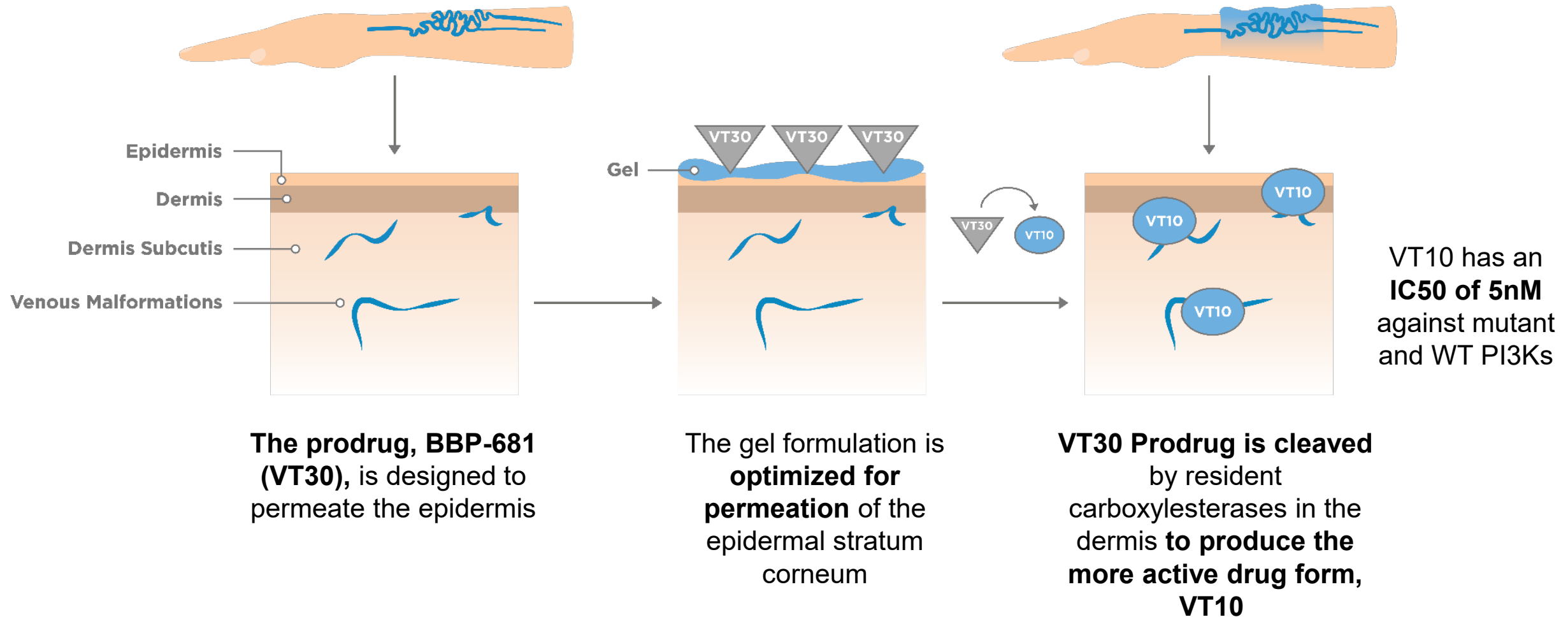
- PROS is a collection of syndromes driven by somatic PI3K mutation, leading to widespread VM/LMs and associated overgrowth
- Oral treatment with alpelisib shrinks both superficial and deep lesions



Source: Castel P, Carmona FJ, Grego-Bessa J, et al. Somatic PIK3CA mutations as a driver of sporadic venous malformations. Science translational medicine. 2016
Venot, Q et al. Targeted Therapy in Patients with PIK3CA-Related Overgrowth Syndrome. Nature, June 2018
Luks VL et al. Lymphatic and other vascular malformative/overgrowth disorders are caused by somatic mutations in PIK3CA. J Pediatr. 2015

