

Closed-Circuit Flow Obturator for Laparoscopy Port

Published date: Feb. 1, 2012

Technology description

Summary

Available for licensing, manufacturing and commercial development is a laparoscopic surgical device. This device is an obturator with a cylindrical shape (diameter about 11mm, length about 4.5 inches) with hollow inflow and outflow channels running through the obturator to allow for the transfer of fluids or gas into the interior of the laparoscopic working space in a closed-circuit fashion. At the top and bottom ends of the obturator, flexible hollow tubings are coupled to the end holes of the obturators hollow channels. In working position, the obturator traverses the inner space of the previously placed laparoscopic port, with the outside diameter of the obturator creating an airtight seal with the port's diaphragm seal. The flexible tubings that continue from the bottom/intracorporeal end of the obturator would rest inside the operative working space, for connection to any number of end-pieces that would complete the intracorporeal closed-circuit flow path. Applications of this device include transmission of chemotherapeutics, thermoregulated fluids for organ cooling/warming, and possibly even gas media. This obturator can also be designed to include a working channel among its hollow channels, so that a 5 mm laparoscopic instrument can be used through the obturator, at the same time as it is transmitting fluids or gas through its other channels.

Institution

[NIH - National Institutes of Health](#)

联系我们



叶先生

电话 : 021-65679356

手机 : 13414935137

邮箱 : yeyingsheng@zf-ym.com