

## Study Stats



What are the incidence, severity, treatment, and outcomes of skin reactions with DERMABOND® PRINEO® Skin Closure System?

Retrospective case series review of patients with allergic contact dermatitis (ACD) reaction to 2-octyl cyanoacrylate used in DERMABOND PRINEO System following elective orthopedic surgery

Chalmers BP, Melugin HP, Sculco PK, et al. *J Arthroplasty*. 2017;32:3742-3747.



### CONCLUSION

Skin reactions to DERMABOND PRINEO System occur in an estimated 0.5% of cases when used following orthopedic operations. With appropriate treatment, outcomes are positive, with patients' symptoms resolving without impact on wound healing and with no other complications or reoperations.<sup>1</sup>



### A severity classification system and treatment algorithm were established<sup>1</sup>

Investigators suggest a standard for recognizing and reporting allergic contact dermatitis (ACD) with DERMABOND PRINEO System following elective orthopedic surgery, and provide a guide in treating occurrences.

### METHODS<sup>1</sup>

- Through the use of an institutional surgical and clinical note database, all patients with a potential delayed skin reaction to DERMABOND PRINEO System were identified from January 1, 2013 to December 31, 2016

**6,008  
UNITS**

**of DERMABOND PRINEO System  
were used at the Institution**



- The diagnosis of skin reaction was made by the surgical team based on clinical symptomology, history, and appearance of the wound. Note that no patch test was performed



## RESULTS<sup>1</sup>

### Incidence and severity



**0.5% incidence of ACD occurred** (in 29 out of 6,088 patients treated with DERMABOND<sup>®</sup> PRINEO<sup>®</sup> Skin Closure System)

**100%** of skin reactions resolved

**without any consequence at a mean of 22 days** (range, 13-56 days) after treatment. There were no other complications or reoperations

**62%** of patients with ACD had mild or moderate reactions; 11 of 29 had severe reactions



### NONINVASIVE TREATMENT TO ADDRESS SKIN REACTIONS<sup>1\*</sup>

- Carefully remove DERMABOND PRINEO System
- Change dressing daily
- Treat affected skin 2 times daily with:
  - 1 layer 0.05% Clobetasol cream
  - 2 layers Vanicream<sup>™</sup>
  - Cover creams for 15 min in towel soaked in 8 oz water and 1 oz white vinegar

20 patients (69%) received oral antihistamines; 16 patients (55%) received topical steroids; 5 patients (17%) required oral corticosteroids; 7 patients (24%) were referred to dermatology.

\*Ethicon is reporting the treatment described in Chalmers et al, not recommending this specific treatment approach.

### ! RISK FACTORS

As in all allergic reactions, **patients must have prior contact and sensitization** to the offending agent. In this study, more than 50% **of the 29 affected patients** had or were suspected to have had previous contact with similar skin adhesive wound closure material

### TIPS TO HELP MINIMIZE SKIN REACTIONS



- Surgeons should **inquire preoperatively** about a history of contact allergies to skin adhesives or their components (ie, cosmetic products such as nail glue or false eyelashes) to help minimize the likelihood of skin reactions



**For more information, please read DERMABOND<sup>®</sup> Recommendations to Help Minimize Skin Reactions.**

For complete indications, contraindications, warnings, precautions, and adverse reactions, please reference full package insert.

References: 1. Chalmers BP, Melugin HP, Sculco PK, et al. Characterizing the diagnosis and treatment of allergic contact dermatitis to 2-octyl cyanoacrylate used for skin closure in elective orthopedic surgery. *J Arthroplasty*. 2017;32:3742-3747.