HYAL SKIN

BE NATURAL BEAUTY

The PINE SLIM

THE PINE AMPOULE SOLUTION FOR FACE & BODY

Gift from nature

Comfortable and healthy

"Slimming care" with **natural ingredients**

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: EFFECT OF

The PINE SLIM

lipase activity

Separate and send out the fat cell

Skin regeneration

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"Healthier! Slimmer!
Maintain even skin elsticity!"

Contouring with natural ingredients

Pineapple Extract

Contains bromelain, a fat-dissolving enzyme,
which helps gently break down fat

: Natural

Ingredients

Ananas Sativus Extract

Pineapple extract is also a natural ingredient that helps **soothe and moisturize the skin and break down fat.**

Chamomilla Recutita Extract

A natural ingredient extracted from the matricaria flower (chamomile) has skin-soothing and **anti-inflammatory effects.**

Bromelain

Bromelain is a **protein-decomposing enzyme** extracted from pineapple. Mainly used to promote **fat decomposition** and digestion.

Lecithin

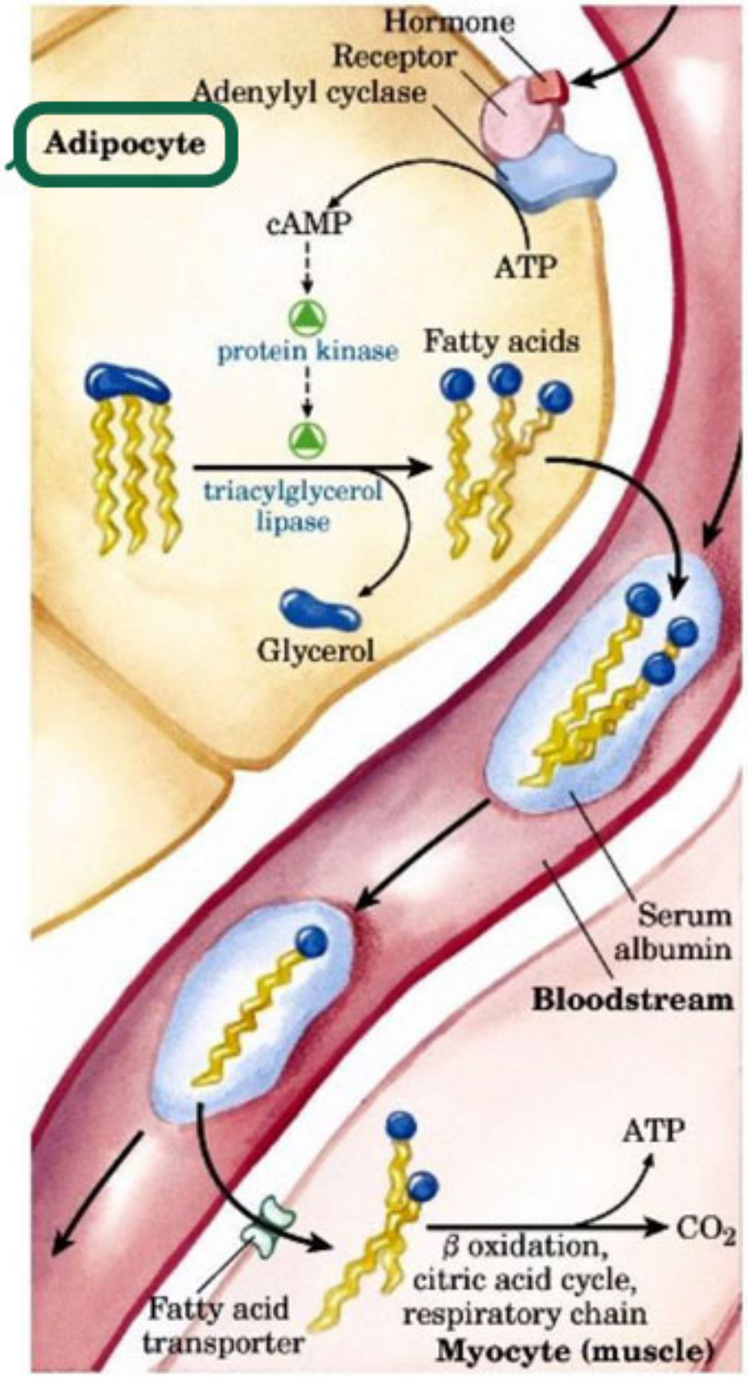
Lecithin acts as a natural emulsifier that improves cosmetic formula stability and texture. It enhances skin barrier function, moisturization, and the delivery of active ingredients.

*Limited to raw material properties.

: How The PINE SLIM

Treatment works

Bromelain ----- Lecithin ----- VITAMIN B2



01 Bromelain (pineapple extract)

Works as a lipolytic enzyme, it promotes the breakdown of body fat and helps remove impurities from the body.

02 Lecithin

Lecithin stabilizes formulations, strengthens the skin barrier, enhances moisturization, and improves the delivery of active ingredients.

03 Riboflavin (Vitamin B2)

A vitamin that contributes to cellular energy production, it also helps break down fat while adding vitality and energy to the skin.

