

sneezing, the ejection of the breath out of the nostrils being so powerful and spasmodic. It is easy to understand that in air-breathing creatures, which are born and live their whole life in the water, special provision was necessary to prevent the entrance of water into the windpipe and air passages, more especially as water must be taken in along with their food. Most of this water is thrown out again from the mouth, but the solid particles of food are retained and swallowed.

If we examine the breathing apparatus say in a small porpoise, we find that the trachea or windpipe is very short, and of wide calibre. At the top; the epiglottis projects like a conical funnel, and can be raised until it is pushed into the opening of the nasal chamber in the roof of the mouth. But a whole series of complex structures intervenes between the outer valved blow-hole, on the summit of the head, and the epiglottis or top of the windpipe. Five of these structures may be noticed in the porpoise, viz.: first; the valve of the crescentiform spiracle; second, the spiracular tube; third, a double enlarged chamber, really the two smelling sacs, but not used for purposes of smell; fourth, the sub-spiracular passage; fifth, the final opening into the mouth which is provided with a strong circular band of muscle. The purpose of the tubes, chambers, and valves is to afford passage to the air, entering, and driven out of the trachea and lungs, while at the same time preventing the entrance of water. Were water to gain access to the windpipe it might choke and kill the whale. We adopt in our churches in Canada an analogous arrangement in order to allow of the admission and exit of the congregation, while, as far as possible, preventing the entrance of cold air. Thus the storm-porch with its tight-fitting doors leads into a vestibule, which in some churches, leads into one or two curtained recesses, these finally opening, by baize-covered doors, into the body of the church.

The sense of smell, like that of hearing, is in the whales