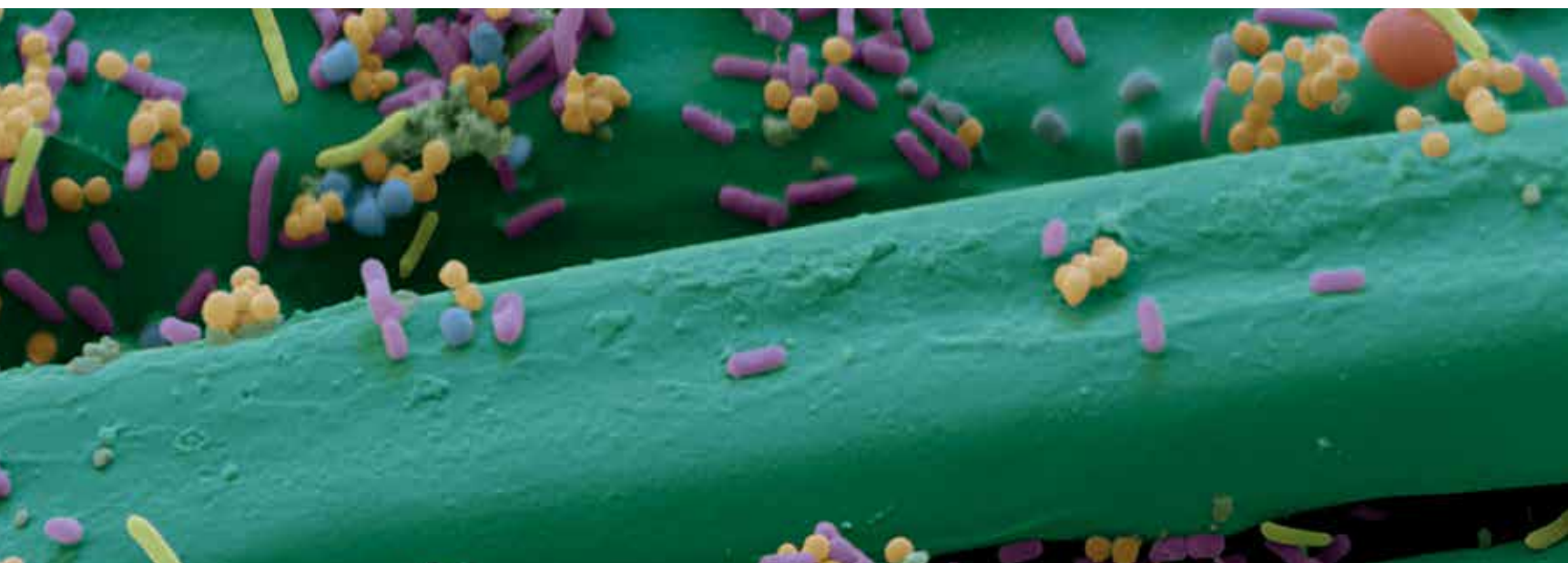




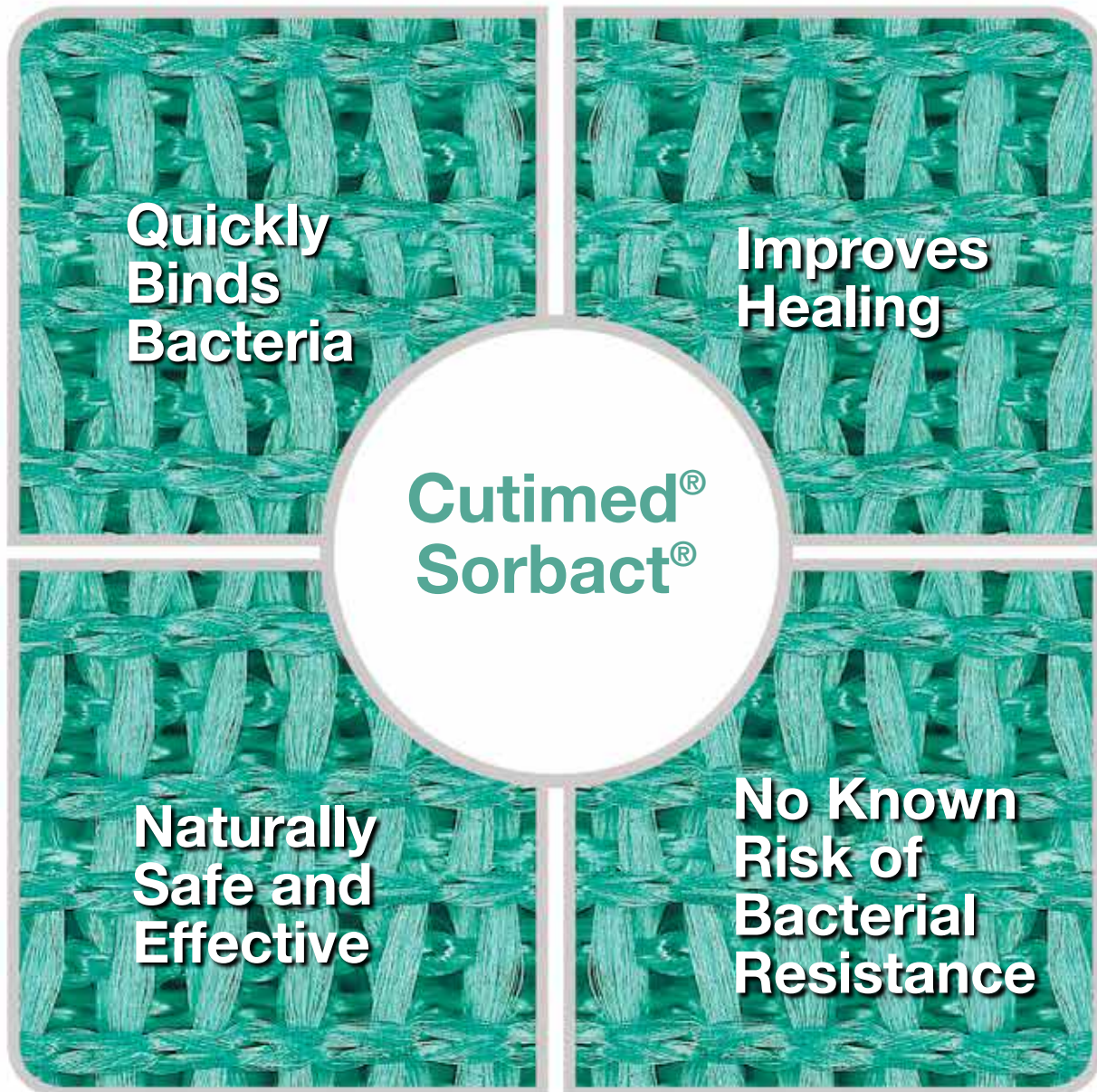
# Cutimed® Sorbact®

Redefining Infection Management





# Cutimed® Sorbact®



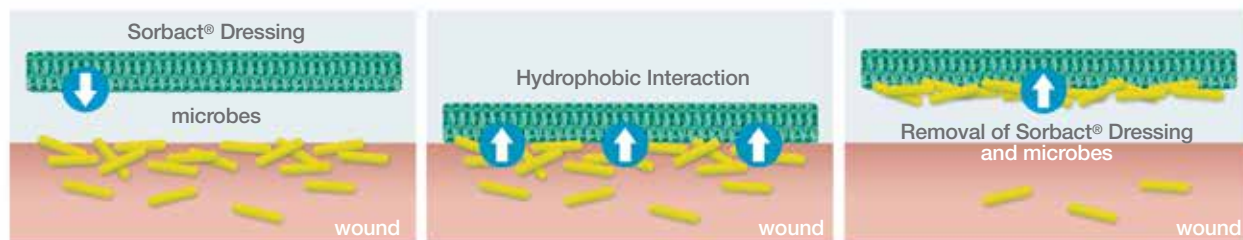
## Redefining Infection Management

Cutimed® Sorbact® irreversibly binds bacteria and removes it from the wound bed through a physical mode of action versus killing it, like silver and other antimicrobial dressings. This helps to keep the cell wall intact, allowing for **natural healing** and **long-term prevention of infections**, across the wound care continuum.

