

GRAIL– Handling emergency situations

This worksheet provides the operating procedures for handling emergency situations during a GRAIL session. For more information or if you have any questions please contact Motek Medical clinical application support at clinical.applications@motekforcelink.com or call +31 (0)20 301 30 20.

Suspend circuit

Suspend button pressed

1. Use the suspend button in case the system needs to be stopped, but the operator is not able to do this quick enough via D-Flow.
2. System reaction to a suspend stop:
 - D-Flow: application is stopped and suspension state blocks further hardware control until suspension state is cleared.
 - Pitch and Sway: immediate stop, system goes to neutral.
 - Treadmill: quick, but controlled stop.

Light gate tripped

1. The light gate will be tripped if a subject falls from the rear of the treadmill. This will prevent further harm to the subject .
2. System reaction to a light gate tripped stop:
 - D-Flow: application is stopped and suspension state blocks further hardware control until suspension state is cleared.
 - Pitch and Sway: immediate stop, system goes to neutral.
 - Treadmill: immediate stop.

Recovering from suspension state

1. Make sure the subject is safe and ready to continue or has left the treadmill. Remove all loose parts from the operator area if necessary.
2. If the suspend button was pressed, press it again to release. A light gate interruption does not require this step.
3. Clear the suspension state (Hardware | Clear Suspension State). The message of the suspension state disappear in the right upper corner.

Emergency stop circuit

Emergency stop

1. For a GRAIL are two emergency stop buttons, one on the MIC and one at the operator panel.
2. For safety reasons only use a emergency stop when serious injuries or hardware damage is expected.
3. System reaction to a emergency stop:
 - D-Flow: application is stopped and suspension state blocks further hardware control until both the emergency stop and the suspension state are cleared.
 - Pitch and Sway: Immediate stop, system ‘freezes’ in the current position and does not go to neutral.
 - Treadmill: immediate stop.

Recovering from a emergency stop

1. Make sure the subject is safe and is standing outside the system’s operating area. Check the system for damage and remove all loose parts from the operator area if necessary.
2. Rotate the emergency button in the direction of the arrows until it lifts up again and press the reset button to clear the hardware from the emergency stop.
3. Clear the suspension state (Hardware | Clear Suspension State). The message of the suspension state disappear in the right upper corner.

Note: Do not clear an emergency stop before all users are brought to safety and are standing well outside the operating area.