

### **POSTER PRESENTATION**

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# 0.045% DAC N-055 a choice for poor Afghan surgical patients?

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#### Introduction / objectives

O<sub>2</sub> enriched pharmaceutical chlorite [NaClO<sub>2</sub> German Drug Codex monograph DAC N-055, 1990] contains Na<sub>2</sub>Cl<sub>2</sub>O<sub>6</sub> formerly called TCDO, (NaClO<sub>2</sub>)<sub>4</sub>·O<sub>2</sub> fights tissue infections and promotes wound granulation of radiogenic ulcers [http://www-pub.iaea.org/mtcd/publications/pdf/te\_1300\_web.pdf]. Under our hygienic conditions the intra- and postoperative topical use of 0.045% DAC N-055 helps us to deal with bone & tissue infections in orthopaedic surgery in Mazar. Here we document 4 cases out of the total number of 26 patients, we monitored in the former Military Hospital in Mazar 2004 - 2006 to familiarize ourselves with this German drug first registered as Oxoferin<sup>®</sup> in 1983.

#### **Methods**

The speed of  ${\rm ^ClO}_2$  release from 0.045 % DAC N-055 (max. 160 ppm) increases with decreasing pH.  ${\rm ^ClO}_2$  induces no resistance. In all patients the field of surgical intervention is rinsed several times with 0.045 % DAC N-055 in saline especially during the operation, especially before wound closure and dressed with cotton gauzes kept moist till the patient is discharged home. Post-OP irrigations are practised with 0.045 % DAC N-055 for septic arthritis (closed method) and osteomylitis (open method).

#### Results

1/2 septic arthritis, osteomyelitis cases and 2/22 osteomyelitis cases are photo-documented. Without antibiotics, septic arthritis had an excellent functional outcome after 6 weeks, the open fracture with skin defect received mesh graft on excellent granulation after 1 month and was completely closed after 3 months. 11/22 osteomyelitis cases could be monitored for 6 to 18

months, 6 cases relapsed within this time, for 8/11 patients antibiotics were not available.

#### **Conclusion**

If 4.5% DAC N-055 could be sold in Afghanistan at 50% of the price of the finished drug Oxoferin $^{\text{®}}$  sold in Pakistan this could help poor patients in traumatology.

#### **Disclosure of interest**

None declared.

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