



Sparks Brain Preservation

A Non-Profit Organization | Established 2005

HQ: 3265 Marietta St SE, Salem, OR

503-585-2781 (24/7)

<https://sparksbrain.org>

Case Report - Patient 6 - 2016

Case Background

Male, Age: 88

The patient had Parkinson's disease and was on hospice. The family had worked for months researching cryopreservation services. After finding our organization and discussing the case they decided to proceed with services while finding assistance in their area. This involved finding a local funeral director willing to perform the perfusion and finding people to perform the removal of the brain. With some luck, they found both. Most cases do not work out nearly this well. Over the course of a few months, we coordinated with the funeral director and sent PBS powder, heparin, formalin, glutaraldehyde, and instructions.

Case Data

Day 0 - Friday - Date of pronouncement.

01:05 - Local time, cardiac arrest

02:00 - Pronounced

02:15 - Funeral director placed body in metal shipping container and surrounded entire body with ice.

03:30 - Start of washout at funeral home with PBS. Could not locate heparin, but no clotting was observed.

04:30 - Start of perfusion with 16 L of 10% neutral buffered formalin and 3% glutaraldehyde.

13:15 - Because it was a holiday, the planned pathologist was unavailable to remove the patient's brain for the next three days. The funeral director fortunately had extensive experience with that procedure and was willing to do it herself. The patient's brain was removed and placed in formalin in refrigeration.

Day 13 - Thursday - 10:54 - The patient's brain arrived at our facility. Most surface vessels were visibly clear of blood and the tissue was very firm and well fixed. The cerebellum was not perfused as well. Transferred to new container with fresh chilled 10% neutral buffered formalin and 3% glutaraldehyde. Placed in refrigeration.

Day 26 - Wednesday - Began cryoprotectant diffusion ramp with ethylene glycol and DMSO.