strim health care

DERMO-ADIPOSE TISSUE EXPERTS

LIPOSUCTION & **FAT GRAFTING**

PRODUCT CATALOG

strim health care

STRIM HEALTHCARE is an exclusive distributor of THIEBAUD SAS, a French company established in 1936 that **manufactures exclusive single-use medical devices**, designed to increase the effectiveness of medical procedures and positively impact the results and, thereby, the patients' quality of life.

STRIM HEALTHCARE provide state-of-art medical devices for minimally invasive percutaneous procedures in Dermo-Adipose Tissue for improving **healing, repair, reconstruction** and **regeneration.**

PIONEERS

2005
First MedDev Company to bring single-use fat grafting cannulas to the market, thanks to 50 years of experience in the manufacture of needles and cannulas

2010
First Microfat grafting Kit: **St'rim**. First flexible and semi-flexible filler microcannulas into the aesthetics market: **pix'L**® & **pix'L**®**+**

2011
St'rim awarded *best innovative device* by the French Society of Plastic Surgery

2016
First Macrofat grafting Kit: **Macro St'rim**. An exclusive kit that is becoming a reference in breast fat grafting

2021
Novel, proven, and superior medical devices are ready to enrich a specialized Dermo-Adipose Tissue portfolio for improving clinical performance

EXPERTS

- **PATENTED TECHNOLOGY**
  With more than **20 patents** that protect the unique features of innovative devices, specifically designed, tested and manufactured to provide a complete answer to medical needs.

- **COMPLIANCE WITH THE NEW CE REGULATION**
  The new European MDR is a quality warranty for medical users and patients.

- **ISO QUALITY MANAGEMENT SYSTEM**
  Design and manufacture of medical devices according to the quality requirements of ISO 13485. Use of the best raw materials according the best manufacturing practices to provide state-of-the-art medical devices.

- **SINGLE-USE PHILOSOPHY**
  Single use medical devices eliminate related risk of cross-contamination and grant high technical level of functionality and efficiency.

- **SUS 304 STAINLESS STEEL**
  SUS 304 grade steel means very high-quality medical grade stainless steel with high corrosion resistance. The use of this steel allows our devices to achieve resistance, finishing, and polishing above market standards.

- **ACCURATE METRICS**
  Exclusive and accurate metrics provide technical support in medical decisions and enable accurate technical protocols that aim to achieve high-level and reproducible outcomes.

strim health care

INFILTRATION

SKATTER p.6

LIPOSUCTION

Dolfin's Intro p.8
DOLFIN p.10
DOLFIN PLUS p.11
DOLFIN PRO p.12

FAT GRAFTING

Intro p.14

HARVESTING

Picking's Intro p.18
PICKING p.20
PICKING II p.22

INJECTION

Fillin's Intro p.26
FILLIN RIGID p.28
FILLIN FLEXIBLE p.29

KITS

Intro p.32
ST'RIM p.34
MACRO ST'RIM p.36

ACCESSORIES

DOTO p.38

"Cannulas are not accessories. They are key tools."

Ali Mojallal
Plastic Surgeon, PhD
Univ. Lyon. France

SKATTER

INFILTRATION CANNULA

CLINICAL APPLICATION

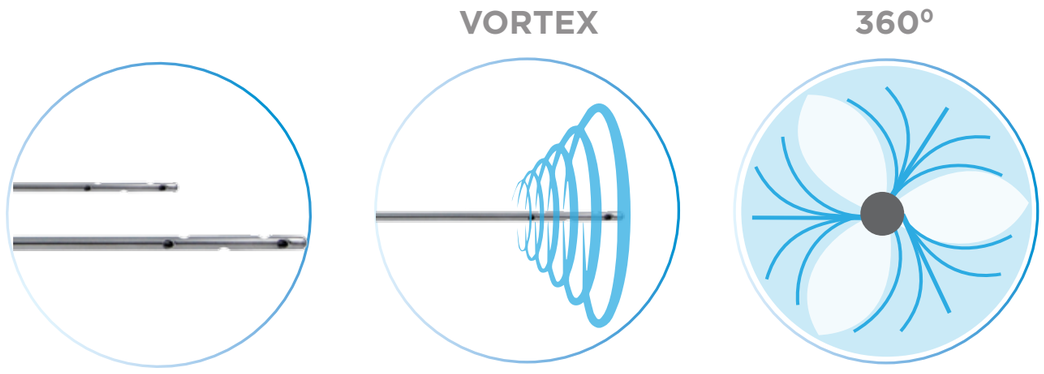
- Infiltration of Tumescent fluid for Local Anesthesia (TLA) and hydraulic matrix dissection prior to liposuction or to fat harvesting

COMPOSITION

- Stainless steel blunt cannula with Luer-lock (LL) hub

FEATURES

- Sterile, single-use cannula designed to maximize TLA infiltration in adipose tissue and therefore increase liposuction safety and efficiency
- An ultra-thin short cannula is available for small and sensitive zones.
- The multi-spiraled and diameters of the ports allow a **strong vortex effect** with a 360^{0} even distribution of TLA
- To be used with LL syringe
- Made of ultra-polished SUS 304 stainless steel with a superior mechanical resistance



METRICS

CANNULA		PORTS			TIP	η
mm ∅	G	⟷ mm	Nº	mm²	D / ◺	⇨
1,5	17	100	5	0,7	D	
2,0	14	150	5	1,2	D	
2,5	13	250	5	1,4	D	

REF	
DOIN1510-2	10
DOIN2015-2	10
DOIN2525-2	10

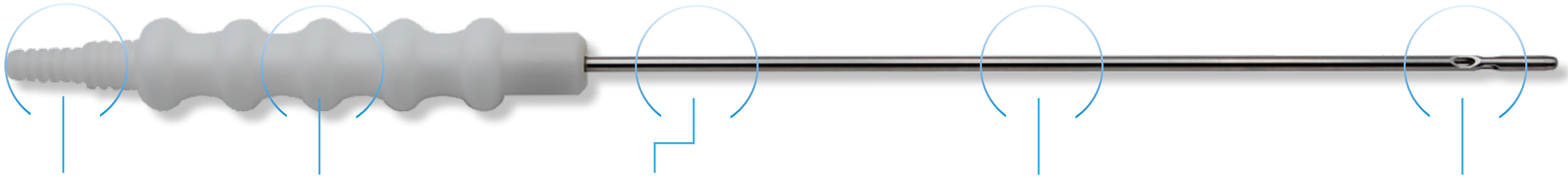
η -EFFICIENCY

- VERY HIGH
- HIGH
- MEDIUM
- LOW

INFILTRATION

DOLFIN'S
LIPOSUCTION CANNULAS

DESIGNED FOR CUSTOM BODY RESHAPING



Hose barb with 2 levels to provides **secure connection** to different suction tubing diameters.

