

GD LIFT

ZENS International



BUSINESS OVERVIEW

Company Introduction

01

- Company Introduction
- Business Area

GD LIFT Introduction

02

- New Trend
- Lifting Thread
- Comparison
- Before & After

Certificate & Training

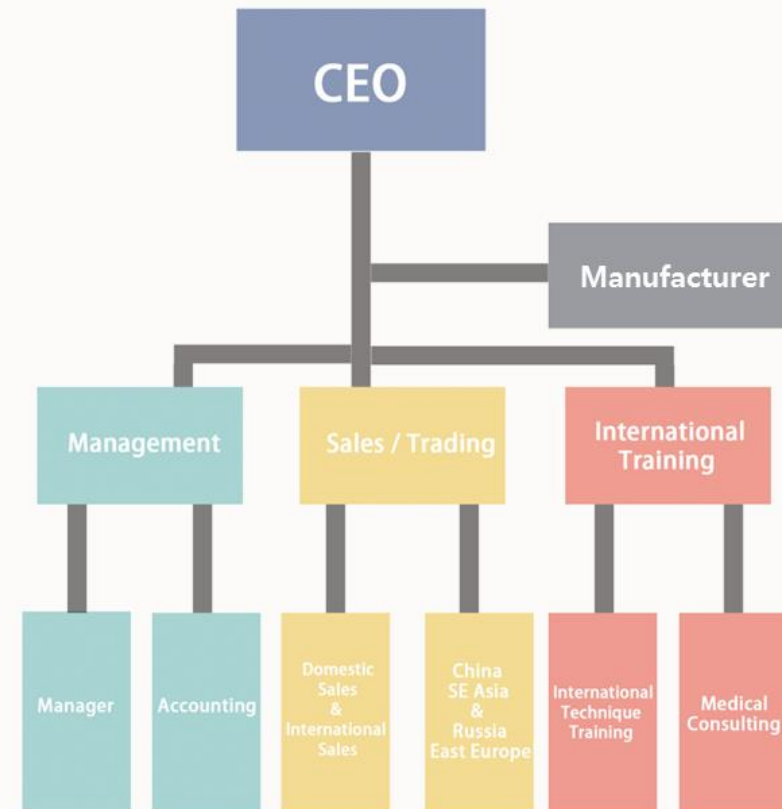
03

- Certificate
- Key Doctors
- Training

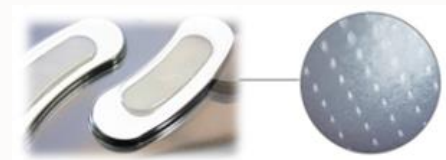
1. Company Introduction

Company	Zens International Co.,Ltd.
CEO	Wanghon Lee
Business	Medical devices, Cosmetics
Address	2013, 1719, Gyebaek-ro, Jung-gu, Daejeon, Korea
Email	zens6710@gmail.com
Telephone	1600-3056

2. Company Organization

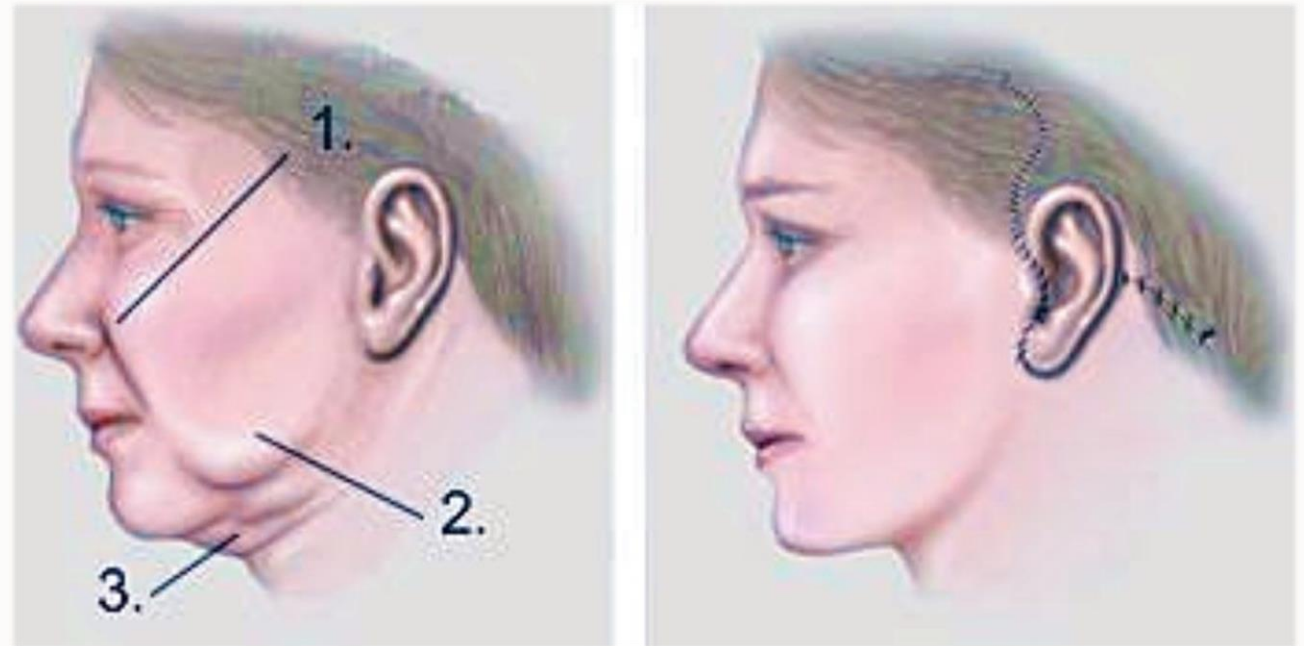


- Zens International is a professional provider of medical/cosmetic products, specializing in design, manufacture, and distribution.
- Our mission is to bring back the beauty around people back into their lives, by developing new ideas and medical products.
- All of Zens' products are developed with the customers' needs in mind, and backed up by a network of dedicated professionals from different fields that can assure the quality of products.



