

The Development of Nutraceutical Products in Indonesia and The Importance of Nutraceutical Definition

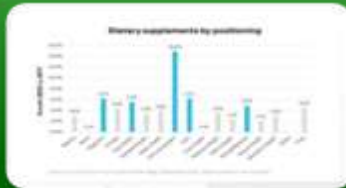
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Regulatory and Medical Affairs

AGENDA



Nutraceutical Definition



Nutraceutical Market Trend



SOHO Global Health at glance



Take home messages



Nutraceutical Definition

Nutraceutical term commonly used in marketing, but **no official regulatory definition** in Indonesia



Not defined yet by BPOM or MOH

The term “**Nutraceutical**” was firstly coined in 1989 by Stephen DeFelice, MD (founder and chairman of the Foundation for InnoVation in Medicine (FIM), Cranford, NJ)¹

Nutrition



Pharmaceutical



Nutraceutical

(Hybrid of food and drugs)



Not Food



Not Drugs

Nutraceutical Definition

Stephen DeFelice, MD, 1989¹

Nutraceutical is **a food (or part of a food)** that **provides medical or health benefits**, including the **prevention and/or treatment of a disease**

Health Canada (Proposal), 1995²

A nutraceutical is **a product isolated or purified from foods** that is generally **sold in medicinal forms** not usually associated with food. A nutraceutical is demonstrated to **have a physiological benefit or provide protection against chronic disease**

Food Safety and Standard Act 2006, India³

Foods for special dietary uses or functional foods or nutraceuticals or health supplements means Product which is **not represented for use as a conventional food** and whereby such products may be **formulated in the form of powders, granules, tablets, capsules, liquids, jelly and other dosage forms** but not parenteral, and are meant for oral administration

S U M M A R Y

Nutraceuticals should fulfill 3 aspects:

- ✓ Food sources (natural)
- ✓ In medicinal forms (tablets, capsules, liquid, granules, etc.)
- ✓ Provide health benefit (prevention and/or treatment of a disease)



1. Ekta K Kalra. Nutraceutical - Definition and Introduction. AAPS PharmSci 2003; 5 (3). Article 25.

2. Health Canada. Policy Paper – Nutraceuticals/Functional Foods and Health Claims on Foods. Nov 1998.

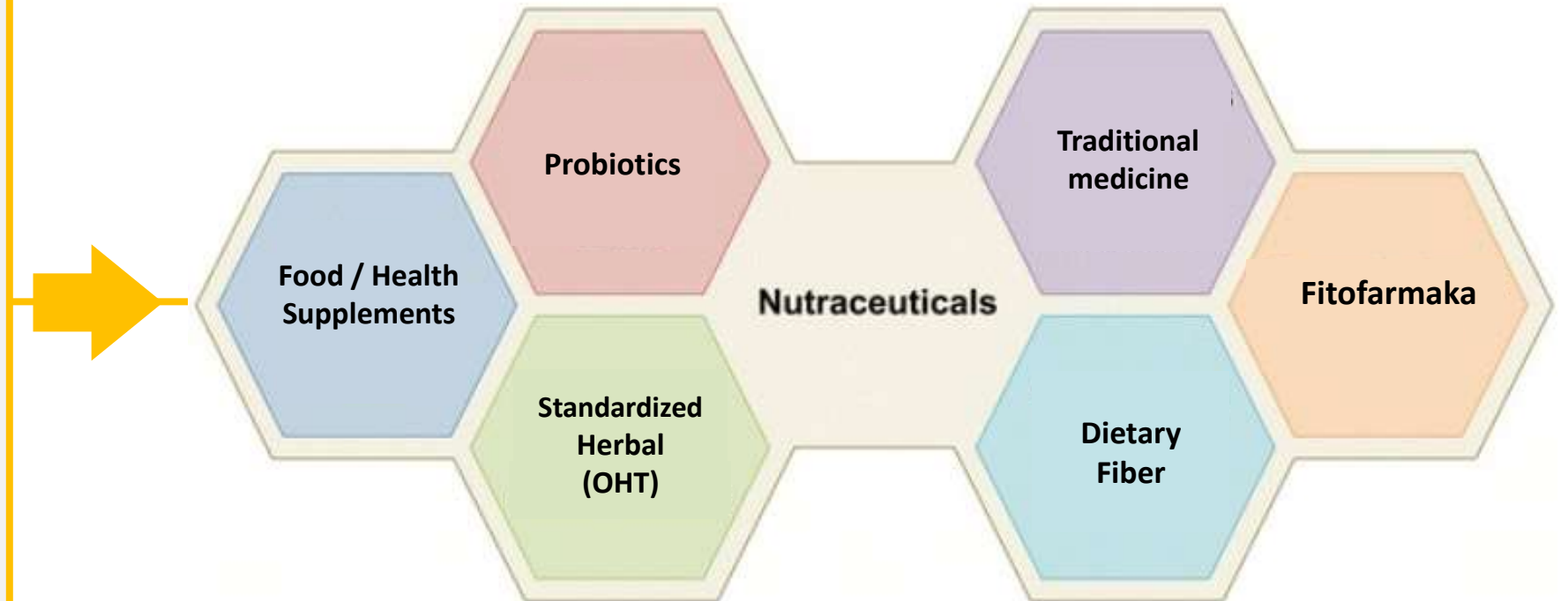
3. Ministry of Law and Justice. Food Safety and Standards Act. No 34 OF 2006.

