

PhD thesis presentation of positive results obtained by SpineGuard's new ultrasound technology

- Feasibility of entry point and trajectory determination in vertebral drilling
- Ideal complement of DSG real-time X Ray-free guidance technology
- Collaboration with the LIB and ISIR labs of Sorbonne University

PARIS and BOULDER (CO), December 17, 2025 – 6:00 pm CET - SpineGuard (FR0011464452 - ALSGD), an innovative company that deploys its DSG® (Dynamic Surgical Guidance) local conductivity sensing technology to secure and streamline the placement of bone implants, today announced that its PhD student engineer Andrés Pérez Velásquez successfully presented his thesis on December 11 in Paris, reporting on the progress with a new ultrasound robot-assisted technology allowing the determination of the entry point and pedicle trajectory from the bony surface of the spine.

Stéphane Bette, Deputy CEO and cofounder of SpineGuard, stated: *"After the CFA congress presentation last April, this science thesis presentation is the second validation by the scientific community of the pertinence and feasibility of a new original ultrasound technology, patented by SpineGuard and perfectly complementing our DSG technology. It allows to determine without using X-Rays, the entry point and the drilling direction from the posterior surface of the bone, before the DSG sensor drill bit penetrates bone to perform a drilling secured by the automatic breach detection validated by published papers. These outcomes, fruit of our collaboration with Sorbonne University, demonstrate our continued willingness to innovate, and the next step is to search for an industry partner to exploit them."*



About SpineGuard®

Founded in 2009 in France and the USA by Pierre Jérôme and Stéphane Bette, SpineGuard is an innovative company deploying its proprietary radiation-free real time sensing technology DSG® (Dynamic Surgical Guidance) to secure and streamline the placement of implants in the skeleton. SpineGuard designs, develops and markets medical devices embedding its technology. Over 110,000 surgical procedures have been secured worldwide thanks to DSG® and 39 studies published in peer-reviewed scientific journals have demonstrated the multiple benefits DSG® offers to patients, surgeons, surgical staff and hospitals. Building on these strong fundamentals and several strategic partnerships, SpineGuard is expanding the scope of its DSG® technology to the treatment of scoliosis via anterior approach, sacroiliac joint fusion, dental implantology and innovations such as the « smart » pedicle screw and power drill or surgical robotics. DSG® was co-invented by Maurice Bourlion, Ph.D., Ciaran Bolger, M.D., Ph.D., and Alain Vanquaethem, Biomedical Engineer. SpineGuard has engaged in multiple ESG initiatives.

For further information, visit www.spineguard.com

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Contacts

SpineGuard

Pierre Jérôme
CEO & Chairman
Tel: +33 1 45 18 45 19
p.jerome@spineguard.com

NewCap

Investor Relations & Financial Communication
Mathilde Bohin
Tel: +33 1 44 71 94 94
spineguard@newcap.eu

SpineGuard

Anne-Charlotte Millard
CFO
Tel. : +33 1 45 18 45 19
ac.millard@spineguard.com

