

although only the mucous membrane may be engaged, yet we know that a blow on the mastoid process, a severe cold, a depressing illness, may cause disease to advance to the bone, pyæmia may ensue, or death by general cerebral irritation, without the formation of abscess. A well-accomplished operation will always give free vent to pus when existing, and prevent it passing to the brain through some of the numerous channels I have recorded, and will thus save the patient. I must deprecate the operation recommended by Dr. Bagroff—namely, the use of the gouge and galvano-cautery over the mastoid process; such procedure, as it appears to me, would be likely to set up irritation and inflammation. Unless, indeed, the suppuration is comparatively superficial, or discharging through a fistulous opening, I would not select to operate over the mastoid process; there one cannot remove the entire portion of the bone, on account of the proximity of the lateral sinus, and so cannot expose the dura mater, to do which I hold is very essential.

The site I would always select for operation, with the exceptions as above named, would be such as to place the lower border of the trephine on a level with the external auditory meatus, and anterior to a line dividing vertically the mastoid process. By adopting this course there will be no danger of wounding the lateral sinus, the tympanum and mastoid cells will be opened, giving full exit for discharge, the dura mater will be exposed, and should pus exist between it and the cranium, there will be ample freedom for its escape.—*Dublin Journal of Med. Sc.*, October, 1884.

**DISINFECTANTS.**—At the close of a paper on this subject, Dr. W. J. Miller, of Dundee, draws the following conclusions:

"1. It is very doubtful that any efficient disinfection of a room can be practised while it is occupied. Nevertheless, it is possible that the presence of a disinfectant, though not in sufficient concentration to kill contagium, may, by long continuance of operation, weaken it, and, if microzymes be the contagium, may so lower their vitality as to impair their power to reproduce their kind. A certain degree of probability is given to this by Prof. Tyndal's observation of the effect of continuous heating in sterilizing putrescent liquids, which led him to conclude that there is a period in the life-history of these minute organisms when they are especially vulnerable. It is therefore, in the direction of good to employ some disinfectant during the progress of the case, and there is none equal, either in efficiency or in simplicity of application, to sulphur. It is exceedingly convenient in practice to use sulphur pastiles, as introduced by Dr. Littlejohn, each of which contains twenty-five grains of sulphur, one or two being used at a time, according to the size of the room. This should be done several times a day.

"2. The skin of the patient should be sponged several times a day with diluted acetic acid, by preference with the aromatic. This is especially applicable in scarlet fever, effectively disinfecting the desquamating skin. I only mention the method of inunction to condemn it emphatically. The strength of the solution must be regulated by what is found agreeable to the patient; a 1 to 20 solution of the aromatic acid, which has been referred to, is generally too strong.

"3. For the final disinfection of the sick room nothing equals sulphur. But it must be thoroughly applied. The Dundee sanitary authority uses about three pounds of sulphur to a room about ten feet square, carefully closing all apertures by which the fumes can escape, and leaving the room shut up for about four hours.

"4. For disinfection of clothing, etc., the method followed here is exposure to a temperature of about 250° for three hours in a specially constructed chamber, the air being also charged with the fumes of about six pounds of sulphur. It is scarcely possible that any contagium can live through such an ordeal.

"5. Excreta of patients are best dealt with by Dr. Dougal's method—namely, mixture with hydrochloric acid diluted to 1 to 20. He has proved that this solution does not injure the metal fittings with which it comes for so short a time in contact. Clothes may also be thoroughly disinfected by this agent, and without injury.

"6. For hand disinfection, carbolic solutions 1 in 20, acetic acid, and sulphurous acid, are almost certainly thoroughly effective.

"7. The question of disinfectant inhalations for lung disease, especially phthisis, demands a longer consideration than can here be given to it, but, when we consider that vaccine which has been exposed for three hours to air saturated with creosote vapor, and similarly for four hours to the vapor of eucalyptus, retained its infectivity unimpaired, that the germs to be acted on are far in the recesses of the air-vesicles, and that the inhaled disinfectant can only reach them in very weak dilution, if indeed it reaches them at all, it appears to me, although it is very disappointing to arrive at such a conclusion, difficult to place much confidence in this therapeutical expedient."—*Practitioner*, Oct '84.

**THE PAINLESS EXTINCTION OF LIFE.**—The *Med. Press and Circular* states that: Dr. Richardson's lecture on "The Painless Extinction of Life in the Lower Animals," at the Society of Arts last week attracted a very large audience, among whom we noticed many members of the profession. The lecturer prefaced his subject by stating that he had, at the request of the Committee of the Dog's Home, Battersea, constructed a lethal chamber for the painless extinction of the life of dogs which nobody owns, which must of necessity be destroyed.