

招請講演

The role of surgery, hyperbaric oxygen and antibiotics in the treatment of pure and mixed anaerobic and aerobic soft tissue infections.

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Necrotizing soft tissue infections, caused by aerobic, anaerobic and/or mixed bacterial floras, are an increasing problem in medical and surgical practice.

They occur with increasing frequency and seriousness especially in immune-compromised hosts. This suppression of the immune system may be caused by underlying systemic diseases like diabetes mellitus, malignancy or arteriosclerosis; the use of immunosuppressive drugs like in transplant recipients or by the use of broadspectrum antibiotics.

There is a considerable morbidity; mortality is reported up to 70-80% in cases of synergistic necrotizing cellulitis, a form of necrotizing fasciitis, in older debilitated patients.

The clinical picture of these infections can vary considerably from patient to patient.

Therapy is very difficult, often irrational and frequently "one step behind the facts", because etiology and bacteriology are not well understood and the clinical course is often expected to evolve in a different, more favorable way.

We will discuss:

1. The rationale for hyperbaric oxygen in the treatment of these infections in general.
2. The classification of soft tissue infections whereby we will introduce a new classification system based on the anatomic location and exact bacteriological nature of these diseases.
3. Bacteriology, etiology and clinical picture.

4. The role of surgery, antibiotics and hyperbaric oxygen in the treatment of these diseases and the sequence of these treatment modalities.

5. Results of these treatment in the group of gas gangrene (over 500 patients) consists of a considerable decrease in mortality and a considerable increase in limb-and other tissue-saving possibilities. Moreover a rapid clarification of the demarcation was noted.

6. In the group of progressive bacterial gangrene patient selection for hyperbaric therapy is difficult. We will outline our regimen by discussing a group of 98 patients treated from 1978 to 1987.

7. In necrotizing fasciitis aggressive surgery is of the utmost importance and here the value of hyperbaric oxygen therapy is less than in the other patient-groups.

8. We will offer extensive illustration of clinical cases.