CENTRAL MEDICAL DEPARTMENT LABORATORY. AMERICAN EXPEDITIONARY FORCE. A.P.O.721.

Jan.23rd.1919.

FROM: J.H.Clark, 1st Lt.M.O.R.C.

TO: Capt.B. Jablons, Dept. Wound Bacteriology, C.M.D.L.

SUBJECT: Gas Gangrene, and Serum administration.

Attached find histories and bacteriological findings of cases of gas gangrene, occuring in Base Hospital 17, during the months of Oct. Nov. and Dec. Unfortunately a civil employee of the hospital threw out these charts, when the hospital was being handed over 103. For this reason the histories are incomplete.

Great difficulty was exerianced in isolating the causative anaerobe, sufficiently rapidly, to give the corresponding antigerum. In one case an Edematiens was not isolated until four (4) days after the culture

was taken.

Of the 29 cases attached, 20 received serum treatment, with 4 deaths a mortality of 20%. Two of these, Horrovoets and Towslee, were practically past all help when first seen. Of the 9 cases receiving no serum, 3 died a mortality of 33%. But one of these, Burns, was also mortally wounded.

ll of the cases receiving serum, could be diagnosed gas-gangrana from clinical features only. Serum was given to the remaining 9, because of the bacteriological findings, but in no case did symptomes of clinical gas gangrene develop. 5 of the cases receiving no serum, could be diagnosed gas gangrene from clinical signs, 3 of these dying. The 14 cases not clinically gas gangrene, presented no diagnostic features, except a foul dirty wound with profuse discharge. The dry, glazed wounds were found to be more dangerous than wounds that were draining freely.

In only one case, Boyd, was the effect of serum striking. In the others, particularly those receiving Leclainche and Vallee, and Iso Bull's serum, Welch bacilli persisted for upwards of a week in the wound, even after 100c.c. of the serum had been given, although the bacilli may have been detoxicated. There was not sufficient time or available material

for testing this.

From the experience derived from the earlier cases, 20c.c. of AntiBeldonensis and 30c.c. of Leclainche and Vallee serum, was injected in every case of potential gas gangrene, and repeated if the patient did improve. This, together with extensive debridement and counter-openings to relieve tension and aid drainage, gave the best results; only surpassed by amputation, when the extremity was badly shattered and the condition of the patient allowed this.

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