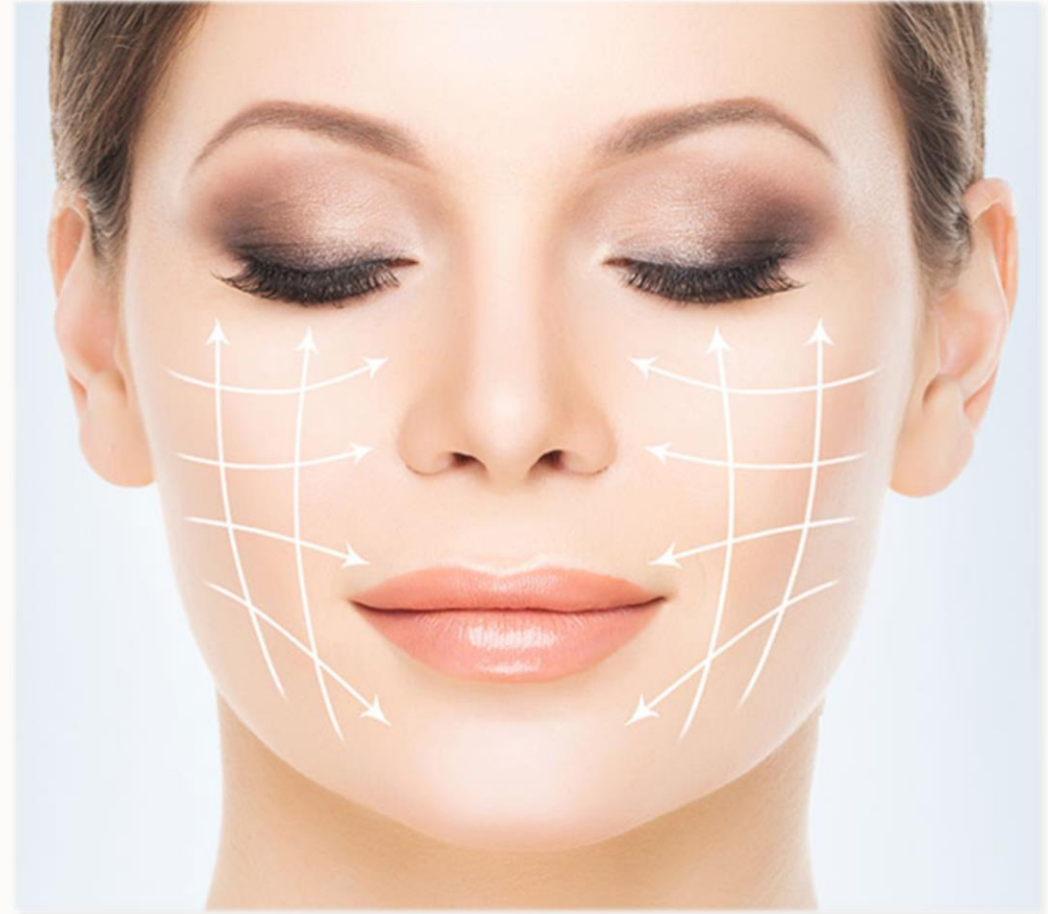
Facial Lifting (Plastic surgery)

- Facial Lifting have significant effects, but it need at least 60 minutes of operation time
- **GD Lifting only needs 15 minutes to have similar effects with Facial Lifting**



“Petit” – Fast, Safe

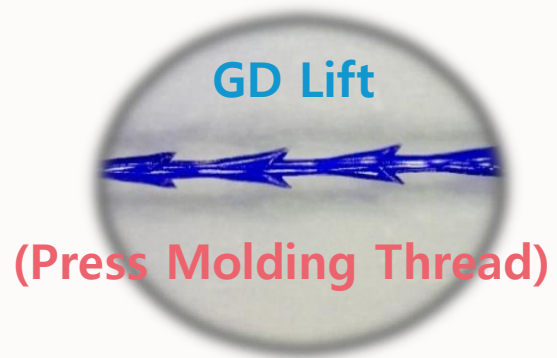
- BOTOX
 - Removes wrinkle
- FILLER
 - Fills area that have lost volume
- PDO, PCL thread
 - Lifts sagging skin



What is GD LIFT?

GD LIFT is a facial lifting thread, designed with a special suture thread called PDO, PCL. Unnoticeable activities are enabled on the very day of the painless, minimal-swelling, minimal-surgical procedure.

The procedure only requires a local anesthesia. Neither damage nor scars are left on the procedure sites after the procedure.



Tensile Strength(19G)

2.78kg



Cutting suture
A

1.3kg



Cutting suture
B

1.4kg





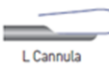













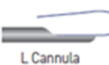



Cutting suture
C

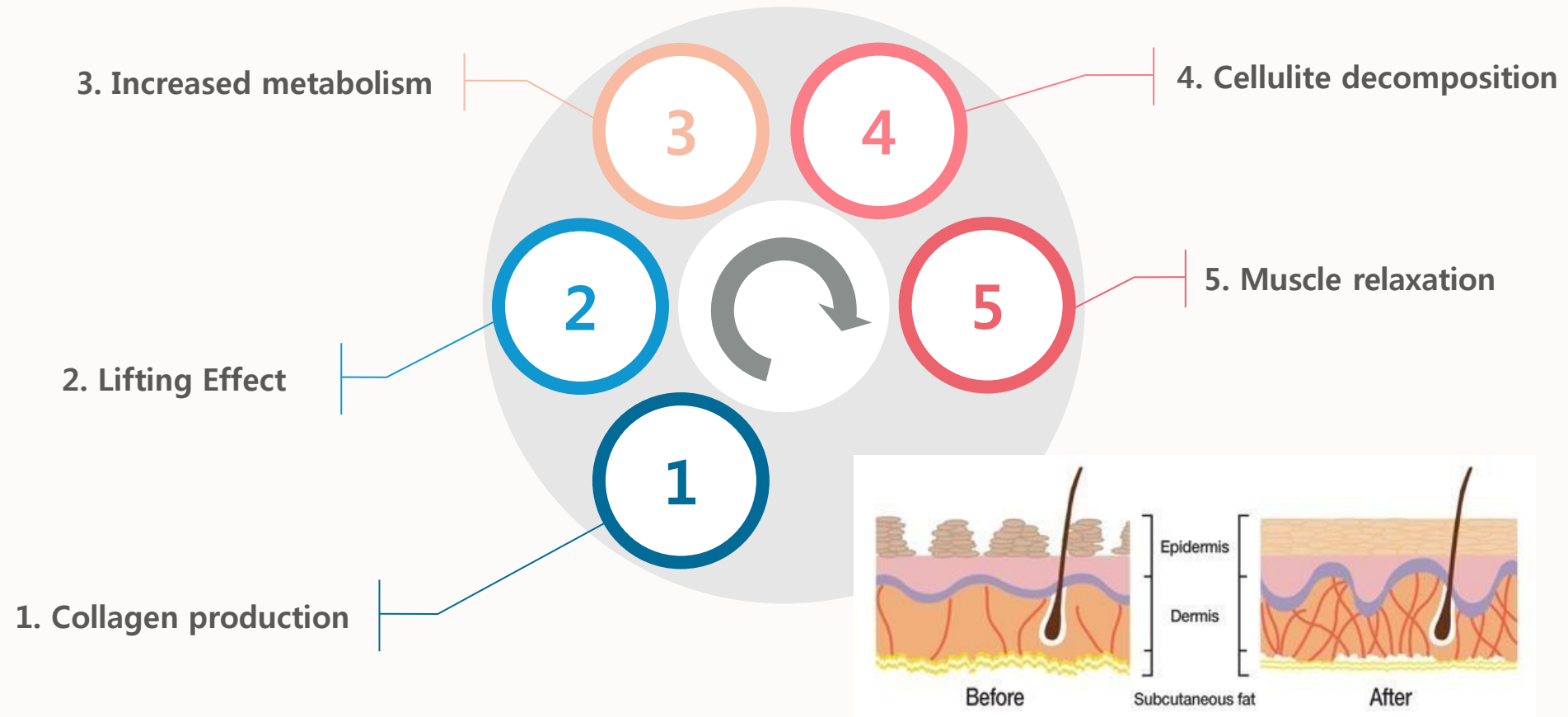
1.5kg

GD LIFT Specs

- Multi – directional barbs – more effective and even anchoring
- High tensile strength
 - > prevent getting cut while insertion
- Short procedure time
- Long lasting effects (About 1~2 years)
- Minimal tissue trauma
- Non-heat treated manufacturing method, maintains strength of threads

