



PEEK-OPTIMA™ POLYMER CMF SOLUTIONS

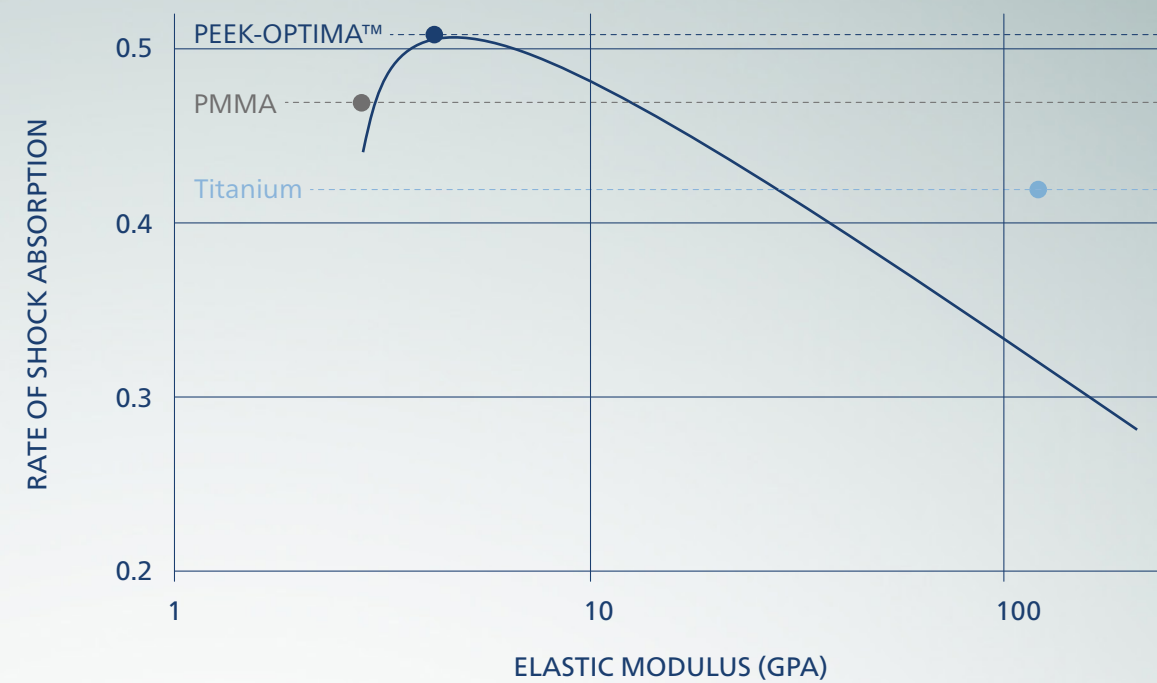
**REMEMBER WHEN
TITANIUM WAS
THE BEST YOU
COULD OFFER?**

 a victrex company



THE OBVIOUS CHOICE FOR CMF IMPLANTS.

TOMORROW'S PATIENTS DON'T
DESERVE YESTERDAY'S SOLUTIONS.



ABOUT PEEK-OPTIMA™

The PEEK-OPTIMA™ material is a high performance polymer which can be used as a **strong, permanent, functional** alternative to traditional structural materials like metal.

PEEK-OPTIMA's **biomechanical properties are more similar to bone**^{3,6,7} and result in better clinical outcomes¹ and cosmetic satisfaction⁸.

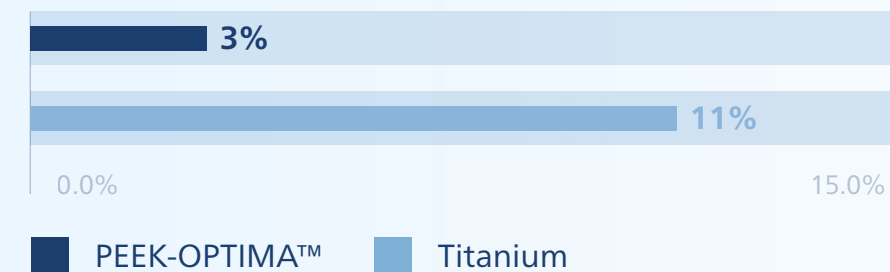


A NON-METAL SOLUTION.