Nutraceutical Definition



Nutraceuticals should fulfill 3 aspects:

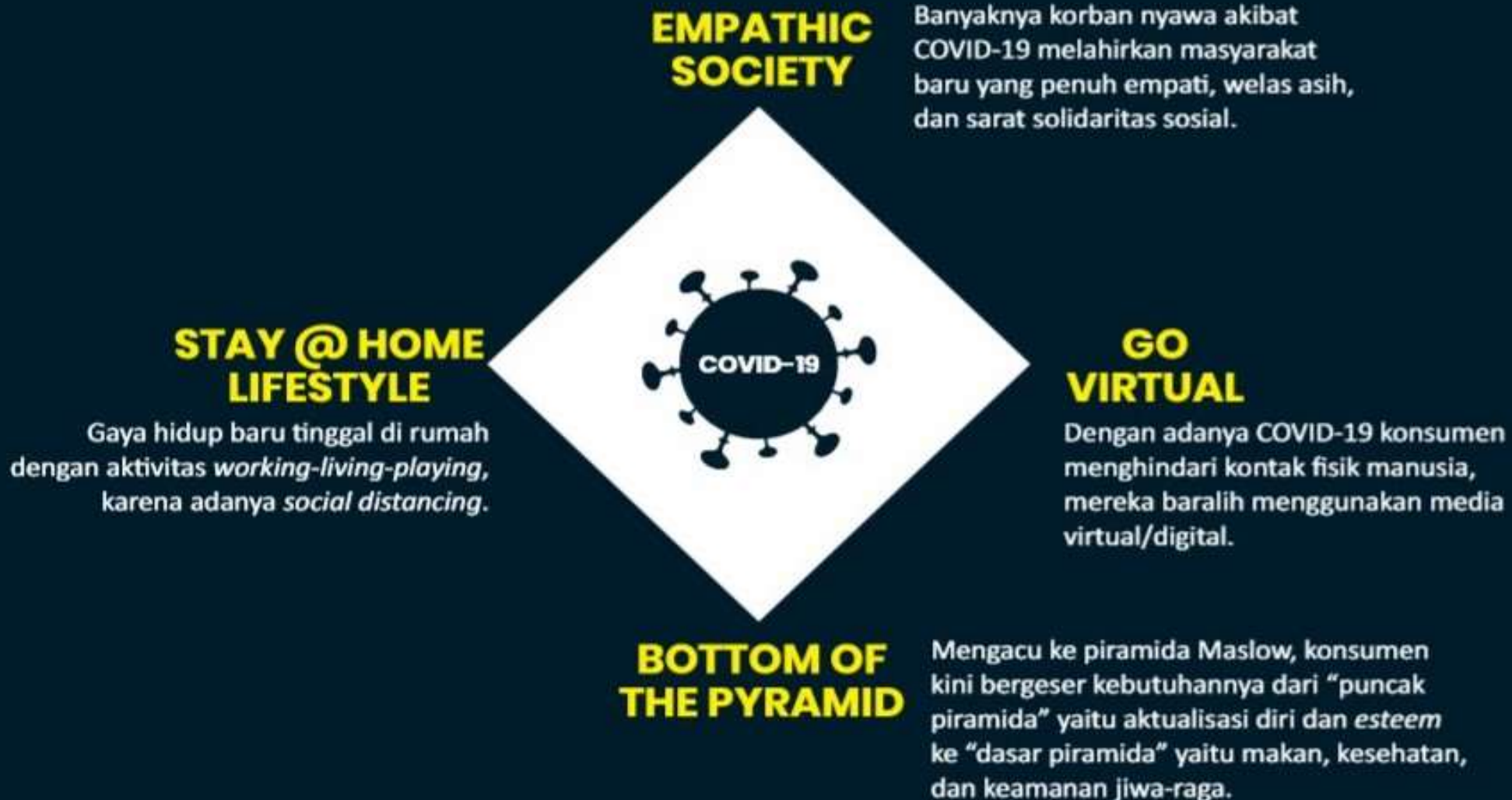
- ✓ Food sources (natural)
- ✓ In medicinal forms (tablets, capsules, liquid, granules, etc.)
- ✓ Provide health benefit (prevention and/or treatment of a disease)



