

Phase 1a Topline Results Webinar

October 25, 2023



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Herantis – At a Glance



Herantis Pharma plc was founded in Helsinki, Finland in 2008; Listed at Nasdaq First North Helsinki



Developing disease-modifying treatment to address the unmet clinical need in Parkinson's disease and other neurodegenerative diseases



Lead asset **HER-096** is a small engineered peptide molecule with a **unique mechanism of action** and **subcutaneous injection** as an **easy route of administration**



Experienced board and management team; Scientific advisory board with globally leading experts in Parkinson's disease from industry and academia



Results from the **Phase 1a clinical trial readout** in October 2023: The trial **met primary** and **secondary endpoints**

HER-096 is a Perfect Drug Candidate for Parkinson's Disease

HER-096

- Synthetic peptidomimetic molecule
- Designed based on the active site of CDNF protein
- Unique and broad Mechanism of Action: Modulation of Unfolded Protein Response (UPR) pathway to reduce cell stress to slow down or stop the progression of Parkinson's disease
- Patient-friendly subcutaneous administration



HER-096 & Parkinson's disease treatment

- Symptomatic improvement
- Long-term effect with disease modification: slow down or stop the process of midbrain neuron degeneration at the early stage of the disease
- Subcutaneous administration 1 3 times per week

Multi-billion market opportunity

- 10 million patients globally
- Current Parkinson's disease pharmaceuticals market size \$5B
- Market 2029: \$11B, growth driven by disease-modifying treatments (source: GlobalData)



Brief Summary of the Positive Topline Phase 1a Data

- HER-096 Phase 1a clinical trial met primary and secondary endpoints
- Subcutaneous single dose injection of HER-096 had overall good safety and tolerability profile
- Pharmacokinetic data showed
 - Quick absorption of subcutaneously injected HER-096 to plasma
 - Linear pharmacokinetics across the dose groups
 - HER-096 can be delivered into the central nervous system in humans
- Next steps include:
 - Phase 1b clinical trial with the aim to demonstrate safety and tolerability for multiple (repeated) subcutaneous dosing of HER-096 in Parkinson's disease patients (planning to start the trial in 2024)
 - Preparations for Phase 2 readiness
 - Explore the potential of HER-096 in other indications



Phases of Drug Development Before Market Authorization



PHARMA

HER-096 Phase 1a First-in-Human Trial Design and Objectives



Part 1: Dose escalation cohort									
	10 mg (n=6)	30 mg (n=6)	60 mg (n=6)	120 mg (n=6)	200 mg (n=6)	300 mg (n=6)	Placebo (n=12)		
AEs (number / subjects)	8 / 4 (67%)	11 / 6 (100%)	10 / 4 (67%)	14 / 5 (83%)	17 / 6 (100%)	25 / 6 (100%)	11 / 7 (58%)		
TEAEs (number / subjects)	3 / 3 (50%)	11 / 6 (100%)	8 / 3 (50%)	12 / 4 (67%)	15 / 6 (100%)	25 / 6 (100%)	8 / 5 (42%)		
Severe TEAEs (number / subjects)	0 / 0 (0%)	0 / 0 (0%)	0 / 0 (0%)	0 / 0 (0%)	0 / 0 (0%)	0 / 0 (0%)	0 / 0 (0%)		
Serious AEs (number / subjects)	0 / 0 (0%)	0 / 0 (0%)	0 / 0 (0%)	0 / 0 (0%)	0 / 0 (0%)	0 / 0 (0%)	0 / 0 (0%)		
Other significant AEs (number / subjects)	0 / 0 (0%)	0 / 0 (0%)	0 / 0 (0%)	0 / 0 (0%)	1 / 1 (17%)	0 / 0 (0%)	0 / 0 (0%)		

Note: doses 10-60 mg were given as a single injection, doses 120-200 mg as two simultaneous injections, and dose 300 mg in three simultaneous injections.

