

PI9: LAPAROSCOPIC DUODENAL ATRESIA: INTRAOPERATIVE VIDEOS ON YOUTUBE — TARGET AUDIENCE?

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Background In recent years YouTube has played an increased role in providing the public details of information about diseases and their treatments. As a result of this intraoperative videos can also be found on the platform. The aim of this study was to analyze the kind of existing videos regarding laparoscopic duodenal atresia with regards to demographics in reporting, language of audio comments, distribution and duration.

Materials and methods A search on YouTube was performed using the key words "Laparoscopic duodenal atresia". The inclusion criteria consisted of any operative videos over the last ten (10) years. The data was collected with regards to the number of videos addressing the desired topic, origin of the video, language of the audio comments, published year, views, format and duration. Exclusion criteria consisted of all the outdated videos, as well as 3D animations or nonrelated search results. All the videos were viewed and evaluated by a clinician.

Results The YouTube search identified 693 videos and video-playlists. From of which only 13 videos were directly topic related to the disease duodenal atresia. Only 8 of these videos dealt solely with laparoscopic duodenal atresia. Since one of them was a simulation, a total of 7 intraoperative videos could be identified that met the previously set inclusion criteria. With 2 videos each, the origin was Chile and USA, furthermore 1-Mexico, 1-Israel and 1-Columbia. The videos were published from 2011-2016 with maximum uploads in 2013. With regards to the language: 2-English and 5-no audio/background music. 1 video was had Spanish subtitles. All 7 videos were in a normal format, none in HD. The number of views ranged from 126 -10,366 with a mean of 3,449 views. The duration of videos was between 01:00 and 15:27 minutes with a mean duration of 5:59 minutes.

Conclusions YouTube searches are the most accessible method to search intraoperative information on surgical procedures. Nevertheless the vast amounts of results are often imprecise and unrelated to the desired topic as shown above. The small number of videos dealing with intraoperative laparoscopic duodenal atresia repair had experts as their target audience rather than the general public who are unfamiliar with the topic. A complete intraoperative video providing explanation for the family of the affected child could not be found.

Key words laparoscopic duodenal atresia, laparoscopy, duodenal atresia, intraoperative video, YouTube, search engines, surgical procedures