

Medical Simulation Corporation

Simantics— Defining the language of simulation

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Letter from the Editor

Hello and welcome to the inaugural issue of *Simantics—Defining the language of simulation*, a quarterly newsletter produced by Medical Simulation Corporation (MSC) in order to provide you with current information about our SimSuite Centers and to highlight new developments and courseware offerings.

MSC is an education service company that provides medical product and clinical procedure training as well as education services to hospital personnel including physicians, nurses, technicians, clinical specialists, sales representatives, and medical societies.

If you have any questions or story ideas, please send them to Myrna Schnur via e-mail at mschnur@medsimulation.com.

Happy New Year!

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Leadership in Innovation

Robert E. Chason, chief executive officer for UC Davis Medical Center, oversees the 530-bed, acute-care hospital and its affiliated outpatient centers, including a primary care network of physician practices in 10 Northern California communities. Under Chason's leadership, UC Davis Health system has earned recognition for its strong financial performance and proactive approach to the challenges faced by academic medical centers across the nation. Chason oversaw an expansion of UC Davis' top-ranked telemedicine program and helped establish a unique Center for Health and Technology. In addition, under his leadership, the medical center has established a unique Center for Virtual Care where sophisticated simulators and surgical robotics are used to enhance the training of health care professionals and the delivery of medical services. The SimSuite Center at UC Davis Medical Center opened in August of 2003.

Mr. Chason graciously agreed to an interview with 'Health Journal Television' to speak about Medical Simulation Corporation and the SimSuite System at his institution.

Q: How does the presence of this technology (MSC SimSuite) and service impact patient care at UC Davis Medical Center?

A: I have a very particular concern about that, and as I grow older, I have become concerned about who might be doing certain procedures on me. If I were to come to a facility like this, I would want to know that somebody had done the procedure a number of times. There are some low volume areas where physicians do not have enough opportunity to actually do these procedures on individuals, so for them to be able to do them on a simulator gives them more of a cutting edge when they are actually in the operating room. In



From L to R: Bill Younkes, CEO, MSC; Hank Kucheman, President, Interventional Cardiology, Boston Scientific Corporation; Matt Lauer; and Dr. Mark Turco, Interventional Cardiologist, Adventist Hospital.

As Seen on the 'Today' Show

On November 30, 2005, MSC's mobile simulator was featured on the 'Today' show in conjunction with Boston Scientific Corporation. Dr. Mark Turco assisted host Matt Lauer in performing balloon angioplasty and stent placement in the circumflex artery of Simantha®, a simulated patient with significant coronary disease.

carotid T²[™] : What's All the Excitement?



“Carotid Team Training is an integral part of success for a carotid stent program.”

In October 2005, MSC announced the introduction of its SimSuite Carotid Team Training, to simulate AND accelerate[™] knowledge to the full spectrum of carotid care providers.

The SimSuite carotid T² program is designed to address the needs of the entire carotid team—the procedural team and the pre/post-procedural patient care team. The one-day Interventional Lab Staff Course provides quality training for interventional lab staff that support carotid artery stenting (CAS). The one-day “Train-the-Trainer” Course offers a unique platform that will enable a hospital to establish a skills-competency program for every team member who provides patient care for the CAS patient. The trainer will attend a customized Interventional Lab Staff Course and will receive a comprehensive set of take-home

materials and Web-based curriculum to support the training of the entire CAS patient care team.

The core material is designed by Dr. Subbarao Myla, Medical Director of Cardiovascular Research and Endovascular Intervention, Hoag Memorial Hospital, and Course Director for the MSC carotid T² program, in conjunction with other leading expert physicians in the arena of carotid artery disease and revascularization. Dr. Myla states, “Carotid Team Training is an integral part of success for a carotid stent program. Regardless of physician experience, superbly trained cath lab nurses and technologists are essential for a safe and state-of-the-art interventional team focused on delivering consistently superior results every time, ensuring successful patient outcomes. A well-trained cath lab staff will

ultimately differentiate themselves as the safe haven for both the expert and novice interventionalist performing carotid stenting.”