Non-slip handle made of a light but highly resistant copolymer, designed to maintain **full grip and control**.

SUS 304 stainless steel for **superior mechanical resistance**.

Internal and external **ultra-polishing** to significantly **decrease the coefficient of friction** and optimize lipoaspirate uptake.

Patented port design **"guillotine"** with **sharp inner edges** to **facilitate tissue fragmentation** with back-forward technique.

3 MODELS

4 SUCTION EFFICIENCIES

- η VERY HIGH
- η HIGH
- η MEDIUM
- η LOW

SAFE

- Highly hardwearing
- Single-use
- Sterile
- CE

EASY TO USE

- **Ultra-light** (60-70g)
- Pre-fixed 150 mm handle
- Direct connection to a suction source through a tubing

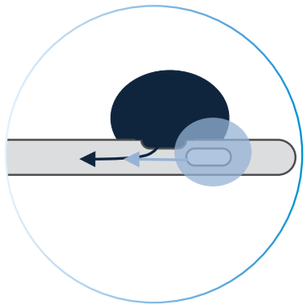
LIPOSUCTION

DOLFIN

LIPOSUCTION CANNULA

3 PORTS
Σ≈ 14-50 mm²

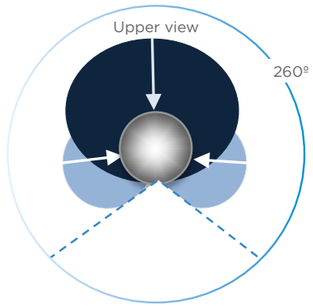
1 TOP +
2 LATERAL



MEDIUM
SUCTION **EFFICIENCY**
(avg.)

LOW
η MEDIUM
HIGH
VERY HIGH

260°
SUCTION **PRECISION**



3 suction sides
1 non-suction side

CANNULA			PORTS		TIP	η
mm ∅	G	mm ↔	Nº	mm²	D / ◺	
3,0	11	150	3	≈14	D	
3,0	11	250	3	≈14	D	
4,0	8	150	3	≈30	D	
4,0	8	250	3	≈30	D	
4,0	8	350	3	≈30	D	
5,0	6	250	5	≈50	D	
5,0	6	350	3	≈50	D	

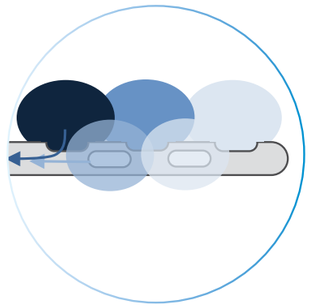
REF	
DOLF3150-2	10
DOLF3250-2	10
DOLF4150-2	10
DOLF4250-2	10
DOLF4350-2	10
DOLF5250-2	10
DOLF5350-2	10

DOLFIN PLUS

LIPOSUCTION CANNULA

7 PORTS
Σ≈ 40 mm²

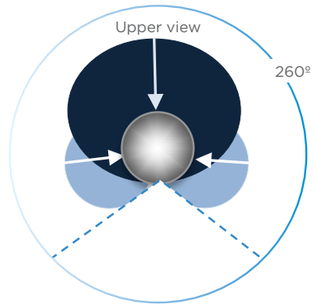
3 TOP +
2X2 LATERAL



HIGH
SUCTION **EFFICIENCY**
(avg.)

LOW
MEDIUM
η HIGH
VERY HIGH

260°
SUCTION **PRECISION**



3 suction sides
1 non-suction side

CANNULA			PORTS		TIP	η
mm ∅	G	mm ↔	Nº	mm²	D / ◺	
4,0	8	250	7	≈40	D	

REF	
DOPL4250-2	10

Σ –Total suction surface

DOLFIN PRO

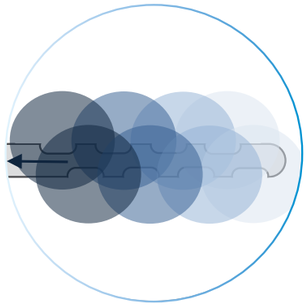
LIPOSUCTION CANNULA

8 PORTS
Σ≈ 50-70 mm²

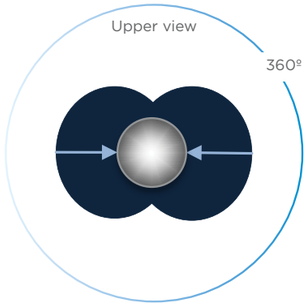
VERY HIGH
SUCTION **EFFICIENCY**
(avg.)

360°
FULL SUCTION

4+4
CONTRALATERAL



LOW
MEDIUM
HIGH
η VERY HIGH



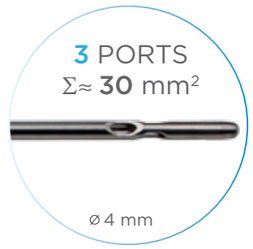
2 suction sides

CANNULA			PORTS		TIP	η	REF	
mm ∅	G	mm ↔	Nº	mm²	▱ / ◺			
4,0	8	250	8	≈50	▱	▬	DOLP4250-2	10
4,0	8	350	8	≈50	▱	▬	DOLP4350-2	10
5,0	6	250	8	≈70	▱	▬	DOLP5250-2	10
5,0	6	350	8	≈70	▱	▬	DOLP5350-2	10

DOLFIN'S

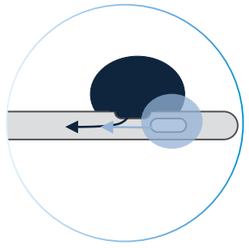
LIPOSUCTION CANNULAS

DESIGNED FOR CUSTOM BODY RESHAPING

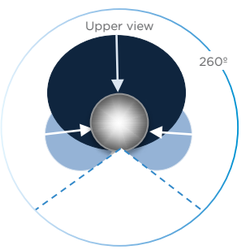


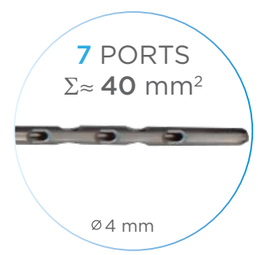
3 PORTS
Σ≈ **30** mm²

MEDIUM
SUCTION
EFFICIENCY
(avg.)



