



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 13 - 2022

Case Background

Female, Age: 79

Case Data

The patient was legally pronounced. The family contacted us for services afterward, as the family sought an alternative preservation option. They provided contact information for the funeral home and we coordinated shipment with them. The patient's body was transported overnight on dry ice to the Portland airport and we picked the patient's body up the next day. After receiving the patient's body at our facility, the patient's brain was removed and placed in a container with 10% neutral buffered formalin and 3% glutaraldehyde, which was placed in the refrigerator. The patient's brain then underwent our protocol for immersion cryoprotection prior to liquid nitrogen storage:

Ramp 1: 10% total CPA (5% ethylene glycol, 5% DMSO), with 3% glutaraldehyde.

Ramp 2: 31% total CPA (15.5% ethylene glycol, 15.5% DMSO), with 3% glutaraldehyde.

Ramp 3: 46.76% total CPA (23.38% ethylene glycol, 23.38% DMSO), with 3% glutaraldehyde.

Ramp 4: 74% total CPA (37% ethylene glycol, 37% DMSO), with 3% glutaraldehyde.

The patient's brain was then transferred to our liquid nitrogen dewar for long-term preservation.