


Ticker symbol

TMD (TSX Venture)

Share price (Oct. 13, 2011)

\$1.50

**Cash and cash equivalents
(June 30, 2011)**

\$13.7 million

Current burn rate (June 30, 2011)

\$1,100,000 - \$1,200,000 per month

Shares outstanding (June 30, 2011)

56,994,527 (59,250,773* FD)

Market value (Oct. 13, 2011)

\$85,491,790 (\$88,876,159* FD)

** Fully diluted includes an additional 3,196,207 options, 5,000,000 warrants (@\$1.85 expiring December 10, 2015) and 5,577,500 warrants (@\$2.00 expiring June 10, 2016) under the Treasury Stock Method.*

**Management ownership
(June 30, 2011)**

18.3%

Recent Operating Highlights

- ü Signed a non-binding memorandum of understanding (MOU) with Children's Hospital Boston for testing and evaluating Amadeus Composer™.
- ü Signed a non-binding MOU with The Ohio State University for testing and evaluating Amadeus™ Next Generation Surgical Robotic Platform.
- ü Signed a six-year development and licensing agreement with LiveData, Inc. Titan will have an exclusive, worldwide license for LiveData RTI Server as an integration technology for Amadeus Composer™.
- ü Appointed Terry W. Grogg, M.D., and Balasubramanian Sivakumar, M.D., to Medical Advisory Board.
- ü Entered into an exclusive patent license agreement with Mayo Foundation for Medical Education and Research for a novel surgical stapler.

Company Profile

Titan Medical Inc. (Titan) is a Canadian public company focused on the development and commercialization of robotic surgical technologies. The Company is currently developing Amadeus Composer™, a surgical system that has a uniquely designed external robot and flexible instruments, and allows surgeons to overcome constraints of surgical procedures in small to medium spaces. Amadeus Maestro™, the Company's next generation 4-armed robotic surgical system with advanced communication and training, utilizes the Titan True Touch Technology and is targeted to surgical procedures in large spaces.

Investment Highlights

- Innovative and potential disruptive technology addressing current shortcomings of incumbent
- Global robotic surgical market size is currently estimated to be approximately \$1 billion and is estimated to grow to \$5 billion by 2015 with potential for placement of 6,000 robotic surgical systems
- Attractive razor/razorblade business model
- Strong IP portfolio with 3 issued U.S. patents on ancillary robotic technology and 6 U.S. core patents in examination process in the areas of instrumentation, hand controller and console interface
- World-class development partnerships and medical advisors
- Seasoned management team and Board of Directors

Amadeus Composer™ Value Proposition
Improved robotic arm flexibility

Snakelike arms enable obstacle avoidance in the body, give multiple approach paths to a surgical target, and free the arms from fulcrum constraints at the body port site. As a result, more surgical procedures can be addressed safely and less invasively.

Communications

Designed to operate on an internet protocol, connecting surgeons and patients over distance, and accelerating treatment and access to experts.

Superior vision system

1080p 3D HD vision will allow surgeons to see anatomy with better resolution than ever before. Key blood vessels or other vital structures will be easily identified, thereby increasing safety.

Force feedback (haptics)

Allows surgeons to feel how hard they are pulling on tissues, sutures, or other structures. Helps to minimize tissue damage and patient recovery time.

Simulation

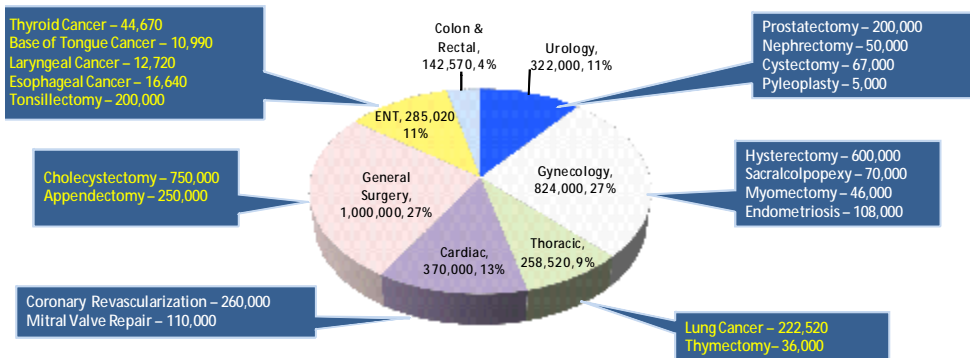
Will ensure quicker and efficient procedure training.