NUTRACEUTICAL MARKET TREND

THE 4 CONSUMER MEGASHIFTS

In Time of Covid-19 Crisis



THE 4 CONSUMER MEGASHIFTS

In Time of Covid-19 Crisis

Megashift #1 Stay @ Home Lifestyle

1. The Fall of Mobility. The Rise of Stay @ Home
2. Online Shopping
Widening+Deepening: from Wants to Needs.
3. Food Delivery: from "Indulgence" to "Utility"
4. The Comeback of Home Cooking
5. Frozen Food: Convenience Solution
6. Going Omni
7. Subscription Model Matters
8. TV Strikes Back
9. DIY/Self-Care
10. Zoomable Workplace @ Home
11. "Work-Live-Play" Balance: Well-Being Revolution

Megashift #2 Back to the Bottom of the Pyramid

12. The Century of Self Distancing
13. Contact-Free Lifestyle
14. Low-Trust Society
15. Constantly-Fear Customer
16. Jamu Is the New Espresso
17. Halal (Thoyyiban) Becomes Mainstream
18. Paylater Solution
19. The Future of Travelling

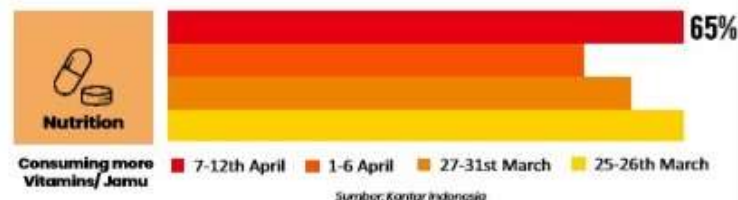
Megashift #3 Go Virtual

20. Virtual experience Is the Next Big Thing
21. The Emerging VirSocial
22. Flexible Working Hours: from "9-to-5" to "3-to-2"
23. The Birth of Zoom Generation
24. Cloud Lifestyle
25. Telemedicine: From Visit to Virtual
26. Online+Home-Schooling
27. Ibadah virtual

Megashift #4 Empathic Society

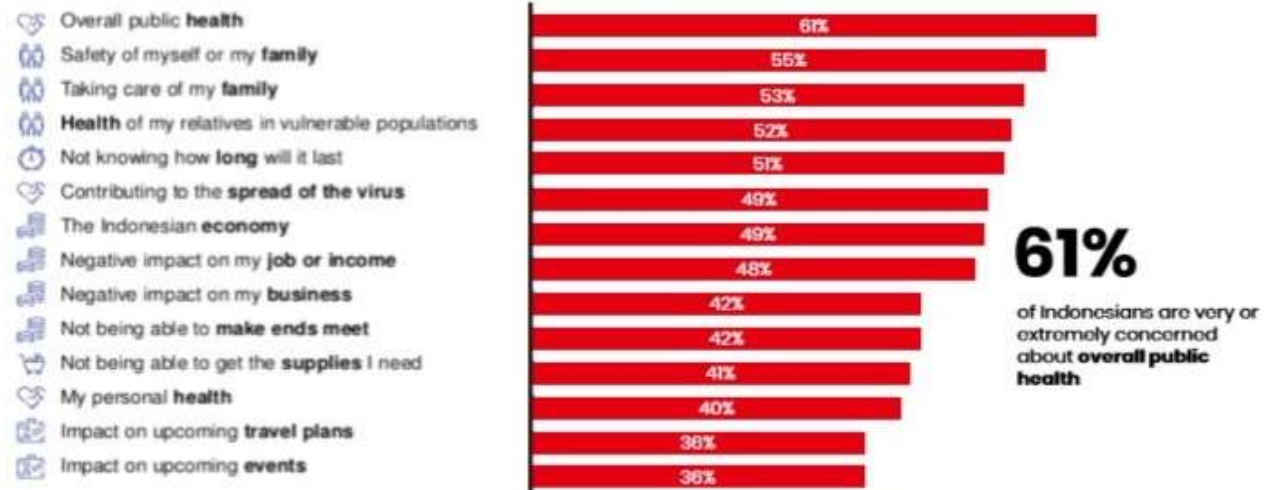
28. The Rise of Empathy and Solidarity
29. From Drone Parenting to Positive Parenting
30. More Suffering, More Religious

