THE DEVELOPMENT AND IMPLEMENTATION OF AN ONLINE VIDEO LIBRARY IN THE SURGICAL TRAINING IN MIS HERNIA REPAIRS

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• Introduction: Safe and efficient performance of MIS surgical hernia repairs requires familiarity with various clinical cases.

• Methods: In 2019, a new online library was created containing videos from various stages of laparoscopic inguinal and ventral hernias. The videos are divided into thematic categories. The video collection includes both films presenting new operational techniques as well as lectures. The library includes both full videos without editing and only selected parts of the procedure that are the essence of hernia repair.

• Results: Materials posted on the internet are used in training surgeons, which is conducted live. Surgeons need to familiarize themselves with the video before the workshop, and then after the workshop a recording of the operations in which they participated is posted on the channel with additional feedback. In this work, we discuss the impact of the library channel on the effectiveness of training.

• Conclusion: Surgical training in MIS requires viewing as many valuable and verified video materials as possible. Adding to a live surgery training the tutorial included in the online video library allows one to improve the results of the training.

STEP 1 PRE-WORKSHOP ONLINE COURSE

11 VIDEOS

INTRODUCTION
ANATOMY
FUNDAMENTALS



STEP 2 HANDS-ON LIVE COURSE

2 DAY COURSE

- FULL DAY IN OPERATING ROOM
- HANDS-ON DURING ALL LIVE SURGERIES
- ADDITIONAL LECTURES BETWEEN SURGERIES
- ALL SURGERIES RECORDED AND ANALYZED AFTERWARDS
- EACH SURGEON PERFORMS CRUCIAL ASPECTS OF SURGERIES
- APPLICATION OF DIFFERENT MESH MATERIALS
- USE OF SUPPLEMENTAL TECHNIQUES (SUTURING, GLUE, TACKS ETC)

STEP 2 POST-WORKSHOP ONLINE COURSE

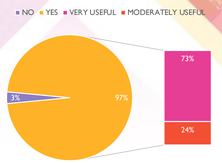
11 VIDEOS

COMPLICAIONS
RARE CASES
OTHER TECHNIQUES

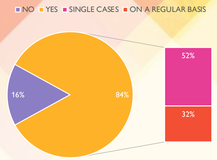


FEEDBACK FROM PARTICIPANTS (n=68)

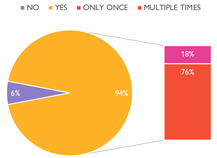
- ARE THE VIDEOS USEFUL AS A SUPPLEMENT TO A WORKSHOP ?



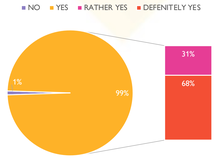
- HAVE YOU STARTED TO PERFORM TAPP AFTER A WORKSHOP ?



- HAVE YOU WATCHED VIDEOS ONCE AGAIN AFTER A WORKSHOP ?



- WOULD YOU RECOMMEND A LIBRARY FOR OTHER SURGEONS ?



ONLINE VIDEO LIBRARY

- 52 EDUCATIONAL VIDEOS
- ALL VIDEOS ARE AVAILABLE ON YOUTUBE CHANNEL: HERNIACADEMIA (LINK BELOW)
- CAPTIONS AND COMMENTS ARE PREPARED IN ENGLISH AND POLISH LANGUAGE
- ALL SUBSCRIBERS ARE NOTIFIED OF NEW VIDEO RELEASES
- EACH VIDEO IS POSITIONED WITH ADEQUATE KEYWORDS
- VIDEOS ARE DIVIDED INTO PLAYLISTS TO ALLOW EASY ACCESS TO MONOTHEMATIC METERIALS
- VIDEOS ARE PREPARED IN BRIEF TIMEFRAME TO ALLOW QUICK VIEWING
- ALL VIDEOS ARE UPLOADED IN HIGH DEFINITION STANDARD
- CHANNEL STATISTICS ARE PRESENTED IN GRAPHS

ADDITIONAL FEATURES & CHARACTERISTICS

- NUMBER OF YT CHANNEL SUBSCRIBERS
  - 1,380
- NUMBER OF VIEWERS' VISITS ON TH CHANNEL
  - 82,438
- VIEWING TIME (HOURS)
  - 5,802
- AVERAGE VIEWING TIME OF A SINGLE VIDEO
  - 65% FOR VIDEOS OVER 15 MIN DURATION
  - 73% FOR VIDEOS BELOW 15 MIN DURATION
- AVERAGE VIEWER'S AGE
  - 35 YRS
- NUMBER OF VIEWERS' COUNTRIES OF ORIGIN
  - 26
- SOURCE OF VIEWERS' VISITS
  - 45.6% BY YOUTUBE SEARCH
  - 20.9% BY EXTERNAL LINKS
  - 18.7% AS SUGGESTED VIDEOS

YouTube

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