

These hands performed **221** brain surgeries 2015

David Revez, Neurosurgeon

Biogel[®] Indicator[®] System



You give your all every day. You deserve all the protection you can get.

Your hands help to heal and save lives every day. Shouldn't they be protected too? At Mölnlycke[®], we think so. Double-gloving is a smart, easy and effective way to prevent avoidable injuries. And exposure to dangerous and costly - contamination and infection. What if doublegloving was standard practice for you and the entire team in the operating room (OR)?

> 'I handle sharp instruments every day, and I don't always know if the patient has a blood-borne illness. I doubleglove because exposure is a risk I shouldn't have to take.'

Hanna Grimber, OR Nurse

71%

A 2014 Cochrane Review concludes that double-gloving reduces the risk of an innerglove perforation by 71% compared



Using double-gloves reduces the risk of blood contamination by 65%, compared to single gloves¹



Did you know new virulent species are emerging? We understand how this adds to the pressure of improving occupational safety and controlling costs. And preventing hospital-acquired infections (HAIs) is now a higher priority than ever. We've heard how authorities are responding to these challenges, to promote a safer work environment for you and your colleagues. The Centers for Disease Control and Prevention (CDC)⁴.

An estimated 384,000 needlestick injuries occur in the U.S. every year², and up to 1 million in Europe³. What if everyone double-gloved?

International College of Surgeons (ICS)⁵, Association of Peri Operative Registered Nurses (AORN)⁶ and American College of Surgeons (ACS)⁷, all now recommend double-gloving for invasive surgeries. Plus further evidence supports making double-gloving standard for all surgical procedures - not just high risk cases⁸.



See what confidence feels like

You and your patients can feel better knowing that the puncture indications of the Biogel[®] Indicator[®] System are clear⁹, fast⁹ and large⁹. Immediate detection means safety for you and for the patient. Just as important, the gloves are comfortable and easy to put on and take off.

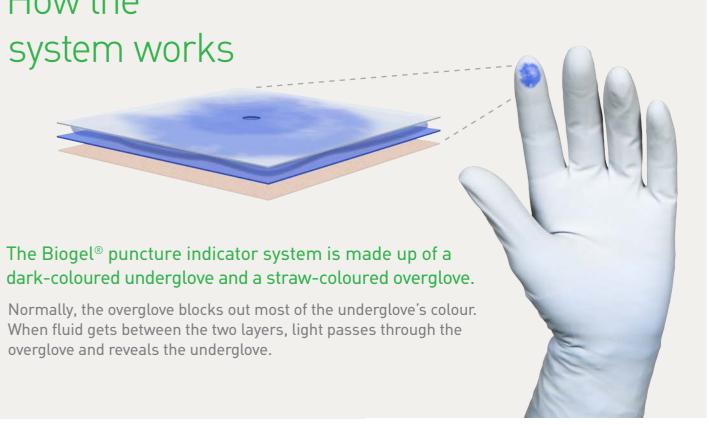
97%

The Biogel puncture indicator system detects up to 97% of punctures¹⁰



A 2014 Cochrane review concludes that indicator gloves reduce innerglove perforations by 90% compared o standard double-gloves

How the system works



overglove and reveals the underglove.

Protection you can see

Detect punctures easily with the proven Biogel Indicator System:

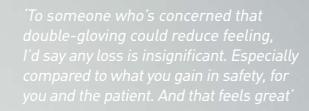
Clear⁹ – The inner glove colour physics are purposeful, selected to trigger sensitivity in the human eye

Fast⁹ – The glove design highlights the puncture spot immediately and the visible indication grows quickly

Large⁹ – The indication spot grows large so you can see it guickly – and so others can see it from a distance everyone else.'

Why Biogel?

'To clinicians who don't double-glove, I say, 'Do it!' It's such a simple way to protect yourself and



What if you could have protection you trust and the tactile sensitivity you need?

You can. Safety is a priority, but that doesn't mean you have to compromise your ability to perform. An interview with 53 surgeons found no difference in dexterity or sensation between wearing no gloves, single gloves or double-gloves¹¹.

85%

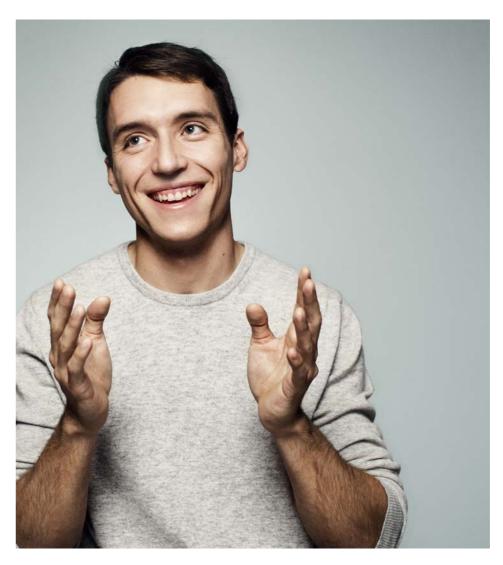
In a user evaluation, 85% of OR staff preferred the new Biogel PI Micro Indicator¹²

New Biogel® PI Micro – for extra tactile sensitivity

Biogel PI Micro is the brand new addition synthetic - to eliminate allergies - but to the Biogel range. It's 20% thinner than Biogel PI UltraTouch[®] – so you can enjoy even more tactile sensitivity. Our new gloves are powder-free, sterile and

the fit, feel and comfort is just as nice as natural rubber latex. As always, Biogel puncture indication technology delivers proven protection you can trust.

Biogel PI Micro Indicator system gives significantly more vivid indication than other synthetic double-gloving combinations⁹.

