

In the act of hanging the knotted portion of the noose (in the case reported by Dr. Lannois the knot was probably replaced by a buckle) comes as a hard mass suddenly, and with great violence, in contact with the angle of the jaw, and thereby the ramus of the inferior maxillary bone is driven against the floor and anterior wall of the bony auditory canal, impinging most forcibly by its internal and highest articulating surface. A fracture of this comparatively thin plate of the temporal bone is the result. The fracture extends to and includes the membrana tympani. The mucous membrane of the auditory canal may not be broken, and there is therefore little, if any, hæmorrhage. The lesion in the ear drum would naturally assume the oval shape described, because of the action of the fibres constituting it. At the junction of the membrana tympani with the floor of the osseous canal no separation of the edges would be noticeable, supposing the fracture to be a simple one. In the middle portion of the drum, however, separation of the edges takes place on account of the retraction caused by the circular fibres. The frequency of this injury, and its extent, of course, vary with the difference in the violence inflicted and with the resisting power of the bones involved. The occurrence of this perforation of the membrana tympani is, I think, analogous to the rupture of the drum from fracture of the skull.

In the list of authorities I have consulted I find hanging as a cause of perforation of the ear drum mentioned by Goram Bacon ("Burnett's System of Diseases of Ear, Nose, and Throat," Vol. I., p. 255), and Urbantschitsch ("Ohrenheilkunde," p. 152), but in neither case is any theory as to the method of its causation given.

Very truly yours,

WM. LINCOLN,

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NEW INSTRUMENT.

DELIE'S NASAL GOUGE (Meyer & Meltzer, 71, Great Portland Street, W.).

This is a chisel for nasal spurs, for a full description of which see *JOURNAL OF LARYNGOLOGY*, Vol. XI., No. 4, p. 207.



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