

a direct communication was established between the vault of the left nostril and the left internal carotid, which had either been perforated by a spicula of bone at the time of injury or had subsequently become involved in the ulcerative process affecting the bone beneath it. In this case the aperture in the artery did not communicate with the cavernous sinus, hence there was no artero-venous aneurism.

The fourth case, being the subject proper of this communication, came under my observation on the 24th of May last. My notes of the case, taken that day, are in substance as follows:

"Early last February, W. G., aged 28, a robust and healthy young man, fell from a railway bridge, a distance of 20 feet, striking the right side of head and face on a piece of square timber. Was said to have been unconscious for about twenty-four hours. Both upper and lower jaw on the right side were supposed to have been fractured, but there are no signs of these lesions now discoverable. The right side of head and face were greatly swollen for several days, the right eye remaining closed for five days after the injury. During this time he suffered a good deal of pain in the injured parts. When the swelling subsided so that he could see again with both eyes, there was diplopia, one object appearing higher than the other and less distinct. As soon as he recovered consciousness he also became aware of a low beating sound in the right ear, which has continued unabated ever since. After a few days there was no more pain, but the eye remained moderately swollen and the diplopia was constantly present. The higher false image moving perceptibly up and down with each heart-beat. During the succeeding eight or ten weeks there was no perceptible change in his condition, and he was able to follow his employment. About two weeks ago he again became troubled with pain, which was chiefly referred to the orbit and brow. With this there was a marked increase in the prominence of the eye and swelling of the eyelids. Four days ago the pain became intense, so that he was unable to sleep at night. It was, indeed, the severity of the pain that finally induced him to give up his work and seek relief."

When I first saw him the appearance of the eye was strongly