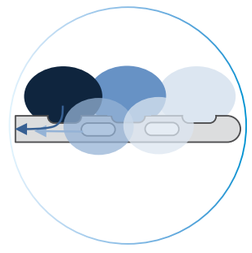
260°
SUCTION
PRECISION



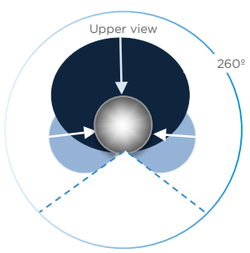


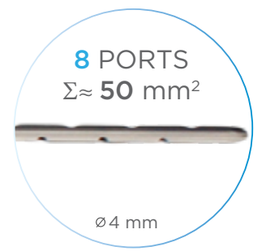
7 PORTS
Σ≈ **40** mm²

HIGH
SUCTION
EFFICIENCY
(avg.)



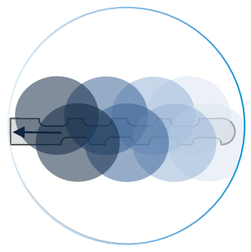
260°
SUCTION
PRECISION



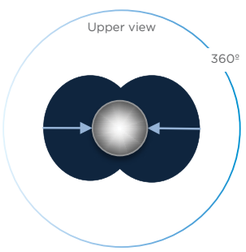


8 PORTS
Σ≈ **50** mm²

VERY HIGH
SUCTION
EFFICIENCY
(avg.)



360°
FULL
SUCTION



Σ –Total suction surface

FAT GRAFTING

Is a complex and very precise methodological surgical process by which fat is transferred from one site to another for long-lasting fat graft outcomes.

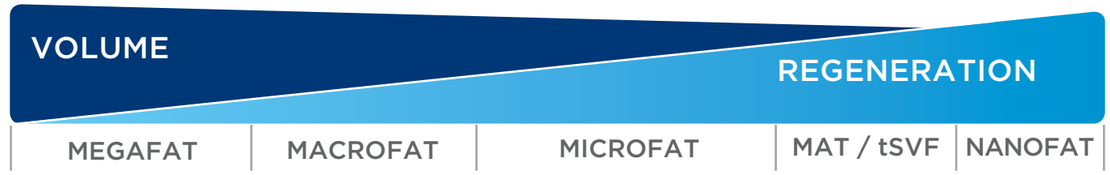
≠ LIPOSUCTION

DEDICATED PROTOCOLS

for improving fat viability and graft intake

CLINICAL GOAL

1. MEDICAL HISTORY, DONOR & RECIPIENT SITE EVALUATION, INTENDED OUTCOME
2. SELECTION OF FAT GRAFTING TYPE:



3. SELLECTION OF TECHNIQUES & TOOLS FOR:

1. HARVESTING

- Donor Site prep.
- Infiltration
- Depth
- Negative pressure
- Fat **SIZING** (cannulas)

2. PROCESSING

- Purification (washing, filtration, decanting...)
- Concentration (centrifugation)
- *Fragmentation*
- *Emulsification*

3. INJECTION

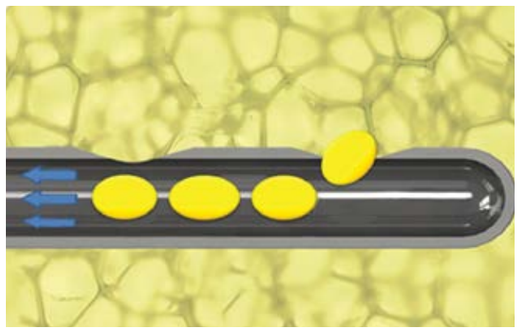
- Recipient site prep.
- Depth & dispersion
- Fibrosis management
- Positive pressure
- Fat **EQUALIZING** (cannulas)

FAT GRAFTING

SIZING

Def. Estimate or measure *something's dimension.*

A calibrated size of fat lobules is a critical factor for fat grafting.
Fat calibration occurs due to a **controled fragmentation of adipose tissue** produced by the harvesting cannula, that mostly depends on:



1. **Ports size,number and distribution**.
2. **Ports shape** (360°cutting edge).
3. Σ **Port surface** - Sum of all port suction surface (mm^2).
4. **Constant negative pressure** (300 mmHg).
5. **Regular soft tissue collagenous microstructure**.

Each fat grafting type requires a specifically calibrated fat size.
Our harvesting cannulas **perform an accurate fat sizing** due to our patented design and technology.

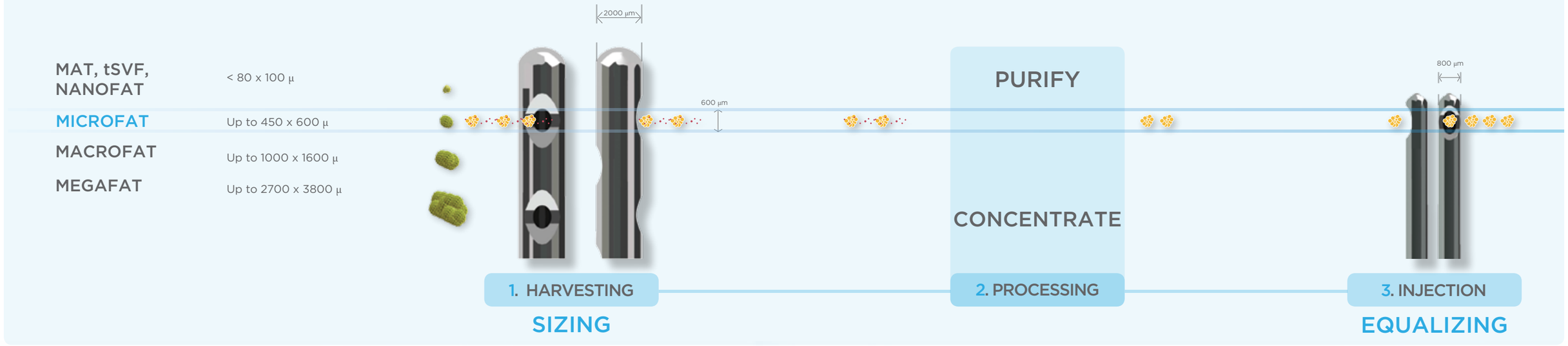
EQUALIZING

Def. To make equal; to compensate.

