

# ADDRESS CHALLENGING CLOSURES FOLLOWING SKIN CANCER EXCISIONS WITH CYGNUS® DUAL

Support second intention healing and protect post-surgical wounds with CYGNUS Dual, a dehydrated, dual-layered human amniotic membrane<sup>1-4</sup>



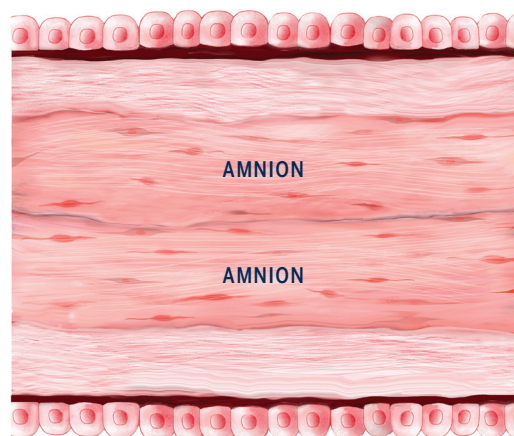
CYGNUS Dual 4 x 4 cm (actual size)

## WHEN IMMEDIATE CLOSURE IS NOT DESIRABLE

- |                                                          |                                                                           |                                                                                                           |                                                                                    |                                                                          |
|----------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <p><b>1</b></p> <p>Defect is too large<sup>5,6</sup></p> | <p><b>2</b></p> <p>Defect has exposed bone or cartilage<sup>7,8</sup></p> | <p><b>3</b></p> <p>Skin is too taut or friable (poor quality or quantity of donor tissue)<sup>5</sup></p> | <p><b>4</b></p> <p>Patient desires to avoid a second surgical site<sup>5</sup></p> | <p><b>5</b></p> <p>Patient has multiple comorbidities<sup>9-11</sup></p> |
|----------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------|

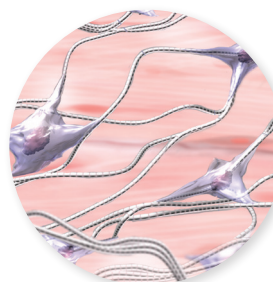
## CYGNUS DUAL SUPPORTS SECOND INTENTION HEALING

Composed of an extracellular matrix (ECM) scaffold, CYGNUS Dual provides a protective barrier and supports the body's ability to repair underlying damaged tissue<sup>1-4</sup>

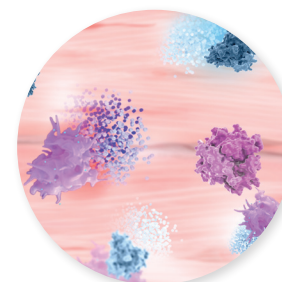


### ECM Proteins

Collagen, glycoproteins, and proteoglycans

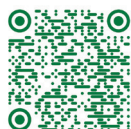


### Growth Factors & Cytokines



Testing has confirmed that CYGNUS Dual retains native components of amniotic tissue<sup>3,4</sup>

**Epithelial layers are oriented outward allowing omni-directional application and thus either side of the product may be applied to the defect<sup>1</sup>**



**References:** **1.** CYGNUS Dual Allograft Tissue Information and Instructions for Use. Vivex Biologics, Inc. **2.** Brantley JN, Verla TD. *Adv Wound Care*. 2015;4(9):545-559. **3.** Niknejad H, et al. *Eur Cells Mater*. 2008;15:88-99. **4.** Data on file, Delcroix Gaetan JR, et al. Preserving the Natural Regenerative Potential of Amniotic Membrane. Vivex Biologics, Inc. **5.** Toman J, et al. *Facial Plast Surg Aesthet Med*. 2022;24(1):48-53. **6.** <https://plasticsurgerykey.com/second-intention-healing-and-primary-closure>. Accessed July 18, 2024. **7.** Becker GD, et al. *Otolaryngol Head Neck Surg*. 1999;121:751-754. **8.** Cordoro KM, Russell MA. *Facial Plast Surg Clin North Am*. 2005;13(2):215-230. **9.** Ramesh BA, et al. *J Cutan Aesthet Surg*. 2017;10(1):18-21. **10.** Akhoondinasab MR, et al. *Ann Burns Fire Disasters*. 2019;32(3):210-215. **11.** Humrich M, et al. *Int Wound J*. 2018;15(2):266-273.

# PROTECT AND SUPPORT SECOND INTENTION HEALING WITH CYGNUS® DUAL

## POST-MOHS SURGERY

Courtesy of Kayla Humenansky, DO; Rich & Humenansky Plastic Surgery

## Surgical defect with exposed muscle closed at 11 weeks

### PATIENT DETAILS & HISTORY

- 68-year-old male
- Medical history: diabetes, hypertension, and obesity
- Surgical history: prior melanoma excision with flap closure on left forehead

### SURGICAL DETAILS

- Patient underwent Mohs micrographic surgery to remove a melanoma on the right temporal scalp
- Surgeon was concerned that the patient was at risk for graft failure and chose second intention healing

### APPLICATION PROTOCOL

- Seven applications of CYGNUS Dual
- Patient assessed at return visits and product reapplied if no longer present or resorbed



#### 1<sup>st</sup> application

Wound area: 8.8 cm<sup>2</sup>  
Three weeks post-surgery with exposed muscle



#### 2<sup>nd</sup> application

Wound area: 6.7 cm<sup>2</sup>  
No exposed muscle and granulation tissue present



#### 4<sup>th</sup> application

Wound area: 2.2 cm<sup>2</sup>  
Healthy granulation tissue present



#### 6<sup>th</sup> application

Wound area: 1.1 cm<sup>2</sup>  
Healthy granulation tissue present



#### Complete wound closure

Following 7<sup>th</sup> application, Bacitracin or Vaseline was applied during scar maturation



#### Three-month follow up

Continued scar remodeling; patient pleased with the outcome



### Kayla Humenansky, DO

Rich & Humenansky Plastic Surgery

- Board-Certified Plastic and Reconstructive Surgeon
- Associate Member of American Society of Plastic Surgeons
- Pursued general surgery residency in New York and completed plastic surgery fellowship in Philadelphia
- Passionate about women in medicine and empowering patients through education