

Figure 1. Causal loop diagram of unplanned extubation.

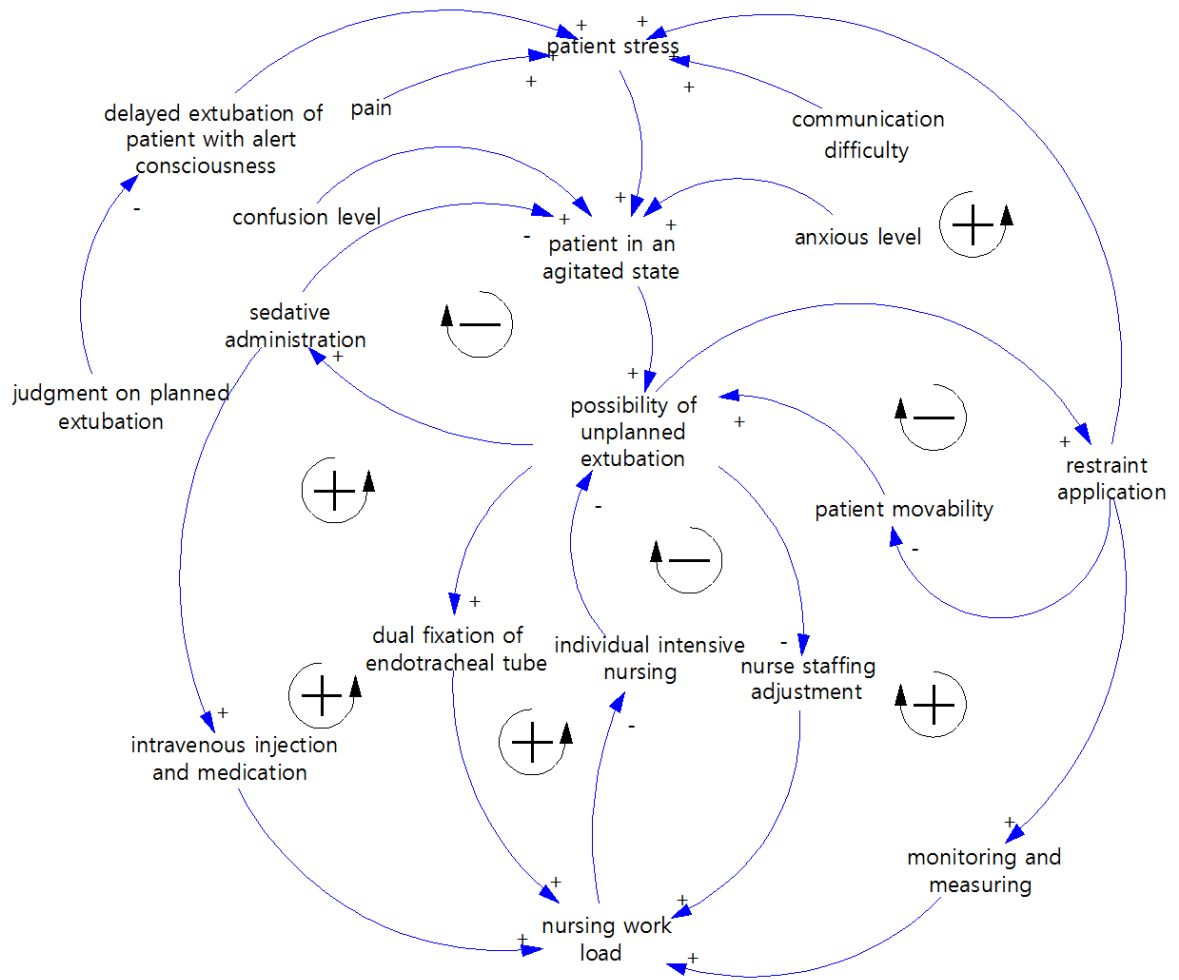


Figure 2. Stock & flow diagram of unplanned extubation.

