

# Occluders









## Platinum-coated Occluders Prevent Nickel Release







## **Prevalence of Nickel allergies**

8-19% in adults 8-10% in children & adolescents<sup>[1</sup>

59.7% in overweight females compared to 12.5% in the general population [2]

**17**% women & 3% men [3

39% of female students, 42% of females with pierced skin, and 14% of females without pierced skin [4

## **Clinical manifestations of Nickel Allergies**







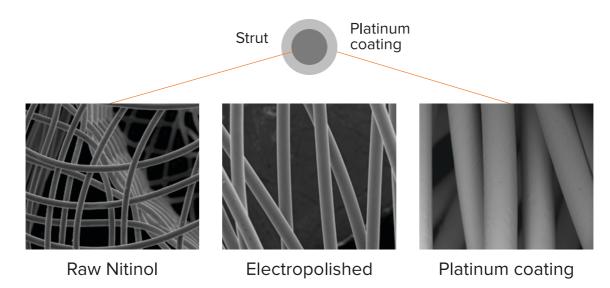
Urticaria



Inflammation

### How does Cocoon address these drawbacks?

- Cocoon Occluders are made of Platinum-coated Nitinol wires
- Platinum layer is up to 25 microns in thickness
- This Platinum coating makes the Cocoon Occluders inert, biocompatible, non-corrosive, non-allergic and also enhances radiopacity



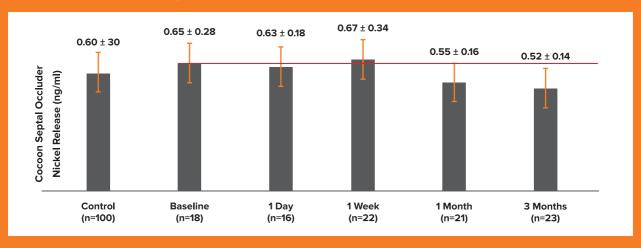


# Clinical evidence to demonstrate the impact of Platinum coating on Nickel release

**Journal of Invasive Cardiology** 

Self-expanding Platinum-coated Nitinol devices for transcatheter closure of atrial septal defect: Prevention of Nickel release<sup>(1)</sup>

Investigators: Pornthep Lertsapcharoen, Apichai Khongphatthanayothin, Suphot Srimahachota, Ruenreong Leelanukrom

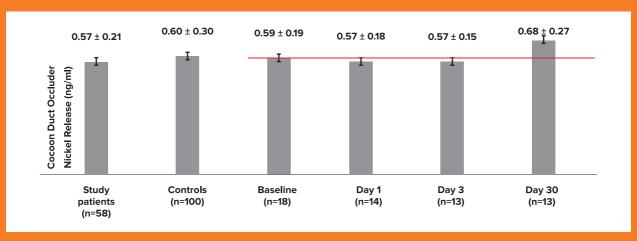


The patients' mean baseline serum Nickel levels was also not significantly different from that in the normal population (p value = 0.5)

#### **Journal of Invasive Cardiology**

## Transcatheter closure of patent ductus arteriosus with a self-expanding Platinum-coated Nitinol device<sup>[2]</sup>

Investigators: Pornthep Lertsapcharoen, Apichai Khongphatthanayothin, Vidhavas La-orkhun, Kanyalak Vithessonthi, Suphot Srimahachota



There was no statistical difference in serum Nickel concentrations between the pre- and post-implantation measurements



### Take-home message

- The Platinum nanocoating on Cocoon Occluders effectively demonstrates that Nickel release levels are not elevated
- There have been no reports of allergic reactions early after the procedure or during follow-up<sup>[1-3]</sup>
- Zero incidences of Nickel allergic reactions [1-3] and device-related  $erosion^{\,^{[4-6]}} \,\, strengthens \, the \, confidence \, in \, Cocoon \, Occluders$

#### References

[1] Int J Cardiol. 2014 Dec 15;177(2):418-22 [2] Medicine. 2019 Mar;98(10) [3] Hellenic J Cardiol. 2021 Jan 20:S1109-9666(20)30291-8

[4]J Am Coll Cardiol. 2016 Apr 26;67(S16):S31 [5] J Am Coll Cardiol. 2017 Oct 31;70(S18):B272

[6] Cardiol Young. 2018 May 25;28(S1):S22-23

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