

Zimmer® Natural Nail® (ZNN) System

with **Bactiguard®** Technology





CREATING
HIGHER STANDARDS
IN INFECTION CONTROL

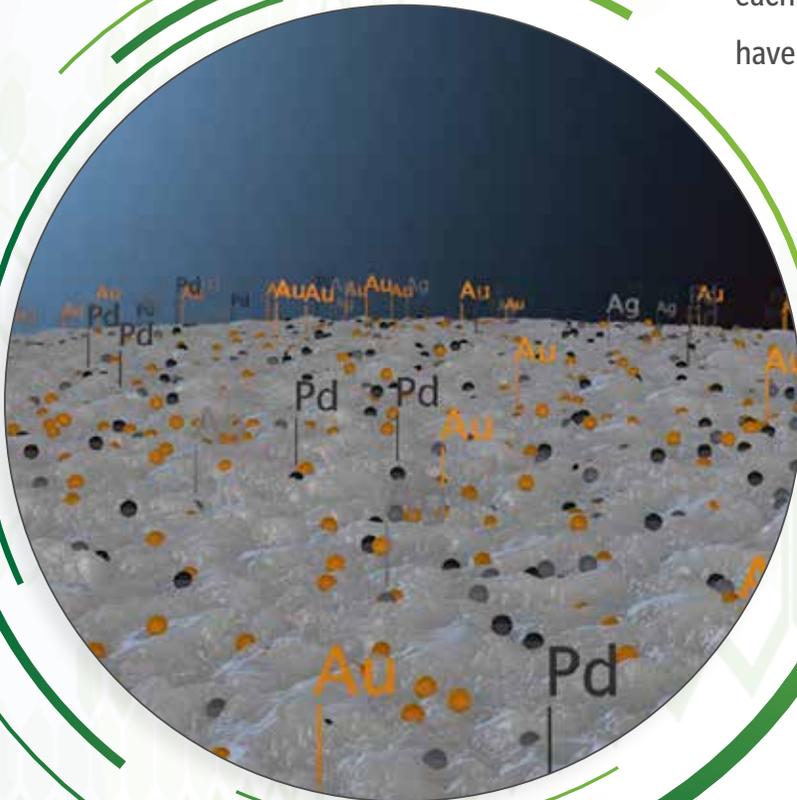
PREVALENCE

1 in every 10

On average, one in every ten patients worldwide suffer from healthcare associated infections (HAI).¹ In addition to unnecessary suffering and longer hospital stays for the patient, these infections also entail higher costs and resource allocations for the healthcare system and society at large.²

3.2 million

In Europe, 3.2 million patients are estimated to receive a healthcare-associated infections (HAIs) diagnosis each year, of which an estimated 37,000 have proven to be fatal.³



ZIMMER NATURAL NAIL (ZNN)

ZNN delivers a comprehensive anatomic intramedullary trauma nailing system designed for fracture fixation and stabilization featuring:

Enhanced Fixation

Exclusive StabiliZe Technology provides a solid interface between nail and bone to create an advanced construct that helps secure the nail and control rotation, alignment and length.

Anatomic Fit

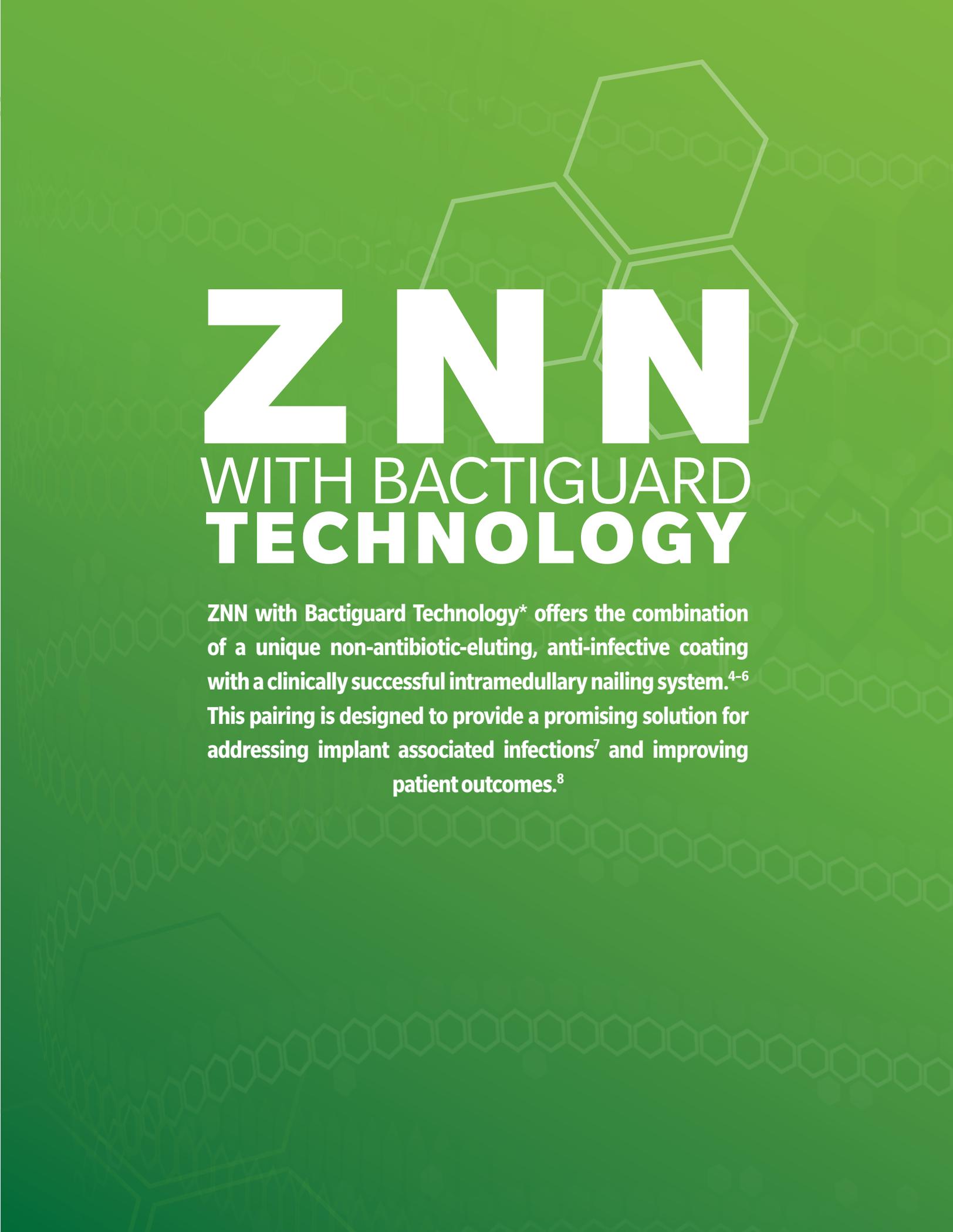
Accommodates varying anatomy to treat a wide range of injuries, closely mimicking the pre-injury state of the bone.

