

Steady performance
for superior confidence

ADVAPD

Product Description ⁹

Composition	Polydioxanone
Sizes	Sizes 1, 1-0 & 3-0
Absorption Profile	Essentially complete between 180 to 240 days
Coating	None
Needle Availability	A wide variety of Round Body Needles

Tensile Strength

Tensile Strength retention	Days of Implantation
85%	14 th Day
75%	21 st Day
65%	28 th Day



V-0

ADVAPD
Monofilament Synthetic
Long-term Absorbable Surgical Suture

Enduring performance for
confidence in extended wound support

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Advancing science for life™

For more information please contact:

E-mail - Surgicalsolutions@bsci.com

Phone - +91 124 6260500 (board no.)

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AMS
Advanced MedTech Solutions Pvt. Ltd.

Complications in abdominal wall closure after midline incisions

Wound Dehiscence¹

- Dehiscence can lead to a burst abdomen and exposure of the abdominal contents, prolonged hospital stays and requires reoperation³
- Mortality rates following dehiscence range from 15% to 20%⁴

Surgical Site Infections¹

- SSIs can extend the inflammatory phase, during which the tissue has essentially no strength, increasing the risk of dehiscence and incisional hernia¹
- On an average, a single SSI can extend a hospital stay by 2 to 11 days²

Incisional Hernia¹

- A wound dehiscence significantly increases the risk of incisional hernia by upto 43%⁵

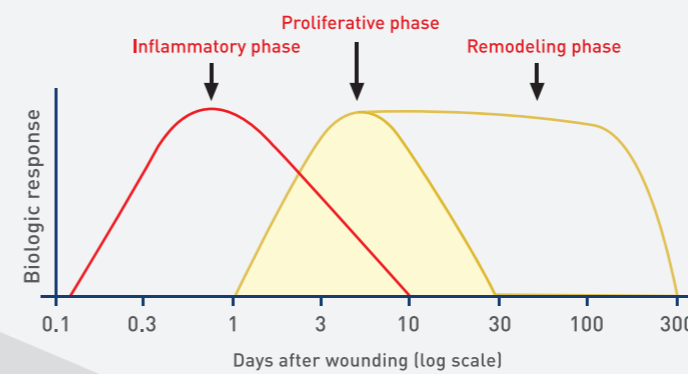
Challenges in abdominal wall closure

Slow fascia healing

- a. Fascial tissue achieves only 50% of original tensile strength even after 2 weeks⁶

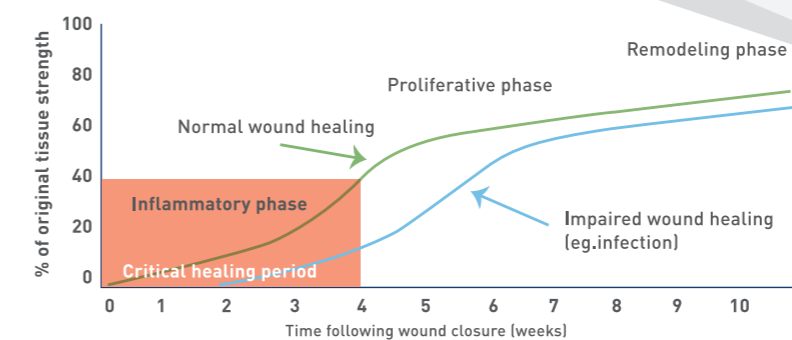
The phases of fascia healing

- Fascia healing consists of 3 consecutive, overlapping phases⁷



- b. Fascia healing is further impaired with comorbidities - diabetics, smokers, elderly & cancer patients⁸

Strength of abdominal wall⁸



REFERENCES

1. Dubay, DA. "Acute wound healing: the biology of acute wound failure". Surg Clin North Am. 2003 Jun;83(3):463-81
2. Surgical site infection: incidence and impact on hospital utilization and treatment costs-Am J Infect Control. 2009 Jun;37(5):387-97
3. Abdominal Wound Dehiscence in Adults: Development and Validation of a Risk Model- World J Surg. 2010 Jan; 34(1): 20-27
4. Mechanical factors in abdominal wound closure: the prevention of fascial dehiscence.- Surgery. 1985 Jun;97(6):631-40
5. Incisional hernia after repair of wound dehiscence: incidence and risk factors.- Am Surg. 2004 Apr;70(4):281-6

