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(54) **LIFE SUPPORT SIMULATION SYSTEM  
SIMULATING HUMAN PHYSIOLOGICAL  
PARAMETERS**

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(57) **ABSTRACT**

Method and apparatuses for simulating life support procedures in real-time using a mannequin. The apparatuses and methods are operable for a number of therapeutic interventions and provide for a number of appropriate simulated physiological and pharmacological responses. Included interventions are chest displacement, the application of gas pressure to the upper airway, inspiratory gas composition, administration of a fluid, or administration of intravenous drugs. These interventions provide a variety of appropriate responses (and misapplication of an intervention by a trainee provides a corresponding appropriate response).

**15 Claims, 5 Drawing Sheets**