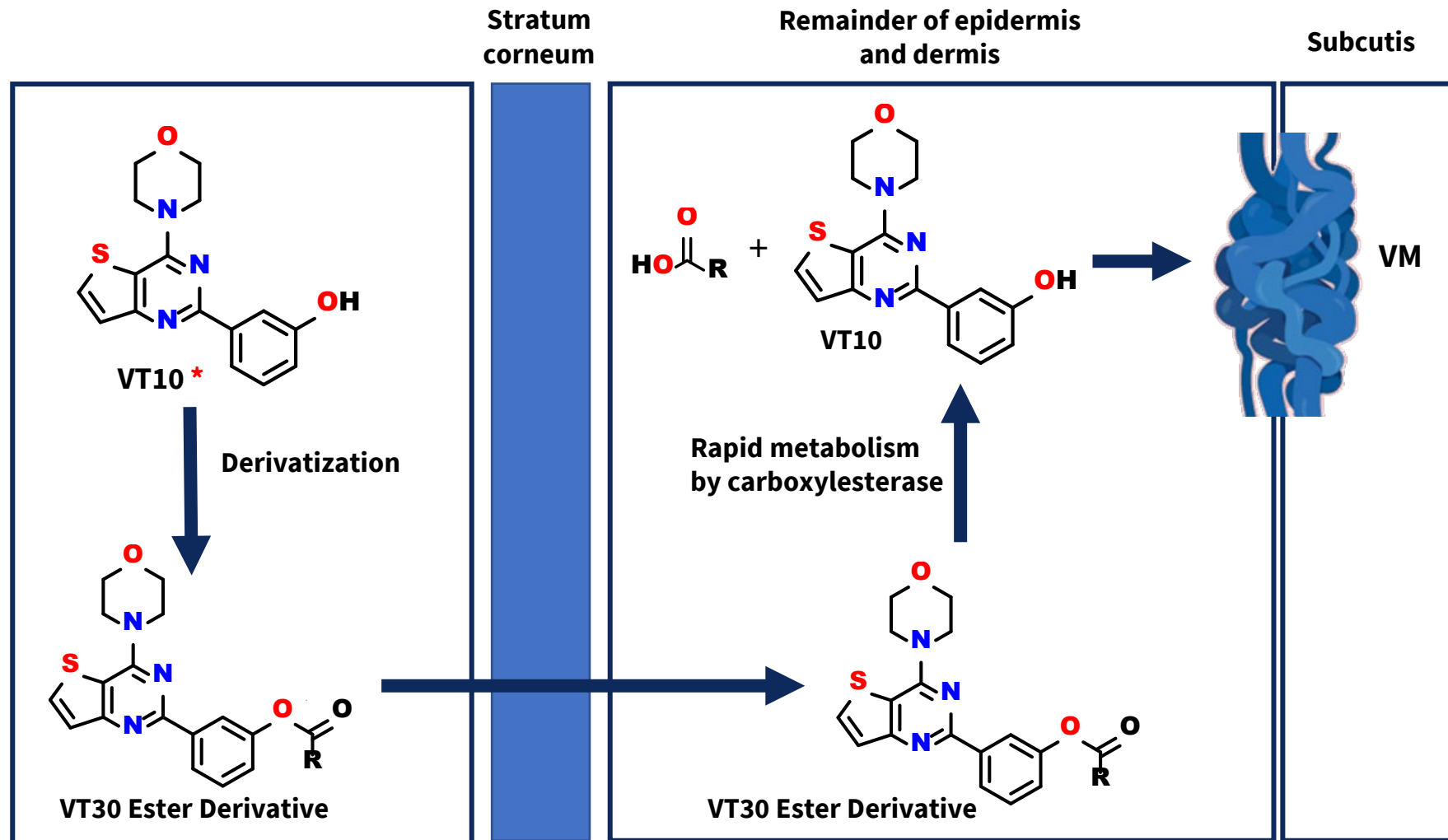
BBP-681 is a topical prodrug designed to inhibit PI3K α signaling in cutaneous vascular malformations

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VT30 provides local delivery to cutaneous lesions and is designed to minimize the risks of systemic side effects

