

soddisfacenti, racconta il Dr. Chisci. *Per un medico poter avere **un simulatore realistico da un punto di vista sia morfologico che biomeccanico** è essenziale. Grazie alla costante collaborazione con Bio3DModel e le sue tecnologie di stampa 3D medicale, già il primo prototipo è stato un grande passo in avanti, rispetto agli strumenti utilizzati in passato per il trattamento dello stesso genere di patologia”.*

I modelli 3D realistici hanno, ed avranno ancora di più in futuro, un ruolo centrale per l’ambito della chirurgia, sia dal punto di vista didattico-educativo che formativo. I simulatori risultano perciò utilissimi per aumentare l’abilità medico-chirurgica e per consentire il training su determinate specializzazioni, come cardiovascolare o addominale. Fare pratica su un simulatore, prima che sul paziente, risulta fondamentale. Avere la possibilità di prepararsi, esercitarsi e confrontarsi anche con altri medici, partendo da un simulatore realistico, permette non solo di migliorare le abilità medico-chirurgiche, ma soprattutto di ridurre i tempi di intervento e di conseguenza anche i rischi per i pazienti e i costi di ospedalizzazione.

Tutti fattori che spingono ad **investire tempo e risorse verso la creazione di modelli 3D per test clinici sempre più performanti**: *“Avere, per esempio, la possibilità di tagliare e suturare le simulazioni create grazie alla stampa 3D medicale è un fattore importantissimo – conclude il Dr. Emiliano Chisci – inoltre, il modello di aorta creato in collaborazione con Bio3DModel è ancora più realistico, in quanto circondato da un gel trasparente che mima l’anatomia circostante, in modo da avvicinarsi ad una reale simulazione di accesso endovascolare sul paziente”.*

I risultati eccellenti sono stati ottenuti anche grazie a **materiali pensati per riproduzioni realistiche dell'anatomia umana**.

SolidWorld Group S.p.A. è a capo di un gruppo di 11 aziende fondato all’inizio degli anni 2000 dall’ingegnere Roberto Rizzo. Quotato nel segmento Euronext Growth Milan, il Gruppo è leader nello sviluppo e integrazione delle più moderne e complete tecnologie digitali 3D, in ambito software e hardware, all’interno delle aziende manifatturiere per supportare e accelerare la loro trasformazione verso la Fabbrica 4.0. Grazie a SolidWorld tutte le fasi di produzione di un prodotto, fino alla vendita e al suo riciclo, sono integrate grazie a tecnologie che rendono il processo produttivo più veloce, sostenibile ed efficiente. Opera attraverso 14 sedi e 3 poli tecnologici, conta oltre 150 dipendenti e più di 8mila imprese clienti. Nel 2022 il Gruppo SolidWorld ha registrato ricavi per 57,7 milioni di euro, un valore della produzione per circa 60,8 milioni di euro con un EBITDA Adjusted pari a 4,1 milioni di Euro. Dal 6 luglio 2022 la società è quotata sul segmento Euronext Growth Milan di Borsa Italiana (con ticker S3D). www.solidworld.it

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SOLIDWORLD GROUP CREATES NEW 3D AORTIC SIMULATOR FOR ENDOVASCULAR ACCESS

The 3-D simulator replicates an aneurysm situation in the area of the aorta near the pancreas from the patient's CT scan and can be used to train new surgeons in cardiovascular surgeries.

The project is the result of a collaboration between Bio3DModel, a subsidiary of SolidWorld Group, with San Giovanni di Dio Hospital in Florence and the Physics Department of the University of Milan.

Roberto Rizzo, Chairperson SolidWorld Group: *"3D printing is increasingly important in supporting medical research and surgical training."*

Treviso, May 3, 2023 - SolidWorld Group S.p.A. (the "Issuer"), the parent company of the leading Group in three-dimensional digital technologies, industrial 3D printing, and advanced printing services in the aerospace and automotive sectors, **informs that has developed a new fully 3D aortic simulator for endovascular access prototype.** A tool that can faithfully replicate the structures of a patient's aorta and pathologies from diagnostic images (CT and MRI). This is **a unique and 100% Made in Italy biomedical 3D printing project** developed by **Bio3DModel S.r.l.**, a subsidiary of the Issuer, a company specializing in 3D printing for the medical health sector, within the Barberino Tavarnelle (FI) technology hub with the most advanced medical 3D printing systems.