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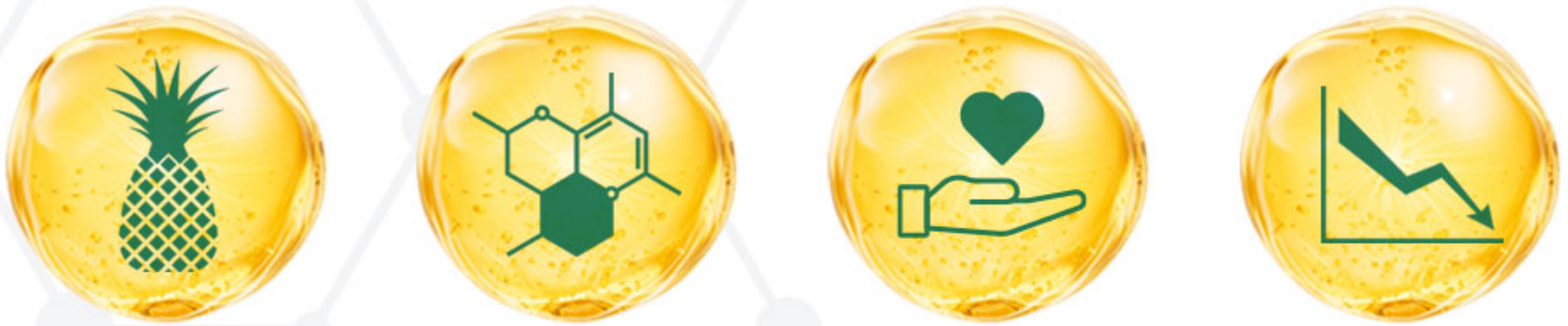
:The PINE SLIM

COMPONENTS

Bromelain



Proteolytic enzymes contained in pineapple

Fat decomposition effect

Inflammation treatment and wound recovery

Reduced swelling, reduced pain

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: WHAT IS BROMELAIN?

01 **Bromelain** is a powerful digestive enzyme commonly found and extracted from the fruit, leaves, and stems of pineapples.

02 All crude papaya latex exhibits proteolytic, lipolytic and transesterifying activities.

03 **Bromelain** plays a role in many physiological processes and may also influence disease processes.

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: EFFECT OF
BROMELAIN

Inhibition of Adipogenesis and Induction of Apoptosis and Lipolysis by Stem Bromelain in 3T3-L1 Adipocytes

Sandeep Dave, Naval Jit Kaur, Ravikanth Nanduri, H. Kitdorlang Dkhar, Ashwani Kumar, Pawan Gupta*

Institute of Microbial Technology (CSIR), Chandigarh, India

Abstract

PLoS One, 2012;7(1):e30831

The phytotherapeutic protein stem bromelain (SBM) is used as an anti-obesity alternative medicine. We show at the cellular level that SBM irreversibly inhibits 3T3-L1 adipocyte differentiation by reducing adipogenic gene expression and induces apoptosis and lipolysis in mature adipocytes. At the molecular level, SBM suppressed adipogenesis by downregulating C/EBPα and PPARγ independent of C/EBPβ gene expression. Moreover, mRNA levels of adipocyte fatty acid-binding protein (ap2), fatty acid synthase (FAS), lipoprotein lipase (LPL), CD36, and acetyl-CoA carboxylase (ACC) were also downregulated by SBM. Additionally, SBM reduced adiponectin expression and secretion. SBM's ability to repress PPARγ expression seems to stem from its ability to inhibit Akt and augment the TNFα pathway. The Akt–TSC2–mTORC1 pathway has recently been described for PPARγ expression in adipocytes. In our experiments, TNFα upregulation compromised cell viability of mature adipocytes (via apoptosis) and induced lipolysis. Lipolytic response was evident by downregulation of anti-lipolytic genes perilipin, phosphodiestersae-3B (PDE3B), and GTP binding protein $G_i\alpha_1$, as well as sustained expression of hormone sensitive lipase (HSL). These data indicate that SBM, together with all-trans retinoic-acid (atRA), may be a potent modulator of obesity by repressing the PPARγ-regulated adipogenesis pathway at all stages and by augmenting TNFα-induced lipolysis and apoptosis in mature adipocytes.

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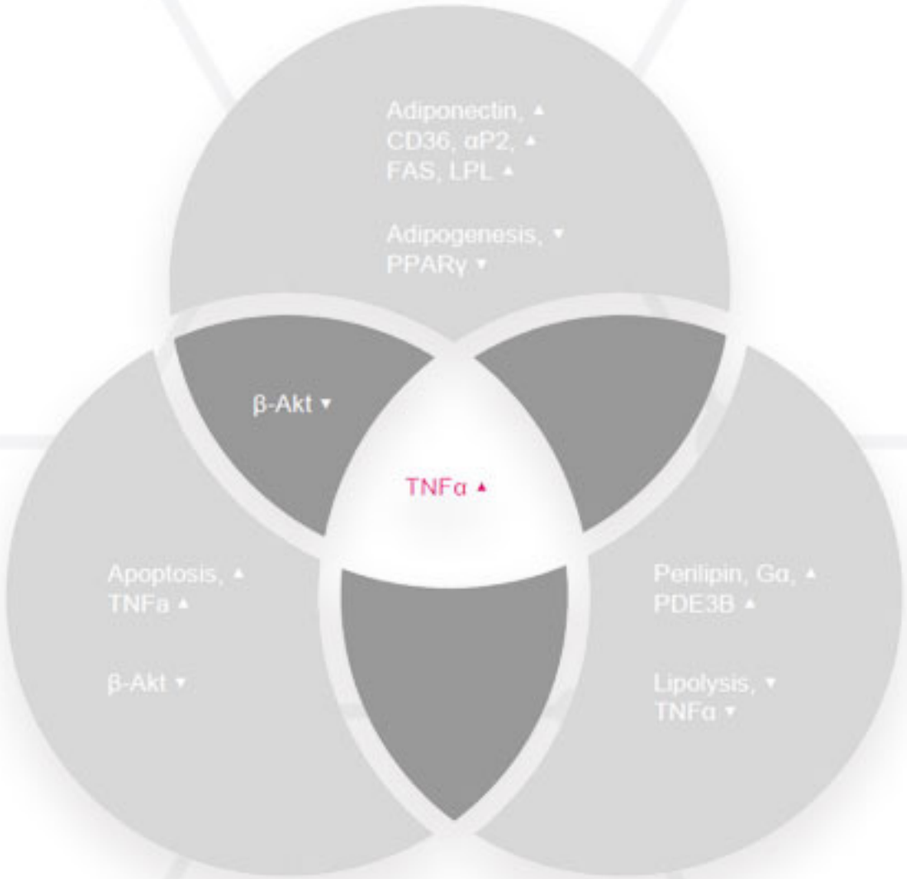
BROMELAIN

