Preliminary results of allograft amniotic tissue barrier used in peripheral nerve revision and secondary neurolysis

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Objective

• To evaluate the safety and efficacy of neurolysis with allograft amniotic membrane wrapping for treatment of patients with recurrent or secondary peripheral neuropathy.

Methods

- Retrospective review of patients who underwent neurolysis with placement of an amniotic membrane allograft wrap (XWrap, Applied Biologics, LLC, Scottsdale, AZ) for treatment of recurrent or secondary peripheral neuropathy
- All surgeries performed by senior author (M.S.R.) from December 2012 through July 2013.
- Data queried: Demographics, surgical and other prior treatment history, clinical exam values
- Secondary outcomes: complications, additional surgery
- Surgical technique performed as standard revision neurolysis; when affected nerve is adequately decompressed, allograft membrane is loosely sutured in place with 8-0 nylon sutures, and standard closure follows.





in the setting of revision neurolysis was found to be safe and

prevention of perineural scarring in larger cohorts of patients,