Press Release

Australia



State-of-the-art augmented reality technology launches at Westmead Children's Hospital to support those with Haemophilia.

Sydney, 18 June 2022 – An Australian-designed, first-of-its-kind Augmented Reality technology has been unveiled today at The Children's Hospital at Westmead (CHW). The technology will enable young people living with Haemophilia to view the potentially irreversible impact of disabling joint disease.

Haemophilia, an incurable, inherited rare blood disorder, is estimated to impact more than 3,000 Australians.¹ Haemophilia is diagnosed when there is not enough clotting factor VIII(8) or IX(9) in the blood to help control bleeding in the body.¹ This bleeding most commonly occurs in the joints of the knees, elbows and ankles,² and can lead to joint disease if not treated adequately. As haemophilia is also an inherited condition diagnosed at birth, joint disease caused by haemophilia can begin to develop as early as the age of 20.^{2,3}

The Augmented Reality Joint Scanner, which will be used by clinical staff at the Kids' Factor Zone at Westmead Children's Hospital's Paediatric Haematology Unit, will help educate young patients and their families on the possible future impact of joint disease and the importance of maintaining a regular treatment program to help prevent bleeding episodes.

The Scanner utilises a 'leap motion' 3D camera attached to a computer to scan and map a person's hand when placed under the device. A specially designed software then overlays imagery onto the user's hand to replicate normal ageing and the impact of joint disease. While the Scanner uses only the user's hand as its reference point, it cleverly allows the user to expand the replicated view on the screen beyond the hand to see what is happening elsewhere in the body, focusing on specific joints known to be impacted by haemophilia including the shoulder, knee, or ankle.

Augmented Reality is fast providing valid solutions in healthcare from diagnosis, treatment, care, and education. Technology, including Augmented Reality, has played an increasing role in educating patients and achieving better health literacy.⁴

"Technological advances like Augmented Reality, seen in this Joint Scanner, allow healthcare professionals to bring important health education to life that directly engages their patients. We know improved health education can help patients make informed decisions about managing their health conditions", said Murray White, Joint Scanner developer from Crash Bang Wallop.

Tim Demos, 29 who lives with haemophilia A, said the Scanner provides a sobering lens into what life can look like if he doesn't continue to pay attention to his haemophilia management.

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"I've always felt I had a pretty good handle on managing my haemophilia, often not thinking about the impact of my condition in the next ten years. This Scanner has shown me that what I do now will determine how I live with my haemophilia for the rest of my life", said Tim.

Sanofi has developed the Augmented Reality Joint Scanner. A company committed to bringing meaningful advancements to Australians living with haemophilia and other rare blood disorders the Joint Scanner is provided on loan to hospitals across Australia, including Westmead Children's Hospital, as an educational resource for patients and their families.

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About Sanofi

We are an innovative global healthcare company, driven by one purpose: we chase the miracles of science to improve people's lives. Our team, across some 100 countries, is dedicated to transforming the practice of medicine by working to turn the impossible into the possible. We provide potentially life-changing treatment options and life-saving vaccine protection to millions of people globally while putting sustainability and social responsibility at the center of our ambitions.

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Contacts

Linda Foran | + 61 422 007 218 | linda.foran@sanofi.com Rebekah Cassidy | + 61 402 397 498 | rebekah.cassiday@sanofi.com

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Notes to editor: About this media announcement, no compensation was provided to Tim Demos& Murray White and the opinions expressed are their own

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