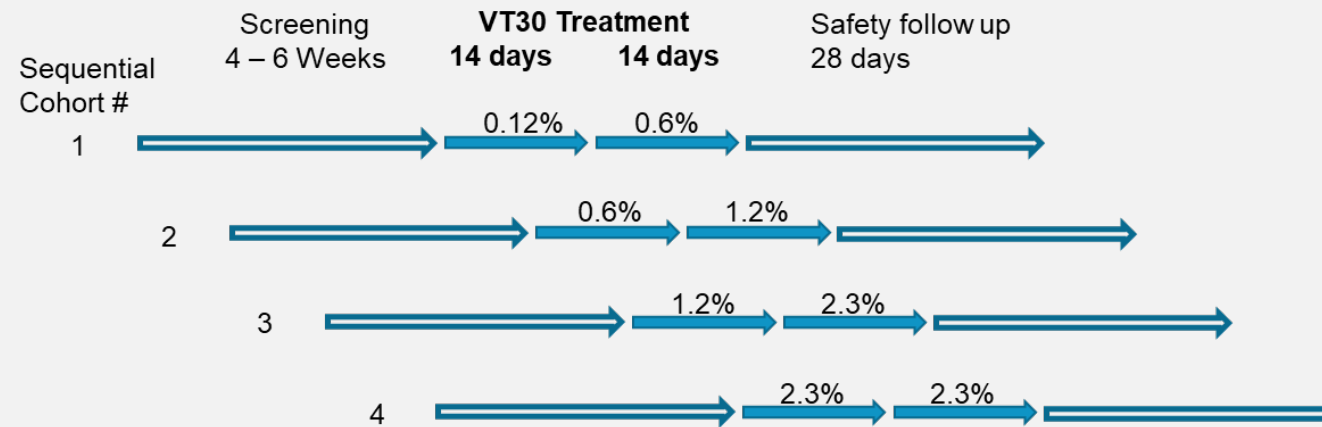
A prodrug approach allows Venthera to optimize delivery of active drug into the target lesion



*Hayakawa, M.; et al. Bioorg. Med. Chem. 2006, 14(20), 6847–6858

*Hayakawa, M.; et al. Bioorg. US 6,838,457 B2. January. 2005

- Dose escalation phase is nearing completion
- 16 affected patients have been dosed
- Dose selected for phase II
- Data on
 - Safety and tolerability
 - Intra-lesional tissue drug levels
 - Investigator and patient reported outcomes
 - Pharmacodynamic marker for target engagement



Clinical data demonstrate that BBP-681 topical gel is performing as designed: high local drug levels and no systemic exposure