IMPROVED AESTHETIC APPEARANCE AND LESS IMPLANT EXPOSURE

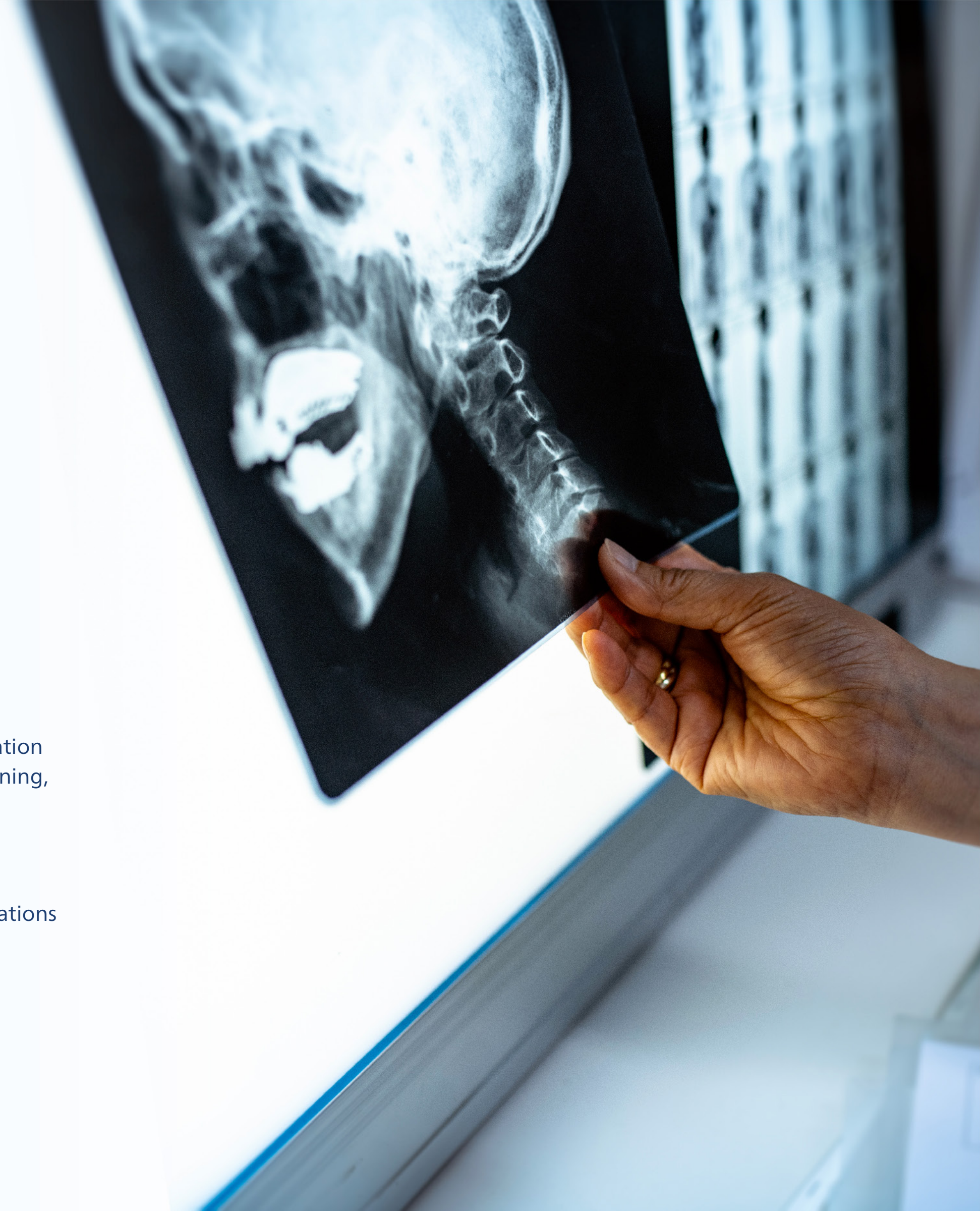
Cranial wounds are more likely to heal properly with PEEK than Titanium, as PEEK has **less than 1/3 propensity for wound dehiscence and implant exposure.**¹

