The first response is an intense vasoconstriction of the pulmonary vasculature, causing severe hypoxia, respiratory acidosis, and right heart failure. Little concrete evidence supports this initial event, as pulmonary artery catheters may not be inserted in this early phase. Animal studies have demonstrated this model of intense vasoconstriction and hypoxia.

- The second phase is believed to consist of left heart failure and hemodynamic collapse with pulmonary edema.

- The third phase in the continuum of events is neurologic dysfunction, including seizures and coma. There may be overlapping coagulopathy and DIC.

