times daily. Not only have I not had any deaths, but I have met with no accident of any kind. I have not once had to do artificial respiration or to pull forward the tongue. Neither have I had to interrupt an operation in order to ward off any accident due to chloroformisation. There is no element whatever either of luck or of chance about these results. Any surgeon can administer chloroform without risk who will take the trouble to assure himself that the patient's breathing is normal and regular throughout the administration, and to stop the inhalation in good time, that is, directly full anæsthesia is produced. Statistics such as those of Dr. Julliard and Mr. Roger Williams, which are intended to show the danger of chloroform, are, as my table proves, susceptible of a very different interpretation. If they help to prove anything, it is that no anæsthetic is absolutely safe except chloroform administered on Syme's principles, and the more proof we have of this kind the better.

NOTE ON MALTA FEVER.

BY SURGEON DAVID BRUCE, M.S., Netley.

THE BRITISH MEDICAL JOURNAL for May 16th, 1891, contains a paper by Staff-Surgeon Charles C. Godding entitled "Malta (Remittent) Fever," in which the conclusions arrived at are so opposed to those held by myself that I feel compelled to offer a few remarks in the way of criticism. In extenuation of my thus coming forward as a critic, I may state that I have had ample opportunity of studying this most interesting and important fever, as I was stationed for five years in the Military Hospital, Valletta, during which time more than 400 cases came under my notice. I am, therefore, interested in a very high degree in all that pertains to this fever, and am most desirous of procuring a proper recognition of what I consider to be its true nature at the hands of English medical men generally, and especially those of the army and navy. Although there are extremely few of the deductions given by Staff-Surgeon Godding as the result of his experience with which I perfectly agree, I shall limit myself to a consideration of his classification of the disease, as upon this the important questions regarding treatment, and the propriety of early removal from the infective area, evidently depend.

The disease, in his opinion, is "a paroxysmal fever with daily remissions." Turning up the word "paroxysmal" in Quain's *Dictionary of Medicine*, I find it is "used to indicate the periodic attacks or fits which characterise certain diseases, such as ague, gout, and asthma;" but there are no periodic attacks or fits in Malta fever, which, on the contrary, is one of the most monotonous of diseases, and therefore I take it that the word is not used here in the sense quoted. The word is also used commonly as synonymous with malarious, and this is, I presume, the meaning Staff-Surgeon Godding gives it; hence the definition may be read "a malarious fever with daily remissions." Now this is the point I wish to combat. In my opinion Malta fever is not a malarious fever; there is no tiniest thread of malaria running through it; it is a species of fever perfectly distinct from enteric or malarious fever, having its own definite parasitic cause, and is as worthy of specific recognition as diphtheria or tuberculosis. This is my position, assumed and held mainly by a belief in the following line of argument.

It is slowly creeping into the minds of English medical men—slowly chiefly on account of the impassable difficulties placed by legislation in the way of original research in England—that infectious diseases are caused by specific parasites. It is slowly but surely becoming established that enteric fever is not enteric fever without the presence of Eberth's bacillus, and that Asiatic cholera is not Asiatic cholera without Koch's cholera vibrio. In the same way malarious fever, in whatever part of the world it occurs, is coming to be associated with an amœba-like parasite found in the blood of those suffering from the disease. The demonstration of this parasite, supplemented clinically by the very specific action of quinine, constitutes the most rational and surest method of diagnosis. Now, if an amœba-like parasite could be demonstrated in the blood of those suffering from Malta fever, and if quinine could be shown to have its specific effect on the course of the disease, then I would be the first to admit that Malta fever is malarious. In this case the term remittent fever, in the officially recognised nomenclature of diseases would exactly describe the disease, and could be used instead of the very misleading term simple continued fever, under which heading it is at present principally returned. But in Malta fever no one has been able to find any such parasite in the blood, and it has been proved over and over again, and partly admitted by Staff-Surgeon Godding himself, to be absolutely and totally refractory to quinine. On the other hand, to prove the specificity of this disease, I undertake to demonstrate in every fatal case of true Malta fever a definite micro-organism which has not the slightest resemblance to that found in malaria. This parasite I have shown to be capable of giving the fever to certain animals, with all the symptoms met with in man. It can be cultivated with the greatest ease from the spleen and other organs of fatal cases of Malta fever, and has never been found in the organs of cases of malarious fever or any other disease. From these, and many other, considerations, I hold that Malta fever is not a malarious or a paroxysmal fever, and that Staff-Surgeon Godding's definition of the disease is utterly misleading and not altogether harmless, leading, as it is sure to do, to the indiscriminate use of large doses of quinine in the treatment of the fever.

MEMORANDA: MEDICAL, SURGICAL, OBSTETRICAL, THERA-PEUTICAL, PATHOLOGICAL, ETC.

HYPERPYREXIA IN INFLUENZA.

CASE I.—On May 26th I saw a man suffering from influenza. The temperature was 103.8° F. On May 28th the temperature was 99°. On May 29th it rose to 101°, and on the following morning it was 104.8°. Antifebrin gr.x were given, but in about an hour the temperature had reached 108.4°. He was then unconscious and dying. He was lifted into a slipper bath partly filled with lukewarm water; cold water was then added until quite cold. The temperature went rapidly down until it became subnormal. During the twenty-five minutes he was in the bath he gradually returned to consciousness. He was lifted out, clothes stripped off him and well rubbed down, put into blankets, and placed back in bed. He went on very well for three or four hours, taking plenty of nourishment. The temperature then rose again to 106.4°, when he was again placed in the bath; he was sensible and was able to take brandy during the bath, which lasted twenty minutes, when the temperature had fallen to 98°. He went on favourably until about 8 P.M., when the temperature rose again to 106.2°, and still continuing to rise; the bath was again suggested, but was not used. He soon became unconscious, and died about an hour after.

CASE II.—On May 27th a young married woman, aged 21, was confined. On May 29th she was seized with influenza. The temperature was 103.6°. She went on pretty well until May 30th, when the temperature ceased to fall, and soon began to rise, reaching 104.8° F. Antipyrin, antifebrin, and quinine reduced this very little, the tendency being upwards. About $2 \blacktriangle m$ on May 31st the temperature rose quickly to 108°. She then became unconscious, and was evidently dying. She was given a bath of lukewarm water, and cold water was poured over her chest until the water became quite cold in the bath. She was kept in the bath until she came to and began to speak (probably 25 minutes) the temperature had fallen to 97.4. She was then lifted out and rubbed down, and put to bed. During the early morning she became maniacal, but suddenly became sensible again. She continued well until about 2.30 p.m. on May 31st, when the temperature again went up to 106.7°. The cold bath was again resorted to; this time she was able to ask for the bath, and told us to "be sharp" with it. My assistant again put her in, and this time kept her in fifty minutes; the temperature had then reached 97.4°. She conversed freely during the bath, and took support and stimulants. She was again taken out, rubbed down, and put to bed. The temperature one hour and a half after was normal, but about three hours after it again began to rise. Anti-