Behavioral & Attitudinal Changes – Tracking the Trend



Largest concerns of the Indonesian population related to COVID-19

% of respondents who are very concerned or extremely concerned



Sources: McKinsey & Company COVID-19 Indonesia Consumer Pulse Survey 3/28 -3/29/2020 n = 78, sampled to match Indonesia's general population 20+ years

Jamu menjadi minuman yang paling banyak dicari saat ini. Pada awal kasus pasien COVID-19 terdeteksi, masyarakat panik dan langsung menyerbu supermarket serta apotek mencari *hand sanitizer*.

Namun, ketika para ahli mengatakan bahwa *mpon-mpon* yang merupakan bahan dasar minuman jamu dapat menangkal virus COVID-19, jamu langsung laris manis di pasaran.

Wabah COVID-19 menjadikan jamu sebagai *lifestyle*. *Jamu is the new espresso*.

Konsumen perlahan meninggalkan kebiasaan minum kopi dan mulai rajin mengonsumsi

jamu. Survei dari Kantar, masyarakat Indonesia semakin rajin mengonsumsi Jamu. Sebanyak 65% mengatakan, minum jamu telah menjadi kebiasaan. Jika dahulu minuman jamu dianggap minuman jadul, justru kini diikuti oleh sebagian besar masyarakat modern di kota besar.

Gerakan minum jamu ini juga di-endorse oleh Presiden RI, Joko Widodo yang secara tidak langsung turut menaikkan popularitas Jamu. Sejumlah produsen jamu mengatakan omzet mereka naik hingga 50%.

Future Business Opportunities:

Setelah krisis berlalu, tren minum jamu akan menjadi kenormalan baru. Kafe jamu kekinian seperti *Acaraki* di Jakarta bakal marak. Maka orang nongkrong sambil minum jamu atau *meeting* di kafe jamu akan menjadi hal yang lazim. *Ngafe Jamu is becoming part of leisure*.

Global Market Trend

“The pandemic is encouraging people to consume more and more nutraceuticals / multivitamins to boost their immunity”

HEALTH CARE

The Nutraceuticals Market Is Booming. Will It Last?

Garnet Pigden, GLG Council member and former President at Kappa Biosciences

Teleconference Date: October 6, 2020

Read Time: 6 Minutes

Read Time:

The dietary supplement market has seen explosive growth this year, due, in large part, to the pandemic. But even before COVID-19, nutraceuticals were growing at about 6% to 7% year over year. Is this trend likely to continue? And will the nutraceuticals market need to adapt to evolving consumer demands to maintain this demand?

GLG spoke with Garnet Pigden, former President at Kappa Biosciences, for insights into these questions at an October 6 Remote Roundtable. Below are a few select excerpts from the event.

Why is the dietary supplement industry growing so rapidly, and will it continue to do so after a COVID-19 vaccine is widely distributed?

This year the dietary supplement industry is forecast to grow as much as 20%. Why? Because the pandemic is encouraging people to consume more and more multivitamins to try to boost their immunity, so they don't contract COVID-19. So what we've seen is tremendous increases in vitamin C, vitamin D, E3 and probiotics. It's a great time to be in the supplement market.

People who have now increased their usage of multivitamins will continue to do so. It's reinforcing. They didn't get sick during the pandemic when they took more supplements, so they'll continue to take more supplements after a vaccine is found. We're very encouraged that the growth we're experiencing this year in multivitamins and in vitamins overall will continue in the foreseeable future.

