



dorsaVi ViMove being used to identify Adolescent Idiopathic Scoliosis

Melbourne, Australia. 9 August 2016. This week at the 40th Annual Meeting of the American Society of Biomechanics, Dr Michael De Gregorio, Ph.D., research engineer in the orthopaedics department at Wake Forest Baptist Medical Center, presented the first stage of this research titled, “Seated postural differences between children with and without adolescent idiopathic scoliosis: a pilot study.” These findings present opportunities for both early identification and potential prevention of Adolescent Idiopathic Scoliosis (AIS).

Scoliosis is an abnormal curvature of the spine that can lead to life-long pain and disability and affects 7 million children in the US. The key to preventing severe deformity in AIS is early diagnosis. The current treatment for moderate and severe scoliosis is long-term bracing and surgery.

The initial research describes dorsaVi ViMove as being able to identify lower back movement patterns and differences between adolescents with scoliosis and those without. Understanding these differences allows the opportunity to study possible early stage posture treatments as an intervention.

As evidenced in previous chronic low back pain literature (Kent P, 2015, BMC Musculoskeletal J), the use of the data from the dorsaVi ViMove system has been shown to modify patient’s movement patterns and lead to sustained long term improvements in pain (45% reduction) and function (73% improvement). This previous research was conducted on people with chronic long term back pain, however the findings of the Wake Forest Baptist research are encouraging and suggest that similar dorsaVi ViMove treatments may be effective in assisting other serious spinal conditions.

dorsaVi is excited to be working with world leading medical researchers in this important project aiming to improve the health outcomes and quality of life for adolescents with this challenging spinal condition.

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About dorsaVi

dorsaVi (ASX:DVL) is an ASX company focused on developing innovative motion analysis device technologies for use in elite sports, occupational health and safety, and clinical applications. dorsaVi believes its wearable sensor technology enables – for the first time – many aspects of detailed human movement and position to be accurately captured, quantified and assessed outside a biomechanics lab, in both real-time and real situations for up to 24 hours.

Our technology has applications across three sectors:

- **Clinical:** ViMove is transforming the management of patients by providing objective assessment, monitoring outside the clinic and immediate biofeedback. ViMove is currently

used by medical and physiotherapy practices in Australia, the United Kingdom and the United States.

- **Elite Sports:** ViPerform is allowing coaches and medical teams managing elite athletes and teams to screen athletes and provide objective evidence for decisions on return to play, measure biomechanics and provide immediate biofeedback out on the field, tailor and track training programs and optimise technique and peak performance. ViPerform is being used by AFL and NRL clubs, Cricket Australia and the Australian Institute of Sport (AIS) in Australia. Barclays Premier League (EPL) clubs in the UK and US based sports clubs from the National Basketball Association (NBA), the Major Soccer League (MLS) and the National Football League (NFL) as well as various Olympic teams and athletes internationally.
- **OH&S:** We combine innovation, measurement and quality to reduce workplace incidents, costs, meet compliance and improve brand reputation. ViSafe enables employers to assess risk of injury for employees as well as test the effectiveness of proposed changes to workplace design, equipment or methods based on objective evidence. ViSafe has been used by major corporations including Sodexo, London Underground, Vinci Construction, Crown Resorts, Caterpillar (US), Monash Health, Coles, Woolworths, Toll, Toyota, Orora (formerly Amcor), Crown and BHP Billiton. Australian Workplace Compliance delivers risk mitigation through compliance to OHS, Quality Management Systems, Company Policy and Process.

Further information is available at www.dorsavi.com.