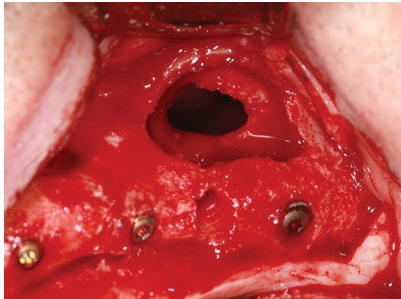
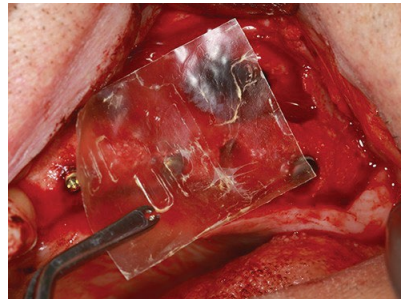


Schneiderian Membrane Repair With BioXclude

Use of BioXclude to repair sinus perforations is simple, fast, and effective. Working as a self-adhering barrier between the sinus and oral cavities, BioXclude can be placed without the need for fixation, making it an ideal solution for Schneiderian membrane repair.



1. Choose a size that will extend beyond the perforation by at least 5 mm.



2. Dry BioXclude is placed over the perforation. Once placed, it will hydrate and seal tightly over the perforation.



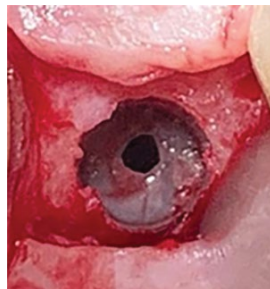
3. Allow 20-30 seconds for BioXclude to fully hydrate, creating an ideal site to place bone grafting materials.

Photos courtesy of Arthur Yagudayev, DDS, MS Denver, CO

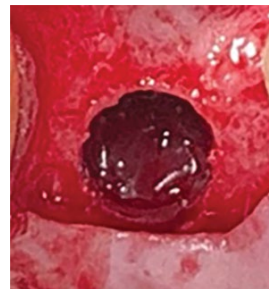
Minimally Invasive Crestal Sinus Lift



1. Pre-op



2. Sinus perforation



3. BioXclude in place



4. FDBA



5. Versabur used; implant



6. Immediate post-op PA

- ✓ Perfect application for 12 x 12 mm size.
- ✓ Easily applied with an osteotome for repair or reinforcement.
- ✓ An additional BioXclude may be placed and left intentionally exposed over the immediate implant to expand the zone and quality of keratinized tissue.

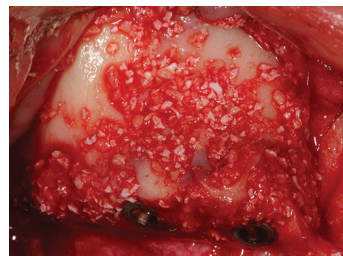
Photos Courtesy of Eric Anthony Del Vecchio, DDS Yorktown Heights, NY

Lateral Window Approach

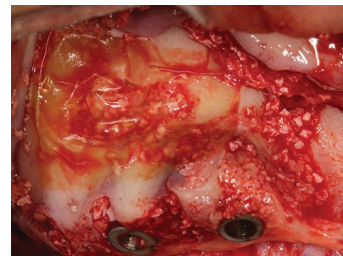
For a lateral window approach, a 20 x 30 mm size can be cut in half allowing for two 15 x 20 mm pieces: One half can be used to protect the sinus membrane and the other half to cover the lateral access window.



1. Lateral window



2. Bone graft placed



3. BioXclude placed

Photo courtesy of Dan Holtzclaw, DDS, MS Austin, TX

CHOOSING THE RIGHT SIZE

- **No flap elevation:** Tuck 1 mm under gingival margin
- **Flap elevation:** Cover all graft material; extend onto native bone 3 mm
- **Sinus Perforation:** Extend 5 mm past edge of perforation

BioXclude®



8x8 mm



12x12 mm



10x20 mm



15x20 mm



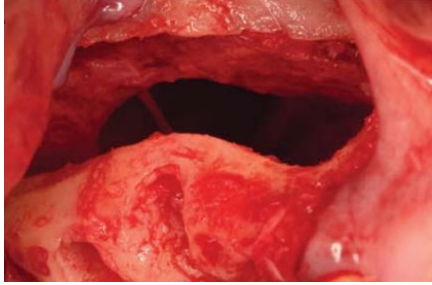
15x25 mm



20x30 mm

Proven Clinical Efficacy:

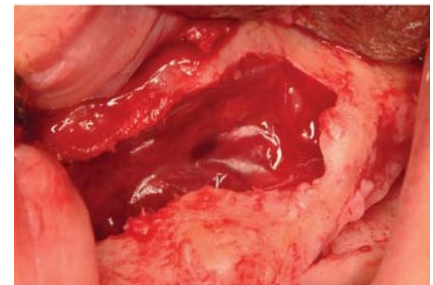
Holtzclaw, D. *Journal of Periodontology*, 2015; 86 (8): 936-940



1. Large perforation of the Schneiderian membrane.



2. Placement of a non-hydrated BioXclude into the maxillary sinus.



3. Hydrated piece of BioXclude self-adhering to the Schneiderian membrane.



4. Placement of particulate bone grafts into a repaired maxillary sinus.



5. Placement of BioXclude over a grafted lateral access window.

Sinus Condition	Total Sinus Augmentations	Implants Placed	Implants Failed
Perforated	9	23	1
Non-Perforated	95	158	3

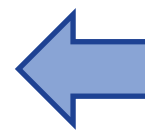
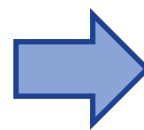
All augmentations allowed for successful restoration

Case Summary: Schneiderian membrane perforation occurs during sinus augmentation. A dry BioXclude is placed on the perforation to separate the sinus and oral cavities, tightly sealing the perforation once hydrated. Particulate bone is then packed into the sinus cavity. An additional BioXclude membrane was placed over the bone graft, covering the lateral window. Adequate bone was achieved at 5 months, with implants placed and immediately loaded with transitional prosthesis.

More Published Sinus Cases with BioXclude

- Capetillo, JF. et al. (2021). Managing Antral Wall Discontinuities in Sinus Elevation Surgery. *Clin Adv in Perio*, 11(1):1-6.
- Chang, Y.-Y. et al. (2019). Comparative Preclinical Assessment of the Use of Dehydrated Human Amnion/Chorion Membrane to Repair Perforated Sinus Membranes. *J of Periodontal & Implant Science*, 49(5): 330-43.
- Holtzclaw, D. (2014). Open Sinus Lift Healing Comparison Between a Non-Perforated Schneiderian Membrane and a Perforated Schneiderian Membrane Repaired with Amnion-Chorion Allograft Barrier: A Controlled Split Mouth Case Report. *J of Implant and Adv Clin Dent*, 6(8): 11-21.

Check out these videos of BioXclude® in action



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