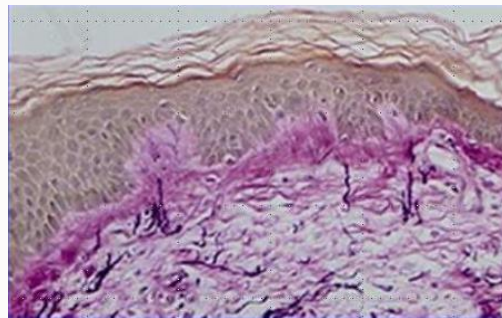
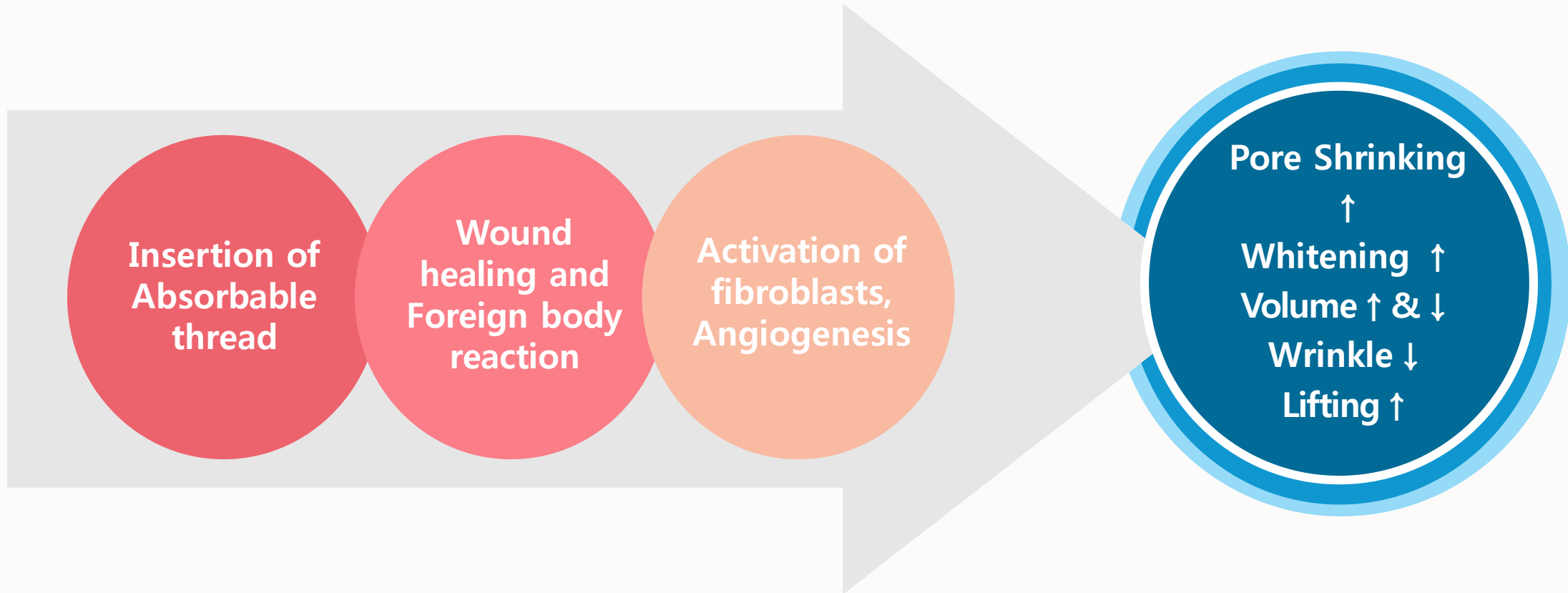
Type	No.	Needle Gage	Thread Length	Barb Direction	Needle Type	Package
PDO 	1	18G	100mm		 W Cannula	8ea/pack
	2		100mm		 L Cannula	
	3	19G	100mm			
	4		60mm			
	5	21G	60mm			
	6	23G	60mm			
	7	18G (Double Arm)	206mm			1ea/pack
	8		300mm			
	9		410mm			
	10	18G (Nose Thread)	65mm		 W Cannula	3ea/pack
PCL 	1	18G	100mm		 W Cannula	8ea/pack
	2	19G	60mm		 L Cannula	
	3	18G (Double Arm)	300mm			1ea/pack

PDO effect



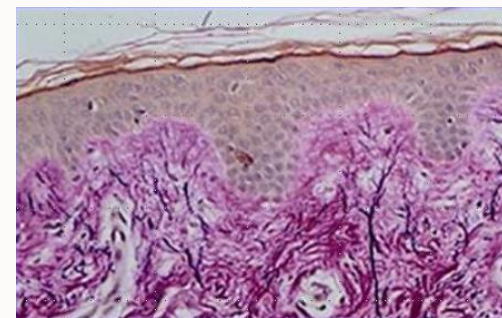
Thread insertion

Dermis – Subcutaneous tissue connection



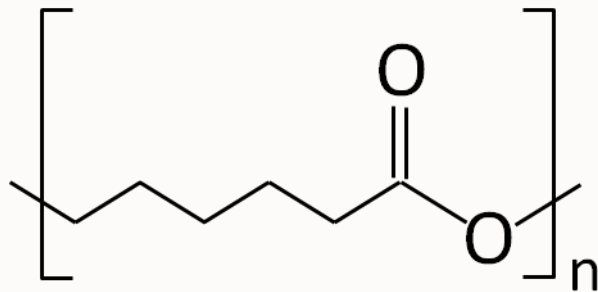
Before

vs



After

What is PCL?



PCL Structure

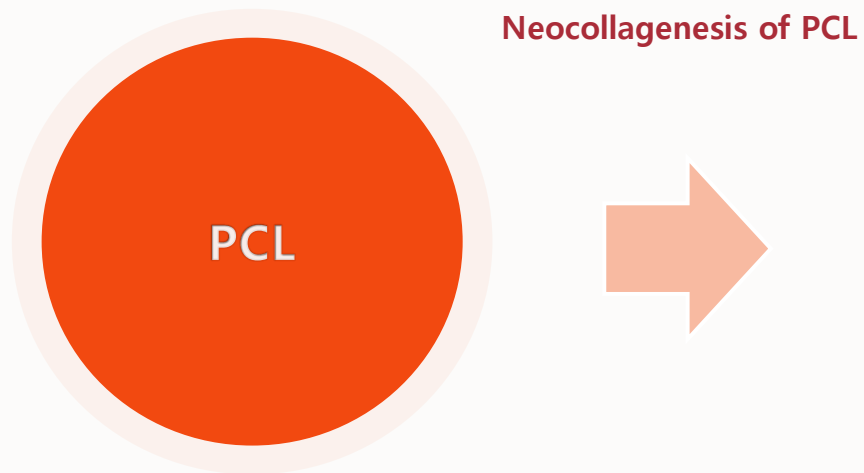
Polycaprolactone(PCL) is a biodegradable polyester with a low melting point around 60°C.

PCL is degraded by hydrolysis of its ester linkages in physiological conditions (such as in the human body) and has therefore received a great deal of attention for use as an implantable biomaterial.