The mission of the carotid T² program is to improve and support staff confidence for pre-, intra-, and post-procedure management of patients undergoing a carotid stent placement. The carotid T² program includes simulation training, didactic instruction, live case video review, take-home curriculum, and on-line Web-based training. Carotid T² staff training is available immediately. Carotid T² Train-the-Trainer will be available early 2006. For more information, visit www.medsimulation.com or call 1-888-889-5882.



Robert E. Chason, CEO, University of California Davis Medical Center

Leadership in Innovation (cont'd from page 1)

addition to that, in terms of training new people or training students on this kind of technology, it means they are not going to have to train on human patients the first time. They can come in and get accustomed to the equipment and procedures and go into the operating room with much more confidence than they might have otherwise.

Q: What are the economic advantages to utilizing the SimSuite System?

A: There are a variety of advantages and some of them are economic because the people you are training are already here at

the hospital. We don't have to send them out to get the training. People can come in and do it at their leisure. It works very well for physicians; it works extremely well for students. But more than that, it's the patient safety that I think is the huge benefit here and long term it will pay off in ways that we don't even understand at this point. It really is very useful technology that makes people feel much more at ease in the field when they are faced with these medical situations.

Q: Why did you and your team choose to partner with MSC?

A: We actually took a trip to see this technology at a hospital in Seattle. I was very impressed by the way in which they were using the simulations and the kinds of things they were doing with training at that institution. I really felt that it would serve us well here. In addition to that, I just feel this is a company that is very advanced in the way simulation can be used to help train health care professionals. We've had a good experience with them and we've had a good experience with their employees and we're very comfortable with the relationship.

New AMPLATZER® PFO Simulation Training

On September 20, 2005, AGA Medical Corporation, in conjunction with Medical Simulation Corporation, announced the introduction of a new simulation training tool for the AMPLATZER PFO procedure. AGA Medical Corporation is a Minneapolis-based company that manufactures transcatheter occlusion devices that empower minimally invasive treatments of congenital heart defects. The new training process will provide physicians with the opportunity to perform the PFO procedure utilizing the SimSuite System.

The procedure is a transcatheter approach to achieve closure of a patent foramen ovale (PFO). The

simulation training program includes introducing the AMPLATZER PFO Occluder device via catheter, using echocardiography and fluoroscopy to place and assess the device in the heart, deploying the discs, and removing the cable and sheath from the simulated patient. Based on actual patient scenarios and images, this new tool provides valuable physician experience performing the PFO procedure, without compromising patient safety. Benefits of simulation proctoring include: standardized and consistent training, exposure to difficult cases, less risk to the patient, shortened physician learning curve, standardized guided training of procedural risks, and

potential reduction in complications related to the procedure.

The AMPLATZER PFO simulation training has been integrated into the certification training program for physicians wishing to implant the device under AGA's Humanitarian Device Exemptions (HDE) program. "We are very excited to offer this first-of-its kind, hands-on learning experience in PFO simulation to physicians," said Mike Smithson, Director of US Sales and Marketing. "The new technology that the AMPLATZER PFO procedure simulation offers will help to train medical professionals in a realistic, more comprehensive way with zero risk to patients."



AMPLATZER® PFO Occluder Device

photo © 2005 AGA Medical Corporation

Get Simulated at TCT 2005

MSC was featured prominently at the Transcatheter Cardiovascular Therapeutics (TCT) Conference in Washington, D.C., October 16-21, 2005, with nine on-stage "live case" lunchtime sessions. The simulated cases were performed by esteemed physician faculty and moderated by Drs. Sheldon Goldberg and Dan McCormick. The sessions included an audience response system, giving the panel the ability to survey the attendees as the procedure was being performed. Cases featured Complex Coronary interventions, structural heart disease, and carotid artery stenting. This format for learning has been very well received in that the physicians and

audience members are able to experience complications without risk to an actual patient.