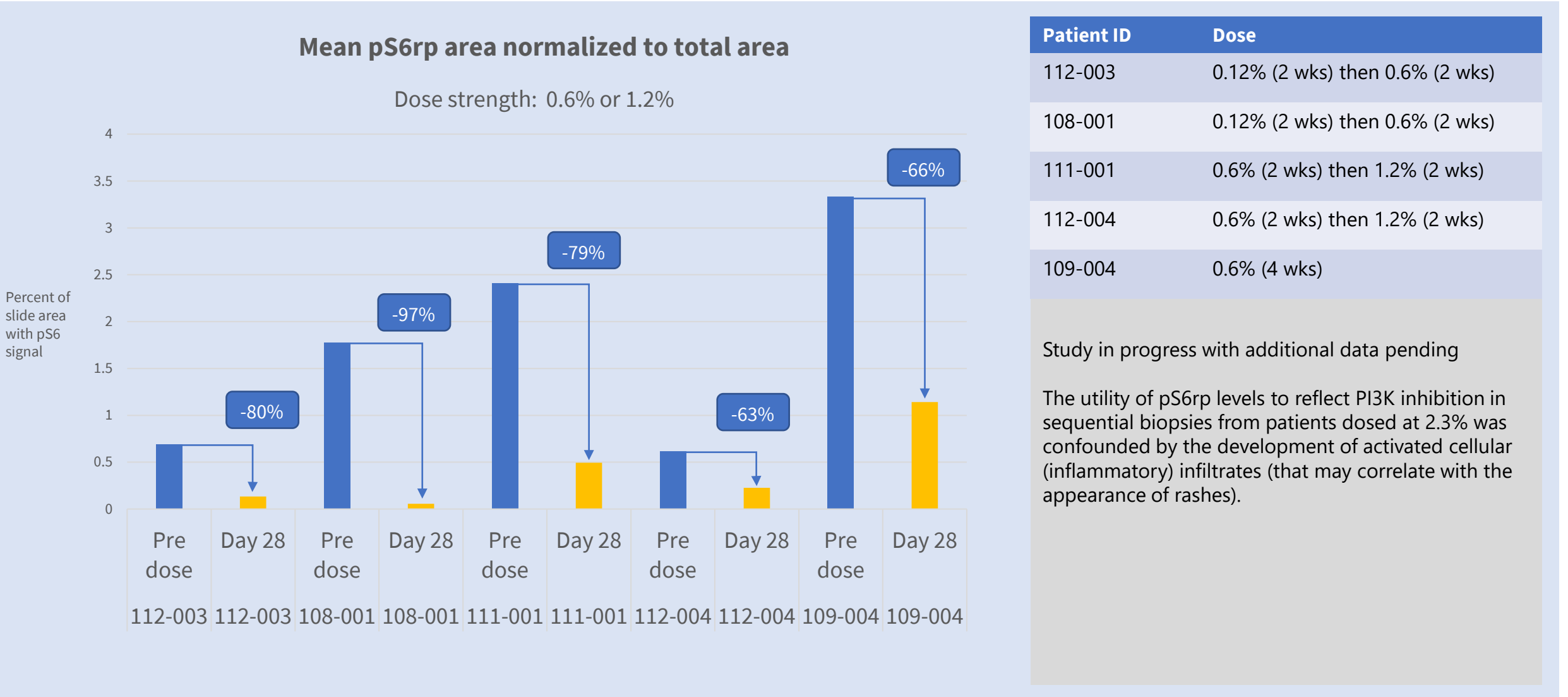
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Local tissue concentrations of VT10/VT30 from skin biopsies taken 4h after day 28 dosing:

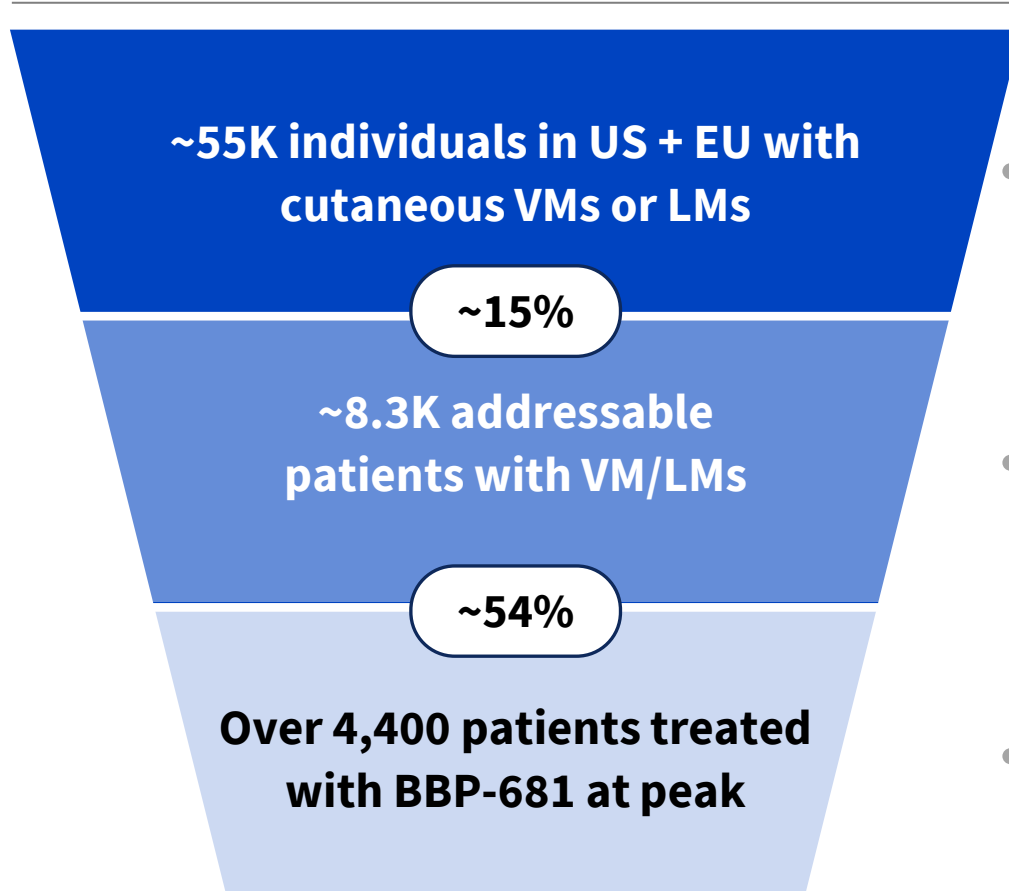
	Dose (QD)	Local VT10 concentration (uM)
Cohort 2	0.60%→1.20%	8.9
Cohort 2	0.60%→1.20%	No biopsy
Cohort 2	0.60%→1.20%	114.2
Cohort 3	1.20% →2.30%	16.2
Cohort 3	1.20% →2.30%	1.6
Cohort 3	1.20% →2.30%	No biopsy
Cohort 4	2.30%	54.2
Cohort 4	0.6%	9.5
Cohort 4	0.6%	20.6