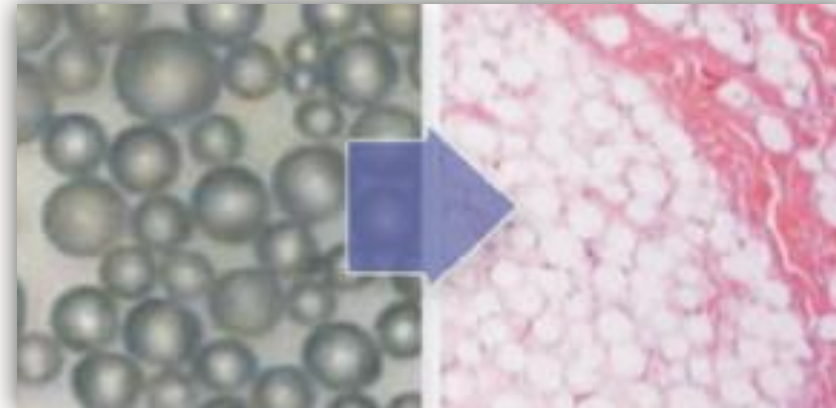
In particular, it is especially interesting for the preparation of long term implantable devices, owing to its degradation which is even slower than poly-L-lactide (PLLA).

Neocollagenesis

- ✓ PCL possesses an excellent and proven neocollagenesis ability
- ✓ PCL helps our skin to produce collagen which is responsible for skin resilience and regeneration due to its excellent characteristics



Polycaprolactone degraded **Neocollagenesis induced by PCL**



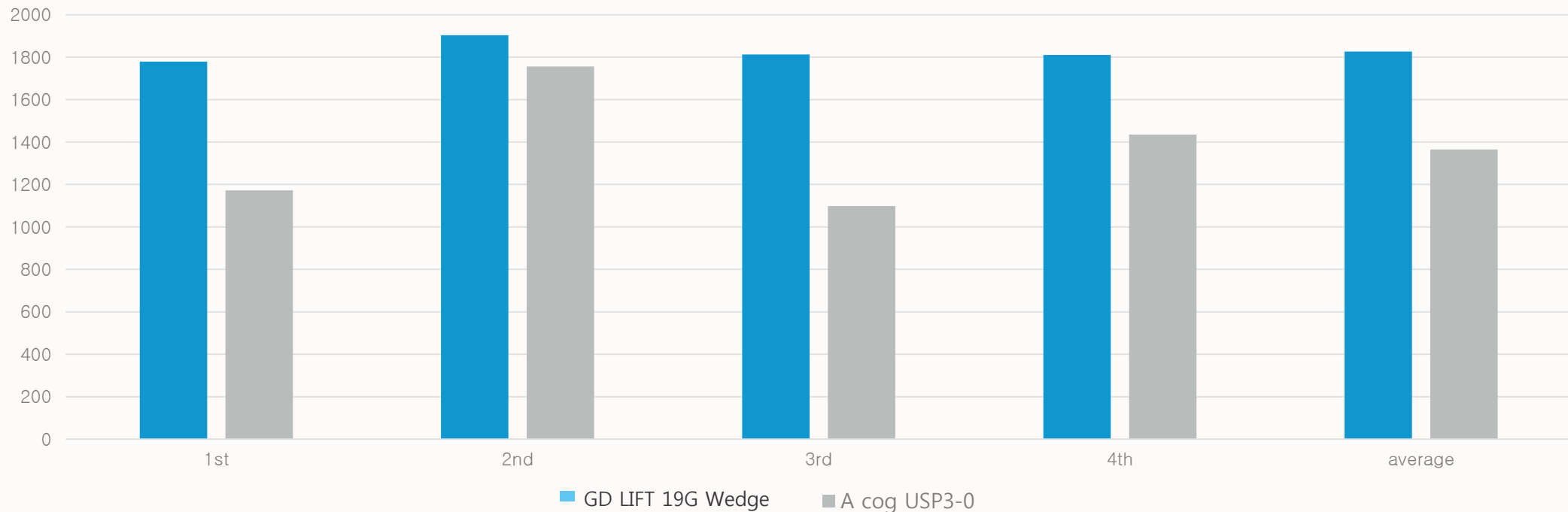
Light Microscopy picture

**Histology 2-weekpost
intra-dermal injection (rabbit)**



	Cutting thread1	Cutting thread2	Cutting thread3	Molding thread	Press Molding Wedge Thread
Tensile Strength	+	+	+++	+++++	+++++
Anchoring Strength	+	+	++++	+++++	+++++
Duration	+	+	+++	++++	+++++
Tissue Trauma	++	++	+++	+++++	++
Price	+	++	++++	+++++	++++
Time to Procedure	20min	20min	20min	30min	15min
Price of Procedure	+	+	++	++++	++++

GD LIFT 19G Wedge vs A Cog USP 3-0 Tensile test

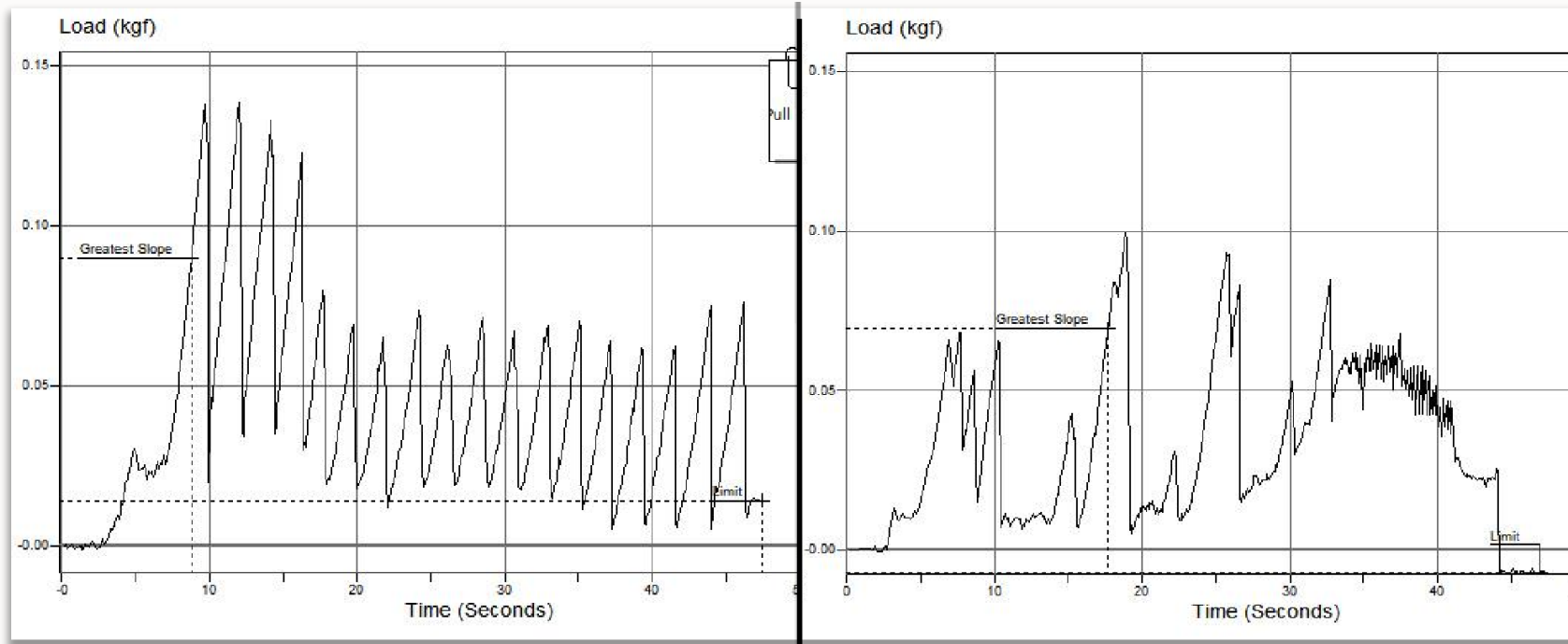


Cutting cog A USP 3-0 : Decrease in tensile strength due to cutting process and significant deviation