Global Market Trend

Global Vitamin & Dietary Supplement Market:
2020 growth : 5.1%
2020-2025 CAGR : 5.3%

Global vitamins & dietary supplements market

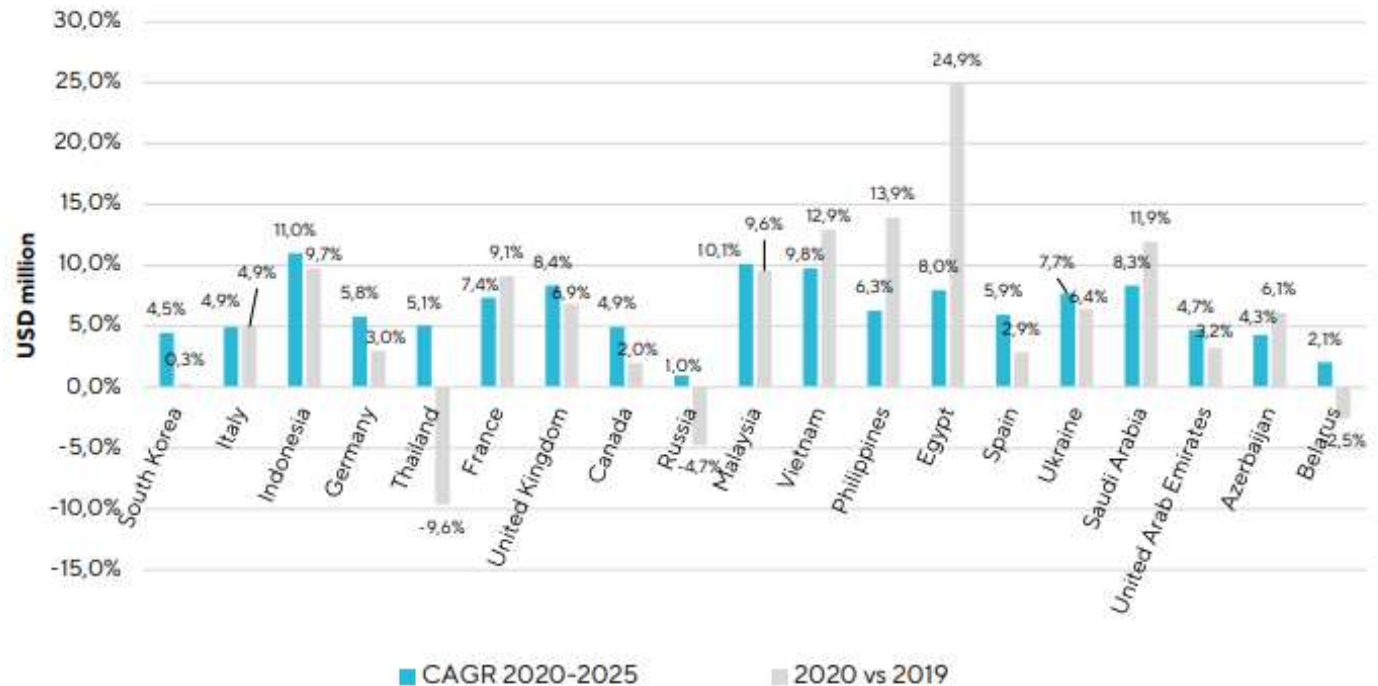


Source: Euromonitor Consumer Health data, December 2020. Note: current prices used.

Global Market Trend

Indonesia Vitamin & Dietary Supplement Market:
2020 growth : 9.7%
2020-2025 CAGR : 11.0%

