UNIVERSITY "GOCE DELCEV" - STIP FACULTY OF MEDICAL SCIENCES, STUDIES FOR GENERAL STOMATOLOGY

CONTEMPORARY ANTIBOPROPHYLAXIS OF DENTAL INFECTIOUS ENDOCARDITIS

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BACKGROUND: Bacterial endocarditis is in many cases result of bacteremia produced by operative procedures, among which is tooth extraction. There is a strong indication for using efficient antibiotic cover for dental extractions and other operative procedures known to be followed by a bacteremia.

AIM was to amount all literature acknowledgements for the prevention of endocarditis following dental procedures, as well as emphasizing the application of contemporary aspects and concepts for conservative and oral-surgical approach

in these patients.

Table 1. Categorization of patients with a risk ofbacterial endocarditis(JAMA 277 (22): 1794-1801, 1997)

Patients with a high risk of bacterial endocarditis

Artificial heart valves, including bio-prosthetics and homographic valves Earlier bacterial endocarditis Cyanotic innate heart diseases (e.g., Tetralogy of Fallot) Surgical corrections of systemic pulmonal shants

Patients with a moderate risk of bacterial endocarditis

Innate valve dysfunctions (rheumatic heart disease) Hypertrophic cardiomyopathy Prolapse of mitral valve with valve-regurgitation Other congenital heart malformations

Patients with a low risk of bacterial endocarditis

Prolapse of mitral valve without regurgitation Rheumatic heart disease or Kawasaki Disease without valve dysfunction Psychological, functional or pure heart murmur Cardiac pacemakers or defibrillators Isolated secondary atryic septal defect

RESULTS

MATERIAL AND METHOD Examination sample was consisted of 40 patients (20 adults and 20 children) with diagnosed cardiac defects, prosthetic cardiac valves and previous bacterial endocarditis in which 46 stomatological interventions were done.

- Preparation includes: laboratorial investigations, to establish stabile general health condition (sedimentation, leukocyte formula, fibrinogen, CRP, prothrombin time, glycaemia, urea and bilirubin)
- Antibiotic therapy before conservative and oral-surgical interventions (Caps. Ampicillini 2g or Clindamycini 600mg one hour before extraction).
- Patients were followed during 24, 48 hours, than after seven days and 30 days, with attention to observe possible general and local complications.

dental

 Table 2. Average values of the parameters of the blood-picture and the other lab-analysis

Parameters	Average value	Referential values
sedimentation	16	male 13 /
(1 hour)		female 18
WBC	6,7 x10 ⁻³ /uL	4,5 - 10,5 ×10 ⁻
		³ /uL
RBC	4,37 x10 ⁻⁶ /uL	4 - 6 x10 ⁻⁶ /uL
PLT	285 x10 ⁻³ /uL	150 - 450 x10 ⁻³ /uL
fibrinogen	3,2	2-4
ΑΥΤ	0	5mg/L
CRP	0	< 200 IU / ml
glycemia glycemia	5,2 mmlol / L	3.5 - 6.5 mmlol / L
urea	4.1 mmlol / L	3.0 - 7.8 mmlol / L
Bilirubine (total)	10.3	6.8 - 20.5
Prothrombine time (PT)	14	11-16

after:

Safety

establish stabile general health condition (assign parameters from laboratorial findings were in the borders of referents values).
selective indication for stomatological interventions
precise antibiotic prophylaxis

procedures

performed

were

concordance from cardiologists.

CONCLUSION

Selective approach preparation, and evaluation for basis disease and multidisciplinary collaboration cardiologists, with present fundamentals for successful safety and realization stomatological indicated of

