



FLUID FILLED APPARATUS

BY VESTIBULAR FIRST

The fluid-filled vestibular apparatus accurately demonstrates how crystals in the inner ear move during a common condition called BPPV, or benign paroxysmal positional vertigo. Each vestibular apparatus, which is our inner ear balance sensor, has 3 canals. We worked with top international researchers to ensure an accurate fall rate of the stones, which represent the otoconia. This accuracy is especially important when educating others on the value of proper duration of time in each positional test and during corrective treatment maneuvers. The otoconia are also sized in a proper proportion in comparison to the size/width of the canal.

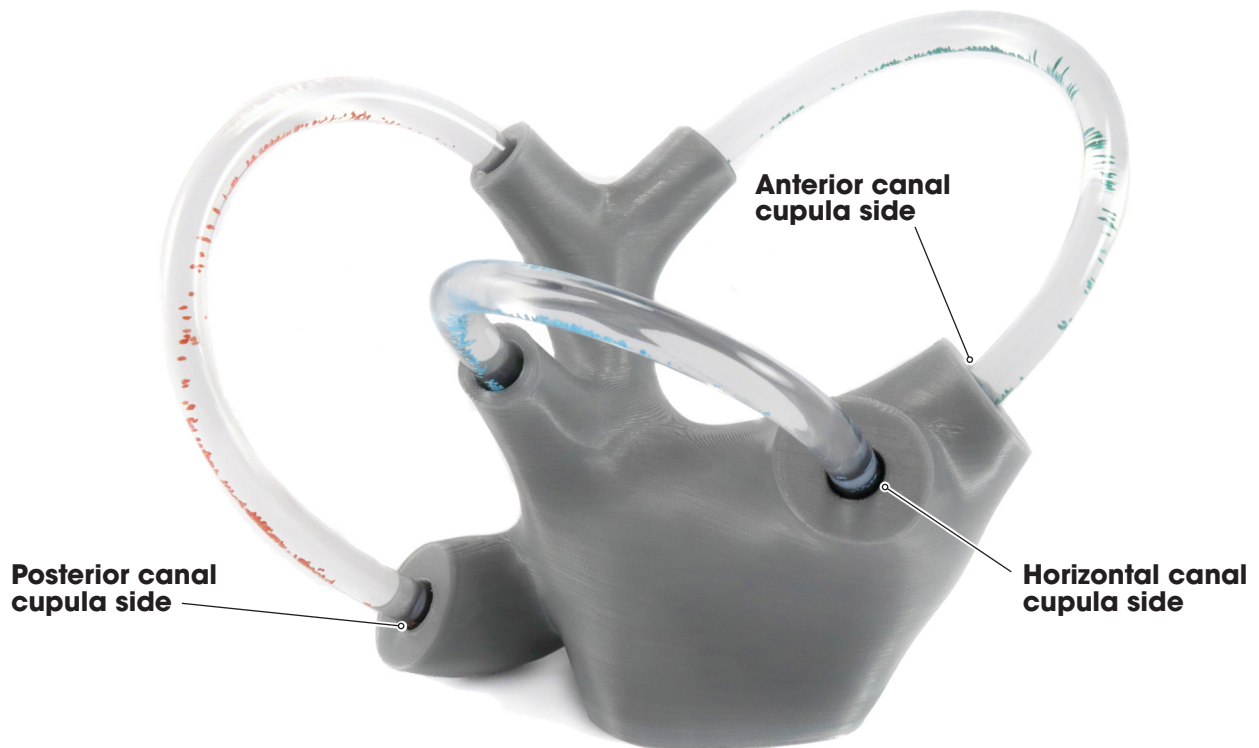
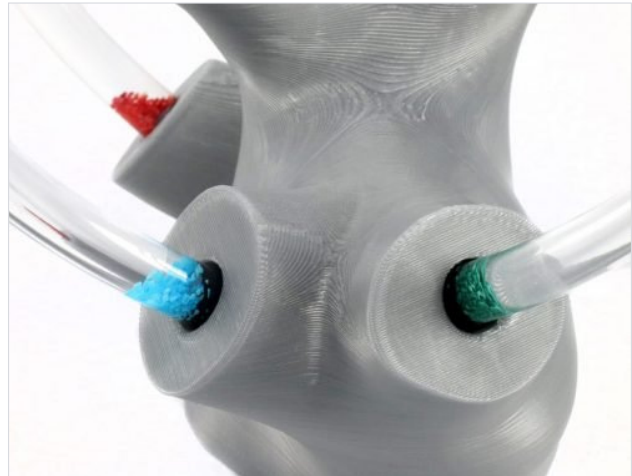


Before using the fluid-filled vestibular apparatus, let's get familiar with the parts:

Cupula - Each canal has two distinct ends—the bulbous side (also known as the ampullary side) and the thinner vestibule side. To improve visibility, our model has cut through the ampulla to show one of the most important balance sensors—the cupula. True to the anatomy, crystals cannot pass through the cupula and are blocked once they arrive at that point. On the other end of the canal, the crystals are not blocked by any anatomy and “disappear” through this end to demonstrate when a clinician has “cleared” the canal.

Canals - In addition, each canal in the vestibular model is arranged along the X-Y-Z planes when aligned to an upright body position. Each canal is identifiable by its own unique color.

- **Blue** - Horizontal/Lateral
- **Red** - Posterior/Inferior
- **Green** - Anterior/Superior



Since the posterior canal curves down past the horizon, we had to design the model to sit flat when placed on a desk or table. To orient the model to true anatomical orientation, follow the steps below.

Step by step instructions on how to orient the fluid-filled vestibular model to gravity:

1. First, be sure that the horizontal canal (the one with the blue crystals) is pointing out away from the center. The anterior canal (the one with the green crystals) should be pointing up toward the ceiling.
2. Next, you would hold the fluid model such that the horizontal canal is tilted back about 20 degrees.
3. Hold your fluid-filled vestibular model up to your ear (or a partner's) in this orientation and alignment to get a sense of true orientation to gravity.



If you still have questions, please feel free to contact us at support@vestibularfirst.com or at 215-667-8990. We are always happy to help in any way we can. Thanks for your support!