

CIRM Funded Clinical Trials

A Phase I/IIa Dose Escalation Safety Study of AST-OPC1 in Patients with Cervical Sensorimotor Complete Spinal Cord Injury

Disease Area:	Spinal Cord Injury
Investigator:	Edward Wirth
Institution:	Asterias Biotherapeutics
CIRM Grant:	SP3A-07552
Award Value:	\$14,323,318
Trial Sponsor:	Asterias Biotherapeutics
Trial Stage:	Phase 1/2
Trial Status:	Completed
Targeted Enrollment:	25
ClinicalTrials.gov ID:	NCT02302157



Edward Wirth

Details:

Up to 12,000 Americans suffer a spinal cord injury (SCI) each year. This condition leads to a high level of permanent disability and decreased life expectancy. Currently, there are no approved therapies for patients with SCI. Asterias Biotherapeutics uses cells derived from embryonic stem cells to heal the spinal cord at the site of injury. They mature the stem cells into brain cells called oligodendrocyte precursor cells that are injected at the injury site where it is hoped they can repair the insulating layer, called myelin, that normally protects the nerves in the spinal cord.

Design:

Open label, single arm, dose escalation safety study.

Goal:

Safety. Dosing. Efficacy - motor improvement.

Updates:

Ongoing. Favorable safety profile to date, interim analysis confirms safety. Improvement in upper extremity motor function through 9 months post-treatment in cohort 2.

News about this clinical trial:

Asterias Biotherapeutics News Releases

Stem Cell Agency Spinal Cord Injury Clinical Trial Passes Safety Hurdles

Asterias Provides 12 Month Cohort 3 and 4 Update for its AST-OPC1 Phase 1/2a Clinical Trial in Severe Spinal Cord Injury

Contact Trial Sponsor

Source URL: <https://www.cirm.ca.gov/clinical-trial/phase-iii-a-dose-escalation-safety-study-ast-opc1-patients-cervical-sensorimotor>