

Aaron Picking

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Model Outline

Purpose: To demonstrate how the brain is protected by cerebrospinal fluid from sudden impacts. The inside of the egg represents the brain. The shell represents the inner most layer of the meninges of coverings of the brain. The container represents the skull.

Materials:

- Raw eggs
- Water
- Cylindrical Tupperware container
- Paper towels

Procedures: Place one raw egg inside of the container. Demonstrate that shaking the egg in the Tupperware will cause the egg to break. Rinse out container, or clean with paper towel. Place water inside of the container along with a new unbroken egg. With fluid inside the container, the egg will not break when shaken.

Issues: Cerebrospinal fluid actually has several functions. The meninges are actually three layers protecting the brain. The dura mater, arachnoid space, and the pia mater.