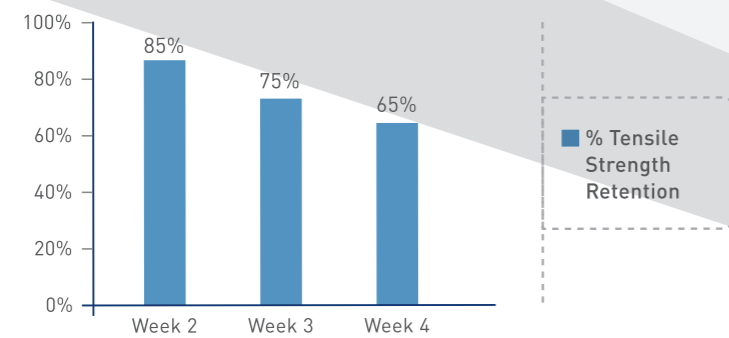
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6. Dubay and Franz. Surg Clin North Am. 2003; 83:463
7. Douglas. Br J Surg. 1952;40:79
8. Rath AM, Chevrel JP. The healing of laparotomies: review of the literature. September 1998, Volume 2, Issue 3, pp 145-149

The confidence to handle complications with ease

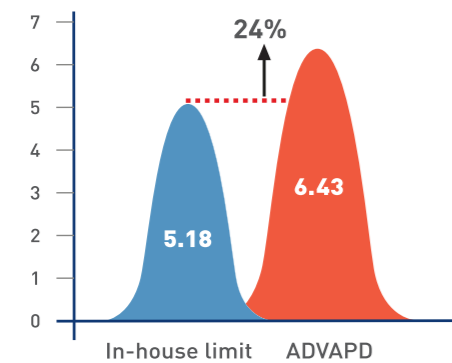
Choosing the ideal wound closure solution helps address every complication

1. Absolute strength retention for upto 6 weeks, enough to support the fascia throughout the critical healing period⁹



2. 24% more knot pull tensile strength vs. recommended limit ensures extended wound support to fascial tissues and minimizes the risk of dehiscence⁹

Knot pull tensile strength (KgF)



3. Long term absorbable sutures ensure lesser complications like incisional hernia vs mid-term absorbable sutures¹²
4. Reduced surface area and lack of interstitial spaces in monofilament sutures minimize the risk of bacterial colonization & infections¹³

REFERENCES

9. ADVAPD IFU- Data on file with AMS
12. Diener et.al Ann. Surg. 2010, May 2010 - Volume 251 - Issue 5 - pp 843-856
13. Bacterial Contamination of Surgical Suture Resembles a Biofilm- Surg Infect (Larchmt). 2010 Oct; 11(5)

Premium needles paving the way for enhanced confidence

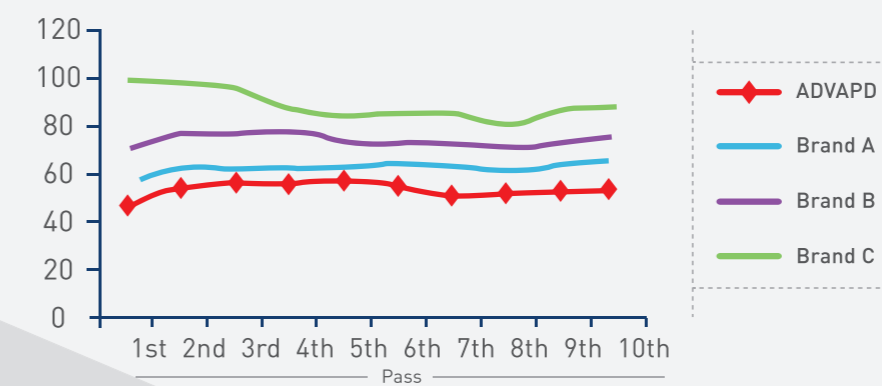
Durable silicon coating to retain needle sharpness, pass after pass