Once the harvested fat lobules being minimally processed (purified or concentrated), their sizes must match the diameter and port size of the injection cannula.
For each harvested fat sizing, there are specific equalizing injection cannulas that enable an **optimal fat flow injection**[2] for an **accurate fat injection technique**.

Clinical goals, techniques and tools cannot be dissociated to achieve an extremely efficient fat grafting.

Be estrim
PERFORM EXTREMELY *e*FFICIENT FAT GRAFTING



PICKING'S

HARVESTING CANNULAS FOR FAT GRAFTING

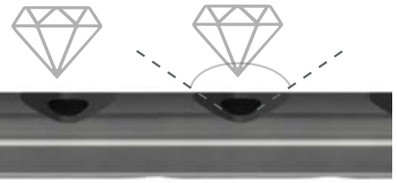
The Picking's range is designed to:

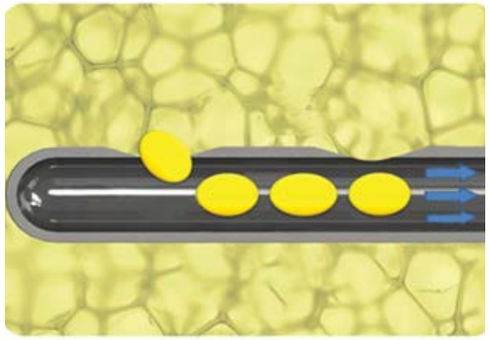
- Perform an accurate fat SIZING
- Perform an efficient **facial** and/or a **body reshaping**
- Use of the **maximal total suction surface area** (Σ mm^2) **for best harvesting efficiency**
- Work at the maximal flow with lower negative pressures
- Produce **less donor site trauma**[2] and **faster recovery**
- Decrease fat processing time and hardness

DIAMOND SHAPE PORT

PATENTED DESIGN & TECHNOLOGY

All Picking's cannulas have exclusive diamond shape ports with **360° cutting edge** that is responsible for fat lobules **SIZING**.





SIZING

The diamond shape port geometry is specifically designed to perform a systematic, controlled and reproducible **fat tissue fragmentation** with a low-negative pressure (300 mmHg) and back-forward technique in a regular soft tissue collagenous microstructure.

Thus, it enables the harvesting of fat lobules with a **calibrated size** for each **type of fat grafting**.

So, **each type of fat grafting requires a specific harvesting cannula**.

FAT GRAFTING HARVESTING

THE OUTCOMES OF FAT GRAFTING STARTS IN FAT HARVESTING

PICKING

HARVESTING CANNULA
FOR FAT GRAFTING

Female Luer-Lock (double thread)

Orientation mark (t) pointing the sides without ports

SUS 304 stainless steel for **superior mechanical resistance**

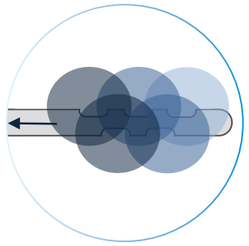
Internal and external **ultra-polishing** to significantly **decrease the coefficient of friction** and optimize lipoaspirate uptake

Diamond shape port with 360º cutting edges for fat tissue calibration

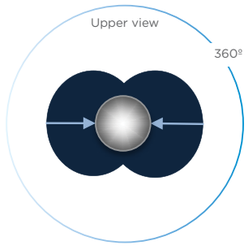
5 PORTS
3+2 CONTRALATERAL

Σ≈ **30** mm²

HIGH
HARVESTING EFFICIENCY



360°
HIGH FLOW



2 suction sides

TYPE

MEGAFAT

SIZING

Up to 2700 x 3800 µ

EQUALIZING

FILLIN 12G
(p.28)

VOLUME

SMALL harvesting.
Suction by **LL syringe**.

EFFICIENCY

- LOW
- MEDIUM
- η HIGH
- VERY HIGH

SAFETY

- Single-use
- Sterile
- CE

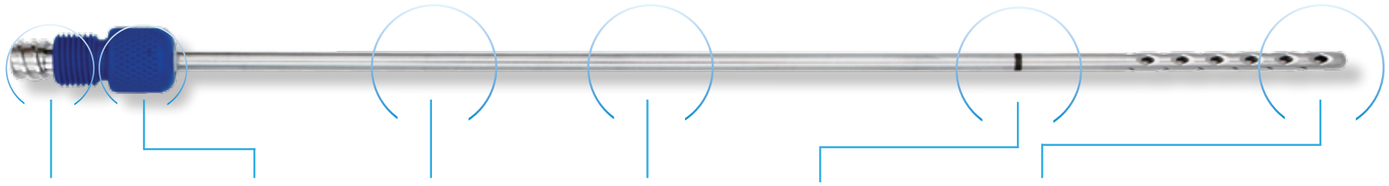
CANNULA			PORTS		TIP	η
mm ∅	G	mm ⟷	Nº	mm²		
3.5	10	180	5	6		

REF	
PICK3518-2	10

Σ –Total suction surface

PICKING II

HARVESTING CANNULA FOR FAT GRAFTING



1) Female Luer-Lock (triple thread)
2) Screw for the detachable handle DOTO (p.38)

Orientation mark pointing the sides without ports

SUS 304 stainless steel for **superior mechanical resistance**

Internal and external **ultra-polishing** to significantly **decrease the coefficient of friction** and optimize lipoaspirate uptake

Control mark to prevent vacuum loss or fat vaporization in a collection canister

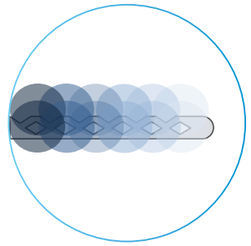
Diamond shape port with 360º cutting edges for fat tissue calibration

