

The unique technology in SimCair® iCON mattress topper is impermeable to 'superbugs' and can play a major role in infectious diseases such as COVID-19.

March, 2020 – The unique technology used by creator Patrick Noel Daly in the SimCair® iCON mattress topper contributes to the prevention of cross-contamination by 'superbugs' and therefore plays an important role in controlling the spread of infectious diseases such as MRSA, C.difficile, E-coli, and COVID-19.

The SimCair® iCON mattress topper is made of a combination of visco-elastic foam and air. The very elastic outer layer of the mattress is provided with Sealed Barrier Skin Technology and is therefore impermeable to liquids and 'superbugs' such as MRSA, C.difficile, E-coli, and COVID-19. This can prevent cross-contamination among patients. Another additional advantage is that the mattress topper helps prevent problems that regularly arise when using regular foam mattresses. The highly elastic top layer and the air inside the mattress topper reduce friction, shear, and pressure on the patient's skin tissue and therefore assists in the prevention of decubitus ulcers (bedsores).

Patrick Noel Daly came up with the SimCair® technology in 2005 and launched it in 2008. The technique has been tested by the Cork Institute of Technology/University College Cork under the supervision of Dr. Jim O'Mahony (Principal Investigator at BIO-EXPLORE, CIT). Since then, the mattress topper has been used in both healthcare and patients' homes. SimCair® iCON is the new launch that is specially designed for the infection control (iCON) space, in response to evolving infectious diseases.

Because the air can easily be removed from the mattress topper, it is easily transportable which makes it possible for a nurse to take the mattress topper when visiting patients at home and use it immediately if the patient needs it. The mattress topper can also be used in other environments where infectious diseases can spread quickly such as hotels, cruise ships, and resorts. SimCair®iCON can be single-use per patient or a repeat-use product. The mattress topper is easy to disinfect and wipe down. Thanks to a special technique, the mattress topper is auto-inflatable and no pump, motor or power is required to inflate.

The prevention of cross-contamination is becoming increasingly important due to the increased prevalence of 'superbugs' according to the World Health Organization. The ability of the SimCair® mattress topper to exclude such pathogens is striking and can limit the exposure of patients to these types of pathogenic organisms. With the outbreak of the COVID-19 virus, there is an immediate demand for the mattress topper. Infectious diseases result in longer hospital stays, can create long-term disability, an increase in resistance to antimicrobials, unnecessary deaths and are an additional financial burden for both patients and health systems. Annual financial losses due to healthcare-associated infections are also significant: they are estimated at approximately €7 billion in Europe, including direct costs only and reflecting 16 million extra days of hospital stay. (Source: World Health Organization)

About Patrick Noel Daly

Patrick Noel Daly is in charge of Icon Global Innovations. In 1999, he was named Young Entrepreneur of the Year in Ireland. SimCair® was invented and developed in 2005 by Patrick Noel Daly. A Director

of Nursing from a large hospital asked Patrick Noel to develop a mattress topper that could prevent bedsores, made from a material that could be easily disinfected and that would be cheaper than other inflatable alternatives. This is how SimCair® was invented and launched after many rigorous tests. SimCair® has been sold to companies such as Hill-Rom, Drive Medical, EnMed Technologies, and Fannin. With the increasing prevalence of viruses such as COVID-19, Patrick Noel has developed the SimCair® iCON Infection Control (iCON) mattress topper and is now seeking to make SimCair® iCON the new minimum standard in hospitals, healthcare facilities, nursing homes, and for patients at home by partnering with Healthcare Providers and Partner Companies around the world.

To stay informed about SimCair® developments, you can follow Patrick Noel on LinkedIn: <https://www.linkedin.com/in/patricknoeldaly>. More information can be found at <http://www.simcair-icon.com/> or www.icon-innovations.com

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