Development Partners

Clinical Test Site Partners


Amadeus Composer™ Market

Over 3.2 million newly diagnosed cases each year



- Over 2.0 million surgeries are performed annually worldwide
 - 278,000 surgeries are currently done robotically
 - Hysterectomy (110,000) and Prostatectomy (98,000) represent 75% of those surgeries
- Titan's Amadeus Composer™ to target ENT, Thoracic and General Surgery
 - Urology & Gynecology procedures to consolidate as well

Source: American Cancer Society

Management Team

Craig Leon, MBA Chief Executive Officer	<ul style="list-style-type: none"> CFO & COO, Redwood Asset Management, 2003-2009 Generex Biotechnology Corp. (GNBT: Nasdaq), 2000-2003 Co-Founder, MiFund.com, 1999-2000
Reiza Rayman, MD, PhD President	<ul style="list-style-type: none"> Clinical research in robotic surgery since 1998 Collaborated in world's first endoscopic robotic coronary artery bypass (1999) North America's first surgical telementoring Obtained \$30M grant for robotic surgery Author and co-author of more than 20 publications on robotic surgery
Stephen D. Randall, CGA Chief Financial Officer	<ul style="list-style-type: none"> Served as an auditor, CFO, corporate controller and accountant for several public and private companies and government organizations Experience in tax planning/compliance, M&A, IT & operations
Joe Talarico, JD VP Business Development	<ul style="list-style-type: none"> Various positions with Intuitive Surgical Inc., including Area Training Director, Clinical Sales Manager, Area Sales Manager and Clinical Sales Representative (2004-2009) Territory Manager for U.S. Surgical Corporation training and selling laparoscopic equipment (2003-2004)
John R. Valvo, MD Vice President of Medical Affairs	<ul style="list-style-type: none"> Chief of Urology and Executive Director of Robotic and Minimally Invasive Surgery at Rochester General Hospital in Rochester, NY Founder of the robotic program at Rochester General Hospital in 2004, which currently ranks in the top four percent of robotic surgeries in the US with over 30 robotic surgeons and over 4,000 robotic surgeries performed Has performed over 600 robotic prostatectomies

Medical Advisors

Douglas Boyd, MD	<ul style="list-style-type: none"> Completed world's first robotic beating heart cardiac bypass surgery Director of Robotics & Professor of cardiothoracic surgery at UC Davis
Bob Kiaii, MD	<ul style="list-style-type: none"> Research activity includes robotic-assisted cardiac surgery, harvesting of arterial conduits for MIS and robotic cardiac surgery
Hiep Thieu Nguyen, MD	<ul style="list-style-type: none"> Associate Professor in Surgery (Urology) at Harvard Medical School and the Director of Robotic Surgery, Research and Training Center at Children's Hospital, Boston
David M. Albala, MD	<ul style="list-style-type: none"> Chief of Urology at Crouse Hospital in Syracuse, New York and Medical Director for Associated Medical Professionals Over 20 years of laparoscopic and robotic urological surgery expertise
Louis Eichel, MD	<ul style="list-style-type: none"> Extensive background in researching the clinical aspects of surgical robotics and surgical simulation Currently practices in Rochester, NY and is a Clinical Assistant Professor of Urology at the University of Rochester
Po N. Lam, MD	<ul style="list-style-type: none"> Specializes in oncologic robotic and laparoscopic surgery in Central New York Has performed over 500 robotic surgeries since 2006
Carlo Camargo Passerotti, MD, PhD	<ul style="list-style-type: none"> Assistant Professor of Urology at the Sao Paulo State University, Director of Robotic Surgery at the Hospital Alemão Oswaldo Cruz, and Director of Research in Urology, University of Sao Paulo, Brazil
Eric J. Moore, MD	<ul style="list-style-type: none"> Associate Professor of Otolaryngology (ENT) at Mayo Clinic Named in over 30 publications, certified by the American Board of Facial Plastic and Reconstructive Surgery and American Board of Otolaryngology
Li-Ming Su, MD	<ul style="list-style-type: none"> David A. Cofrin Professor of Urology, Associate Chairman for Clinical Affairs and the Director of Robotic and Minimally Invasive Urologic Surgery in the Department of Urology at the University of Florida College of Medicine in Gainesville, Florida
Balasubramanian Sivakumar, MD	<ul style="list-style-type: none"> Vice President of St. Joseph's Hospital Health Center in Syracuse, NY and President elect of the medical staff for 2012 Robotic surgery proctor/mentor who trained numerous surgeons practicing robotic surgery in specialties including General Surgery; Cardiac Surgery; Urologic Surgery; Thoracic Surgery, and Gynecologic Surgery
Terry W. Grogg, MD	<ul style="list-style-type: none"> Clinical instructor for resident education at Mount Carmel West and at The Ohio State University since 1992, and partner at Southwestern Obstetrics and Gynecology, a division of MOCA, a private practice Main clinical and surgical research interests in Minimally Invasive Surgery include hysterectomies, myomectomies, excision of endometriosis, Unilateral Salpingo Oophorectomy, Bilateral Salpingo Oophorectomy, and sacrocolpopexy

Contact Information

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Except for historical information contained herein, the statements in this fact sheet are forward looking. A fuller discussion of Titan Medical's risks and uncertainties is available in the "Risk Factors" section of the Company's Annual Information Form dated March 31, 2011 (which may be viewed at www.sedar.com).