MSC also provided hands-on simulation training to physician attendees within the interactive learning center. Each training session began with a 15-minute didactic lecture from expert physicians on that topic. Assisted by a SimSuite Clinical Educator, participants then had an opportunity to practice the procedure on the simulator. The guest lecturer was available during the simulation sessions to answer questions and provide feedback.

Courses offered included:

- Carotid Artery Stenting complicated by dissection

- Carotid Artery Stenting complicated by acute CVA
- Carotid Artery Stenting with unstable Coronary Artery Disease
- Carotid Artery Stenting with common carotid disease
- Acute Myocardial Infarction
- Complex Coronary Intervention of a Calcified RCA
- Complex Coronary: Atherectomy and Multivessel Disease
- PFO Closure: Tunnel Effect
- PFO Closure: Hypermobile Septum
- Left Atrial Appendage Exclusion



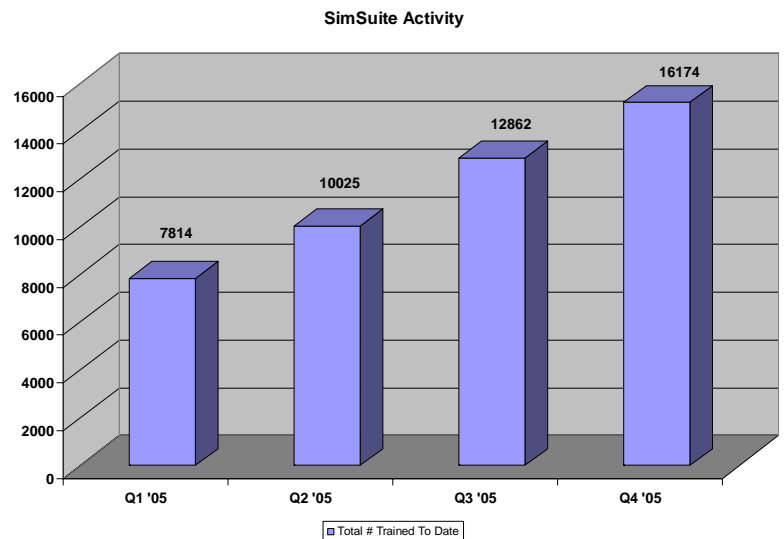
Max Amor, M.D., performing a carotid artery stent procedure assisted by Sammy Peppers, Director of Clinical Education, Medical Simulation Corporation.



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Experience Through Education™

Total Healthcare Providers Trained To Date = 16,174



Employee Spotlight

Jennifer Meyer, SimSuite Clinical Education Specialist
UC Davis Medical Center, Sacramento, CA

Jennifer joined the MSC team over two years ago, bringing with her a strong background as a cardiovascular and radiologic technologist and 17 years of excellence in patient care and technical skills. Jennifer has developed innovative training programs at her site targeting all facets of health care providers including medical students, residents, fellows, nurses, and technologists. Her unique skill set includes experience in electrophysiology, intra-coronary ultrasound, angioplasty, stent placement, rotational atherectomy, permanent and temporary pacemaker insertion and intra-aortic balloon insertion.

Jennifer is an avid basketball fan and never misses a Sacramento Kings game. In her spare

time, Jennifer is the assistant coach of a girl's basketball team and loves to dance. She and her husband, Jim, have a 14-year old daughter, Bridget, who is a freshman in high school. Her husband is a stay-at-home dad, budding novelist, and technical writer. During a recent videotaping at the UC Davis site, Jennifer was often referred to as "the talent."

"I can't say enough good things about Jennifer Meyers. She comes with a wealth of experience. She really knows the way the equipment operates. More than that, I've gotten to the point in which I have enough comfort in watching her do certain procedures that maybe I would like to have her do my procedure if I ever needed one."

—Robert Chason, CEO,
UC Davis Medical Center



Jennifer Meyer, RCIS, CRT
SimSuite Clinical Education Specialist

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