: Inhibition of fat synthesis and decomposition



[How Bromelain Helps with Weight Loss by Increasing TNF-alpha source]

Helps with weight loss due to its effects on fat

Bromelain helps with weight loss due to its effects on fat (adipose) tissue [R].
In rat cell cultures, stem bromelain administration inhibited the formation (differentiation) of fat cells. It does this by increasing genes (C/EBPα and PPARγ) that are needed for fat cell formation [R].
Moreover, it blocked Akt/mTOR signaling (transmission) and increased TNF-α levels in mature fat cells.
This caused fat cells to self-destruct [R].
Additionally, TNF-α induces the breakdown of fats (lipolysis).
All of these factors combined together help prevent and address obesity [R].

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BROMELAIN

:Anti-inflammatory

Bromelain Reduces Inflammation

Bromelain decreases the majority of pro-inflammatory mediators and is a powerful Anti-inflammatory agent [R].
Cyclooxygenase-2(COX-2)is a major contributor ro inflammation. It helps with the synthesis of Prostaglandin E2 (PGE-2), which is a pro-inflammatory fat(lipid). PGE-2 also suppresses the immune system and promotes tumor progression [R].

Bromelain reduces COX-2 and PGE-2 levels in mouse and human cell cultures [R].

When inflammation causes the overproduction of proinflammatory cytokines, bromelain reduces IL-1β, IL-6 secretion.
For example, Bromelain reduces IFN-γ and TNF-α production in inflammatory bowel disease (IBD) [R].

Bromelain also lowers the production of TGF-β, another major contributor of inflammation [R].

In mouse cell cultures, the proteases in bromelain inhibited ERK-2 transmission.
This inhibition blocks cytokine production and helps prevent inflammation[R].

Blocks cytokine production and helps prevent inflammation

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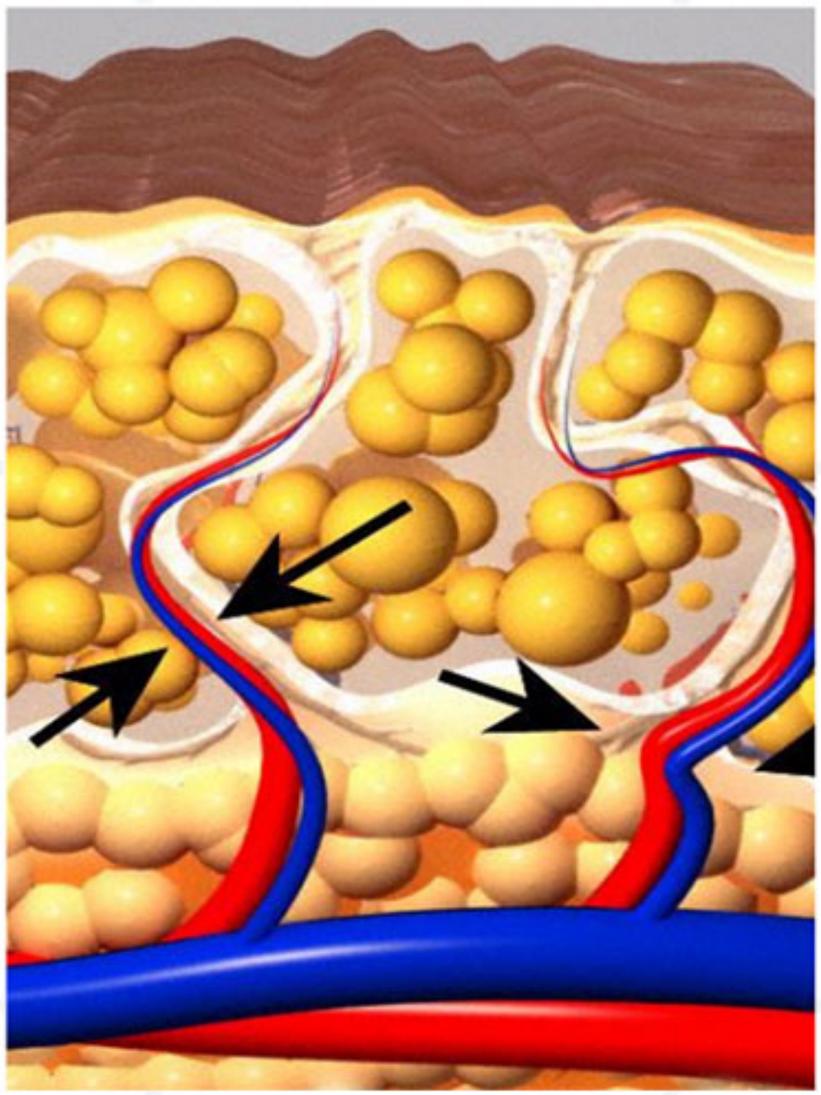
: WHAT IS LECITHIN?



Lecithin is a generic term to designate any group of yellow-brownish fatty substances occurring in animal and plant tissues, which are amphiphilic – they attract both water and fatty substances (and so are both hydrophilic and lipophilic).

It is usually available from sources such as soybeans, eggs, milk, marine sources, rapeseed, cottonseed and sunflower. It has low solubility in water, but is an excellent emulsifier. In aqueous solution, its phospholipids can form either liposomes, bilayer sheets, micelles, or lamellar structures, depending on hydration and temperature.

This results in a type of surfactant that usually is classified as amphipathic. **Lecithin** is used to treat liver ailments and hypercholesterolemia. The mechanism appears to be enhancement of cholesterol metabolism in the digestive system.