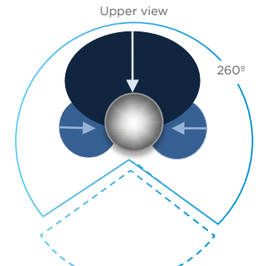
18 PORTS
6 PORTS x 3 SIDES

HIGH
HARVESTING EFFICIENCY

260°
PRECISION

$\Sigma \approx$ **30** mm^2





3 suction sides &
1 non-suction side to allow precise harvesting

TYPE

MACROFAT

SIZING

Up to 1000 x 1600 µ

EQUALIZING

FILLIN 14-17G
(p.28)

VOLUME

MEDIUM-LARGE
harvesting.
Suction by **LL syringe** or **liposuction pump.**

EFFICIENCY

η

- LOW
- MEDIUM
- HIGH
- VERY HIGH

SAFETY

- Single-use
- Sterile
- CE

CANNULA		PORTS			TIP	η
mm ∅	G	⟷ mm	Nº	mm²		
3.5	10	220	18	1.7		

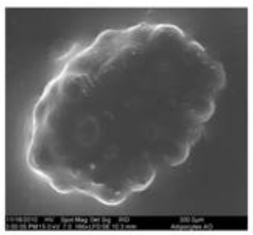
REF	
PICK352L-2	10

Σ - Total suction surface

Be estrim

PERFORM EXTREMELY EFFICIENT FAT GRAFTING

TYPE OF FAT GRAFTING	**SIZING** HARVESTING CANNULAS			**EQUALIZING** INJECTION CANNULAS	**KITS** HARVESTING & INJECTION CANNULAS
		η			
MEGAFAT	Up to 2700 x 3800 µ	HIGH	Picking	Fillin 12 G	—
MACROFAT	Up to 1000 x 1600 µ	HIGH	Picking II	Fillin 12 - 17G	Macro St'rim
MICOFAT	Up to 450 x 600 µ	MEDIUM	—	Fillin 18 - 21G	Strim Mini St'rim
MAT[1] tSVF[2] NANOFAT	< 80 x 100 µ	—	—	Fillin 23 - 25G	—



MICROFAT (166x)

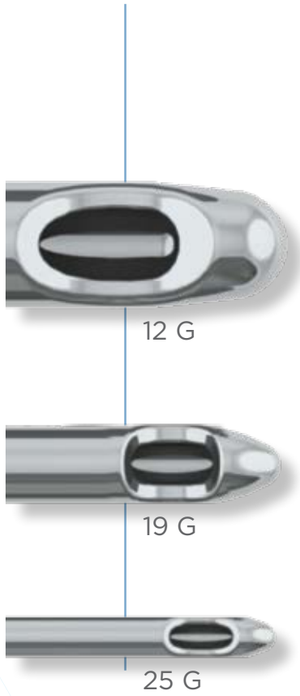
The spheres are calibrated and not deformable and are only intended to illustrate a hypothesis of an adipocyte lobule size based on data of the technical files of STRIM HEALTHCARE.

(1) Microfragmentated Adipose Tissue
(2) Stromal Vascular Fraction (tissue)

FILLIN'S

INJECTION CANNULAS FOR FAT GRAFTING

The Fillins's cannulas are designed to be:



SECURE

For patient: near eliminate the risk of intravascular injection and neurovascular injury within the areas of injection[4].
Single-use and sterile.
For Doctors: Female Luer-Lock connection with double locking threads.

COMPLETE

An exclusive range that provide **rigid,** and **flexible** cannulas enabling all possible treatment techniques for fat grafting.

GLIDING

Internal and external ultra-polishing treatment surface to significantly decrease the external (skin tissues) and internal (fat) coefficient of friction. Decrease the patient discomfort by enabling a less traumatic technique.

GUIDING

Side-port marking in the hub pointing the lateral port side.

PRECISE

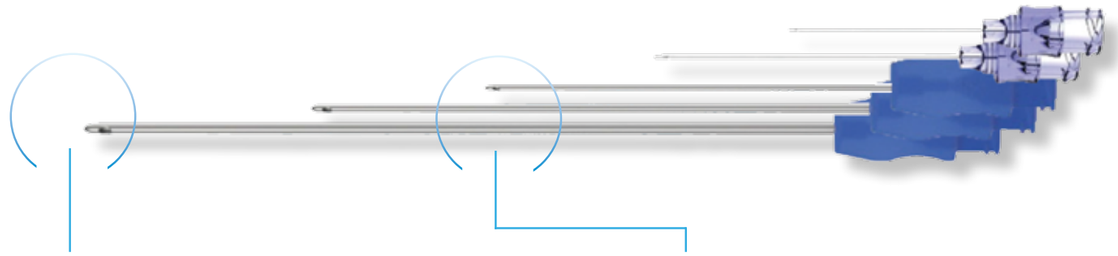
Tip with utmost distal lateral port with 90° flow orientation and precise fat placement.

POWERFUL

SUS 304 stainless steel for superior mechanical resistance.

MINIMAL INVASIVE

In 23G and smaller diameters, the use of thinner blunt-tipped ogive-style microcannulas near eliminate the risk of bleeding, ecchymosis and decrease tissue trauma and recovery time[4,5].



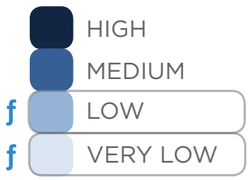
EFFICIENT

From one entry point and fanning technique (anterograde or retrograde serial threading injection technique), the cannula allows broad and multi-directional distribution of adipose tissue[4].
By matching the selected size of the harvested adipose tissue with the diameter and port of the injection cannula (EQUILIZING), the pliable fat tissue **flows easily at lower pressures, without clumping or undue resistance**, enabling efficient dispersion technique[2].

EQUALIZED

The injection cannula's match perfectly with the harvesting cannula's, to achieve **very low or low extrusion forces** during fat injection, avoiding cellular shear stress.