GD Lift Wedge 19G USP(3-0) : The tensile strength is much stronger and the deviation is small

* Based on our own test (Tensile Strength Machine 200mm/min)

GD LIFT 19G Wedge vs Cutting PDO Traction force test



<GD Lift Wedge(USP 3-0)>

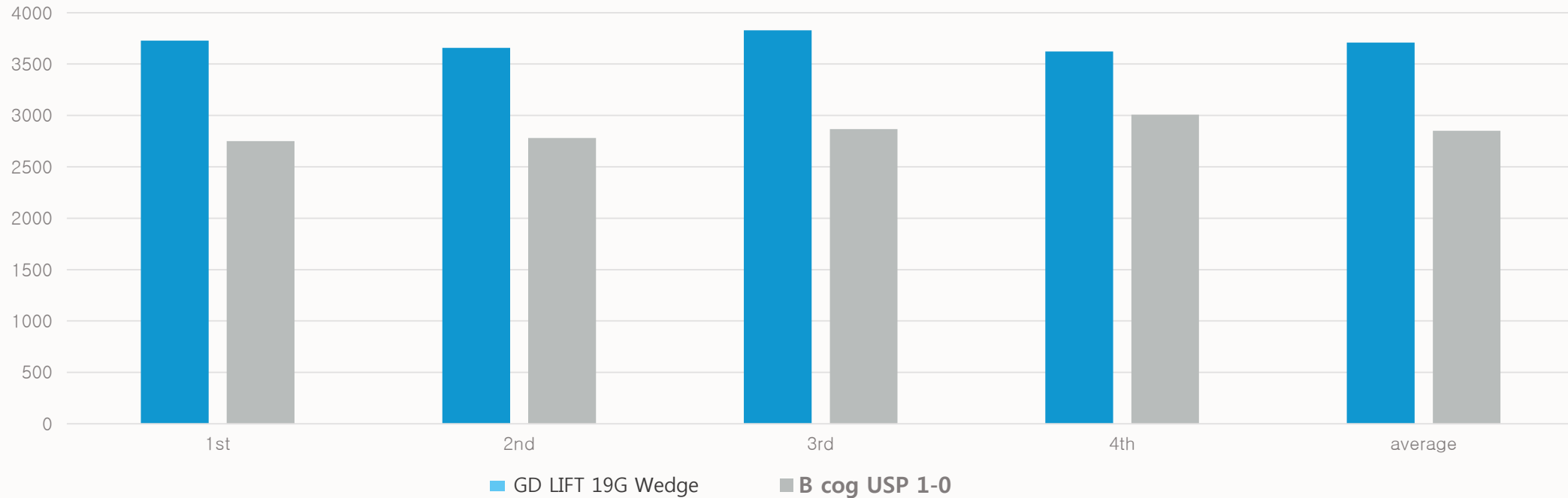
<Cutting Cog(USP 2-0)>

Method:
Pass the product through the TPU (polyurethane) film with good resilience at a slow speed and compare the resistance value of the Cog to the graph

GD Lift's wedge has a high and constant traction force, while a regular Cog has an irregular pattern

* Ref : Based on our own test

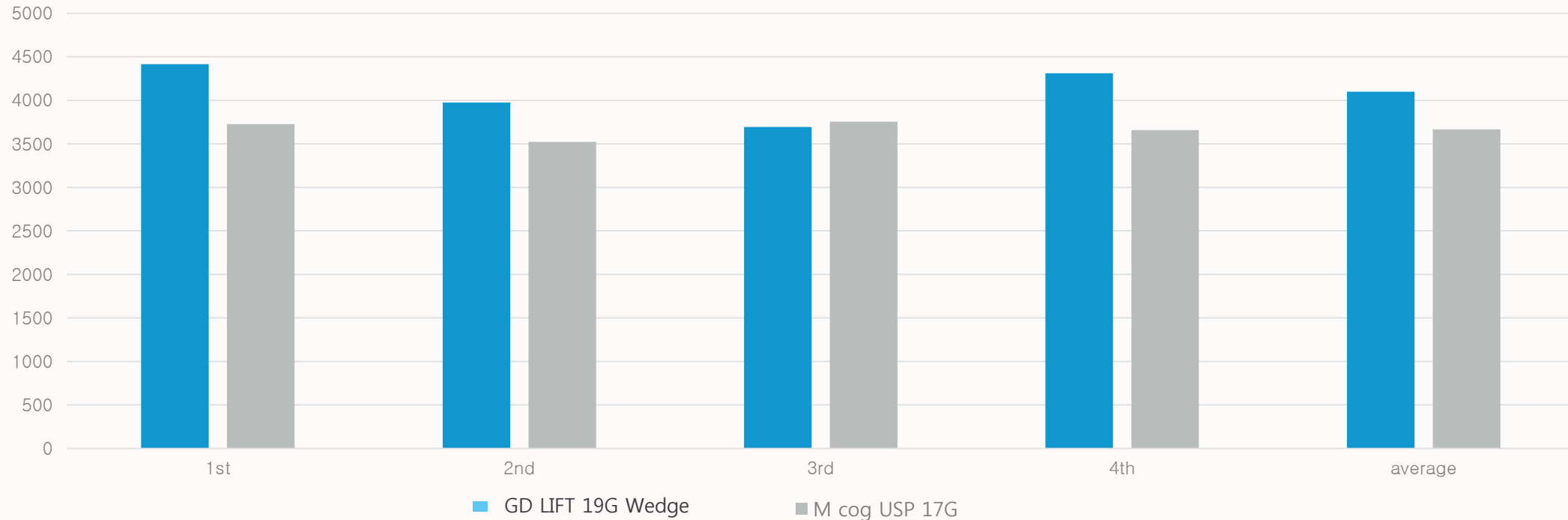
GD LIFT 18G Wedge vs B Cog USP 1-0 Tensile test



The USP 2-0 (0.35mm) GD Lift 18G Wedge has a much higher tensile strength than the USP 1-0 (0.45mm) B cog Thread

* Based on our own test (Tensile Strength Machine 200mm/min)

