THE REVIEW AND CLASSIFICATION OF THE MOST COMMONLY USED SURGICAL SUTURES

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Background
Surgical sutures are classified as general and implantable medical devices and represent the thread of natural or synthetic material used for ligating blood vessels or stitching of tissue.

Purpose
Despite the fact that the market has different types of sutures, and because they can be changed one to another, depending on the current availability, it was necessary to facilitate the planning of acquisition and distribution by making an overview of all manufacturers who are registered.

Material and methods
The secondary, qualitative and quantitative analysis of procurement documentation available in 2016 and 2017, the analysis of demands of clinics in terms of delivery schedule, types and quantities of surgical sutures.

Results
The main representatives from the group of polyfilament rapidly resorbable are Polyglycolic acid and Poliglactin 910; polyfilament medium resorbable is Lactomer; Polydioxanone, Poly-4-hydroxybutyrate and Polyglyconate belong to a group of slowly resorbable monofilament threads. Non-resorbable monofilament made of polyester are also an essential part of the surgical suture material. Natural suture materials are rarely used. It was analyzed the thickness of suture, the type, length and curvature of the needles, all brand names that are on the market, as well as the color of the outer packaging. All results were shown in the table that was forwarded to all operating rooms in both of clinical centers.

Conclusion
In the institutions of secondary and tertiary health care, pharmacists actively participate in both the procurement and distribution of medicines and medical devices. These activities greatly facilitate the daily work of hospital pharmacy as well as of the end users, i.e. the entire medical staff in clinics and operating rooms.

References and/or Acknowledgements

Keywords
Sutures, monofilament, polyfilament, resorbable