

service to those who are desirous of vaccinating individuals who in the past have objected to the pain and reaction often following a successful vaccination by the open method.

DR. F. W. CAMPBELL :—My remarks with regard to vaccination will be perhaps more historical than scientific. It is perhaps only known to a very few medical men in Montreal, that nearly 50 years ago small-pox patients were admitted into the wards of the Montreal General Hospital. I will not say that it never extended to any persons who saw these patients, because I myself got it when a student, nearly 46 years ago ; the diphtheria patients were also admitted in the same way.

During the winter of 1862, the first by-law which compelled children to be vaccinated was put in force in the City of Montreal, and the late Dr. Leprohon, Ricard and myself were appointed public vaccinators. The East, West, Centre and St. Lawrence wards were visited and, including my public vaccinations and those in my private practice, 25,000 vaccinations and revaccinations were done. Now we have heard, and what we have heard we believe, that these arms of ours and the air which surrounds them, are in a very dangerous condition, but I want to say this, that I never washed any of those 25,000 arms, and I have never seen the slightest bad result in a single case. Now what was used ? I do not know that I ever saw a vaccine crust examined bacteriologically, but the ordinary scab was universally used by the profession of Montreal, and they were valuable because many a dollar have I made by selling them to the wholesale houses in the city. The way to catch these crusts was to attach a piece of net round the arm by a string, and when the crust fell off, it was thus saved. Twenty-five or thirty children could be vaccinated from this.

When you took the vaccination crust and held it up to the light you saw the central disc dark, dense and not transparent, the surrounding was semi-transparent. I invariably cut off the surrounding part, shaved this crust, mixed it with cold water and made a sort of paste, and with this smeared the tartan cut on the arm, as it was called. When it dried the baby went around with his arm exposed to the air and contamination.

Two marks I think are the number that have usually been made in this city, and, on looking up the matter, I think we will find that the number of marks bears a relation to the percentage of deaths. A person who has had smallpox is not as well protected as those who have had three good vesicles. The deathrate among the unvaccinated, according to Seaton, who is the best authority in the world, is 35 per