# Cutimed® Sorbact® Quickly Binds Bacteria

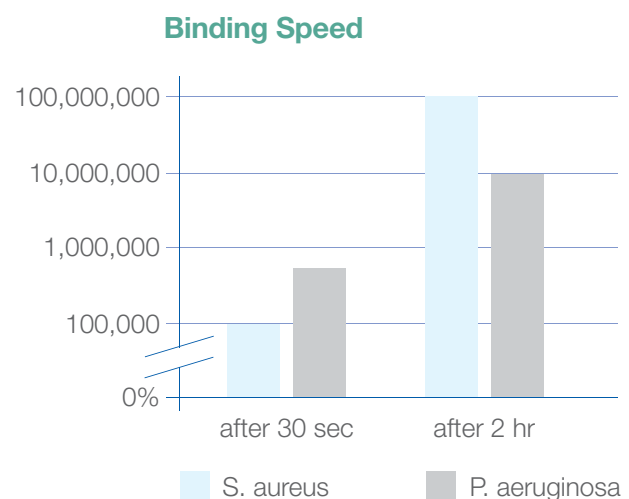
## Binds and Inactivates Bacteria

- Cutimed® Sorbact® is coated with a highly hydrophobic fatty acid derivative, that wound bacteria find very attractive
- Bacteria become irreversibly bound to the dressing, and to each other, so they are unable to move back to the wound bed
- Bacteria become inactive, preventing toxin release and replication



## Faster bacteria removal promotes faster wound healing<sup>1</sup>

- In the first 30 seconds, one square centimeter of Cutimed® Sorbact® binds up to 100,000 ( $10^5$ ) wound bacteria
- After two hours, up to 100,000,000 ( $10^8$ ) more microbes are bound
- Effectively binds MRSA and VRE



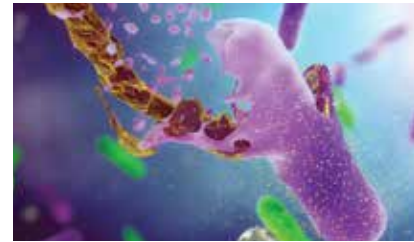
# Manages Bioburden With a Different Mode of Action – Physical vs. Chemical

Cutimed® Sorbact® uses the physical property of hydrophobic interaction to promote bacteria binding. Bacteria is then removed with each dressing change, reducing the overall bacterial load.

When topical antimicrobial products such as silver, kill bacteria or fungi they disrupt the cell wall and release endotoxins and debris into the wound bed. This can cause the body to go into an inflammatory response, ultimately delaying wound healing<sup>3</sup>.



Shows silver attaching to bacteria cell wall



Shows cell wall disruption and endotoxin release

Cutimed® Sorbact® releases no chemical agents to fight bacteria which makes it a uniquely safe and effective solution for colonized, highly colonized and infected wounds.

## Cutimed® Sorbact® Improves Healing



Wound treated 2 months with silver.



Debrided wound treated with Cutimed® Sorbact® Gel dressing (twice a week).



### Proven to Improve Healing<sup>10</sup>

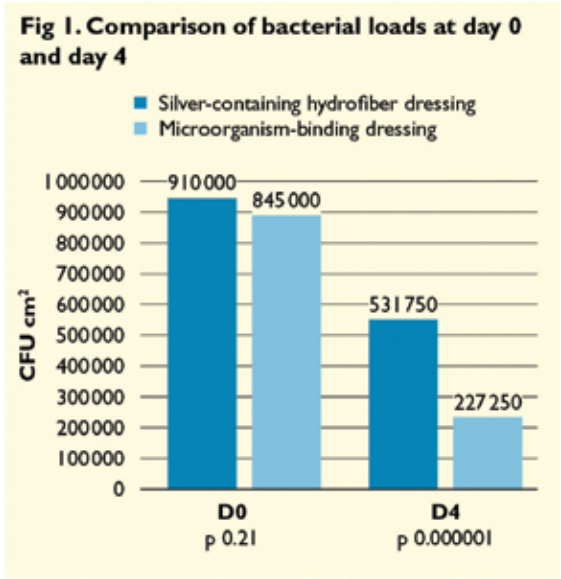
In a clinical study comparing wounds managed with silver and wounds managed with Cutimed® Sorbact® Gel, the healing time reduced from 20 days to 12 days<sup>2</sup>.

