

D 3. *Æt.* 41. This subject, a male, has had no trouble with his ears at all.

D 4. Female, *æt.* 38. The results of the examination are tabulated below :

| Right Ear.           |                   | Left Ear.           |
|----------------------|-------------------|---------------------|
| - 20.                | Rinne.            | - 18.               |
| + 10.                | Schwabach.        | + 8.                |
| 3 ins.               | Watch.            | Contact only.       |
| 5 ins.               | Whisper.          | Not heard.          |
| 1 yard.              | Conv. voice.      | 3 ins.              |
| Lost above Mdh. 6'0. | Galton's whistle. | Lost above Mdh. 6.  |
| Pfl. 2'3.            |                   | Pfl. 2'9.           |
| Lost below $re_1$ .  | Low notes.        | Lost below $ut_3$ . |

No appreciable departure from the normal was discernible in either tympanic membrane, and there was no rosy tint over the region of the promontory. Air passed readily up the Eustachian tubes, and produced a slight but very temporary improvement on the right side only. Tinnitus is present and is moderately severe; paracusis is also noticeable. No symptom of disturbance in the canals or vestibule has ever been present, and the caloric tests for nystagmus give a normal response.

As regards the history of the case it is reported that the dulness of hearing began in the right ear at the age of 16, and in the left ear at the age of 23. There is no history of suppuration or of earache, but the remains of adenoids are present to a slight extent. There is no history of nasal or naso-pharyngeal trouble. The tinnitus made its appearance after the deafness, but the length of the interval between the onset of the two symptoms cannot be ascertained.

D 5. Male, *æt.* 37. No opportunity has occurred of examining this subject, but from the other members of the family it is learnt that he suffers from dulness of hearing and tinnitus, and that these symptoms made