

Fluoroquinolone vs cephalosporine. From what to begin?

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Background - initial antibiotic therapy is nominated proceeding from infection severity, monitoring of a spectrum of microorganisms. Antibiotic therapy should be active concerning a wide spectrum of microorganisms, well penetrate in soft tissue and bones, also to be economically accessible. Cephalosporines 3 generations and fluoroquinolone are recommended for empiric therapy more often. **Purpose of evaluation** - to find out what preparations from those, the day of treatment costs no more than 50 USD, it is more preferable to use on the data of the analysis sensitivity to antibiotics. **Materials and methods** - retrospective evaluation the spectrum of microorganisms, sensitivity and starting therapy at 182 patients with diabetic foot ulcer (DFU), receiving treatment in clinic with 01.01.2005 on 31.12.2008 is investigated. Cost of one-day treatment (CDT) is designed with the account average cost of a preparation and daily dose. All patients had 2 - 3 stage DFU of PEDIS classification. The average age of the patients has made 63±12,5 years, 56 % male, 44 % female. Samples of wounds contained Gram Positive Aerobes in 66 %, Gram Negative Aerobes in 58 %, MRSA in 34 %, Pseudomonas Aurugenosae in 28 % samples. Sensitivity and therapy

Antibiotic	Sensitivity, samples	Start Therapy, Pts
Ceftriaxone	40%	79%
Amoxicillin/clavulanate	44%	27%
Ciprofloxacin	53%	16%
Levofloxacin	64%	4%

Ceftriaxones CDT and ciprofloxacin CDT were lower 10 USD, and levofloxacin CDT was about 50 USD. Cost of one-day treatment

Antibiotic	Rubles	USD
Ceftriaxone	40-200	1,1-5,7
Amoxicillin/clavulanate	500-1000	14-29
Ciprofloxacin	100-150	3-4
Levofloxacin	1800	52

The conclusions - In a choice of starting therapy are recommended to be taken into account results of primary crops from a wound in each medical department. In our case the sensitivity to fluoroquinolones was found more often. Low cost and good penetration in a tissue allows to recommend fluoroquinolones as initial therapy, is especial at involving in process bones. Life Quality of Patients and Results in Long-term Period of Surgical Treatment of Complicated Diabetic Foot Syndrome