3X LESS PROPENSITY FOR WOUND DEHISCENCE AND IMPLANT EXPOSURE THAN TITANIUM



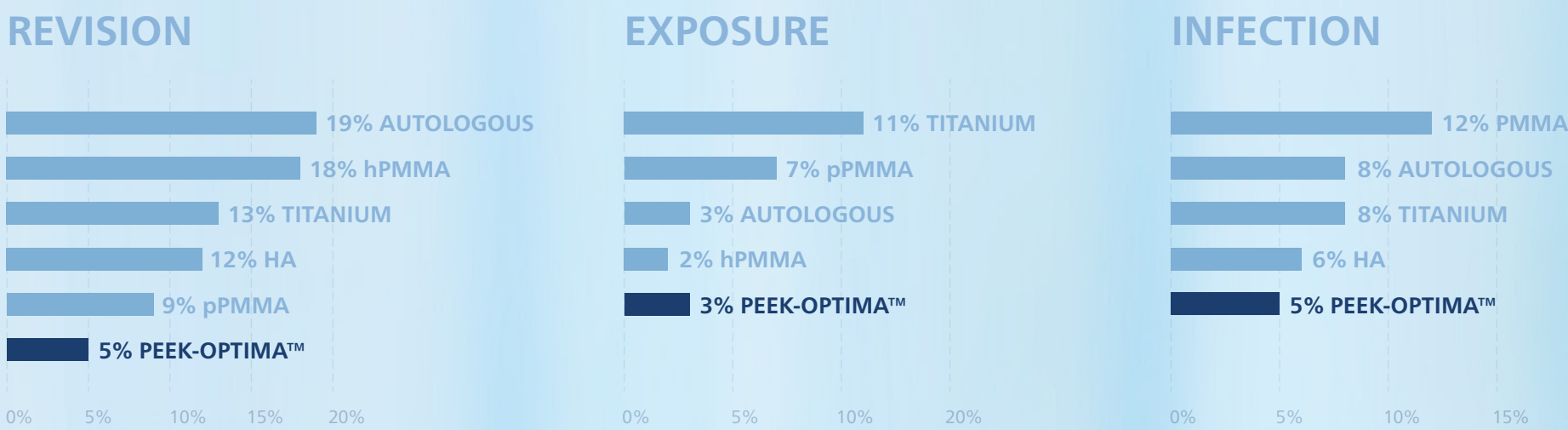
MATERIAL PROPERTIES AND BENEFITS

- ✓ High strength and ductility.¹³
- ✓ Improved shock absorption.¹⁴
- ✓ Thermal insulation with low heat/cold transfer.
- ✓ No risk of metal related hypersensitivity.⁹
- ✓ Precision fit through patient-specific CAD/CAM manufacturing.⁴
- ✓ Compared to titanium, PEEK allows radiolucent artifact-free imaging provides a better interpretation of follow-up MRI and CT imaging, radiation planning, and more precise dose delivery.^{5,11-12,15}
- ✓ Withstands gamma, steam and EtO sterilization.
- ✓ Natural cosmetic appearance for mid face applications as PEEK has bone-like natural beige color.



LOWER COMPLICATIONS, BETTER OUTCOMES.

