

inspiration. Of these apertures, one is situated about half-an-inch in front of the point of entrance of the bronchus, a second is placed close to and in front of that tube, the third is situated behind the point of entrance of the bronchus, and the fourth is placed on the inferior border of the lung. By means of the first of these air is transmitted from the lung to the cervical, by means of the third to the inter-clavicular, and by means of the fourth to the hepatic air sac. The superior border of the lung is almost straight. It is thick and rounded, and is marked by six oblique fissures, which, as above observed, are likewise visible on the external surface of the organ, and indicate the position of the six anterior ribs. The inferior border is thin, sharp, and convex, from before backwards. It comes into relation with, and overlaps the lateral surface of the liver, heart, and pericardium. Behind it is continuous with, and forms an angle with the posterior margin of the lung, which rests against the anterior border of the kidney. About the middle of the posterior border of the lung there is a single oval aperture. By means of this, the fifth orifice, the largest or abdominal air sac is brought into communication with the bronchial tube, through which it is supplied with air. The apex or anterior extremity of the lung is pointed, and rests against the lower surface of the first rib.

The accompanying table shows the measurements of the lung of different species in inches :—

Species.	Length.	Greatest breadth.
<i>Eudyptes chrysocome</i> , from Tristan d'Acunha,	4½	2
<i>Eudyptes chrysocome</i> , from the Falkland Islands,	4	2
<i>Eudyptes chrysocome</i> , from Kerguelen,	4	2
<i>Eudyptes chrysolophus</i> ,	5	2½
<i>Spheniscus demersus</i> ,	5	2
<i>Spheniscus magellanicus</i> ,	5	2
<i>Spheniscus mendiculus</i> ,	3½	2
<i>Spheniscus minor</i> ,	3	1½
<i>Pygosceles tæniatus</i> ,	6	2¾
<i>Aptenodytes longirostris</i> ,	6½	3

Variations.—Except in respect of size, the lung of every species of Penguin agrees with that described above of *Eudyptes chrysocome*.