Lecithin possess beneficial properties in reducing cholesterol levels and controlling or preventing atherosclerosis.

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: EFFECT OF LECITHIN

THE EFFECT OF LECITHIN ON INTESTINAL CHOLESTEROL UPTAKE BY RAT INTESTINE *IN VITRO*

By ALFRED J. RAMPONE

From the Department of Physiology, University of Oregon Medical School, Portland, Oregon 97201, U.S.A.

(*Received 25 September 1972*)

SUMMARY

1. Sacs 20 cm long were obtained from the upper half of the small intestine of bile fistula rats (bile duct cannulated 48 hours previously). The sacs were everted, filled with oxygenated phosphate buffer and incubated 1 hr at 37°C in 25 ml. of a buffered micellar solution of oleic acid (0·6 mM), mono-olein (0·3 mM), sodium taurocholate (4·8 mM) and ^{3}H-labelled cholesterol (0·15 mM) plus glucose (28 mM).

2. After incubation the amount of [^{3}H]cholesterol taken up by the mucosal tissue was measured. It averaged 200 n-mole/hr.g tissue wet wt. ± 6 (S.E.).

3. Adding 3 ml. whole rate bile with other factors unchanged caused cholesterol uptake to decrease by 50 % in confirmation of previous studies.

om rat liver tissue, and from egg

ake. A significant response was

centration 0·13 mM) and a near

ration 0·80 mM). 10 mg lecithin

ent to that obtained with 3 ml. whole bile.

5. Lecithin is an active component of whole bile causing reduced intestinal cholesterol uptake from micelles.

6. The decreased uptake of cholesterol in the presence of lecithin may have been the result of expansion of the cholesterol-containing micelles with consequent reduction in cholesterol permeability.

(Reduction in cholesterol permeability by lecithin)
– J. Phygiol. (1973), 229, pp. 505–514

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: The PINE SLIM
Recommend FACE

01 For individuals worried about large face caused by excess fat.

02 For individuals worried about sagging facial lines due to lossof elasticity.

03 Those who want to correct facial asymmetry.

04 Those who are concerned about a thick double chin.

05 People who are concerned about protruding cheekbones.

06 Those who have not seen significant results from existingcontour injections

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: The PINE SLIM
Recommend BODY

