

IntraOsseous BioPlasty[®] (IOBP[®]) Technique

Same-Day, In-Clinic Procedure

Subchondral bone marrow lesions (BMLs) are important to identify and treat, as they are highly predictive of the need for total knee arthroplasty (TKA).¹

OA is associated with:

- Presence of BMLs
- Pain or aching
- Stiffness
- Decreased range of motion (flexibility)
- Swelling
- TKA

More than
\$27 billion
in annual medical costs to treat osteoarthritis (OA)²

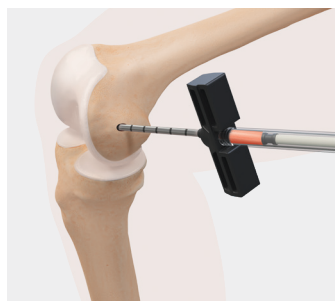
32.5 million
adults in the US experience OA³

They are
4.5-6x
more likely to have mobility limitations due to OA¹

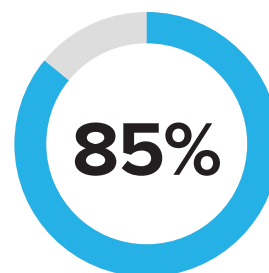
The IOBP Procedure: A Viable Treatment Option for OA and BML Symptoms

Clinical studies support the IOBP procedure's ability to:

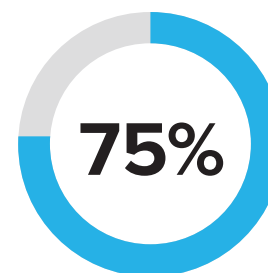
- Decrease BML size⁴
- Reduce the necessity of TKA⁵
- Improve knee health⁶



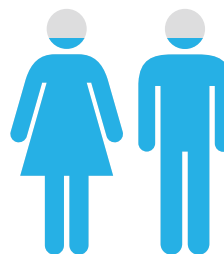
IOBP Procedure May Improve Quality of Life



of patients showed an improvement in pain and quality of life⁶



of patients saw an improvement in function in sports and recreational activities⁶



88% of patients showed bone repair after undergoing the IOBP procedure⁷

References

1. McDonough CM, Jette AM. The contribution of osteoarthritis to functional limitations and disability. *Clin Geriatr Med.* 2010;26(3):387-399. doi:10.1016/j.cger.2010.04.001 2. Ong KL, Runa M, Lau E, Altman RD. Cost-of-illness of knee osteoarthritis: potential cost savings by not undergoing arthroplasty within the first 2 years. *Clinicoecon Outcomes Res.* 2019;11:245-255. doi:10.2147/CEOR.S170119 3. Centers for Disease Control and Prevention. Osteoarthritis. Published June 12, 2023. Accessed January 8, 2024. <http://cdc.gov/arthritis/basics/osteoarthritis.htm> 4. de Castro JC, Henares-Esqueria EL, Olivia S Tamayo-Shih MB, Wang D, Chang Chien GC. Photoactivated leucocyte-rich platelet-rich plasma treatment in reduction of bone marrow edema in hip osteoarthritis. *Regen Med.* 2022;17(8):521-531. doi:10.2217/rme-2021-0165 5. Scher C, Craig J, Nelson F. Bone marrow edema in the knee in osteoarthritis and association with total knee arthroplasty within a three-year follow-up. *Skeletal Radiol.* 2008;37(7):609-617. doi:10.1007/s00256-008-0504-x 6. Sánchez M, Delgado D, Sánchez P, et al. Combination of intra-articular and intraosseous injections of platelet-rich plasma for severe knee osteoarthritis: a pilot study. *Biomed Res Int.* 2016;2016:4868613. doi:10.1155/2016/4868613 7. Hennigou PH, Mathieu G, Poignard A. Percutaneous autologous bone-marrow grafting for nonunions. Surgical technique. *J Bone Joint Surg Am.* 2006;88 Suppl 1 Pt 2:322-7. doi:10.2106/BJ.S.F.00203

