



Complete Resolution of Complex Regional Pain Syndrome Following Endometriosis Excision Surgery

Case

27-year-old female
Minor electrocution injury to right hand → rapid onset CRPS

Symptoms:

- Severe burning, stabbing, slicing pain
- Allodynia and hyperalgesia
- Overuse led to numbness and claw hand
- Profound functional loss of the right upper extremity

Pain remained refractory despite:

- Gabapentin
- Intensive desensitization physical therapy
- Stellate ganglion nerve blocks

The patient developed severe gastrointestinal and biliary symptoms with repeatedly normal imaging and biopsy.

Discovery 2.5 Years After CRPS Onset

- Exploratory laparoscopy revealed Stage IV endometriosis.
- Complete robotic excision of all visible disease was performed.

Outcome

- After surgery:
- CRPS symptoms resolved
 - Upper extremity function returned
 - Gastrointestinal symptoms resolved

The patient remained symptom-free at 2 week, 3-, 6- and 9-month follow-up without further CRPS treatment.

Clinical Implication

Endometriosis is thought to sensitize the nervous system and may cause and sustain CRPS via crosstalk through inflammatory, hormonal and pain pathways.^{5-14, 17-20}

Endometriosis should be considered in the case of refractory CRPS in females of a reproductive age.