# 12 Days vs. 20 Days<sup>2</sup>

Results based on Cutimed® Sorbact® Gel dressing only

# Bacterial Load Reduction vs. Aquacel® Ag

It is essential to remove the bacteria load from a wound to create optimal healing conditions. In a randomized comparative single center study, Cutimed® Sorbact® showed a greater reduction in bacterial load at 73% versus Aquacel® Ag with only a reduction of 43%.



73%  
reduction in  
bacteria load

Aquacel® is a Registered Trademark of ConvaTec Inc.

# Cutimed® Sorbact® Naturally Safe & Effective

	Sorbact®	SILVER
No Known Cytotoxicity	X	
No Systemic Absorption	X	
Effective Against Bacteria	X	X
For Use on Colonized or Infected Wounds	X	X
Reduces Overall Bioburden	X	X

## No Complications From Infection<sup>2</sup>

In a study of 80 patients, 50% were treated with silver and 50% were treated with Cutimed® Sorbact® for four months. 12 of 38 patients treated with silver developed signs of infection; patients treated with Sorbact had zero complications by infection.



## Even Binds Superbugs – MRSA and VRE

Though **MRSA** (methicillin-resistant *Staph-Aureus*) and **VRE** (vancomycin-resistant *Enterococcus*) are resistant to antibiotics, they are also hydrophobic and will bind to Cutimed® Sorbact® with no known risk of resistance.

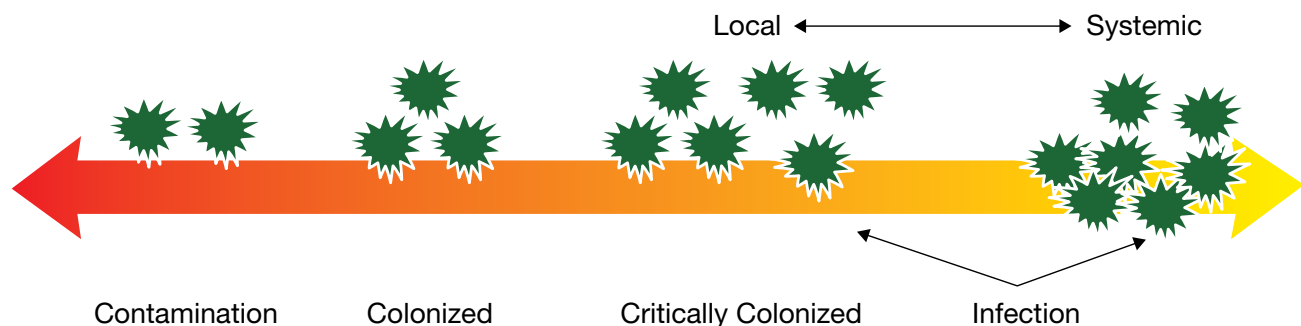
### Cutimed® Sorbact® is Effective in the Removal of Bacteria From Wound Beds, Including MRSA<sup>4</sup>

*An in-vitro study that concluded “A quantitatively high and stable initial adhesion to the microbial binding dressing was detected in all experiments involving Staph. Aureus strains, including nine MRSA strains. These findings strengthen the view that development of antibiotic resistance has minimal impact on the surface structures of the microorganism from a wound adhesion perspective.”*







# Cutimed® Sorbact® No Known Risk of Bacterial Resistance






Studies prove that bacterial microbes are becoming more resistant to silver impregnated dressings. The hydrophobic binding mode of action of Cutimed® Sorbact® means there will likely be no development of bacterial resistance.

Without a limited duration of use, Cutimed® Sorbact® can be used throughout the healing process to prevent further infection.



