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What is a best choice of mesh in abdominal closure and repair?

Saman Mohammadipour

Faculty of Islamic Azad University, Iran

Surgeons who perform laparotomy have several options for closing the abdominal closure. The materials used and the sizes of potential types of stitches vary widely. Challenges about the best suturing techniques and suture and mesh material materials to completely close the wound created by the wound, to minimize the risk of short-term and long-term complications.

The need to repair large defects of the abdominal wall can be secondary to Trauma, infection, gangrene, or tumors of the abdominal wall. If natural tissue cannot be used to cover the wall defect, it is necessary to use artificial prostheses (mesh) material to cover the vital organs and abdominal repair.

A mesh is a barrier made of connected strands of metal, fiber, or other materials. It is like a web or a net. Today, A variety of mesh is used to cover Abdominal wall defects as a fascia reinforcement. Important complications of the use of synthetic meshes are infection, seroma, erosion and etc. Biological meshes They can be used on infected tissue without becoming infected the choice of mesh is especially important according to the type of operation and the patient's condition. this article reviews the case of 56 years old woman with history of laparotomy and abdominal wall reconstruction with Polypropylene mesh. after while the mesh eroded the skin and she suffered of discharge and body misshape. After one year she reopened and after several enterolysis , we repaired a abdomen with a dual mesh . In dual meshes, in addition to proline mesh, there is an anti-adhesion layer that we could put it on bowel and repairs a large abdominal wall which we could not close the fascia. We believe that mesh selection is one of important issue which all surgeon must aware about that and will right decision will improve patient activity and best wound healing.

samanmp@yahoo.com