01 For those who prefer non-surgical options to address excess fat.

02 For individuals who haven't achieved desired weight loss results through dieting alone.

03 For people who want to lose weight quickly in a short period of time

04 For those who want to solve local obesity in a specific area

05 For those who have not achieved results from existing obesity treatments

: The PINE SLIM

Usage does

Applied once every 1–2 weeks
Max dose per time is no more than 100 mL

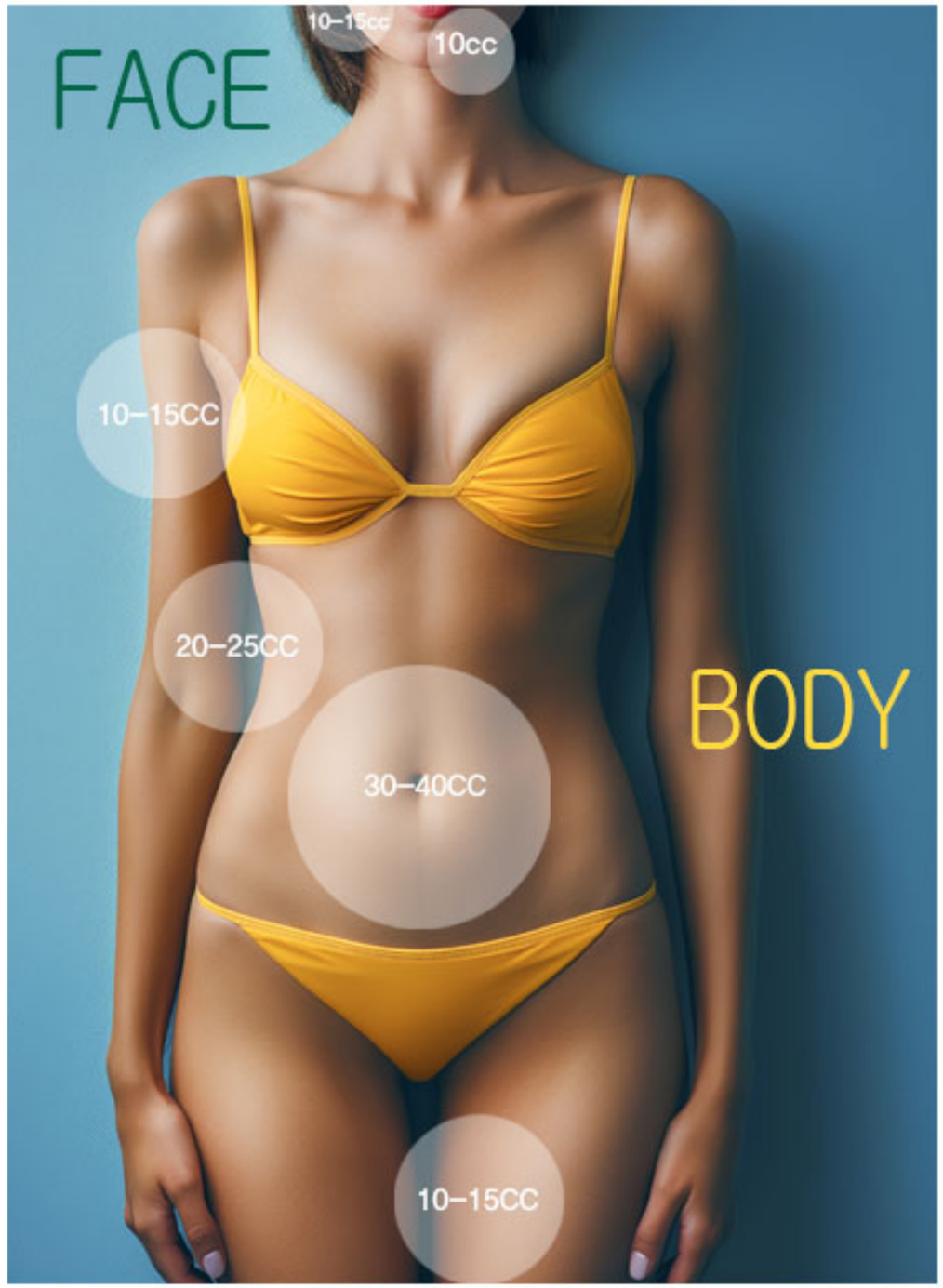
FACE

1cm apart, 0.2–0.5ml for each point

BODY

1~2cm apart, 0.5–1ml for each point

#Daily Sleeping
#a natural diet
#Even skin care
#a gentle change



: The PINE SLIM

Conclusion

'Natural care that keeps your skin healthy, slim and elastic'

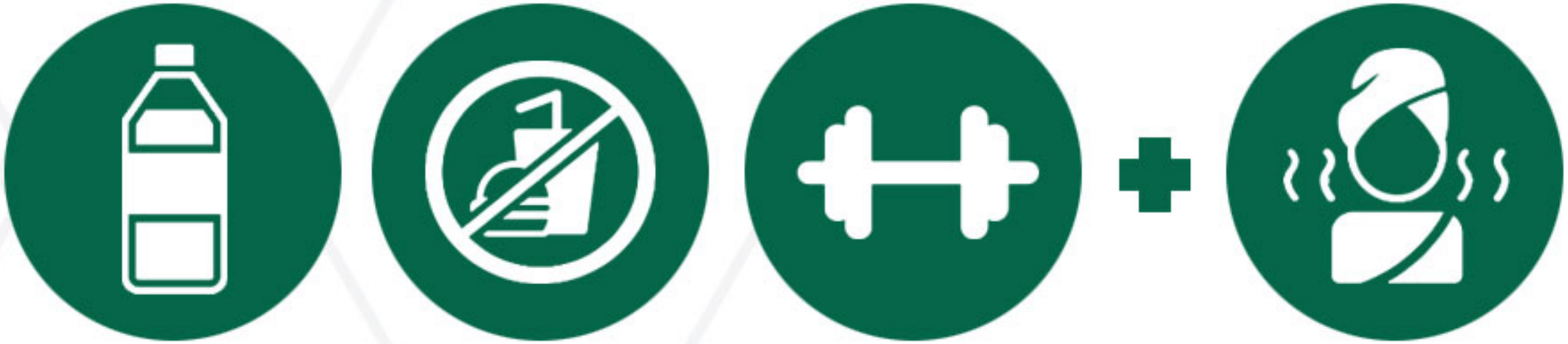
