large amount of decomposing nitrogenous material, after a long fast, or on a full stomach, the best time which before its conversion into urea and creatine. being three or four hours after eating. to be climinated by the kidney, is peculiarly liable to fermentation, on the introduction of any of the may be given before commencing the inhalation. zymotic poisons: and we have also a non-azotized. series including sugar, fat, and lactic acid, pro- sitting posture there is danger from syncope, and duced by the same effort, to be eliminated by the respiratory process. (To be continued.)

## CHLOROFORM.

The recent able report of the Committee of the Royal Medical and Chirurgical Society, on the inhalation of Chloroform, embodying as it does, the present opinion of the medical profession of Great Britain, cannot but be considered extremely valuable. We regret that our paper is too small to give other than an abstract of those points in it which we consider the most interesting and useful.

Concentrated chloroform vapour destroys life by

arresting the action of the heart.

When chloroform proves fatal whilst moderately inhaled, the heart's action is much weakened for some time before death.

Respiration generally, but not invariably, ceases is of less importance. before the action of the heart, and death is due to both these causes.

The danger from chloroform increases with the

degree of stupor it induces.

longed anesthesia is required.

objected to this deduction, and said that these quantity finds its way through the larynz, it is france by order of Government, but that they had the soft palate, fauces, pharynx, and resterior name caused disappointment, whilst they tended to mys- if sudden or severe hamorrhage is likely to occur. tery and were cumbrous; and gave as a reason that 'it is not advisable to induce deep insensibility. and that the spirits of wine remains on the cloth or the anæsthetic may be employed with safety and sponge, and has to be squeezed out. (If this be the advantage. case, then the quantity poured upon the cloth must determine the amount of the ether inhaled before the chloroform completes the anæsthesia. Ed.)

The most certain means of restoring life, after poisoning by anæsthetics, is by artificial respiration. And resuscitation may generally be accomplished so long as the heart continues to beat. In exceptional cases, however, it may succeed after the

cessation of the heart's action.

Galvanism is less reliable then artificial respira-

tion in equal cases.

Dr. Kidd bere remarked that he considered electro-magnetism better than any other means

whatever. Sudden pallor, or sudden lividity of the face, or sudden failure or flickering of the pulse, or feeble or shallow respiration, indicates danger, and the chloroform must at once be withdrawn. Should these symptoms become urgent, its directions are to allow free access of air; to pull forward the tongue and clear the mouth and fauces; to keer the patient recumbent; dash cold water on the face and chest; and commence Marshall Hall's or Sylverter's method of artificial respiration, which, it says, should not be delayed or suspended for the employment of galvanism.

Resuscitation is more difficult in cases of gradual narcotism than in those which become quickly

La cases of depression, brandy or other stimul

When chloroform is administered in the erect or even sudden elevation or turning of the body when recumbent should be avoided.

If lint or a napkin be used, it should be folded as an open cone, or held an inch or an inch and a half

from the face.

Chloroform should invariably be given slowly. sudden increase of the strength of the anasthetic

is most dangerous.

The patient who appears likely to vomit while beginning to inhale the anxisthetic, should at one be brought fully under its influence, when the tendency to sickness will be found to cease. Provision for the free admission of air during the patient's narcotism is absolutely necessary.

With heart-disease the annithetic may be given in any case which requires an operation, although when there is evidence of a fatty, week, or dilated heart, great caution is demanded. Valvular disease

In phthisis, when an operation is unavoidable, the anasthetic may be given with impunity.

For all operations upon the jaws or teeth, the lips, cheeks, or tongue, the anæsthetic may be A mixture of equal parts by measure of chloro-form, ether, and alcohol, is as effective as pure management the patient may be kept under in chloroform, and a safer agent when deep and pro-induced to the completion of the operation. Is these cases, blood, as it escapes, if not voided by Dr. Kidd, the great authority on chloroform, here the mouth, passes into the pharynx. If any small

For operations upon the eye, involving the contents of the globe, the use of anæsthetics is open w objection on account of the damage which the en may sustain from muscular straining or vomiting If employed, profound insensibility should be induced.

In operations for hernia, and in the application of the taxis, the anæsthetic acts most beneficially. For most operations about the anus, profoud

anæsthesia is positively demanded.

In the condition of shock, or of great depression as after hemorrhage, careful administration of the anæsthetic diminishes the risk of an operation.

The continuous vomiting occasionally indecs by, and following upon the inhalation of anæsthetis may be injurious by consequent exhaustion, as well as by mechanically disturbing the repair of a would With this reservation, they do not appear to in the fere with the recovery of patients from surgice operations.

Statistics.-The results of 2,586 capital operation performed before, and of 1,860 performed state the introduction of annesthetics, collected from authentic available sources, prove that any sthetic have in no degree increased the rate of mortality

In our issue of last month we inadvertent omitted to acknowledge our indebtedness to insensible from a strong doss of chloroform vapour. American Medical Times for the excell it is not advisable to give an anasthetic either on Gastralgia, by Dr. Lee of New York. American Medical Times for the excellent article