

the crystals form. This is the hydrochloride of the ptomaine. This ptomaine given to dogs produced an increase of temperature, retching, and vomiting, purging, with watery, mucous, and bloody stools. Taking the symptoms as a group he thought he had reason for hoping that the discovery of this ptomaine might prove of value in elucidating the etiology of typhoid fever. The stools used in these experiments were from genuine cases of typhoid fever, and from three widely separate outbreaks of the disease.

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#### REMARKABLE SURVIVAL AFTER MULTIPLE PISTOL-SHOT WOUNDS.

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On the evening of Oct. 13th, 1881, W. L——, aged twenty-one, a rural postman, was seized by a would-be assassin, who fired several shots at him from a revolver, and having expended his own ammunition, called to a companion to "have at him now"; this man then continued the attack, and fired into their victim. *One of the bullets entered the brain, where it still remains and causes little if any inconvenience*, although for nearly two years he could not bend his head or lean forward without giving rise to great pain and unpleasant symptoms. On making my examination I found a bullet wound on the left side of the head, about half an inch posterior to his ear, and immediately beneath the parietal eminence. Through this wound the brain substance exuded, and a small probe passed directly inwards for a distance of about two inches by merely letting it drop into the wound. On examining with tip of little finger, no spicula could be found. Another bullet entered the left temple just above the zygomatic arch, about an inch and a quarter from the edge of the orbit; it took an inward and downward direction; its course however, could not be traced. Another hit the angle of the jaw, took an upward direction, and was held between two molar teeth. One entered the left side of the chest on a line with the nipple, an inch and a half posterior to it, passed through the chest, and was extracted from the right axilla. One glanced off the

great trochanter, and became lodged in the lumbar muscles. Two passed through the forearm about the middle. One entered the forearm about two inches above the wrist, took an upward course, and was extracted near the elbow-joint. One passed through the hand between the thumb and index finger. The skin on the left forearm and wrist was destroyed, the clothing having been set on fire by the powder. On the right hand the metacarpophalangeal joint was destroyed by the charge from a pistol loaded with shot, several grains of which and some of the paper used for "wad" were extracted from the palm of the hand. The man was almost pulseless, and the case seeming hopeless, it was decided by Dr. Allan and myself not to interfere except symptoms demanded it further than to cleanse and dress the wounds, carbolic lotion being used. He was given brandy and new milk or beef-tea every half hour. Coughing was severe for some days, and there was considerable hæmorrhage from the lungs. He had also a sharp attack of double pneumonia. He was kept perfectly quiet and cool, morphia being given in minute doses hypodermically to relieve the cough, which caused terrible pain in his head. On the fifth day after being wounded he had considerable delirium, and could hardly be restrained, as he was "afraid of being taken to an asylum" at one time, while at another he thought his assailants were again attacking him.

This case, besides being interesting, I consider very important from the fact that, although being so fearfully wounded, the man did not lose consciousness till some time after he was brought to the police barracks, where he described one of his assailants and fully identified him. He was able to describe a man who passed him soon after the attack: he also dragged himself to a house a few yards from the outrage, begged to be admitted, and when refused, and feeling faint, hid the mail bags, and after "coming to" crawled to another house, prayed for admission, and to send for a priest. Being again refused, he "dropped down to die." He has no idea how long he lay there, but hearing a car pass he made an effort, and got to the road, where he was found in a