

of one upper lumbar vertebra, apparently the second, whatever more, but not of the third.

Intelligence is perfectly sound. Speech and respiration are almost arrested. The respiration is gasping and panting. The voice is reduced to a whisper, and becomes at times inaudible. The circulation is feeble; the surface of the body cold. The coldness is partly due to laying on the snow until help arrived. There is the distance of a mile between the scene of the accident and the shanty whence aid came, and the news was conveyed by a young Canadian gentleman, who was making ssp troughs for sugar in the immediate vicinity of the accident.

The slightest motion causes excruciating pain of the spine, near the right scapula, and in the upper lumbar region, at the right side, below the axillary space behind the liver, and in the region of the gall bladder; loss of voice and stoppage of breath.

Applied eight yards of calico bandage, eighteen inches wide, outside the shirt, to support the back, ribs, and loins. A little overtightening of the bandage nearly caused the patient to expire, during its application, consequent on pressing in the sixth and seventh ribs.

March 27.—No sleep; deglutition is difficult and painful; passed urine; sips tea containing a raw egg.

28.—No sleep; can swallow easier.

29.—The incessant excruciating pain still prevents sleep; is easier; head has been twice raised to have a draught of tea and water.

30.—With difficulty could be raised to the sitting position. While in this position, he experienced a numb weight in the back of the head and along the spinal column, down to the loins. This sensation gradually disappeared in the course of a few days.

31.—With aid went out, and had movement of the bowels. The horridly nauseous taste which has existed from the outset of the illness is not so bad to-day. He has gradually improved his food from tea and raw eggs to the common shanty diet—pork, bread, tea, baked beans, fish, and potatoes.

April 1st.—There is less uneasiness of the bowels. There is much pain in the region of the liver, gall, bladder, and colon.

2.—Slept well; had a slight movement of the bowels.

3.—Can rise easier, but still requires aid. There is stiffness, weakness, and pain of the spine, in the scapular and lumbar regions, increased by pressure.

9.—Walked home one mile distant.

16.—Has been able to read since Sabbath last; can give a slight cough without carefully supporting the right side; with cautious and attentive adjustment, can lay on the right side. At the time of the accident, he was thrown on the right side, but subsequently lay on the back and on the left side. The pain at the lower angle of the right scapula is excessive, and causes sweating.

The subsequent history of this case is not difficult of conjecture. The patient daily advanced in strength, having gradually diminishing difficulty in changing from the recumbent to the erect posture. In about three months he abandoned the bandage. At the end of the year, there is spinal weakness in the lumbar region; and although the gentleman is fit enough for ordinary agricultural labour, he is weak in the back, and unequal to protracted or violent exertion of any kind. In lifting a heavy weight, he is unable to change from the stooping to the erect posture.

The preceding narrative displays a tremendous injury of the bony and ligamentous fabric of the spinal column, in addition to which the right side of the chest and abdomen were largely damaged. The patient was too ill to bear anything but indispensable handling. During the first twenty-four hours there were some appearances of tetanus, but these fortunately soon disappeared. The functions of speech, respiration, digestion, and of the circulation, were much interfered with, no doubt, consequent on the shock and irritation given to the pneumogastric and sympathetic nerves by the injured parts.

LITHOTOMY.

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David Kelly, aged 11 years, was brought to me on the 23rd January, 1869; his father stated that he had been complaining of a difficulty in micturition, for about three years. After en-