USE OF HYALURONATE - IODINE COMPLEX FOR THE TREATMENT OF HEPATIC ABSCESS CAVITIES

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Introduction:

Hepatic abscess cavities are difficult to treat and frequently lead to sepsis and multi-organ failure. Drainage and continual flushing of the abscess cavity is important part of therapy. However, especially in severely malnourished patients the complete healing is frequently time-consuming and complicated. A rapidity of granulation tissue growth in an abscess cavity can be crucial part of healing.

We have used successfully the healing system based on hyaluronate - iodine complex for more than 4 years. The positive effect of this system on healing of complicated wounds, including deep abscess cavities was demonstrated in the ASPEN clinical nutrition week - 2006 (Figures 1 - 4). Because of this positive effect we decided to study the effect of hyaluronate - iodine complex on difficult to treat abscess cavities.

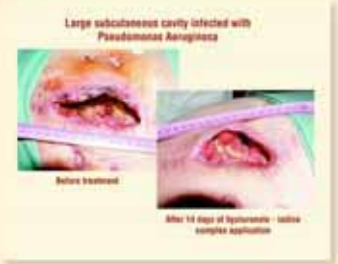

Fig - 1

Fig - 2

Fig - 3

Fig - 4

The aim of present study was to investigate effect of hyaluronan-iodine complex on hepatic abscess cavities treatment.

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Method

The effect of hyaluronate - iodine complex was studied in four patients, who were accepted to our department due to sepsis. Hepatic abscesses were diagnosed on CT scans. The abscesses were drained using pig-tail catheter. Cavities were flushed by sterile saline and hyaluronate - iodine complex was injected into cavity in amount 20-30% of cavity volume; then the pig-tail catheter was closed. The instilled hyaluronate - iodine complex was replaced every 24 hours after previous flush of abscess cavity with saline. The healing process was documented using CT scan.

Results

All abscess cavities healed within 3.2 ± 0.8 weeks of treatment in spite of large diameter before treatment (8.9 ± 3.6 cm). Mean number of dressings was 23.5 ± 5.4. No adverse effect of hyaluronate - iodine complex treatment was apparent in our group of patients. No signs of abscess recurrence were apparent in control CT scans two months after discharge.
The results are demonstrated in figures 5-12.

Patient 1

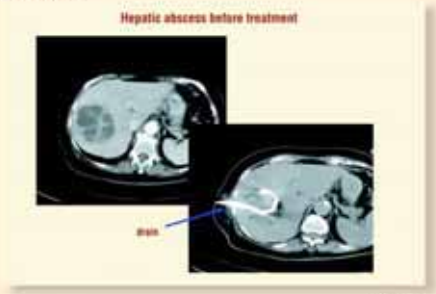

Fig - 5

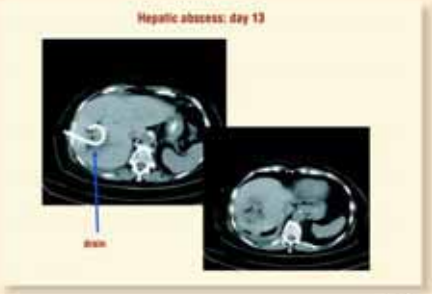

Fig - 6

Fig - 7

Patient 2

Fig - 8

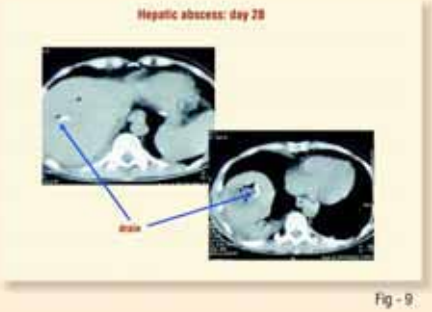

Fig - 9

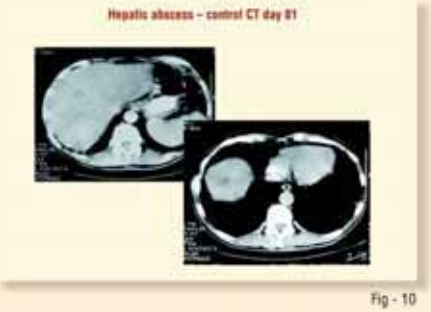

Fig - 10

Patient 3

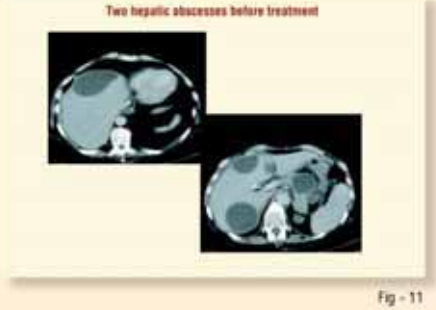

Fig - 11

Fig - 12

Conclusion

To our knowledge this is the first study of hyaluronate - iodine complex for the treatment of abscess cavities. We suppose that both stimulatory effect of this complex on granulation tissue formation and antimicrobial effect of iodine could explain this positive effect.

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