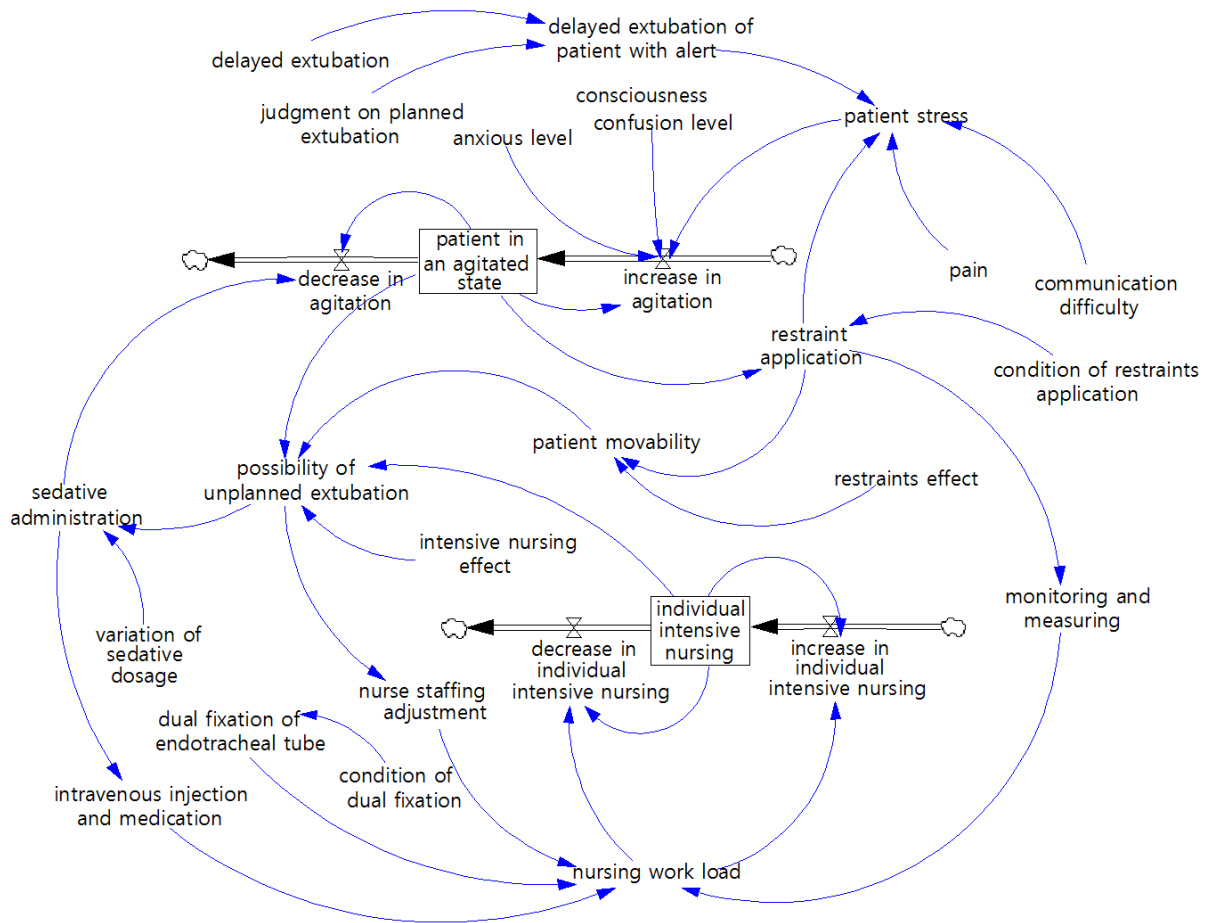


Table 1. Characteristics of Case Patients

Characteristics	Case1	Case2	Case3	Case4	Case5
Gender	M	M	M	F	F
Age(year)	52	52	59	60	43
Intubation period (days)	12	11	7	12	6
Experience of self-extubation	No	No	Yes	Yes	No
Mental status	Alert	Confused	Alert ~Drowsy	Alert ~Drowsy	Confused
Reintubation (within 24hrs)	No	No	No	No	No

Figure 3. Results of the simulation

Basic model

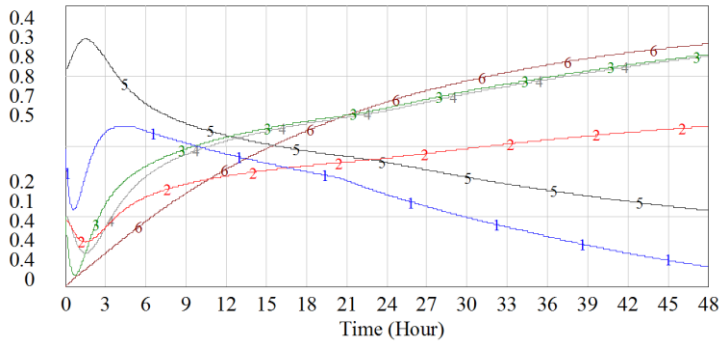


Figure 4-A. Basic model.