- VT10 (IC₅₀ = 5nM) has >1000-fold coverage over PI3K based on measured concentrations. Variability in skin flux is expected due to natural differences in skin thickness by location and investigator technique, but all samples were within uM range.
- BBP681 (VT30) is applied to the skin, and VT10 is measured in the samples. VT30→VT10 conversion occurs after VT30 has penetrated the stratum corneum and can access the lesion.
- No systemic drug exposure: **all patients below LLOQ** (1ng/ml for VT10; 0.1ng/ml for VT30)

*Cohort 1 samples lost by CRO due to protocol deviation during processing.







Addressable US Market Share



Description

- **Incidence of ~2/10K for VMs and ~2/10K for LMs**
- Assumes 3.9M live birth rate and 75yr life expectancy
- ~47% of patients with VMs and LMs have cutaneous lesions based on literature and KOL estimates
- **Assumes ~20% of patients with VMs/LMs are accurately diagnosed and suitable for treatment with a topical at peak**
- ~75+% of VMs are either TEK2 or PIK3CA mutated, while ~75+% of LMs are PIK3CA mutated, and thus addressable by a PI3Kai
- **Assumes a ~60% preference share for topical PI3Kai and 90% brand share within PI3Kai class given no competitors**
 - Assumes topical mTORi takes away significant share despite targeting further downstream
 - Assumes maintenance use of topical

Potential peak sales >\$450M in US and over \$1.1B globally by mid 2030's

Indication	Genetic GOF	Modality	Preclinical		Clinical	
			Discovery	IND-Enabling	Phase 1	Phase 2
Cutaneous VM/LM	PIK3CA/TEK	Topical gel				
Deep VM/LM	PIK3CA/TEK	Long Acting Injectable				
Port Wine Stains (PWS)	GNAQ	Topical gel				
Arteriovenous Malformations (AVM)	MAP2K1	Long Acting Injectable				

Venthera has the expertise and technology to develop meaningful targeted therapies in this disease space

- **VM / LM is a disease with significant morbidity**
 - Driven largely by mutations in the Tie2/PI3K/AKT pathway
 - Inadequate standard of care highlights the need for a targeted therapeutic
- **Wealth of data suggests PI3K α inhibition is a logical therapeutic approach for VM / LM**
 - PI3K α inhibition leads to rapid regression of VM lesions in murine model
 - Treatment with PI3K α inhibitor meaningfully reduces VM burden in PROS patients
- **BBP-681 is a potent, topical inhibitor of PI3K α**
 - Significant *in vitro* inhibition of PI3K signaling
 - Topical formulation allows for avoidance of systemic side effects
- **FIH Phase 1/2 study was initiated in 2021 with interim readout in 2022**
- With differentiated target and route of administration, **BBP-681 has the potential to achieve peak worldwide sales of \$1B+ if approved**