Results: The results obtained were: men were involved in 60% cases (n = 24) against women - 40% (n = 16), average age being 36.25 (\pm 2.35) years, with prevalence from rural areas.

Thoraco-lumbar spinal cord injury etiology was varied: fall from a height 50%, traffic accidents 22.5%, falls from one's own height 10%, hit with objects in the lumbar region 10% and other causes 7.5%.

The most affected anatomical level was thoraco-lumbar junction because of its anatomical features, Th12-L2 vertebrae being affected in 70% (n = 28). L3-L5 vertebrae injuries have been less frequent - 27.5% (n = 11).

Neurological damage in the study occurred in 37.5% cases of thoraco-lumbar SCI with the following consequences: monoparesis in 7.5% cases, 10% paraparesis, sphincter disturbances 10% and 5% radiculopathies.

Surgical treatment was applied with the purpose of neural decompression, stabilization and fusion. By posterior access were made 87.5% (n = 35) of surgeries, by anterior access 7.5% (n = 3) and combined approach - 5% (n = 2).

Conclusion: Thoraco-lumbar spinal cord injury is a serious affection of the spine, affecting working population at young age with predominant involvement of men from rural areas. Most frequent causes of spinal injury in thoraco-lumbar region are: catatraumas, road accidents, falls from own height these being responsible of the large number of spinal cord damage. The thoraco-lumbar junction was often subjected of lesion (70% cases). Predominant route of approach for the surgical treatment of SCI of thoraco-lumbar region was the posterior one.

Keywords: Spinal cord injury, thoraco-lumbar.

STUDY ON DISTRIBUTION AND INVOLVEMENT IN PATHOLOGY OF ESBL BACTERIAL STRAINS IN A UNIVERSITY HOSPITAL IN ROMANIA

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Background: The selection and spreading of multidrug-resistant bacterial strains to antibiotics represents a current problem for the medical world due to irrational use of antimicrobial substances. An important resistance mechanism at β -lactamic antibiotics was developed by ESBL-bacterial strains (extended spectrum β -lactamases bacterial strains), usually involved in nosocomial infections.

Patients and methods: The purpose of the clinical trial consisted in assessing the extended spectrum β - lactamases bacterial strains within Enterobacteria isolated from various samples taken from patients who were hospitalized in the Emergency County Hospital in Brasov and also the distribution on the hospital wards.

Results: The most often encountered germs were from the Enterobacteriaceae family (58.42%). The main species found was Escherichia coli (70.52%), followed by Enterobacter spp. (10.87%), Klebsiella spp. (10.11%), Proteus spp. (7.54%), Serratia spp. (0.65%), Citrobacter spp. (0.24%) and Morganella spp. (0.07%). The biggest frequency of positive ESBL-bacterial strains was obtained in the case of E. coli (52.45%), followed by Klebsiella spp. (23.77%), Enterobacter spp. (19.12%) and Proteus spp. (4.66%).

Conclusions: This study reveals monitoring necessity of multidrug-resistance to antibiotics in hospitals were this phenomenon is increasing and frightening.