Ensures lesser tissue trauma & impeccable suturing experience⁹

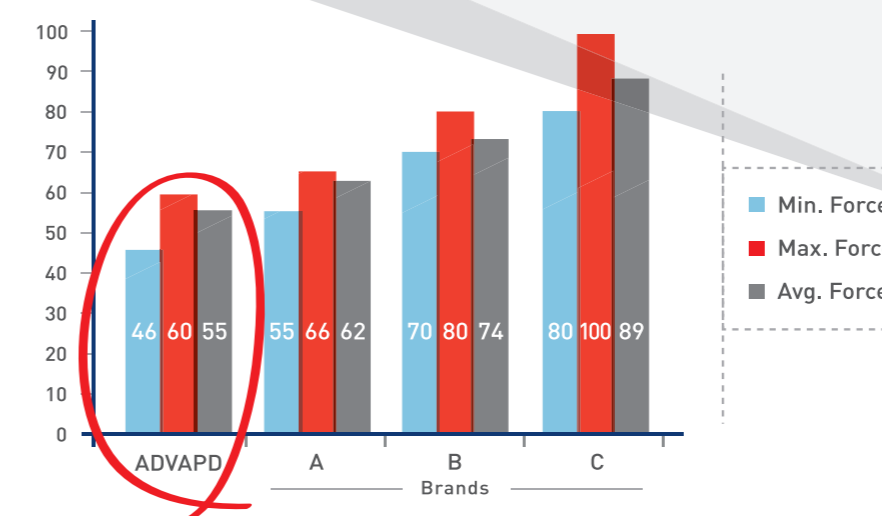
Superior needle geometry for improved control

Ribbed bodied needle to provide greater stability in the needle holder⁹

Incremental penetration force¹⁰



Needle penetration study¹⁰



REFERENCES

10. Data on file with AMS -Bench test done on Polydioxanone USP size-1, 40 mm Round body needle

ADVA TRAY - the confidence to suture with ease

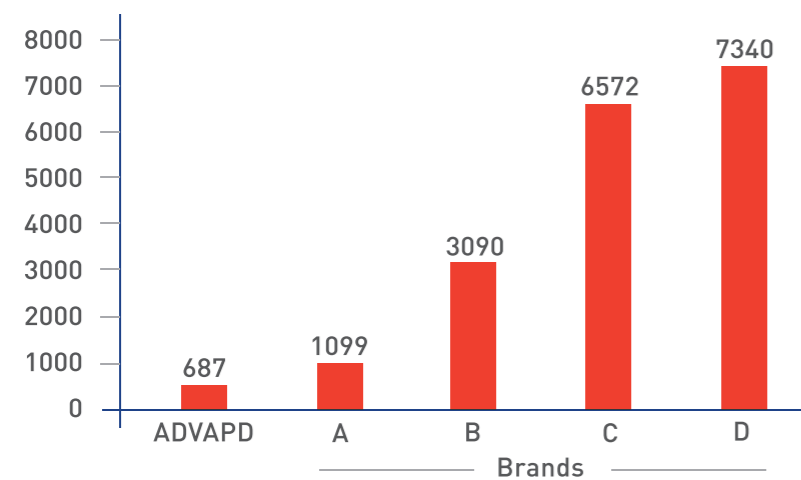
ADVA TRAY a unique dispensing system designed to deliver ease of suture dispensing with minimal memory in the suture strand ¹¹



Robust manufacturing process & superior primary aluminum packaging ensure least moisture content in the suture foil

Ensures strength & sterility of the product is maintained throughout the shelf life of 5 years ¹¹

Moisture content per pack (µg)



REFERENCES

11. Data on file with AMS –Bench test done on Polydioxanone USP size-1, 40 mm Round body needle

Optimal Performance. Superior Confidence.

ADVAPD, long term synthetic absorbable monofilament sutures are engineered to deliver prolonged strength and durable penetration consistently. Optimal for cases requiring extended wound support to achieve better patient outcomes