Vitamins & dietary supplements growth by country



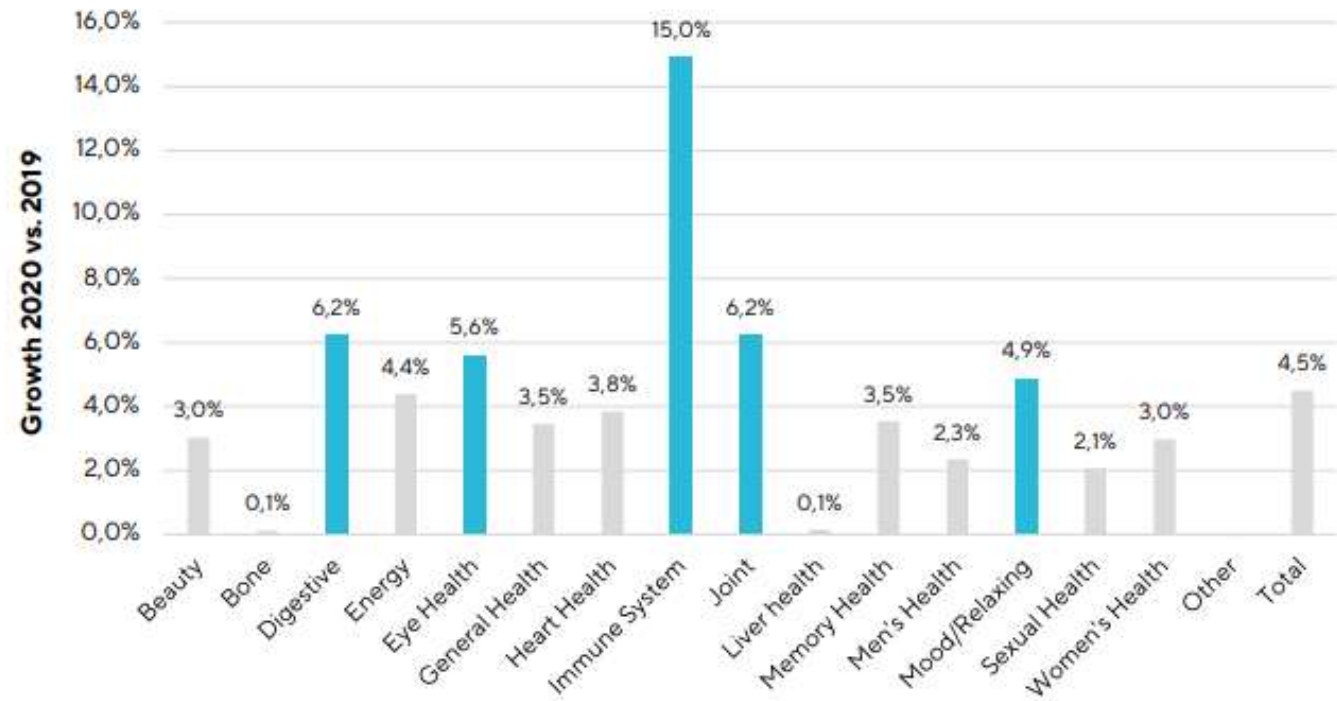
Source: Euromonitor Consumer Health data, November 2020

Global Market Trend

**High market in 2020:
Immunity, digestive,
joint, eye health, and
mood/relaxing
supplements.**

Will grow more than the
total market average in
2020 global sales

Dietary supplements by positioning



Source: Euromonitor Consumer Health data, December 2020. Note: vitamins not included.