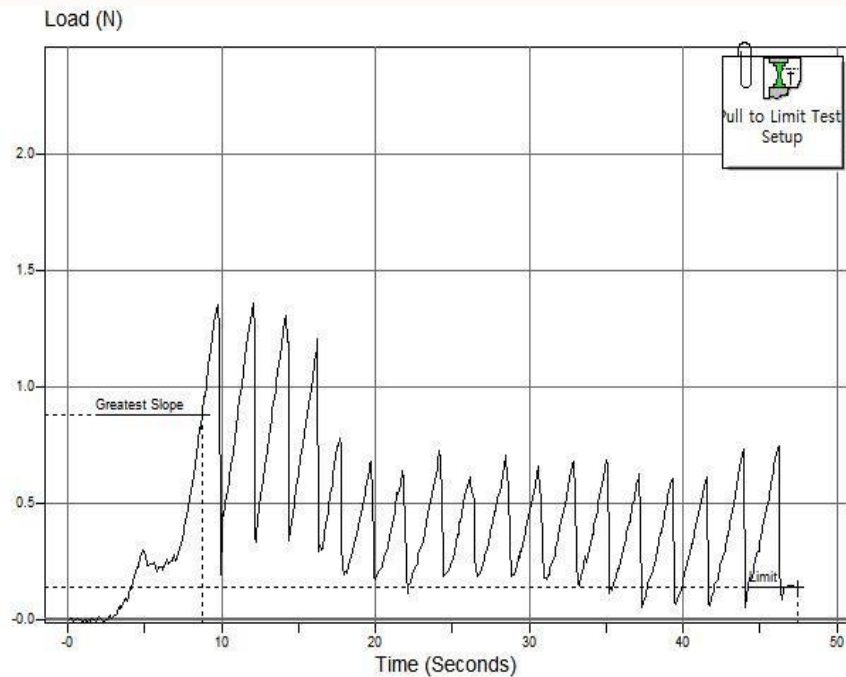
GD LIFT 18G Wedge vs M Cog Tensile test



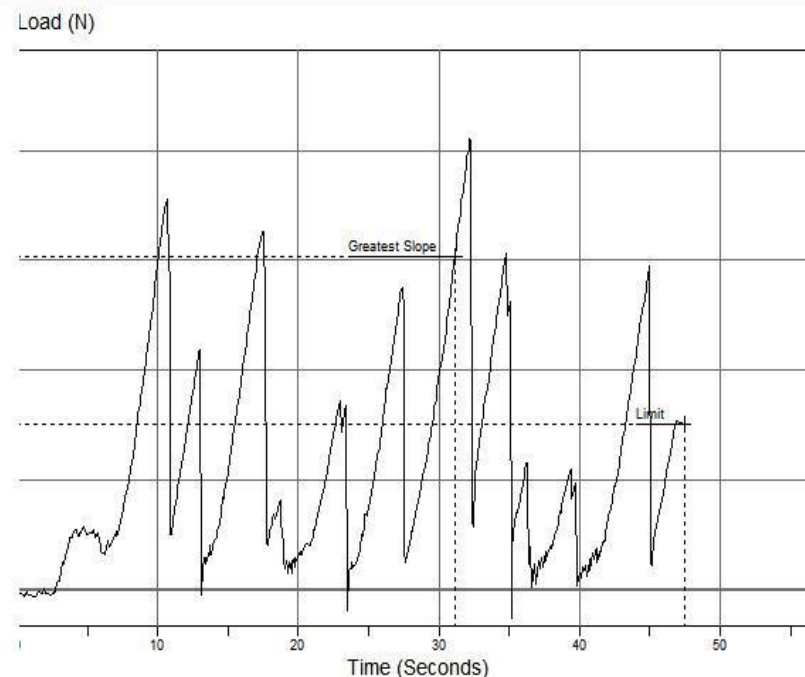
Compared to the two products, GD Lift 18G is thinner than Mcog and has a strong 5N tensile strength and less deviation

* Based on our own test (Tensile Strength Machine 200mm/min)

GD LIFT 18G Wedge vs M Cog Traction force test



<GD LIFT Wedge>



<M brand's MINI-S Cog>

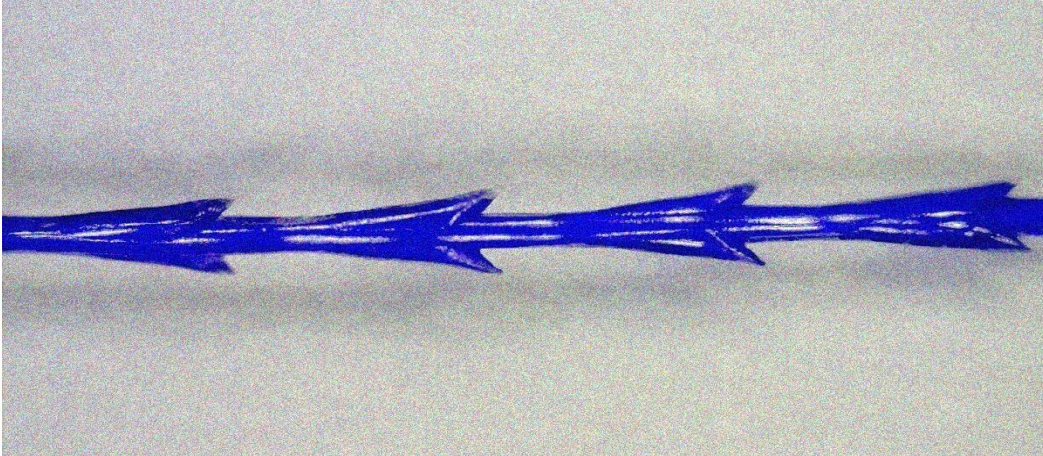
Method:

Pass the product through the TPU (polyurethane) film with good resilience at a slow speed and compare the resistance value of the Cog to the graph

M cog Product has high resistance value of individual Cog but irregular deviation occurs according to Cog shape. The individual values of the GD Lift Wedge are slightly lower but shows unified pattern.