FILLIN'S extrusion forces ƒ



FAT GRAFTING
INJECTION

EQUALIZING THE HARVESTED ADIPOSE TISSUE

FILLIN

INJECTION CANNULA
FOR FAT GRAFTING

CLINICAL APPLICATIONS

- Designed to perform a lipofilling in **deep** and **subdermal** layers
- Equalized for:
    - **MEGAFAT** grafting (12G)
    - **MACROFAT** grafting (14-17G)
    - **MICROFAT** grafting (18G)

FEATURES

- **RIGID** cannulas

METRICS

CANNULA		PORTS		TIP	REF	
mm ∅	G	⟷ mm	mm²	▱ / ◺		
12	2,7	150	3	▱	F9027150-2	10
14	2,0	100	1.91	▱	F9020100-2	10
17	1,5	100	1.04	▱	F9015100-2	10
17	1,5	70	1.04	▱	F9015070-2	10
18	1,2	100	0,87	▱	F9012100-2	10
18	1,2	70	0.87	▱	F9012070-2	10

CLINICAL APPLICATION

- Designed to perform a lipofilling in **sub** and **intradermal** layers.
- Equalized for:
    - **MICROFAT** grafting (19-21G)
    - Regenerative treatments with **MAT**, **tSVF** and **Nanofat** (23-25G)

FEATURES

- **FLEXIBLE** cannulas from the base
- Improved mechanical resistance with high flexibility

METRICS

CANNULA		PORTS		TIP	REF	
mm ∅	G	⟷ mm	mm²	▱ / ◺		
19	1,0	100	0,42	▱	F9010100-2	10
19	1,0	70	0,42	▱	F9010070-2	10
21	0,8	80	0,2	▱	F9008080-2	10
21	0,8	60	0,2	▱	F9008060-2	10
21	0,8	40	0,2	▱	F9008040-2	10
23	0,6	50	0,14	▱	F9006050-2	10
25	0,5	40	0,09	▱	F9005040-2	10
25	0,5	25	0,09	▱	F9005025-2	10

Be estrim

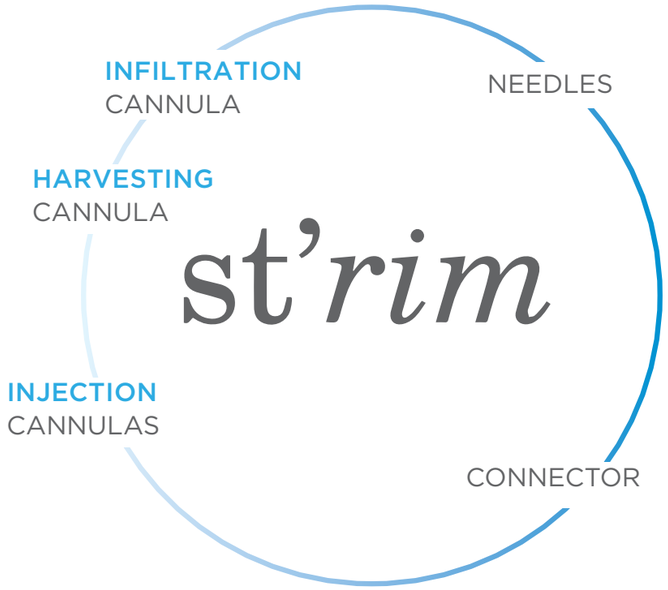
PERFORM EXTREMELY EFFICIENT FAT GRAFTING

TYPE OF FAT GRAFTING	**SIZING** HARVESTING CANNULAS			**EQUALIZING** INJECTION CANNULAS			**KITS** HARVESTING & INJECTION CANNULAS
	η			RANGE	∅ mm	f	
MEGAFAT	Up to 2700 x 3800 µ	HIGH	Picking	12 G	2,7	VERY LOW	—
MACROFAT	Up to 1000 x 1600 µ	HIGH	Picking II	12G 14G 17G	2,7 2,0 1,5	VERY LOW VERY LOW LOW	Macro St'rim
MICROFAT	Up to 450 x 600 µ	MEDIUM	—	18G 19G 21G	1,2 1,0 0,8	VERY LOW VERY LOW LOW	St'rim Mini St'rim
MAT[1] tSVF[2] NANOFAT	< 80 x 100 µ	—	—	23G 25G	0,6 0,5	VERY LOW LOW	—

The spheres are calibrated and not deformable and are only intended to illustrate a hypothesis of an adipocyte lobule size based on data of the technical files of STRIM HEALTHCARE.

(1) Microfragmentated Adipose Tissue
(2) Stromal Vascular Fraction (tissue)

360° FAT GRAFTING



- St'rim kits are designed for an efficient fat **SIZING** and **EQUALIZING**
- Include **INFILTRATION**, **HARVESTING** and **INJECTION** cannulas
- St'rim enables to **volumizing** with deep injection trough the thickest and longer equalized injection cannula
- St'rim enables **tissue regeneration** with superficial injection through the thinnest equalized injection cannula

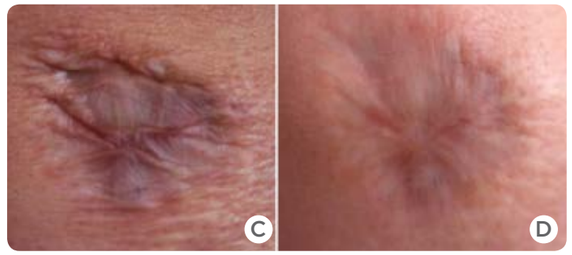
SCIENTIFIC EVIDENCE

- **Significantly higher viability** and migration of isolated ASCs comparing with conventionally obtained lipoaspirates[7] and adipocytes maintains a **normal histologic structure**[8].

- Fat injection with St'rim microcannulas extends the application of lipostructure to the **superficial layers of the skin** and its minimal invasive properties provide small volume enhancement and **less trauma** than with a 17 G cannula as per the classic technique.