Part 2: Older/elderly cohort							
	Female (n=6)	Male (n=6)	Total (n=12)				
AEs	35 / 6 (100%)	19 / 6 (100%)	54 / 12 (100%)				
TEAEs	33 / 6 (100%)	17 / 6 (100%)	50 / 12 (100%)				
Severe TEAEs	0 / 0 (0%)	0 / 0 (0%)	0 / 0 (0%)				
Serious AEs	0 / 0 (0%)	0 / 0 (0%)	0 / 0 (0%)				
Other significant AEs	0 / 0 (0%)	0 / 0 (0%)	0 / 0 (0%)				



AE = adverse event TEAE = treatment-emergent adverse event

Safety Data Allows Further Clinical Development

- Overall good safety and tolerability profile in young (20-45 y) healthy males, and older (50-64 y) and elderly (65-75 y) healthy females and males.
- No Serious Adverse Events (SAE).
- One significant AE was reported, where a subject experienced a vasovagal reaction (fainted) in relation to dosing and dosing
 was discontinued.
- Adverse events were mainly local reactions. Mild local injection site adverse events were reported both in the HER-096 and in the placebo groups, but number of local AEs in the HER-096 treated subjects increased with dose level and with number of injections.
- The good safety profile allows moving forward in clinical development with subcutaneous HER-096 injections.





- Quick absorption and expected plasma elimination half-life (appr. 2 h)
- Renal excretion is the main route of elimination as predicted by preclinical studies
- Linear pharmacokinetics between 10–300 mg helps determining safe and effective dose range



Part 2 Plasma Data Shows Similar Pharmacokinetics in Elderly Subjects



	Males	Females
C _{max} (ng/ml)	5573	7333
T_{max} (h)	0.84	0.91
T_{1/2} (h)	2.66	2.39
AUC _{last} (h*ng/ml)	31354	42202
AUC _{inf} (h*ng/ml)	31455	42279
Lambda Z (1/h)	0.268	0.292

- Similar to Part 1, quick absorption also in elderly subjects; plasma peak reached in less than 1 h
- Elimination half-life is slightly longer in elderly subjects (approximately 2.5 h)
- Plasma C_{max} and exposure are higher in females than in males



Part 2 Pharmacokinetic Data Shows Efficient BBB Penetration in Humans



- Clear evidence of HER-096 penetrating the blood-brain barrier in humans
- HER-096 (200 mg dose) reaches levels in CSF that, based on preclinical data, are predicted to be in the therapeutic concentration range
- It seems that HER-096 may remain in the CSF longer in humans than expected by the preclinical data



Phase 1a Trial: Conclusions

• Primary endpoint was met

- Single subcutaneous dose of HER-096 (from 10 to 300 mg) were found to be safe and well-tolerated in healthy subjects
- Secondary endpoints were met
 - Single ascending doses of HER-096 in healthy subjects showed an expected plasma pharmacokinetic profile in both young and elderly healthy subjects
 - Blood-brain barrier (BBB) was tested and demonstrated in elderly healthy subjects, with cerebrospinal fluid (CSF) levels that are in a pharmacologically active range based on preclinical studies
 - In summary, the pharmacokinetic data support moving forward with subcutaneous HER-096 dosing
- Exploratory endpoints
 - Exploratory biomarkers (plasma and CSF) analyses are on-going and data will be reported later



We Have a Strong Data Package on HER-096

- We believe that we have a strong data package on HER-096 to continue clinical development and to advance the partnering process
 - Preclinical evidence of HER-096 therapeutic effects in a Parkinson's disease model (mouse a-synuclein model)
 - The first-in-man (Phase 1a) study data with HER-096: pharmacokinetics and distribution to the central nervous system well aligned with preclinical evidence
 - Clinical experience in Parkinson's patients with CDNF protein that shares the same mechanism of action with HER-096
- Key preclinical data
 - ^D Protection of dopamine neurons, proteostatic effect on α-synuclein, decrease in neuroinflammation
 - Increased brain dopamine level
 - Improvement of motor symptoms



Summary



What we want to achieve with HER-096?



Evidence of subcutaneous HER-096

Next steps

Strategy

To develop a treatment to slow or stop the progression of Parkinson's disease with symptomatic relief

- Therapeutic concentration of HER-096 in the central nervous system in humans
- Good safety and tolerability profile in humans
- Therapeutic effects in aged mouse model of Parkinson's disease
- Phase 1b to start in 2024 (safety, tolerability of multiple subcutaneous dosing in PD patients)
- Prepare for Phase 2 readiness
- Explore HER-096 in other indications

Find a global development partner for HER-096



Thank you!

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