Intuitive Instruments

Color-coded instrumentation system simplifies instrument selection during surgery for workflow efficiency.



**11-year legacy
helping over 60,000
patients annually**



ZNN

WITH BACTIGUARD TECHNOLOGY

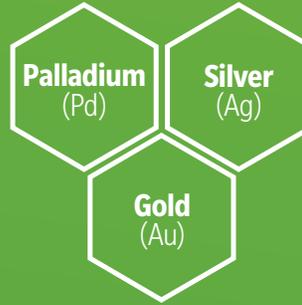
ZNN with Bactiguard Technology* offers the combination of a unique non-antibiotic-eluting, anti-infective coating with a clinically successful intramedullary nailing system.⁴⁻⁶ This pairing is designed to provide a promising solution for addressing implant associated infections⁷ and improving patient outcomes.⁸



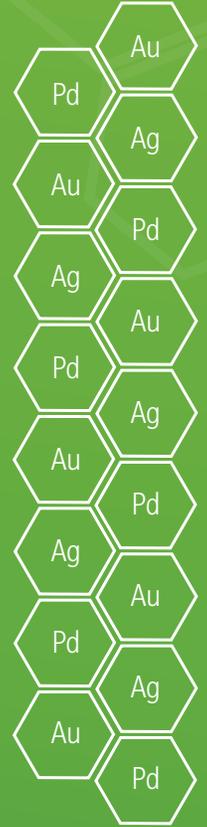
**BREAKING
NEW GROUND
IN INFECTION CONTROL**

HOW DOES BACTIGUARD TECHNOLOGY WORK?

Bactiguard Technology is a thin, durable and non-eluting noble metal (gold, silver and palladium) alloy coating that is firmly attached to the implant surface. When the coating comes into contact with moisture, the noble metals create a unique galvanic (or battery) effect that generates tiny pico currents on the implant surface, reducing bacterial adhesion and subsequent risk of biofilm formation.⁹



Like in batteries, the different electro potentials of the metals create a current.



Infection is one of the leading causes of complications in orthopaedics.¹⁰

Bactiguard Technology is clinically-proven for various non-orthopedic medical devices in 40 clinical trials and more than 100,000 patients.¹¹



TRUSTED PARTNER

Zimmer Biomet's comprehensive and expansive trauma solutions address a wide variety of traumatic injuries, fractures and breaks.

Explore how we can become your trusted partner

with the educational opportunities available to healthcare professionals of any level through the Zimmer Biomet Institute. Opportunities range from general courses, cadaveric labs, surgeon-to-surgeon visitation or facility tours all conducted at one of our many facilities or online.

Visit zbinetworkemea.com to learn more.

*Bactiguard-coated ZNN nails are intended to prevent infections, but are not indicated for the treatment of established infections. Use of this product does not replace existing standard practice for infection prevention such as the use of prophylactic antibiotics.

Bactiguard® is a registered trademark of Bactiguard AB.

Laboratory testing is not necessarily indicative of clinical performance.

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Your progress. Our promise.®

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References

1. World Health Organization. Prevention of hospital-acquired infections. <https://www.who.int/csr/resources/publications/whodscsreph200212.pdf>, 2021.
2. World Health Organization. Report on the burden of endemic health care-associated infection worldwide. ISBN 978 92 4 150150 7, 2011.
3. European Centre for Disease prevention and control. Economic evaluations of interventions to prevent healthcare-associated infections. Literature review. Stockholm: ECDC; 2017.4.
4. CER 10113-01_Zimmer Natural Nail System_29 July 2020.
5. CER 122746_06 Cephalomedullary Nail (CMN) Zimmer Natural Nail System.
6. 285122_CL1_E00_00_#01_Affixus Natural Nail System Humeral Nail
7. 3481.1-EMEA
8. Kai-Larsen, Ylva, REP-03324-3.04671-0200-REV v.03 Review of the clinical safety of Bactiguard coated products (April 2021)
9. Donlan, Biofilms and Device-Associated Infections. Emerging Infectious Diseases 7(2): 277-281, 2001.
10. Harnandez-Vaquero, D. et al. Treatment of periprosthetic infections: an economic analysis. Scientific World Journal. 2013: 821650, 2013.
11. Review of the clinical safety of Bactiguard coated products.4671-0200-REV, 2021.