- St'rim cannulas may be more suitable for **regenerative approaches**[7] and have brought improvements in the management of pathologies which were until now difficult to perform with **satisfactory results**[8]:

A –Before scar treatment with St'rim Microfat grafting
B -18 months after 4 cc injection of St'rim Microfat

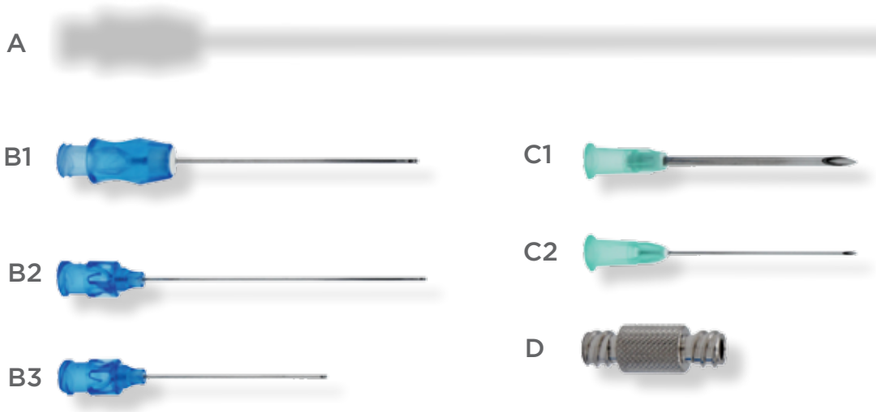


B –Before scar treatment with Microfat grafting with St'rim
C -28 months after 1cc injection of St'rim Microfat

FAT GRAFTING KITS

st'rim

MICROFAT GRAFTING KIT
INFILTRATION | HARVESTING | INJECTION



CLINICAL APPLICATIONS

- **Microfat grafting**:
  Skin rejuvenation and volumizing for face,hands, depressed scars and other small lipoatrophic areas
- **Small volumes (<50 ml)**

COMPOSITION

A. 1u. Microfat harvesting cannula (p.35)
B. 3u. Injection cannulas Fillin (p. 29)
C. 2u. Needles
D. 1u. Female/Female Luer-Lock connector

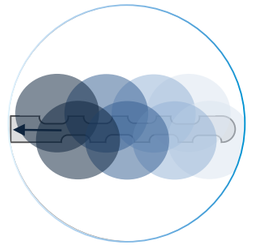
FEATURES

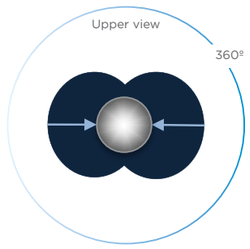
- Sterile and single-use
- Comprehensive kit for a 360⁰ Microfat grafting
- Enables a reproducible technique
- Designed to **BE eSTRIM** efficient:
  - 1 harvesting cannula to perform an accurate fat SIZING
  - 3 EQUALIZING injection cannulas with an optimal fat flow injection for deep and superficial treatments
  - Different options of harvesting cannula lengths for different anatomical donor sites
  - 2 in 1: The harvesting is also the infiltration cannula
  - To be used with LL syringes
  - See all features of Fillin (p.28)

2 PORTS CONFIGURATIONS
St'rim - 8 ports
Mini St'rim - 16 ports

360° HIGH FLOW
St'rim - 2 suction sides
Mini St'rim - 4 suction sides

MEDIUM HARVESTING EFFICIENCY





St'rim Σ≈ **8** mm²
Mini St'rim Σ≈ **16** mm²

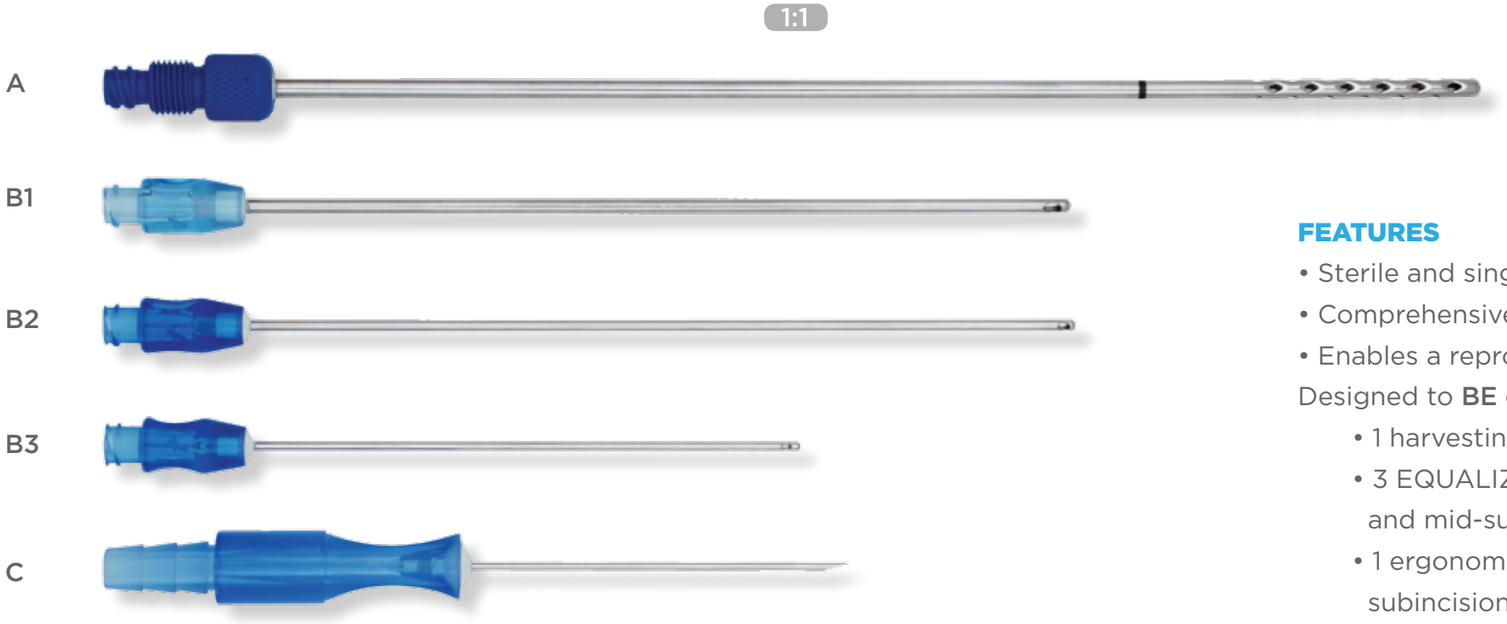
	A	B1	B2	B3	C1	C2
∅	2,0	19G	21G	21G	14G	21G
⟷ mm	130	50	60	40	40	40
	90	50	60	40	40	40
	70	50	60	40	40	40
TIP						