* Ref : Based on our own test

GD LIFT vs M Cog Details



GD LIFT 18G 17cm

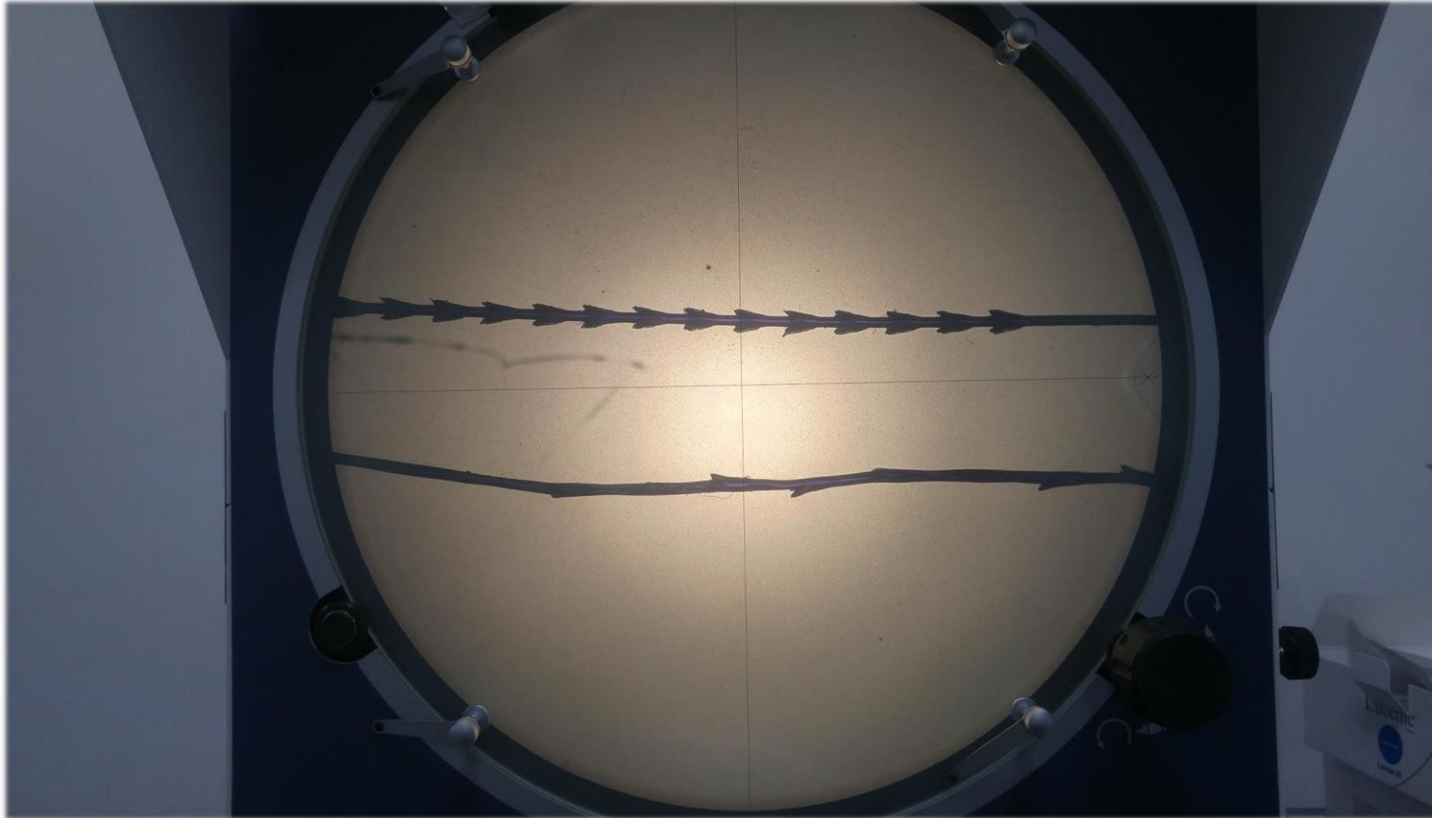
- Barbs are fine and symmetrical, Barbs are dense and well balanced.
- The thickness of the thread is relatively constant and straight.
- 6~8 barbs in 1cm of thread.



M brand's MINI-S 17G 17cm

- Barbs are very thick and distance between barbs are not constant.
- The thickness of the thread is not constant and does not extend straight.
- 1~2 barbs in 1cm of thread.

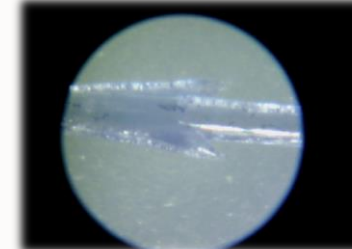
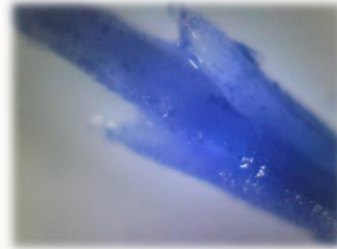
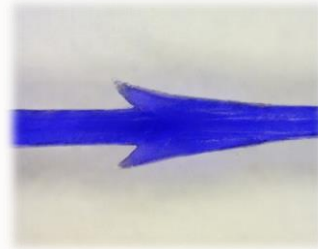
GD LIFT vs M Cog Details



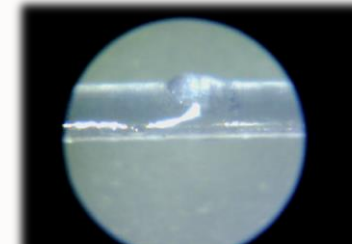
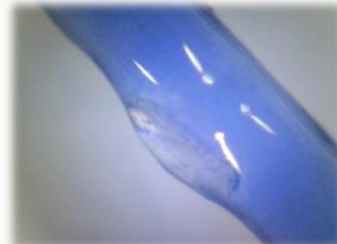
The thickness of GD LIFT thread is relatively constant and straight. But cutting thread has inconstant thickness and does not have strong barbs, so it would be difficult to have a even tensile force.

GD LIFT vs M Cog Details

**GD LIFT
USP 2-0**



**Cutting Thread
USP 1-0**



0 days

After 30 days

After 90 days

**Before & After
(1.5months later)**



Before & After (1.5months later)



Before & After (1.5months later)



Before & After (1.5months later)



[3. Certificate & Training] 1) Certificate

위대한 어정 새로운 도약



식품의약품안전평가원



수신자 (주)제이월드, 대표:장민서 귀하
(우373-801 충청북도 옥천군 옥천읍 의료단지길 79 101(옥천의료기기보육센터))
(경유)

제목 영문증명서 발급 [(주)제이월드]

귀 업체가 우리 처에 신청(접수번호 제20160158992호, 2016.06.22.)하신 의료기기
영문증명에 대하여 「의료기기법 시행규칙」 제63조제3항에 따라 붙임과 같이 발급합니다.

붙임 : 영문증명서 총1부(별도송부). 끝.

식품의약품안전평가원장


심사관 김윤영 연구관 강영규

평단의료기기과 전결 06.22
조양하

시행 첨 단 의 료 기 기 과 (2016.06.22) 접수 20160158992
-MFDS-2308

우 28166 충북 청주시 흥덕구 오송읍 오송생명5로 303 식품의약품안전처 별관 5층 / http://mfds.go.kr
첨단의료기기과

전화 043-230-0514 팩스 043-230-0500 / kyy74@korea.kr / 비공개(5)
국민충심의 서비스 정부로 모두가 행복한 대한민국을 만들어 갑니다.



Osong Health Technology Administration Complex,
187 Osongsaengmyeong2-ro, Osong-eup,
Heungdoek-gu,
Cheongju-si, Chungcheongbuk-do, Korea, 363-700
Tel: +82-43-719-1010, Fax: +82-43-719-1000

No. of Certificate : 20160158992 Date : 2016/06/22

Certificate of Free Sales

Exporting(certifying) country : Republic of Korea
Importing(requesting) country :

The Ministry of Food and Drug Safety, certifies that the following firm is authorized to
manufacture medical devices under the Medical Device Act and the following item(s) is
(are) permitted to be freely sold in domestic and overseas markets.

Manufacturer (Registered : 4271)
JWorld Co.,LTD

#101, 79, Uiriodanji-gil, Okcheon-eup, Okcheon-gun, Chungcheongbuk-do

Product-License No.	Classification
15-1636	Polydioxanone suture
15-1671	Polydioxanone suture

#Attached : List of Product Classification and Model

조양하

Director of High-Tech Medical Devices
Division
Department of Medical Device
Evaluation
National Institute of Food and Drug
Safety Evaluation
Ministry of Food and Drug Safety

[3. Certificate & Training] 1) Certificate - Patent

특허증

CERTIFICATE OF PATENT



특허 Patent Number	제 10-1581873 호
출원번호 Application Number	제 10-2015-0024523 호
출원일 Filing Date	2015년 02월 17일
등록일 Registration Date	2015년 12월 24일

발명의 명칭 Title of the Invention
의료용 봉합사 가압장치

특허권자 Patentee
(주)제이월드(154211-0*****)
충청북도 옥천군 옥천읍 의료단지길 60번지 (옥천전략클러스터센타207)

발명자 Inventor
장민서(800614-2*****)
서울특별시 양천구 목동남로4길 81, 104동 604호(신정동, 목동2차삼성래미안아파트)

위의 발명은 「특허법」에 따라 특허등록원부에 등록되었음을 증명합니다.
This is to certify that, in accordance with the Patent Act, a patent for the invention has been registered at the Korean Intellectual Property Office.




