

BioBusiness Asia 2009

Company Name	Time Medical Holdings Company Limited (“TiMed”)		
Presenter	Ma, QiYuan	Title	Chief Executive Officer
Address	G/F, Bio-Informatics Center, Hong Kong Science Park, Shatin, Hong Kong		
Website	www.time-medical.com		
No. of employee	40	Year of foundation	2007
Company Categories	<input type="checkbox"/> Novel Therapeutics <input type="checkbox"/> Genomics <input type="checkbox"/> Pharmaceuticals <input type="checkbox"/> R&D Service x Medical Devices <input type="checkbox"/> Other _____		
Paid-in Capital	USD 6 million		
Company Stage	<input type="checkbox"/> Seed <input type="checkbox"/> Start up x Expansion <input type="checkbox"/> Mezzanine		
Company Overview	<p>TiMed is a hi-tech company in medical imaging and is involved in the research & development, product application, production and sales of MRI machines and related components. TiMed was founded by a group of Scientists trained at Columbia University, Harvard Medical School and the University of Hong Kong. Led by founder Prof. Q.Y. Ma, the R&D team pioneered the use of High-Temperature Superconducting (HTS) materials in MRI and is the first in the world to develop superconducting RF coil that overcomes the imaging limit of conventional copper coils, and make possible an improvement in signal-to-noise ratio, which increases image quality significantly by 200%-500% without a commensurate increase in magnetic field strength.</p>		
Company History	<p>Time Medical Group (“TiMed” or “Group”) is a revenue-stage developer, manufacturer and supplier of a new generation of magnetic resonance imaging (MRI) components and equipment. TiMed was founded in 2006 by a renowned international team, trained at Columbia University, Harvard University, and the University of Hong Kong. The team, led by Dr. Q.Y. Ma, pioneered the use of High-Temperature Superconducting (“HTS”) materials in MRI and is the first in the world to have developed superconducting radio frequency (“RF”) coils and Cryogenic system (collectively “HTS Probe”) that can be applied to human imaging with an increase in sensitivity of 200%-500%. Over the past 15 years, the team published over 100 papers and obtained 15 patents in HTS materials, electronics, and MRI. The team also obtained US\$7M government funding for this technology innovation. The Group now owns a strong intellectual property portfolio including the initial intellectual property transferred from Columbia University.</p> <p>TiMed has obtained support from respective governments in Asia including :</p> <ul style="list-style-type: none"> - the Hong Kong Government including grants and cooperation with the Applied Science & Technology Research Institute; - the Shanghai Government in terms of grants; - in the process of getting research grants from the Singapore Economic Development Board. 		

<p>Main Products/ Service & Niche of Products/ Service</p>	<p>MRI Machines ranging from whole-body, orthopedics MRI and dedicated MRI machines (for baby, breast and head) fitted with the Company’s own HTS Coils and probe. TiMed’s patented High Temperature Superconducting (“HTS”) coil technology and cryogenic system (collectively “HTS Probe”) retrofits seamlessly into current low-field MRI systems and translate its image resolution performance to that of a mid/high-field MRI, and empowers the performance of high-field MRI to that of an ULTRA high-field MRI. This, depending on the body parts imaged, offers 2x to 5x resolution enhancement</p> <p>Over the past few years, TiMed team has developed new coil technology that substantially improves sensitivity and scan time over traditional copper coils. TiMed has shown that an increase in excess of 200-500% in sensitivity over conventional copper coils can be achieved with its HTS Probe. This translates to a nine-fold reduction in scan time. To demonstrate the improved clarity and resolution of the HTS Probe, an image of an ankle was taken at 0.3T. The HTS coil produced a much sharper image and 5 times increase in SNR as compared with the one taken with a conventional copper coil.</p>
<p>Market Potentials</p>	<p>The global medical device and equipment market size is estimated to be about US\$200B with double digit annual growth. According to Global Industry Analysts, the global MRI equipment market was an estimated \$2.9 billion in 2000 from the sale of about 2,370 units. The market value is estimated to reach \$5.3 billion by 2010 with the sale of about four thousand units.</p> <p>There are more than 22,000 MRI in use worldwide, and the number is expected to grow by up to sixteen percent annually. More than 50 million MRI scans are performed each year.</p> <p>MRI is the diagnostic imaging method of choice for visualizing the central nervous system and is widely used to detect CNS tumors, spine lesions, and stroke-affected areas of brain as well as to visualize blood vessels and evaluate peripheral blood flow. It is rapidly emerging as the favored cardiac imaging modality and it is poised to overtake mammography as the preferred screening for women at high risk for breast cancer.</p>
<p>Company Core Competence or Competitive Advantage</p>	<p>TiMed’s breakthrough technology greatly improves the imaging quality of medical diagnosis by a significant 200%-500%. It means that the resolution of a low-field 0.3T MRI system is increased to that of a 1.5T system without increasing the magnetic field. This also means that an advanced 3T MRI system could have the equivalent resolution of over 6T, allowing radiologists to see features not observable with the best of today’s MRI systems.</p> <p>TiMed’s technologies also drastically reduce the medical imaging cost, making MRI affordable to more people.</p> <p>Core Competence :</p> <ul style="list-style-type: none"> - Significant increase the sensitivity and resolution in MR imaging without the need to increase field strength, allows radiologists to see better, clearer images and not increase health risk to patients. - The necessity of signal averaging is eliminated and that greatly reduce examination time needed (at least -300%). Higher productivity means higher throughput of patients and shorter examination time also reduce patient discomforts. - Less costly MRI systems means substantial cost benefit for diagnostic imaging applications, and make MRI imaging more accessible and affordable to needy patients in all countries.
<p>Partnering Objectives</p>	<p>For industry partners, to look for possible cooperation opportunities including possible sub-contracting, technology research and development, distribution, marketing and/or sourcing.</p> <p>For financial partners, to look for financial support in terms of investments or funding.</p> <p>For industry veterans, to look for professionals interested in joining our group.</p>

