

## CAE Healthcare unveils CAE Fidelis Maternal Fetal Simulator at world's largest healthcare simulation conference

**San Francisco, California, U.S.A., January 24, 2014** — CAE Healthcare announced today that it will unveil the CAE Fidelis™ Maternal Fetal Simulator at the International Meeting on Simulation in Healthcare (IMSH), the world's largest annual conference dedicated to healthcare simulation. Based on widely accepted and validated models of maternal-fetal physiology, the childbirth simulator will offer human-like vital signs and responses for practice of obstetrical emergencies and labor and delivery scenarios.

"We developed the CAE Fidelis Maternal Fetal Simulator to provide the most realistic and versatile childbirth simulator on the market today, one that can help healthcare instructors improve training and patient outcomes," said Michael Bernstein, President of CAE Healthcare. "The healthcare market is seeking advanced tools for inter-professional training that can prepare teams to respond to emergencies requiring rapid response, technical skills, teamwork and communication. This simulator is built on a revolutionary hardware and software platform that will be stable and reliable through thousands of childbirth simulations."

The CAE Fidelis Maternal Fetal Simulator is a medical robot with pupils that dilate or constrict, measurable vital signs, a blood reservoir to simulate post-partum hemorrhage, and a birthing process that delivers a fetus through the birthing canal. The mother has palpable soft skin that simulates uterine contractions as well as leg and hip articulation for practice of childbirth positioning and maneuvers. The fetal vital signs, which are integrated with the mother's, respond to labor and delivery treatments and maneuvers, and produce APGAR scores at one minute and five minutes after birth. The simulator detects and records birth positioning and treatments for post-simulation review.

Developed by CAE Healthcare in partnership with leading maternal-fetal clinical educators in the United States and biomedical engineers at Instituto de Engenharia Biomédica (INEB) at the University of Porto in Portugal, the CAE Fidelis Maternal Fetal Simulator has drawn significant interest among medical schools across all disciplines.

According to Dr. Diogo Ayres de Campos, a perinatal obstetrician and professor of Medicine at the University of Porto, who is also a lead developer of the simulator's physiological models, the simulator will allow practice of rare or acute scenarios in which it is difficult for clinicians or teams to gain experience. "There have been enormous improvements in perinatal care affecting both maternal and perinatal mortality over the last 100 years. But to achieve further reductions in these indicators, one needs to address the very rare complications, not only in terms of diagnosis but also in anticipation and appropriate treatment. Simulation is the only way of achieving and maintaining competence in the management of such rare situations," said Dr. Ayres de Campos.

Complications of childbirth range from breech presentation to fetal distress, and they can impact long-term health of both mother and baby. A U.S. recent government study reported a 75 percent increase in serious maternal complications, such as heart attack or stroke during or after childbirth, in the United States between 1998 and 2009. ([http://journals.lww.com/greenjournal/Fulltext/2012/11000/Severe\\_Maternal\\_Morbidity\\_Among\\_D](http://journals.lww.com/greenjournal/Fulltext/2012/11000/Severe_Maternal_Morbidity_Among_D)

[elivery\\_and.8.aspx](#)) The Fidelis Maternal Fetal Simulator is designed to allow healthcare teams to practice both normal deliveries and rare emergencies and complications.

To learn more about the CAE Fidelis Maternal Fetal Simulator, visit [www.caehealthcare.com](http://www.caehealthcare.com). High resolution photos of the simulator are available in our photo gallery at [www.cae.com/photos](http://www.cae.com/photos).

### **About CAE Healthcare**

CAE Healthcare offers cutting-edge learning tools to healthcare students and professionals, allowing them to develop practical experience through risk-free simulation training before treating real patients. CAE Healthcare's full spectrum of simulation solutions includes surgical and imaging simulation, curriculum, the LearningSpace audiovisual and center management platform and highly realistic adult, pediatric and baby patient simulators. Today, approximately 8,000 CAE Healthcare simulators are in use worldwide by medical schools, nursing schools, hospitals, defense forces and other entities. [www.caehealthcare.com](http://www.caehealthcare.com)

### **About CAE**

CAE (NYSE: CAE; TSX: CAE) is a global leader in modeling, simulation and training for civil aviation and defense. The company employs approximately 8,000 people at more than 100 sites and training locations in approximately 30 countries. CAE offers civil aviation, military, and helicopter training services in more than 50 locations worldwide and trains approximately 100,000 crewmembers yearly. In addition, the CAE Oxford Aviation Academy offers training to aspiring pilot cadets in 10 CAE-operated flight schools. CAE's business is diversified, ranging from the sale of simulation products to providing comprehensive services such as training and aviation services, integrated enterprise solutions, in-service support and crew sourcing. The company applies simulation expertise and operational experience to help customers enhance safety, improve efficiency, maintain readiness and solve challenging problems. CAE is leveraging its simulation capabilities in new markets such as healthcare and mining. [www.cae.com](http://www.cae.com)

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**High resolution photos of the CAE Fidelis Maternal Fetal Simulator are available in our photo gallery at [www.cae.com/photos](http://www.cae.com/photos).**

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