2015년 12월 24일

특허청장
COMMISSIONER,
KOREAN INTELLECTUAL PROPERTY OFFICE

최 동 규

등록번호 10-1581865

	<p>(19) 대한민국특허청(KR)</p> <p>(12) 등록특허공보(B1)</p>	<p>(45) 공고일자 2015년12월31일</p> <p>(11) 등록번호 10-1581865</p> <p>(24) 등록일자 2015년12월24일</p>
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<p>(51) 국제특허분류(Int. Cl.) D02J 3/02 (2008.01) A61B 17/04 (2008.01)</p> <p>(21) 출원번호 10-2014-0190141</p> <p>(22) 출원일자 2014년12월26일</p> <p>실사청구일자 2014년12월26일</p> <p>(58) 선행기술조사문헌 KR100803798 B1* JP08064898 A* KR101087377 B1* *는 심사관에 의하여 인용된 문헌</p>	<p>(73) 특허권자 (주)제이월드</p> <p>충청북도 옥천군 옥천읍 의료단지길 60번지 (옥천전략클러스터센타207)</p> <p>(72) 발명자 장민서 서울특별시 양천구 목동남로4길 81, 104동 604호 (신정동, 목동2차삼성래미안아파트)</p> <p>(74) 대리인 김경수</p>
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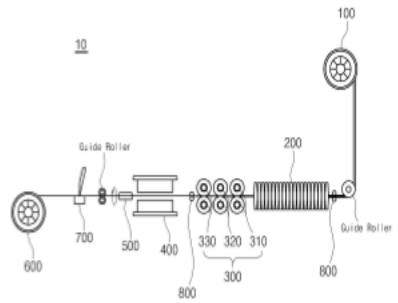
전체 청구항 수 : 총 8 항

(54) 발명의 명칭 의료용 봉합사 제조 장치 및 봉합사 제조 방법

(57) 요약

본 발명은 외과적 수술에 사용되는 봉합사 제조 장치 및 봉합사 제조 방법에 관한 것으로, 보다 상세하게는 봉합 수술 시 봉합사를 꿰뚫는 작업이 필요 없는 봉합사 제조 장치 및 봉합사 제조 방법에 관한 것으로, 본 발명에 따르면 봉합사 제조 장치 및 봉합사 제조 방법에 따르면 사출성형 공의 방법을 통해 얇은 벽형관성을 가지고 있는 프리폼을 사용하는 것보다 결정성이 낮아 유연성이 좋고 인장 강도 및 신축이 우수한 출성을 얻을 수 있는 장점을 가지고 있다.

대표도 - 도1





CE marking
(The fourth quarter of 2019)



PCL permission
(Ongoing)



Dr. Kim Hyeongju

Well Skin Clinic Medical Esthetics

• Education

Chungnam National University Bachelor's degree

Chungnam National University Master's degree

Chungnam National University Doctor's degree

• Major Professional Experiences

Dermatologist of The Korean Dermatological Association

Member of The Korean Dermatological Association

Member of The Korean Society for Laser Medicine and Surgery

Member of The Korean Atopic Dermatitis Association

Member of The Korean Society for Aesthetics and Cosmetology

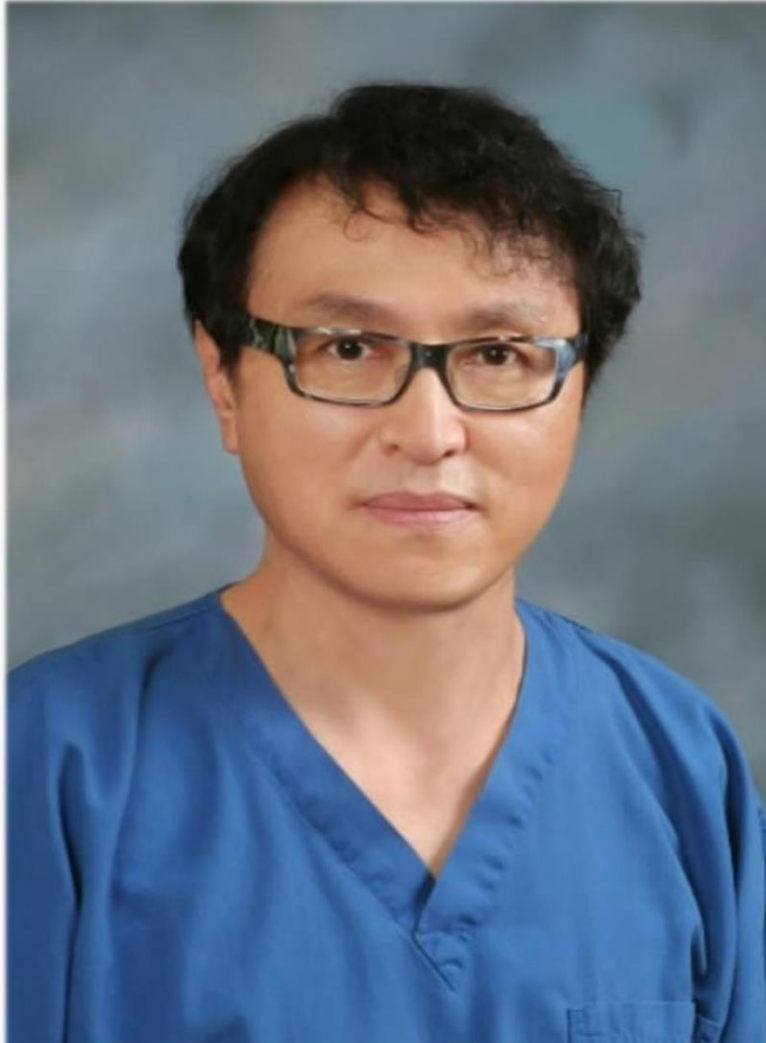
Member of The Korean Society for Aesthetic and Dermatologic Surgery

Ex-director of Catholic Dermatology

Guest Professor of Chungnam National University Hospital Dermatology

Ex-professor of Woosong University Department of Beauty and Skin Care

Professor of Chungnam National University Hospital Dermatology



Dr. Koh Seokshin
Television Medical Clinic

- **Education**

Chungnam National University Bachelor's degree
Chungnam National University Master's degree
Chungnam National University Doctor's degree

- **Major Professional Experiences**

Member of The Korean Society of Anesthesiologists

Member of The Korean Society for Preventive Medicine

Member of The Australasian Society of Aesthetic Plastic Surgeons

Member of The International Society of Aesthetic Plastic Surgeons

Medical Certification

Professional medical certificate (Anesthesiologist)

- ZENS International provides high quality products, cooperating with top-class doctors and operators
- All products are examined by these professionals, and it guarantees the quality of our products
- Related tutorial video will be provided when customers purchase our products
- If customers need more educations, we can provide additional trainings through our advisory doctors



Thank
YOU!

