ZimVie

Biotivity™
Hyaluronic Acid

Biotivity™ Hyaluronic Acid (HAC) is a non-cross-linked gel developed for intraoral use during regenerative or implant treatments.[1]

Easily applied to the surgical site, Biotivity Hyaluronic Acid acts in the early stages of healing, attracting growth factors, reducing inflammation, and lessening pain.[2-5]

The healing power you need, in the dose you want

Facilitates Healing

- Attracts growth factors to the healing site[5] and accelerates formation of soft and hard tissue[6-8]
- Supports angiogenesis[9], cell proliferation, and differentiation[10]
- Shown to be as effective as platelet concentrates such as PRF[3, 6, 8, 11]

Higher Patient Comfort

- Reduced swelling when used in recession coverage procedures[12]
- Lessened pain levels when applied to palatal donor sites[13,14]
- Documented lower pain levels when used during implant placement[4] and after molar extraction[15]

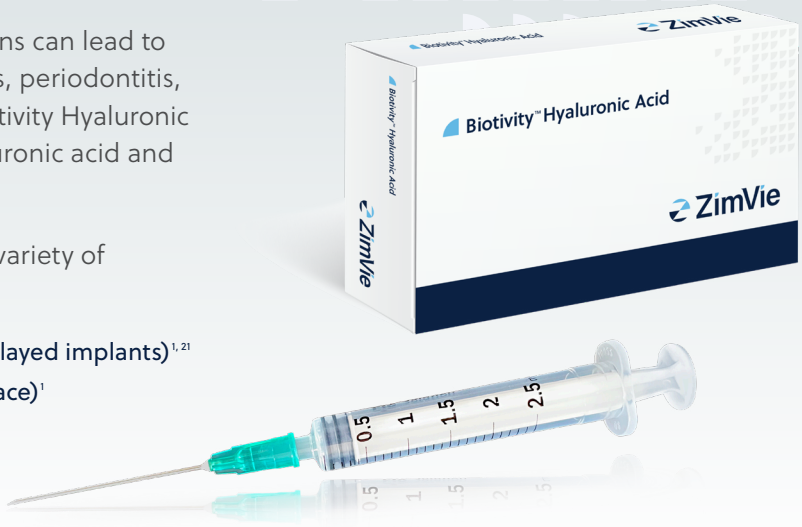
Ease-of-Use

- 5 ml vial can be used on multiple patients (five syringes included)
- Allows application of the desired volume for varying procedures
- Opened vial can be stored for 5 weeks in the refrigerator[1]

The use of hyaluronic acid in dental applications can lead to clinical improvement in patients with gingivitis, periodontitis, periodontal defects, and peri-implantitis.[20] Biotivity Hyaluronic Acid combines the biological benefits of hyaluronic acid and an easy-to-use multi-dose vial.

Biotivity Hyaluronic Acid may be suitable in a variety of clinical applications:

- Socket and ridge preservation (immediate or delayed implants)[1, 21]
- Implant placement (e.g. to activate implant surface)[1]
- Treatment of peri-implant mucositis[1, 22]
- Treatment of peri-implant infections[1, 23, 24]



Bone Graft Preparation Steps

Includes five syringes for convenient, multi-patient application

Hydrate the chosen bone graft material with saline and remove excess fluid with gauze. Add Biotivity HAC to the bone graft material. *(see table below for approximate ratios)*

Mix thoroughly with a spatula and remove excess fluid with gauze. Let mixture rest at room temp to improve consistency. *(see table below for resting times)*

When the preferred consistency has been achieved, pack the mixture onto a spatula by squeezing it against the side of the mixing container. Apply mixture to the grafting site.

Scan for IFU

Bone Graft Mixing Suggestions*

Bone Graft Material*	Volume Ratio Biotivity HAC: Hydrated Bone Graft		Approximate Resting Times (Minutes)	
	Particle Size 0.25 – 1 mm	Particle Size 1 – 2 mm	Particle Size 0.25 – 1 mm	Particle Size 1 – 2 mm
Puros® Allograft Blend	1 : 4	1 : 2	< 2	< 2
Puros Allograft Cancellous	1 : 4	1 : 2	2	< 2
RegenerOss® Resorbable Xenograft	1 : 4	1 : 2	1 - 2	1 - 2
Endobon® Xenograft	1 : 4	1 : 2	3	> 5

* Follow Bone Graft Material and Biotivity HAC Instructions for Use. Suggestions are for reference only. Hydration requirements, mixing ratios, and resting times may vary due to individual conditions and preferences.

[1]Biotivity Hyaluronic Acid IFU. [2] Data on file with manufacturer. [3]Akyildiz S et al. J Craniofac Surg (2018)29: 1794-1798. [4]Alkhateeb WH et al. Cureus (2023) 15:e36575. [5]Aya KLStern R. Wound Repair and Regeneration (2014) 22:579-593. [6]Abaza G et al. Clin Implant Dent Relat Res (2024) 26:88-102. [7]Salbach J et al. J. Mol. Med. (2012) 90:625-635. [8]Faour NH et al. Cureus (2022) 14:e25104. [9]Mast BA et al. Matrix (1993) 13:441-446. [10]Fujioka-Kobayashi M et al. BMC Oral Health (2017) 17:44. [11]Mazloum TA et al. International Arab Journal of Dentistry (2023) 14. [12]Pilloni A et al. Clin. Oral Investig. (2019) 23:1133-1141. [13] Yıldırım S et al. J. Periodontol. (2018) 89:36-45. [14]Khalil S et al. Clin. Oral Investig. (2022) 26:2165-2174. [15] Yilmaz N et al. Nigerian Journal of Clinical Practice (2017) 20:1626-1631. [16]M et al. Engineered Regeneration (2020) 1:102-113. [17]Aslan M et al. J Biomater Appl (2006) 20:209-20. [18] Fouda MM et al. Int. J. Biol. Macromol. (2016) 89:582-91. [19] Miglani A et al. Cureus (2023) 15:e46349. [20] Bhati A et al. Biomed Rep (2022) 17:91. [21] Baldini A et al. Ann. Stomatol. (Roma) (2010) 1:2-7. [22]Lopez MA et al. J. Biol. Regul. Homeost. Agents (2017) 31:115-118. [23] Rakašević D et al. J Funct Biomater (2023) 14. [24] Sánchez-Fernández E et al. Journal of periodontal & implant science (2021) 51:63-74. [25]Ramanauskaite E et al. Clin Oral Investig (2023). [26]Vanden Bogaerde L. Int J Periodontics Restorative Dent (2009) 29:315-23. [27] D'Albis G et al. Genesis (2022) 60:e23497.

For more information, visit ZimVie.com

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Ordering Information

SKU	Description
BHA5	Biotivity Hyaluronic Acid 5 ml vial, incl. 5 sterile syringes

ZimVie
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CE 0373