3X LESS LIKELY TO NEED TO PAY FOR
A REVISION COMPARED TO TITANIUM⁸



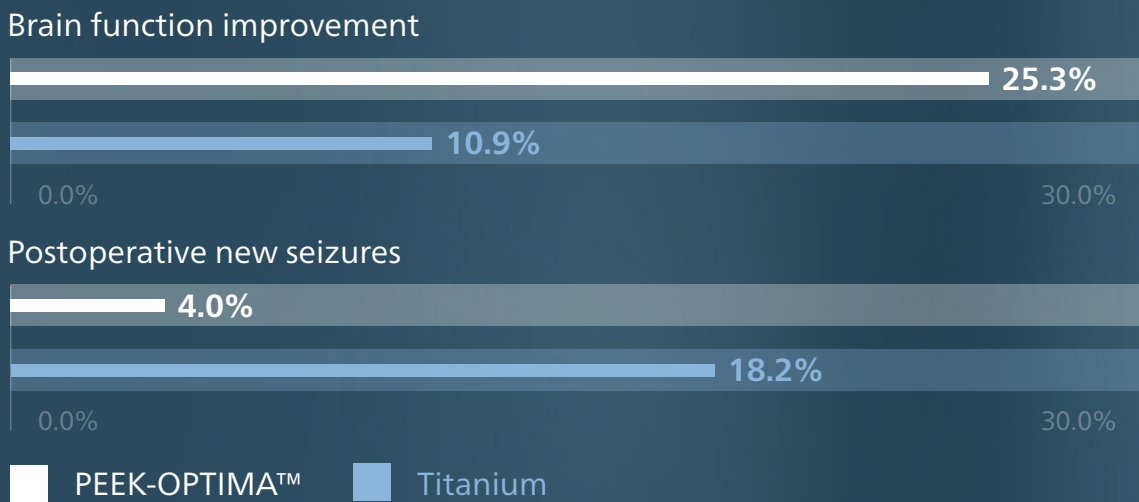
PEEK HAS LOWER COMPLICATIONS COMPARED
TO TI, AUTOLOGOUS, HA AND PMMA.¹

- ✓ LOWEST RATE OF REVISION.^{1,10}
- ✓ LOWEST RATE OF INFECTION.¹
- ✓ LOWER RATE OF IMPLANT EXPOSURE.¹

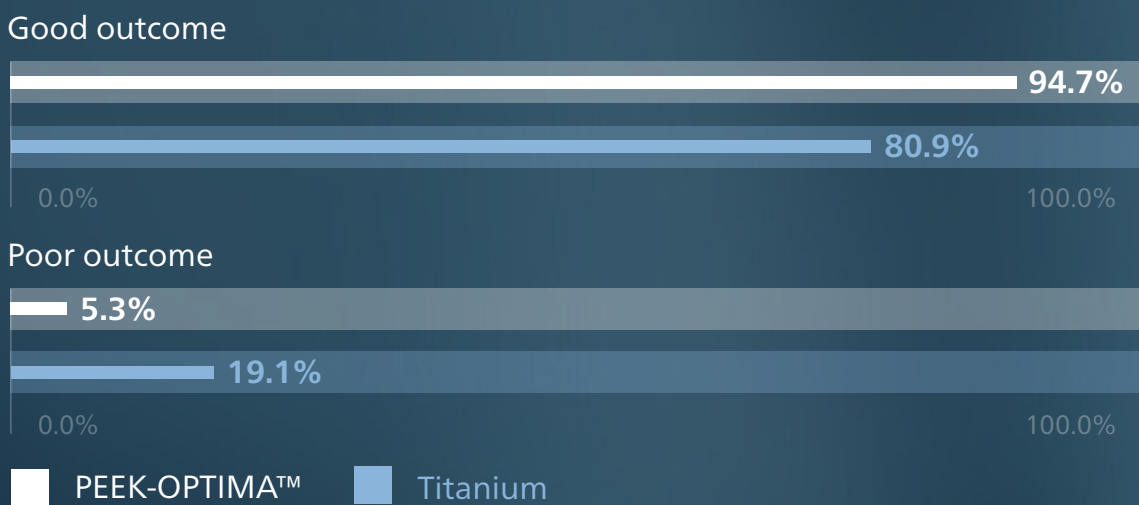


RECOVERY REIMAGINED.

2.5X BRAIN FUNCTION IMPROVEMENT WITH PEEK COMPARED TO TITANIUM⁸



BETTER COSMETIC SATISFACTION OUTCOMES WITH PEEK COMPARED TO TITANIUM⁸



WHY PATIENTS CHOOSE PEEK-OPTIMA.



LESS INFECTION AND IMPLANT EXPOSURE

PEEK is a good choice for patients with metal hypersensitivities⁹ because it has a lower rate of infection than metal and autologous materials¹ and patients are less likely to experience implant exposure.¹



IMPROVED AESTHETIC APPEARANCE

PEEK implants can be designed to fit each individual patient, and because PEEK has a natural bone-like color it is less likely you will see it through thin skin.



IMPROVED IMPLANT COMFORT

PEEK is strong yet 3x lighter weight than metal. It feels comfortable in hot and cold environments because of its low thermal conduction.



IMPROVED BRAIN FUNCTION

2.5 times brain function improvement with PEEK compared to Titanium.⁸



RESULTS NOT RETURNS.

HELP TO SAVE FURTHER COST

3X 18 clinical studies show that choosing PEEK means you are **three times less likely to need to pay for a revision** compared to Titanium.¹

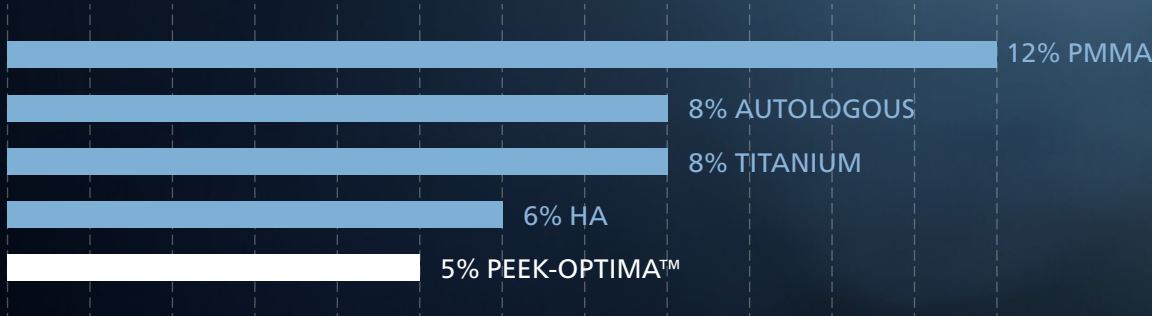
COMPLICATION REVISION RATE:



REDUCED RE-OPERATION

100K An infected implant results in re-surgery and removal of the implant, costing hospitals an **average of ~USD100K/patient** in the US.²

COMPLICATION INFECTION RATE:



(Adapted from Henry J et al [1])





For detailed information on PEEK-OPTIMA™ polymer CMF solutions and to discover even more benefits visit invibio.com/cmfb

REFERENCES

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