Through additive technology, the simulator creates a faithful reproduction of the vascular structure from the aorta to the femoral arteries. From the diagnostic images (for example, from a CT scan), **the software processes the information and transmits it to the 3D printer** (model: **Stratasys J750 Digital Anatomy**), which prints a **perfect copy of vascular structures using biomedical-specific photosensitive resins.** The aortic simulator can be used to perform surgical training. Doctors can then be properly prepared for endovascular access operations, training intervention tests directly on the reproduction of arterial structures, leading up to the placement of a stent inside the aorta in the area where the aneurysm is present, to restore **normal blood circulation to the artery.**

Roberto Rizzo, Chairperson of SolidWorld Group, comments: *"This is a unique project globally and 100% Made in Italy. The collaboration between 3D printing and the medical world is getting closer and closer, enabling extraordinary results, particularly, in the field of research and experimentation. In this case, this new technology also makes it possible to provide new tools for training new surgeons in the treatment of an unfortunately serious and widespread condition such as cardiovascular aneurysm."*

The aortic simulator was developed by **Bio3DModel** in collaboration with Dr. Emiliano Chisci, of San Giovanni di Dio Hospital in Florence, Italy. A project that also sees the participation of the Physics Department of the University of Milan and Dr. Francesco Cavaliere. *"This is a truly innovative project, which, despite being at the beginning, is already giving really satisfactory feedback and results "* Dr. Chisci tells us. *"For a physician, being able to have **a realistic simulator from both a morphological and biomechanical point of view** is essential. Thanks to the ongoing collaboration with Bio3DModel and its medical 3D printing*

technologies, the first prototype was already a big step forward, compared to the tools used in the past to treat the same kind of pathology."

Realistic 3D models have, and will have even more so in the future, a central role for the field of surgery, both educationally and training-wise. Therefore, simulators are very useful for increasing medical-surgical skills and allowing training on certain specialties, such as cardiovascular or abdominal. Practicing on a simulator, before on the patient turns out to be crucial. Having the opportunity to also prepare, practice and compare with other physicians, starting from a realistic simulator, allows not only to improve medical-surgical skills, but more importantly, to reduce surgery time and consequently also the risks for patients and hospitalization costs.

These are all factors that drive **investment of time and resources toward the creation of 3D models for increasingly high-performance clinical trials**. *"Having, for example, the ability to cut and suture simulations created through medical 3D printing is a very important factor"* concludes Dr. Emiliano Chisci. *"In addition, the aorta model created in collaboration with Bio3DModel is even more realistic, as it is surrounded by a transparent gel that mimics the surrounding anatomy, so it comes close to a real simulation of endovascular access on the patient"*.

The excellent results were also achieved through **materials designed for realistic reproductions of human anatomy**.

SolidWorld Group S.p.A. is the parent of a group of 11 companies founded in the early 2000s by engineer Roberto Rizzo. Listed on the Euronext Growth Milan segment, the Group is a leading developer and integrator of the latest and most comprehensive digital 3D software and hardware for manufacturing companies, supporting and accelerating their journey to Industry 4.0. Thanks to SolidWorld, all stages of production - as far as sale and recycling - are integrated using technologies that make the production process faster and more sustainable and efficient. It operates through 14 offices and 3 technology hubs and has over 150 employees and more than 8,000 client enterprises. The SolidWorld Group reported revenues of Euro 57.7 million in 2022, with a value of production of Euro 60.8 million and Adjusted EBITDA of Euro 4.1 million. The company has been listed on the Euronext Growth Milan segment of Borsa Italiana since July 6, 2022 (with ticker S3D). www.solidworld.it

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