6. The body fluid drainage device of claim 5, wherein the processing module is configured to stop fluid flow between the body cavity and the fluid containment device using the flow rate actuator, or using channel switching module or both.

7. The body fluid drainage device of claims 5 or 6, wherein the determination of whether a fluid volume in the fluid containment device matches the pre-determined fluid volume is based on a maximum volume of the fluid containment device.

8. The body fluid drainage device of claims 5 or 6, wherein the determination of whether a fluid volume in the fluid containment device matches the pre-determined fluid volume is based on the rate of fluid flow controlled by the flow rate actuator.

9. The body fluid drainage device of claim 8, wherein the rate of fluid flow controlled by the flow rate actuator is correlated to an advancement distance of the fluid flow in the fluid containment device.

10. The body fluid drainage device of any one of the preceding claims, wherein the channel switching module is capable of switching between at least two channels;

further wherein in a first operation state, the processing module is configured to instruct the channel switching module to switch to a first channel to allow fluid communication from the body cavity to the fluid containment device through the first channel; and

in a second operation state, the processing module is configured to instruct the channel switching module to switch to a second channel to allow fluid communication from the fluid containment device through the second channel.

11. The body fluid drainage device of claim 10, wherein in the second operation state, the processing module is configured to actuate expelling of fluid from the fluid containment device with an actuation of the flow rate actuator.

12. The body fluid drainage device of any one of the preceding claims, wherein the processing module is configured to determine whether a pre-

determined total volume of fluid drainage has been achieved, said determination based on determining a number of times the pre-determined fluid volume in the fluid containment device is obtained.

13. The body fluid drainage device of claim 12, wherein the said determination is further based on a number of switches of the channel switching module to allow fluid flow from the fluid containment device.

14. The body fluid drainage device of claims 12 or 13, further comprising an input module, the input module being configured to allow input to the processing module of the pre-determined total volume of fluid drainage and input to the processing module of the rate of fluid flow into the fluid containment device.

15. The body fluid drainage device of any one of the preceding claims, wherein the fluid containment device comprises a syringe.

16. The body fluid drainage device of any one of the preceding claims, further comprising a storage component, the storage component being coupled to the channel switching module for receiving fluid flow from the fluid containment device.

17. The body fluid drainage device of any one of the preceding claims, further comprising a pressure sensor coupled to the channel switching module for measuring a pressure in the body cavity.

18. The body fluid drainage device of any one of the preceding claims, further comprising one or more force sensors coupled to the fluid containment device for measuring a pressure in the body cavity.

19. The body fluid drainage device of claims 17 or 18, wherein the processing module is further configured to control the fluid flow between the body cavity and the fluid containment device based on the measured pressure.

20. The body fluid drainage device of any one of the preceding claims, wherein the flow rate actuator comprises a force transmittal member coupled to the fluid containment device and coupled to the processing module; wherein the processing module is configured to control the fluid flow into the fluid

containment device and expelled from the fluid containment device via a displacement of the force transmittal member.