# Cutimed® Sorbact®

Dressing Pads	Size	REF No.	Dressings / Box	Suggested HCPCS*
	2.8 x 3.5 in.	7216101	5	A6251
	2.8 x 3.5 in.	7216100	40	A6251
	4 x 4 in.	7216201	5	A6251
	4 x 4 in.	7216200	40	A6251
	4 x 8 in.	7216300	20	A6252
Ribbon Gauzes	Size	REF No.	Dressings / Box	Suggested HCPCS*
	0.8 x 19.7 in.	7216600	20	A6266
	2 x 78.7 in.	7216700	10	A6266
Swabs	Size	REF No.	Dressings / Box	Suggested HCPCS*
	1.6 x 2.4 in.	7216401	5	A6222
	1.6 x 2.4 in.	7216400	40	A6222
	2.8 x 3.5 in.	7216501	5	A6222
	2.8 x 3.5 in.	7216500	40	A6222
Round Swabs	Size	REF No.	Dressings / Box	Suggested HCPCS*
	walnut	7216800	70 (14 x 5)	A6222
WCL	Size	REF No.	Dressings / Box	Suggested HCPCS*
	2 x 3 in.	7266200	10	A6206
	4 x 4 in.	7266201	10	A6206
	4 x 5 in.	7266202	10	A6207
	4 x 8 in.	7266203	10	A6207
	6 x 6 in.	7266204	10	A6207
	8 x 8 in.	7266205	10	A6208
Gel	Size	REF No.	Dressings / Box	Suggested HCPCS*
	3 x 3 in.	7261100	10	A6231
	3 x 6 in.	7261101	10	A6232

Sorbion® Sorbact®	Size	REF No.	Dressings / Box	Suggested HCPCS*
	4 x 4 in.	7269808	10	A6196
	4 x 8 in.	7269809	10	A6197
	8 x 8 in.	7269810	10	A6197
	8 x 12 in.	7269811	10	A6198
Post-Op	Size	REF No.	Dressings / Box	Suggested HCPCS*
	2 x 3 in.	7619900	20	A6251
	3 x 4 in.	7619901	20	A6203
	3 x 6 in.	7619902	20	A6203
	4 x 8 in.	7619903	20	A6203
	4 x 10 in.	7619904	20	A6204
	4 x 12 in.	7619905	20	A6204
	4 x 14 in.	7619906	20	A6204
Siltec Sorbact®	Size	REF No.	Dressings / Box	Suggested HCPCS*
	3 x 3 in.	7325100	10	A6212
	4 x 4 in.	7325116	10	A6212
	4 x 9 in.	7325114	10	A6212
	5 x 5 in.	7325101	10	A6212
	6 x 6 in.	7325102	10	A6212
	7 x 7 in.	7325103	5	A6213
	9 x 9 in.	7325104	5	A6213
	Sacral 7 x 7 in.	7325105	5	A6212
	Sacral 9 x 9 in.	7325106	5	A6213
	Oval 3 x 4 in.	7325118	10	A6212
Hydroactive B	Size	REF No.	Dressings / Box	Suggested HCPCS*
	2.8 x 3.3 in.	7993300	10	A6242
	5.5 x 5.5 in.	7993302	10	A6245
	7.5 x 7.5 in.	7993303	10	A6246
	5.5 x 9.4 in.	7993304	10	A6246

Please refer to the product label and/or package insert for full instructions on the safe use of these products.

\*The Noridian Medicare Pricing, Data Analysis and Coding (PDAC) website located at [https://www.dmeptac.com/review/items\\_requiring\\_coding\\_verification\\_reviews.html](https://www.dmeptac.com/review/items_requiring_coding_verification_reviews.html) maintains a searchable database for HCPCS codes based on manufacturer and specific product information. BSN Medical Inc., however, makes no representations as to the accuracy of the information contained within the PDAC database, nor any representations as to whether its products are reimbursable under any government sponsored healthcare program and/or private-insurance program. It is the provider's sole responsibility, in consultation with the insurer, if necessary, to determine and submit appropriate codes, charges, and modifiers for services rendered.