Since the main ingredients of The PINE SLIM are based on natural ingredients, it helps break down fat and improve skin with the power of **ingredients extracted from nature**.

This product is suitable for customers who want to see slow results over the long term with "**healthy and gentle changes**" rather than "quick results".

In keeping with the **slow beauty** trend, "Get slimmer lightly and naturally through consistent use in your daily life!"

: The PINE SLIM

Post procedure caution



Intake sufficient water

Avoid late-night meals

Do light exercise and massage

For the first 2-3 days, it is better to use hot towel or sauna

Cautions

① Avoid the area around the eyes

② The ampoule should be used immediately

③ Store the product at room temperature

* This product is disposable and reusage is prohibited

BE NATURAL BEAUTY
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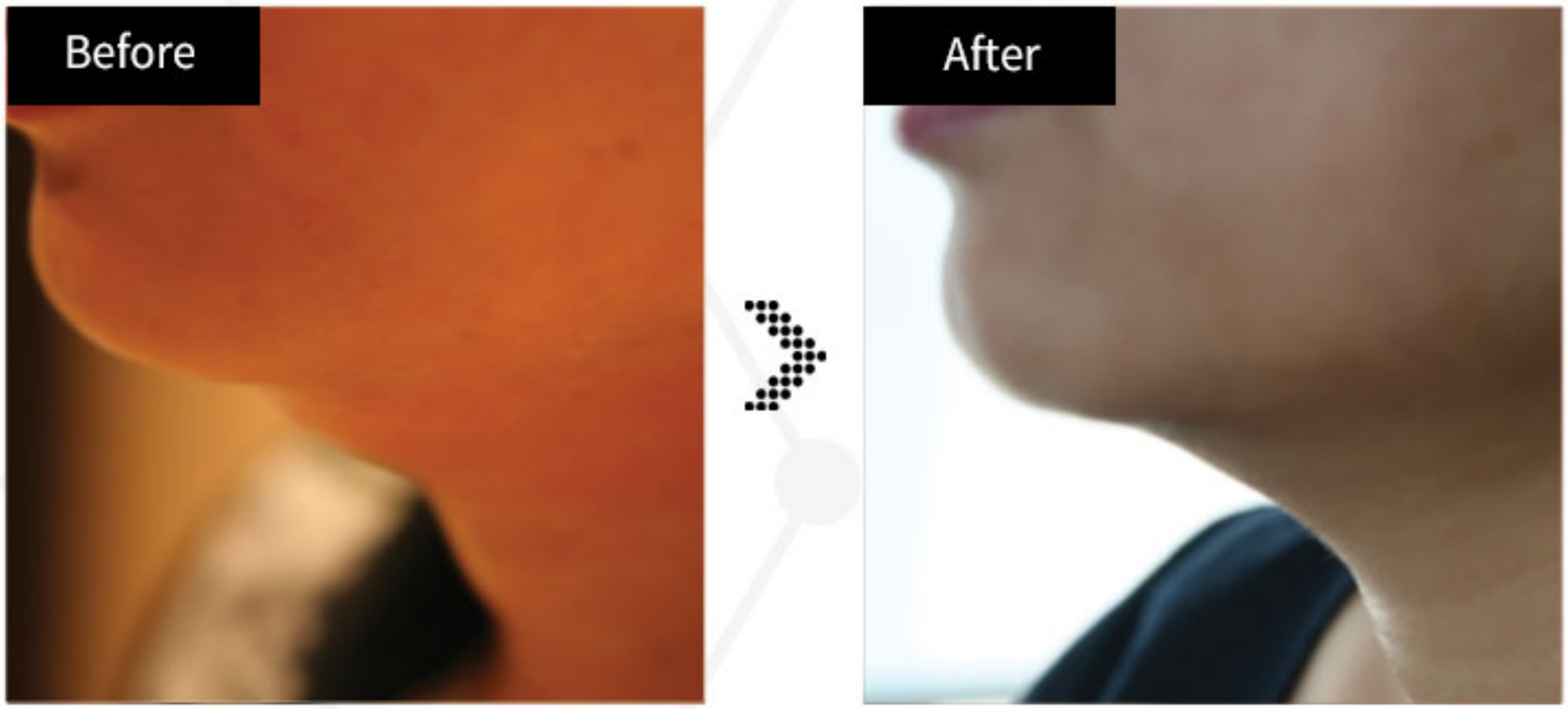
:BEFORE & AFTER

