

Simulation design matters

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Propositions

Simulation Design Matters Improving Obstetrics Training Outcomes

Brena Carvalho Pinto de Melo

- 1** Instructional design guidelines with a basis in sound cognitive psychological theories of how people learn promote complex learning, that is, the acquisition and integration of knowledge, skills and attitudes. (This thesis)
- 2** Worldwide, current healthcare simulation training practices still adhere poorly to instructional design guidelines. (This thesis)
- 3** Effective simulation training should promote learning, transfer of learning and have an impact on patient outcomes. (This thesis)
- 4** Instructional design based postpartum hemorrhage simulation training leads to better learning, long-term transfer of learning and a positive impact on patient outcomes. (This thesis)
- 5** A recent rising trend in postpartum hemorrhage rates in high-income countries has led to further reflection on the quality of maternal healthcare assistance worldwide.
- 6** Improving maternal education leads to better offspring outcomes such as: neurocognitive development, vaccination rates, nutrition and academic outcomes.
- 7** Non-medically indicated cesarean section rates have increased worldwide without significant maternal or perinatal benefits. They represent a current challenge on the education planning of maternal healthcare professionals.
- 8** Maternal deaths are associated to management failures, such as communication and teamwork malfunction and can be widely prevented by better training. (Valorisation)
- 9** In 1637, a careful selection of forty-six Dutch scholars (poets, natural scientists and artists) arrived in Recife, Brazil. The paintings of Frans Post and Albert Eckhout are the earliest and most detailed scientific registrations of Brazilian's XVII century landscape, ethnography and fauna and flora. They represent an early influence from the Dutch in the Brazilian scientific community.