
Release notes (2021-08-30)

NEW MAJOR VERSION: LAPSIM 2021.1

Major Features

- New Colorectal Module is now available, including the first critical step of a right-side hemicolectomy procedure: the division of the ileocolic vessels. Comes with new active third-hand grasper management, allowing for dissection under tension/counter-tension.
- Instrumentation has been reworked with improved visual appearance, as well as lighting and shading.

Software updates

- The box environment in Task Training has a new design and is now the same in all of these exercises.
- When entering the result view after concluding an exercise the mouse cursor is now located on the blue "start again" button rather than in the corner of the GUI to make the restart easier.
- Added instruction video for Hysterectomy/Ligaments & Uterine Vessels.
- Added instruction video for Hysterectomy/Colpotomy.
- Added multiple collisions on hook.
- Updated the Cloud API to version 3.5.8.
- Ligasure sound when coagulating now depend on the rate of coagulation in grasped tissue rather than just a fixed time.
- New outline of demo course with better overview, where exercises categorized into modules.
- A major bug fix is an improvement in the collisions in the cholecystectomy, which means that the risk of the detached gallbladder slipping under the liver and disappearing is now minimized.
- New instrument: Curved Ultrasonic – available in exercises, Fine Dissection, Division of Ileocolic Vessels, Cholecystectomy Complete, Opening the Cuff TE, Uterine Vessels TE, Kidney Combined, and Kidney Dissection
- New 30mm stapler model in Appendectomy Procedure Module.

Bugfixes

- Some result parameters were not updated when premature exit occurred in Basic Skills exercises.
- Fixed grasping issues with the dissector in Fine Dissection in Basic Skills.
- State logic sometimes thought that the appendix was attached even though it appeared detached in Appendectomy exercises.
- Clips could hover in the air after cutting clipped vessels in Basic Skills/Seal and Cut.
- The needle was sometimes separated from its thread in Basic Skills/Suturing.
- Excessive number of messages regarding conflicting processes in Trainee GUI when starting a new instance directly after closing one.
- Upgrading a database didn't report the correct status when upgrade failed.
- Message box dialogs in Instructor/Trainee GUI couldn't handle long messages.
- Unable to get more than 1 correct vessel division in VATS R Sup.
- Premature exit did not always work in Appendectomy.
- Hysterectomy Open the Cuff is not properly pre-dissected / target area partially not visible at start-up.
- Crashes occurred in Wire Loop.
- Impossible to burn off the small vessels (or any vessels for that matter) in Basic Skills/Fine Dissection.
- Video settings were not saved due to video settings not being synced between Trainee and Instructor.
- Sometimes there was no blood when burning off the big vessels in Basic Skills/Fine Dissection.
- Misspelled title of instruction video for Salpingostomy.

- Missing result parameters in VATS L sup & R sup.
- Skinning bug in Basic Skills/Seal and Cut.
- Skinning bug in Basic Skills/Lifting and Grasping.
- Improved message of pop up about conflicting processes.
- Error message popped up when taking a screenshot.
- Missing result params in Opening the Cuff.
- Crash when syncing from Instructor GUI.
- User kicked out + error message when attempting to edit a custom course via the Instructor GUI.
- Unable to use alternative port positions in Open the Cuff.
- Excessive "fog" displayed when using energy instruments in Cholecystectomy, clouding the field of vision.
- Difficult to place clips in Cholecystectomy.
- Blue button in exercise overview covered exercise title in Trainee GUI some resolutions.
- Fixed scrolling issue of page header of the instruction page in the Trainee GUI.
- Clicking on a course in the left side menu of the Trainee GUI displays exercises contained in that course while leaving any previously expanded course open.
- Resected gallbladder can disappear into liver.
- Hard to distinguish vessels from surrounding tissue in Hysterectomy.
- Problems with remote server connection.
- Appendectomy/Free Approach crashes when exiting the exercise after completion.
- Crash at the end of the exercise in Hysterectomy/Uterine Vessels.
- Incorrect subtitles in VATS L Sup instruction video.
- An instrument can disappear when switching the other instrument to a clip applier in Basic Skills/Seal and Cut.
- Suction tool caused drop-in frame rate in Basic Skills/Clip Applying.
- Misspelling in subtitles and instruction page for Hernia.
- Bleeding when using burn tool in dissection area in Hysterectomy/Open the Cuff.
- Progress bar now properly displayed when creating a new database.
- A course is now only displayed in the GUI if the installation was completed without error.