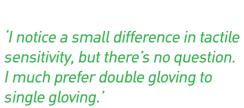


Performance



Most surgeons and physicians fully adapt to double-gloving within just two days¹³





Mikael Barbu, Junior Doctor in Thoracic Surgery



Small investment. **Big return.**

What costs more? The relatively low cost of double-gloving, or dealing with staff and patient exposure to infection? Imagine the total cost if you or a colleague had to undergo expensive testing or prophylactic treatment. And for your patients, a surgical site infection could double the length of their hospital stay and require an extra week of antibiotic therapy¹⁴.

'It's simple, really. Doublegloving is about security for the staff, the patient and the hospital. Cost should never determine whether you double-glove.'

Julie Karlsson, Trauma Nurse

Double-gloving with Biogel® is an effective cost-efficient way to reduce risk for you and your patients.

Occupational exposure costs

In the US

Did you know it costs an average of USD 2,456 to address a Costs add up quickly in Europe too. In Spain, for example, staff exposure to a HIV-infected patient¹⁵? And on average the cost to manage an occupational exposure ranges from USD 650 to manage an exposure to a patient with hepatitis EUR 172 (if the source patient is negative for hepatitis B and C virus¹⁵? C and HIV)¹⁶ up to EUR 1502 (if the source patient is positive for hepatitis C and HIV) ¹⁶.

Patient exposures

Problem: SSIs can increase hospital costs by 61%

SSIs can double the average length of a post-op hospital In a study of cerebrospinal fluid shunt surgery, doublestay (an average additional 16.8 days)¹⁶ and require an extra gloving showed a 50% reduction in infections of the shunt, 7.4 days of antibiotic therapy¹⁶. This means a 61% average compared with single-gloving¹⁷. increase in SSI-related hospital costs¹⁴.



In Europe

Solution: 50% reduction in infections



How can we help you?

Our surgical sales specialists make starting your double-gloving policy seamless and worry-free. They'll work with you to match the right material, features and size to your exact needs.

Our clinical nurse specialists are there to offer support with evaluations and educational programs. They can also

provide you with guidance on important healthcare topics such as infection prevention, recommended practices and the proper use of surgical gloves.

Our team will even help increase OR efficiency and safety through education on correct glove use, glove standardisation and synthetic alternatives.

Biogel[®] Indicator[®] System



Clinicians value Biogel

- Clear, fast and large puncture-indication system⁹
- Every glove (100%) is air inflation tested for holes typically not detected in a visual inspection¹⁸
- Reduced chance of a hole with an industry-leading AQL result of 0.65 - competitor gloves are more likely to have a hole out of the pack¹⁸
- The only major surgical glove brand with a non-pyrogenic range* - reduces potential of fever, inflammation and other reactions
- Biogel gloves have been exclusively powder-free for more than 20 years

Proving it every day

At Mölnlycke, we deliver innovative solutions for managing wounds, improving surgical safety and efficiency and preventing pressure ulcers. Solutions that help achieve better outcomes and are backed by clinical and health-economics evidence.

In everything we do, we are guided by a single purpose: to help healthcare professionals perform at their best. And we're committed to proving it every day.

Referenses: 1. Mischke C, Verbeek JH, Saarto A, Lavoie MC, PahwaM, Ijaz S. Gloves, extra gloves or special types of gloves for preventing percutaneous exposure injuries in healthcare personnel. Cochrane Database of Systematic Reviews 2014, Issue 3. Art. No.: CD009573, D0I: 10.1002/14651858.CD009573, pub2. 2. American Nurses Association. Safe Needles Save Lives Fact Sheet. 2010. 3. Himmelreich H, Rabenau HF, Rindermann M, Stephan C, Bickel M, Marzi I, Wicker S. The Management of Needlestick Injuries. Dtsch Arztebl Int 2013; 110(5): 61–7. D0I: 10.3238/arztebl.2013.0061 4. Mangram AJ, Horan TC, Pearson ML, Silver LC, Jarvis WR, The Hospital Infection Ontrol Practices Advisory Committee. Guideline for prevention of surgical site infection, 1999. Centers for Disease Control and Prevention: Infection Control and Hospital Epidemiology, 1999 April, 20(4):247-278. 5. Childs, T. Use of Double Gloving to Reduce Surgical Personnel's Risk of Exposure to Bloodborne Pathogens: An Integrative Review. AORN J. 2013 Dec; 98(6): 3. 6. International College of Surgeons. European Section News Release [Internet]. 2015 Oct 9. Available from: https://www.icsglobal.org/members/sections/mem_sect_news_europe. asp. 7. American College of Surgeons. Statement on Sharps Safety [Internet]. 10 oct 2007. Available from: https://www.facs.org/about-acs/statements/58-sharps-safety 8. Thomas-Copeland, J. Do Surgical gloves – do they really protect us? Pol Przegl Chir. 2014;86(5):238-43. doi: 10.2478/pjs-2014-0042. 14. Junker T, Mujagic E, Hoffmann H, Rosenthal R, Misteli H, Zwahlen M, Oertli D, Tschudin-Sutter S, Widmer AF, Marti WR, Weber WP. Prevention and control of surgical site infections: review of the Basel Cohort Study. Swiss Med Wkly. 2012 Sep 4;142:w13616. 15. O'Malley EM, Douglas RS, Gayle J, Dekutoski J, Pp. 774-782. 16. Solano VM, Hernández MJ, Montes FJ, Arribas JL. Actualización del coste de las inculaciones accidentals en el personal sanitario hospital Epidemiology. 2007 July. Vol. 28, No. 7 pp. 774-782. 16. Solano VM, Hernández MJ,





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