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Exp. 4th

A Mouse was confined under a glass, surrounded by Water by means of a small tube a foot long & shaped carbonic acid gas very slowly prepared into the glass, respiration ceased in three minutes. I cut all its legs off at the first joint, and plunged it into a basin of cold water. The animal immediately recovered and ran about the table apparently without pain. The stumps soon healed and I kept it a fortnight, after which I saw it vigorously.

Exp. 5th

Took an adult dog and exposed him to carbonic acid gas quickly prepared and in large quantity. Life appeared to be extinct in about 12 seconds. Animation was suspended for 17 minutes allowing respiration occasionally to intervene by the application of inflating instruments. I am permitted a dog without the slightest appearance of pain to the animal. There was no hemorrhage from the smaller vessels. The ligature that secured the main artery came away on the fourth day & the dog recovered without experiencing any material increase.

Exp. 6th

Exposed a Rabbit to the same Gas as Exp. 5. I cut off both Ears and experienced a similar result.

Exp. 7th

Filled a glass globe with the Gas exhaled from my own lungs, into it I put a Kitten. In 20 seconds I took off its Ears and tail, there was very little hemorrhage and no appearance of pain to the animal.

Dear Sir,

The object of the operating Surgeon is generally considered to be the Relief of his patient by cutting some portion of the human body where by parts are severed from each other altogether or ~~partially~~ ^{partially} of the aggravating cause of disease. There is not an individual who does not shudder at the idea of an operation however skilful the Surgeon or urgent the case, knowing the great pain that the patient must endure, and I have frequently lamented, when performing my own duties as a Surgeon that something has not been thought of whereby the fears may be tranquillized and suffering relieved. Above all from the many experiments on suspended Animation I have wondered, that some hint has not been thrown out of its probable utility, and noticed by Surgeons, and consequently I have been induced to make experiments on Animals intending to ascertain the practicability of such treatment on the human subject, and by particular attention to each individual experiment, I have witnessed results which show that it may be applied to the animal world, and ultimately I think will be found used with perfect safety and success in Surgical operations. I have never known a Case of a person dying after inhaling