Case 1

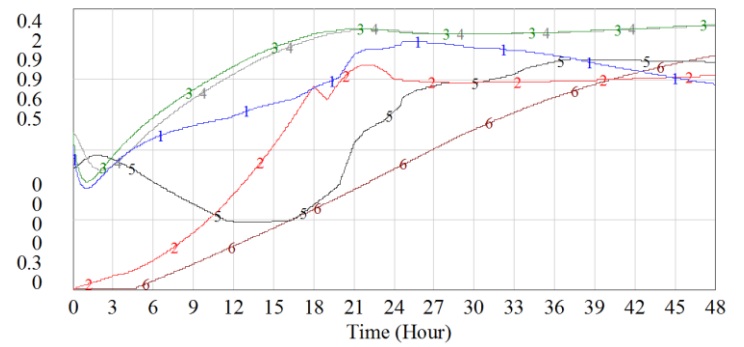


Figure 4-B. Case 1.

Case 2

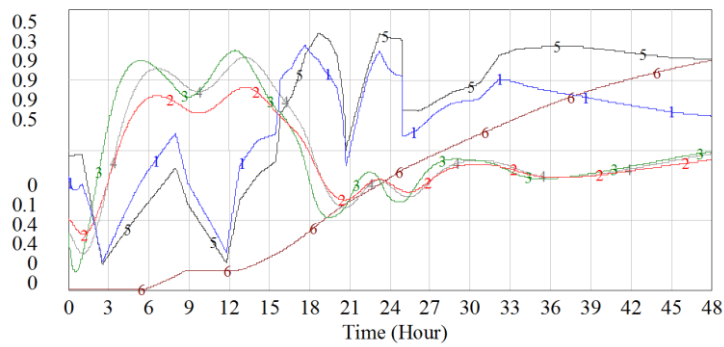


Figure 4-C Case 2.

Case 3

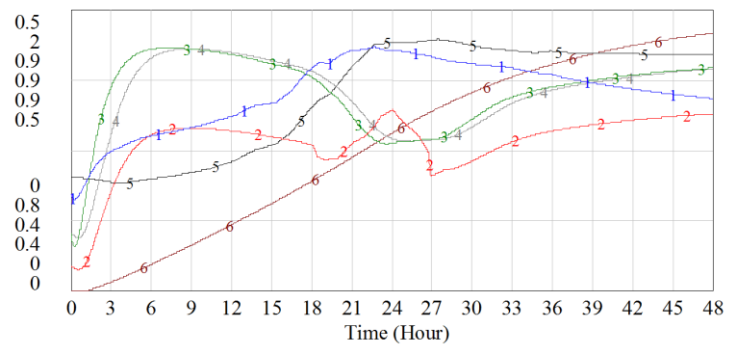


Figure 4-D. Case 3.

Case 4

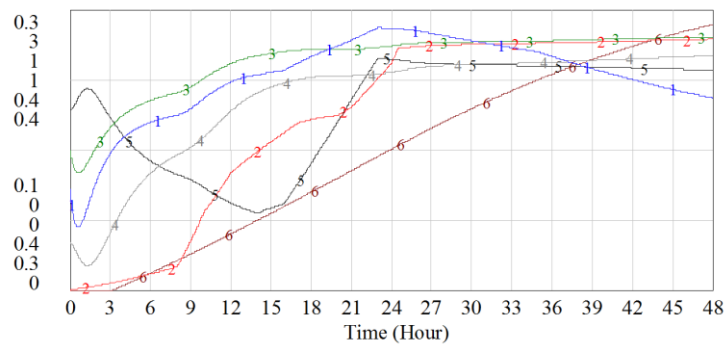


Figure 4-E. Case 4.

Case 5

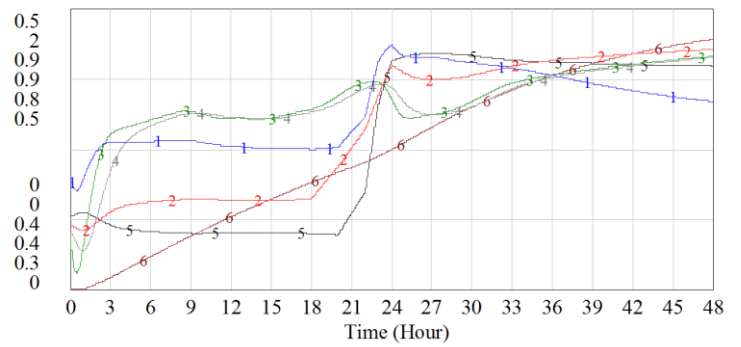


Figure 4-F. Case 5.

- line 1: possibility of unplanned extubation
- line 2: patient stress
- line 3: patient in an agitated state
- line 4; restraint application
- line 5: patient movability
- line 6: individual intensive nursing

Figure 4. Sensitivity analysis on TIME STEP.