FACE

:BEFORE & AFTER

FACE

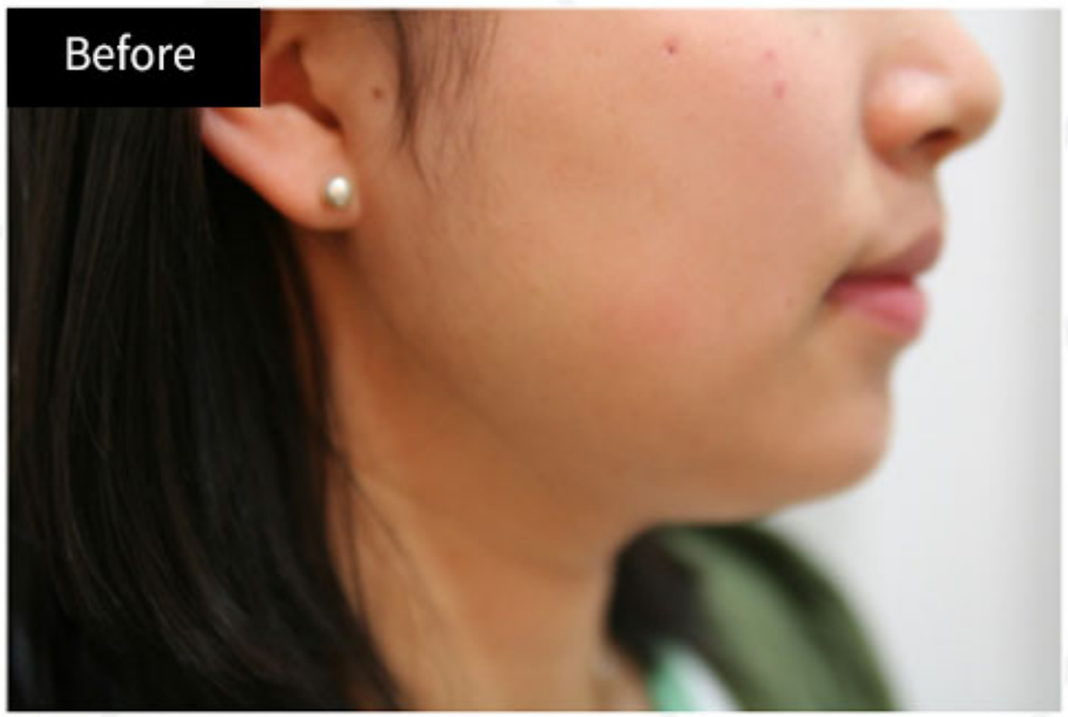


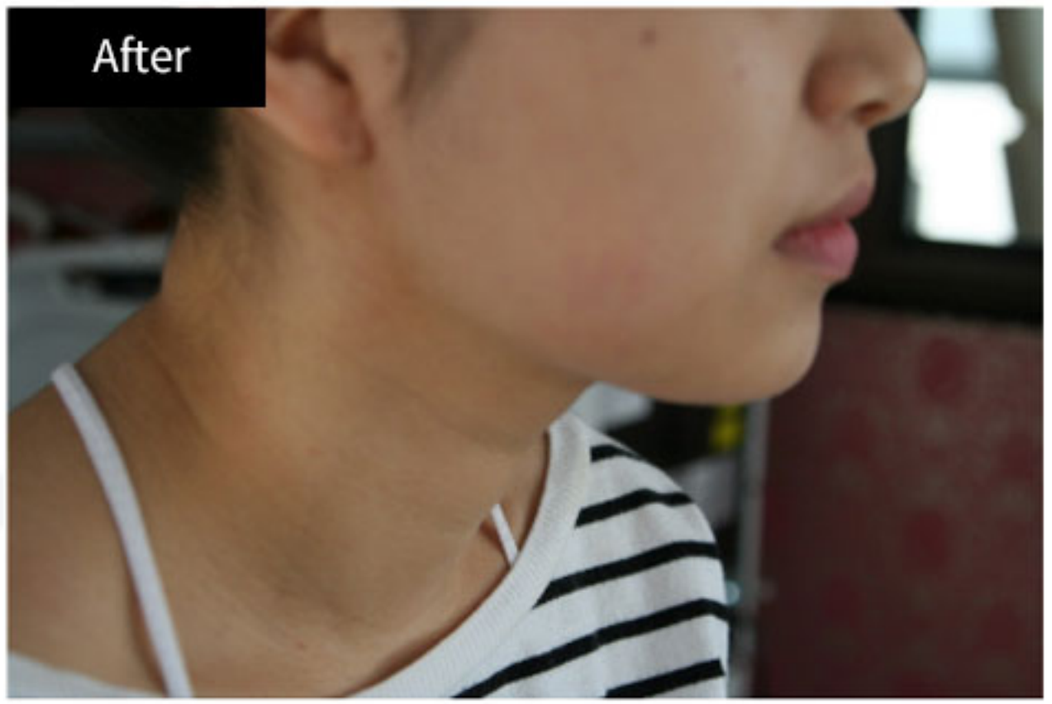
:BEFORE & AFTER

FACE

:BEFORE & AFTER

FACE





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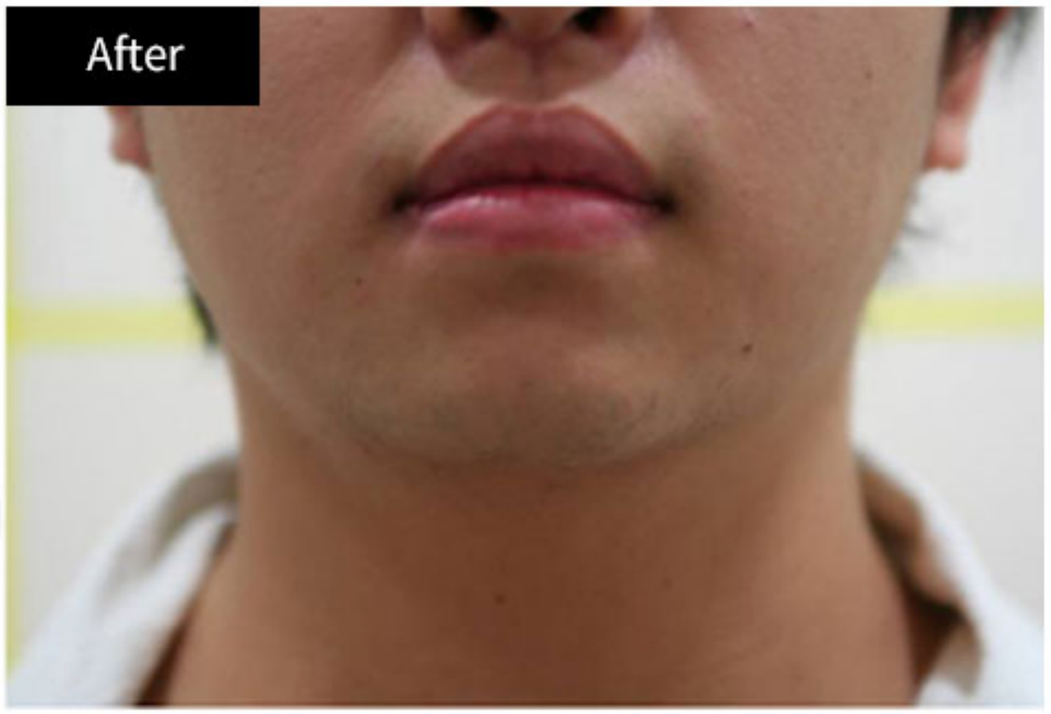
:BEFORE & AFTER

