

This work is the retrospective study of cases of IE in intravenous drug abusers hospitalized at Clinic of infection diseases FN Na Bulovce in years 2000 – 2009. By surviving patients their consecutive health evolution has been checked.

The file includes 45 cases of IE in 40 intravenous drug abusers (5 recurrences at 3 patients). The tricuspidal valve alone or together with the pulmonary valve have been affected in 29 cases (64 %), the valves of the left heart in 9 cases (20 %), the duplex disability occurred 5 times (11 %). Except i.v. narcomania we have found bicuspidal aortic valve (twice), artificial aortic valve (once), and posttraumatic changes in mitral valve (once) as IE predispositions. Etiologically predominates *Staphylococcus aureus*, whereas there was a dual infection in one case. Only at 3 patients (7 %) another causer has been found. In 11 cases the etiology is not clear. Part of 26 of 29 cases (90 %) at isolated right heart affects was a pulmonary embolism. Serious complication was the acute respiratory distress syndrome – ARDS (8 times), multiorgan dysfunction syndrome – MODS (8 times, lethality 12 %) and brain edema (5 times, lethality 40 %). From 57 hospitalizations (some patients were hospitalized twice with the same attack) were 29 patients cured, 17 sent to cardiocenter and 7 went home by mere motion, 1 was transferred to other hospital and 3 died (every one has affected a different valve – Tri, Ao, Mi). Mortality is 5 % at 57 hospitalizations and 7 % at 45 cases of IE. Data dealing with health after restoration has been gained from 12 patients or their family members.