Σ –Total suction surface

St'rim	REF	PICS2130-2	5u.
Mini St'rim	REF	PICS2090-2	5u.
Mini St'rim	REF	PICS2070-2	5u.

macro st'rim

MACROFAT GRAFTING KIT
HARVESTING | INJECTION | SUBINCISION



CLINICAL APPLICATION

- **Macrofat grafting**:
  - Body contouring, augmentation, hybrid augmentation, lipoatrophy, reconstruction, tissue regeneration
- **Medium-Large volumes (<200 ml)**

COMPOSITION

A. 1u. Macrofat harvesting canula Picking II (p. 22, 23)
B. 3u. Injection cannulas Fillin (p. 28)
C. 1u. Needle.

FEATURES

- Sterile and single-use
- Comprehensive kit for a 360° Macrofat grafting
- Enables a reproducible technique

Designed to **BE eSTRIM** efficient:

- 1 harvesting cannula to perform an accurate fat SIZING
- 3 EQUALIZING injection cannulas with an optimal fat flow injection for deep and mid-superficial treatments
- 1 ergonomic 70mm long needle to open the entry-point and perform subincision
- To be used with LL syringes or the detachable handle DOTO (p.38) connected to a liposuction pump
- See all features of Picking II (p. 22, 23) and Fillin (p.28)

	A	B1	B2	B3	C
∅	3,5	12G	14G	17G	17G
⟷ mm	220	150	150	100	70
TIP	▱	▱	▱	▱	◺

REF PICS3523-2 5u.

DOTO

DETACHABLE HANDLE FOR PICKING II / MACRO ST'RIM

CLINICAL APPLICATIONS

For direct connection of Picking II or Macro St'rim harvesting cannula to a suction source through a tubing

COMPOSITION

Copolymer and stainless steel

FEATURES

- Sterile and single-use
- Detachable
- Non-slip design to maintain full grip and directional control
- Ergonomic for all hand sizes
- Ultra-light (40g)
- Highly resistance
- Hose barb with 2 levels to provides secure connection to different suction tubing diameters

∅	4,5	REF	DOTO0155-2	10u.
⟷ mm	150			

FAT GRAFTING ACCESSORIES

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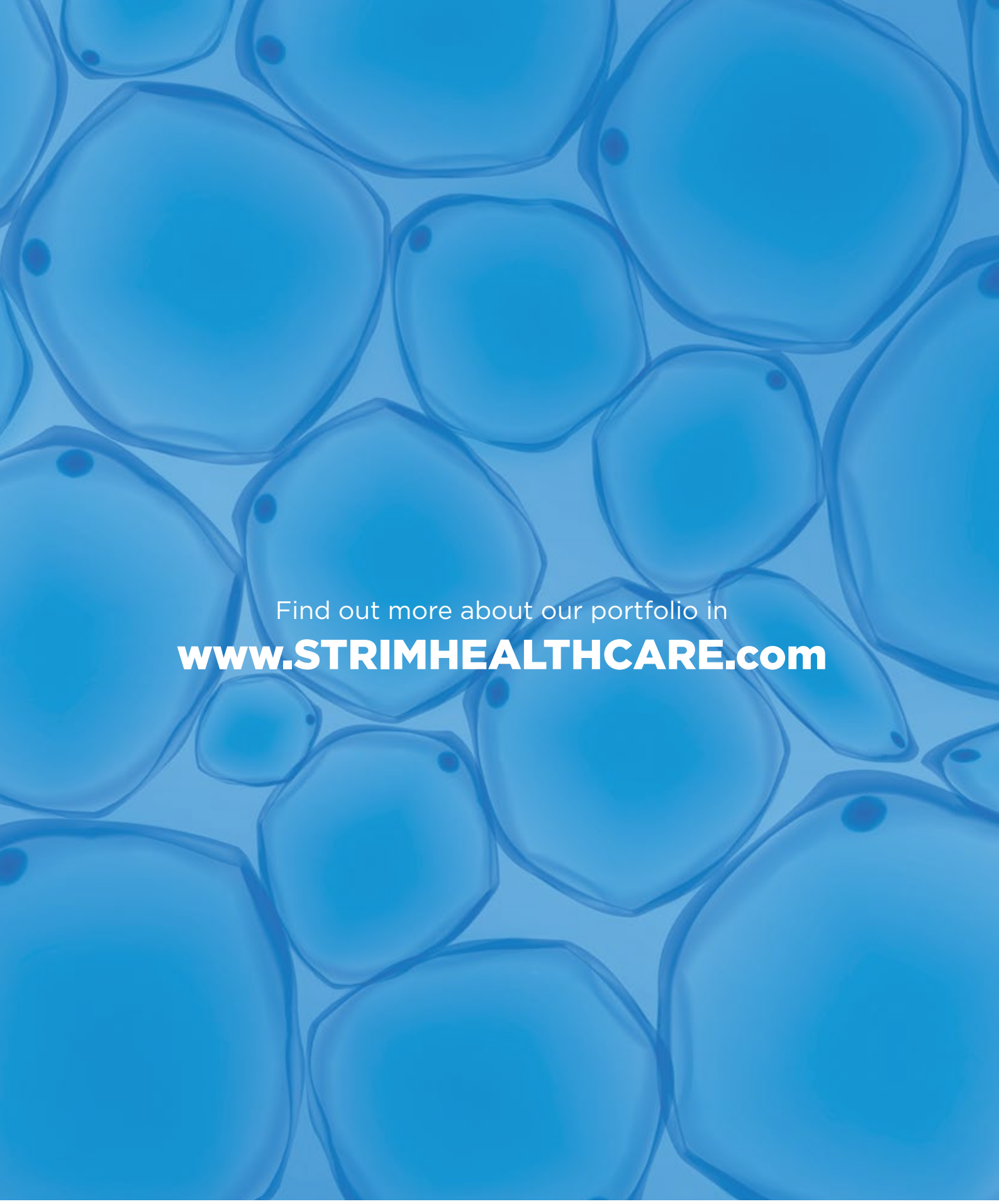

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