FACE

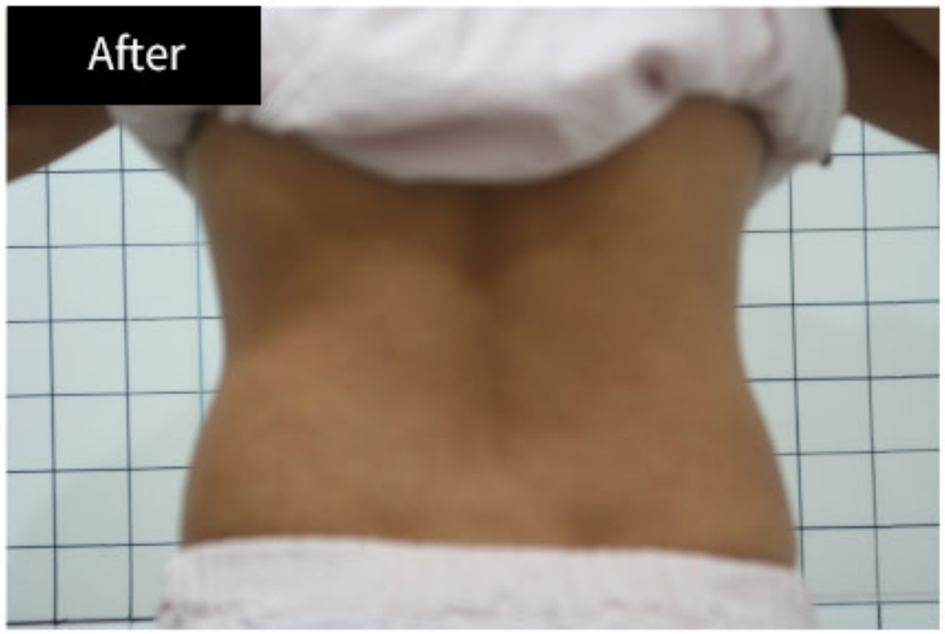


:BEFORE & AFTER

BODY

:BEFORE & AFTER

BODY



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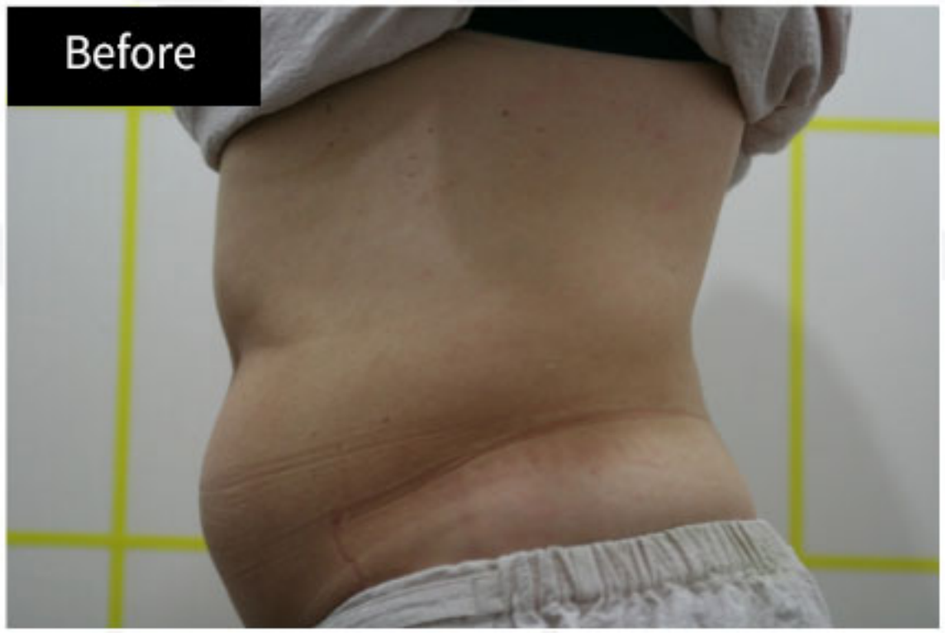
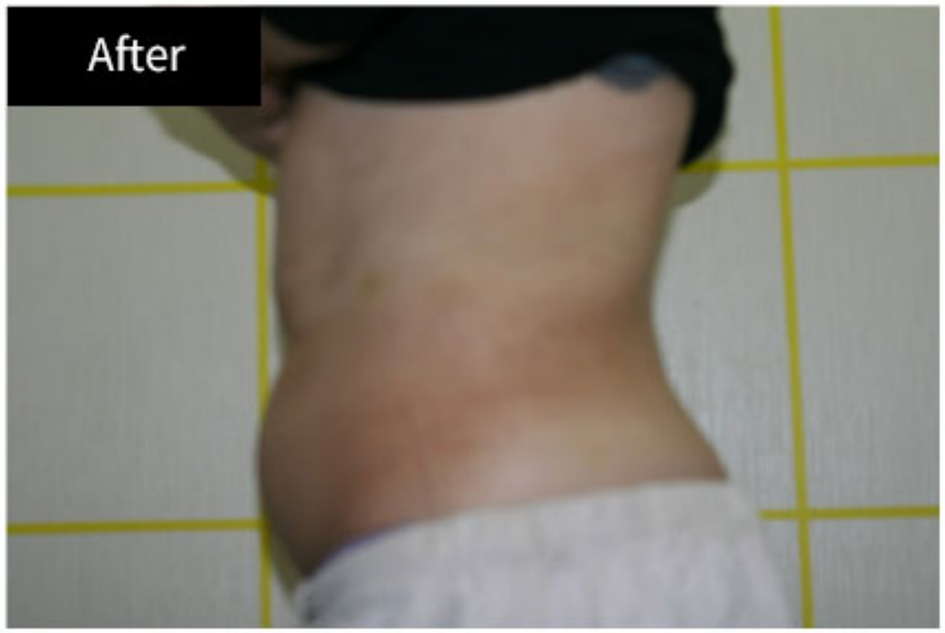
:BEFORE & AFTER

BODY





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:BEFORE & AFTER

BODY

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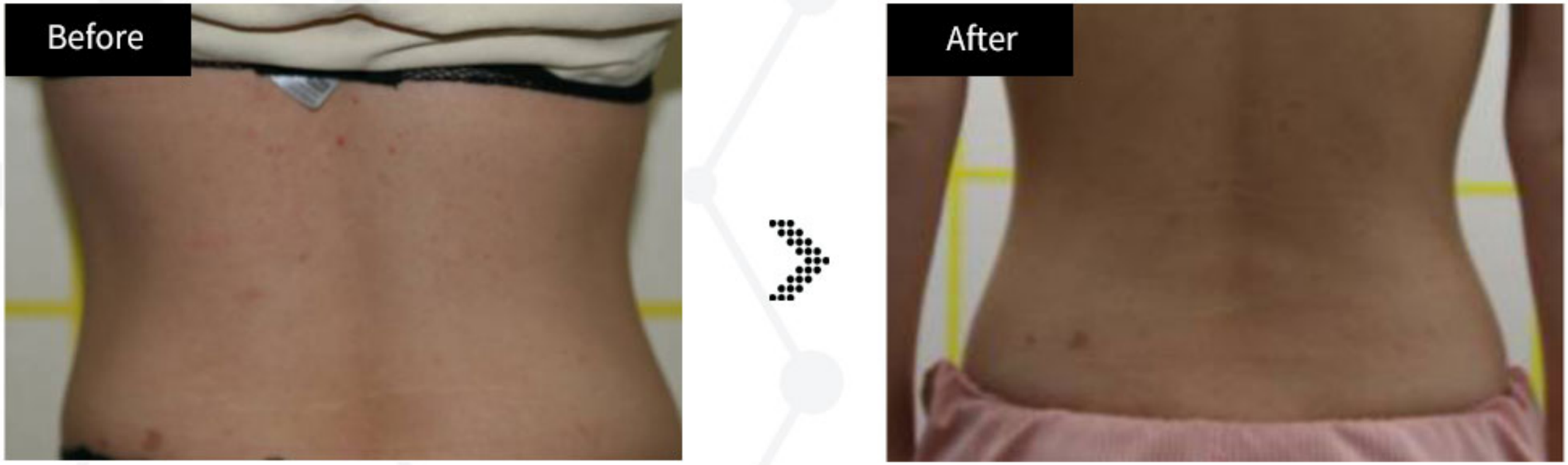

:BEFORE & AFTER

BODY