# Proven Clinical Outcomes

## Proof of Bacteria-Binding<sup>1</sup>

*In the first 30 seconds, 1 square centimeter of Cutimed® Sorbact® binds 10<sup>5</sup> wound bacteria - after 2 hours, the amount of bacteria bound are more than would normally be found in an infected wound.*

Bound bacteria become inactivated, their metabolism slows down, they “take a rest” and do not continue to replicate. The formation of bacterial toxins also slows or stops completely which supports the wound healing process.

## Even Binds the Superbugs, MRSA<sup>4</sup>

*Cutimed® Sorbact® is effective in the removal of bacteria from wound beds, including MRSA.*

An *in-vitro* study that concluded “A quantitatively high and stable initial adhesion to the microbial binding dressing was detected in all experiments involving *Staphylococcus aureus* strains, including nine MRSA strains. These findings strengthen the view that development of antibiotic resistance has minimal impact on the surface structures of the microorganism from a wound adhesion perspective.”

## Cutimed® Sorbact® vs. Aquacel® Ag<sup>8</sup>

*Cutimed® Sorbact® showed a greater reduction in bacterial load at 73% versus Aquacel® Ag with only a reduction of 41%.*

A randomized comparative single center study was conducted with 40 patients using antimicrobial dressing for 4 days - 20 with Cutimed® Sorbact® and 20 with Aquacel® Ag. Evaluation confirmed that both dressings are effective in reducing bacteria burden however, Cutimed® Sorbact® was significantly more effective.

## Cutimed® Sorbact® vs. Silver<sup>2</sup>

*No signs of infection and improve the healing by 40%*

A randomized clinical study was conducted with 80 patients; 50% treated with silver, 50% treated with Cutimed® Sorbact®. Patients were observed until wound healed, or total of 4 months. Of the patients treated with silver, 12 of 38 patients developed signs of infection and the average healing time was 20 days. Of the patients treated with Cutimed® Sorbact®, there were zero complications by infection and the average healing time was 12 days.

## Reduces Incidence of SSI<sup>9</sup>

*Patients using Cutimed® Sorbact® coated dressings had a 65% reduction in incidence of surgical site infections*

A single blinded randomized, controlled study with 543 patients was conducted. Patients were evaluated during first 14 days after a cesarean section and were randomly selected to receive a Cutimed® Sorbact® Dressing or a standard surgical dressing. The rate of superficial and deep SSIs were 1.8% with Cutimed® Sorbact® versus 5.2% with standard surgical dressing. None of the patients who received Cutimed® Sorbact® dressings required re-hospitalization, surgical intervention or antibiotic treatment. These outcomes did occur in the control group.

## Helps Prevent Infections<sup>5\*</sup>

*Equally effective to standard of care in helping prevent infections*

2,441 infants participated – Cutimed® Sorbact® was compared to the standard of care, chlorhexidine-ethanol antimicrobial. Cutimed® Sorbact® coated with Cutimed® Sorbact® was proven to be equally effective to standard of care in preventing bacterial colonization in the umbilical area.

## Safe and Effective Wound Healing<sup>6</sup>

*93% of the wounds improved or healed completely in four weeks*

In the Kammerlander multi-center study with 116 colonized or infected wounds, Cutimed® Sorbact® with Cutimed® Sorbact® eliminated the infection signs in the majority of patients.

## Reduces Exudate, Odor and Pain<sup>7</sup>

Medical personnel have reported **exudate levels greatly improved**, even for long-standing wounds that did not respond to prior treatments. Studies also show a considerable **reduction in malodor** in just over four weeks with Cutimed® Sorbact®. Patients reported a significant **reduction in pain** over the treatment period.

\* DISCLAIMER - The use(s) of the subject device described in this study have not been cleared by FDA and are being provided as information only. The author is not known to BSN as having a financial interest in BSN or in a product of BSN that is included in the study, nor is the author receiving compensation from BSN, nor is there any affiliation of the author to BSN in any manner. It is not known by BSN who has provided funding for the study. All significant risks or safety concerns associated with the uncleared use(s) of BSN's device(s) discussed in the study are known to BSN but may not be discussed in the study.

## 2+ RCTs • 10+ Peer-Reviewed Articles • 45+ Case Studies & Posters

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