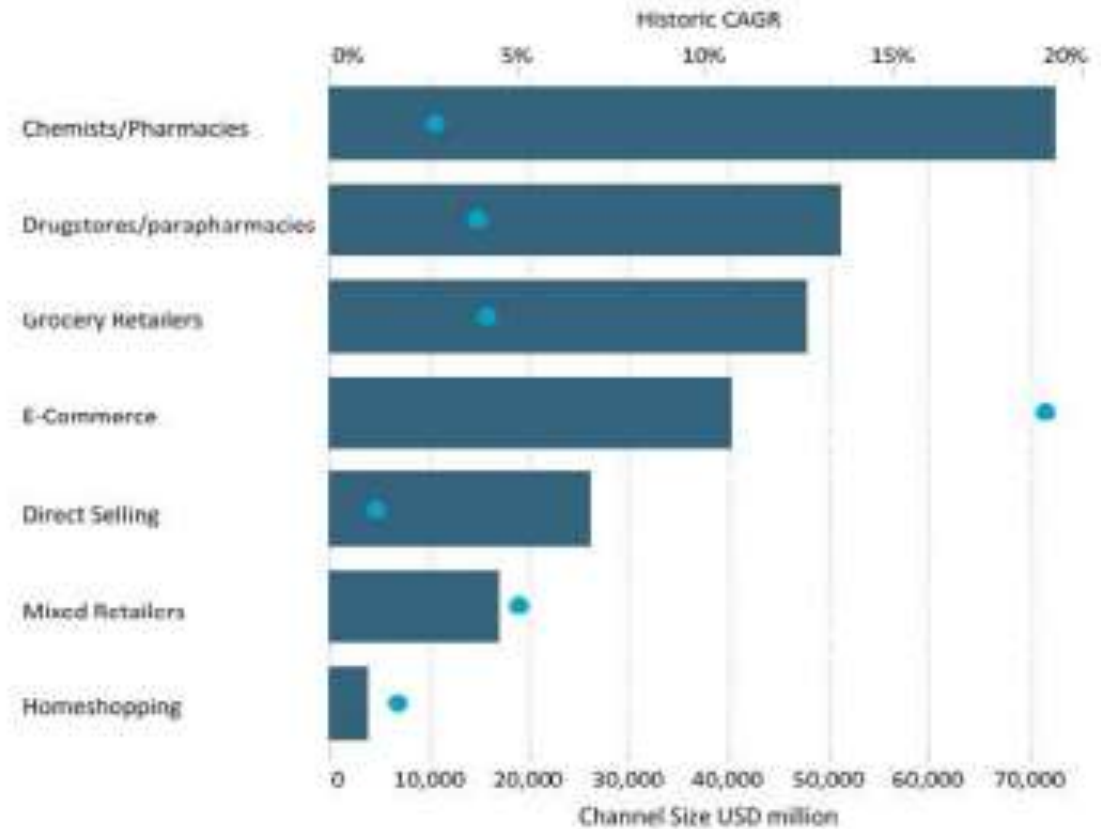
Global Market Trend

In 2020 e-commerce jumped:

- From 12% to 15% global consumer health sales
- From 3% to 5% of OTC sales
- From 18% to 22% of VDS sales

Direct selling saw its second straight year of declining sales


Consumer Health: Retail Distribution by outlet 2020 (historic CAGR 2015-2020)



Source: Euromonitor - Consumer Health: World market, October 2020.


Indonesia Market Trend

High demand of
Vitamin &
Supplement in
Indonesia during
pandemic



1 Kebutuhan Suplemen Kesehatan Dalam Masa Pandemi

Masyarakat



Anjuran untuk:

- ✓ Protokol Kesehatan
- ✓ Menjaga Daya Tahan Tubuh

+

- ✓ Konsumsi Suplemen Kesehatan


↓

Peningkatan pengetahuan masyarakat terhadap produk immunomodulator

Demand Suplemen Kesehatan


BPOM: Produk Suplemen Kesehatan Meningkat saat Pandemi

BPOM melihat di tengah pandemi, masyarakat banyak mencari suplemen untuk meningkatkan imunitas.



Permintaan Produk Vitamin dan Suplemen Melonjak di Masa Pandemi

Selasa, 23 November 2020 22:29 WIB



Mengukur Berkah Pandemi Covid-19 bagi Industri Suplemen Kesehatan

Suka tidak suka, pandemi mengingatkan masyarakat pentingnya menjaga kesehatan dan kebersihan. Hal tersebut tercermin dalam pertumbuhan industri kimia, farmasi, dan obat tradisional dalam 9 bulan pertama 2020.

Di Tengah Pandemi, Nutrifood Akui Kebutuhan Suplemen Meningkat

Selasa, 29 Januari 2021 16:22 WIB

Registrasi Suplemen Kesehatan di Badan POM

➤ Selama Periode Januari 2020- 24 Juli 2021, telah diterbitkan izin edar produk dengan klaim daya tahan tubuh sebagai berikut:

NO	JENIS PRODUK	JUMLAH
1	OT LOKAL	621
2	OT IMPOR	30
3	OT LISENSI	1
4	SK LOKAL	375
5	SK IMPOR	37
6	SK LISENSI	5
7	OHT	2
8	FF	4

➤ Suplemen kesehatan yang mengandung vitamin yang diterbitkan sejumlah 1103 produk.

Indonesia Market Trend

Published on March 2019 by Ken Research:

- CAGR 2018-2023: 6.9%
- Emerging category: herbal vitamins & dietary supplements

A fundamental shift observed:

- From treatment of chronic type diseases to preventing chronic diseases at the first place
- Reducing people's dependency on various pharmaceutical drugs

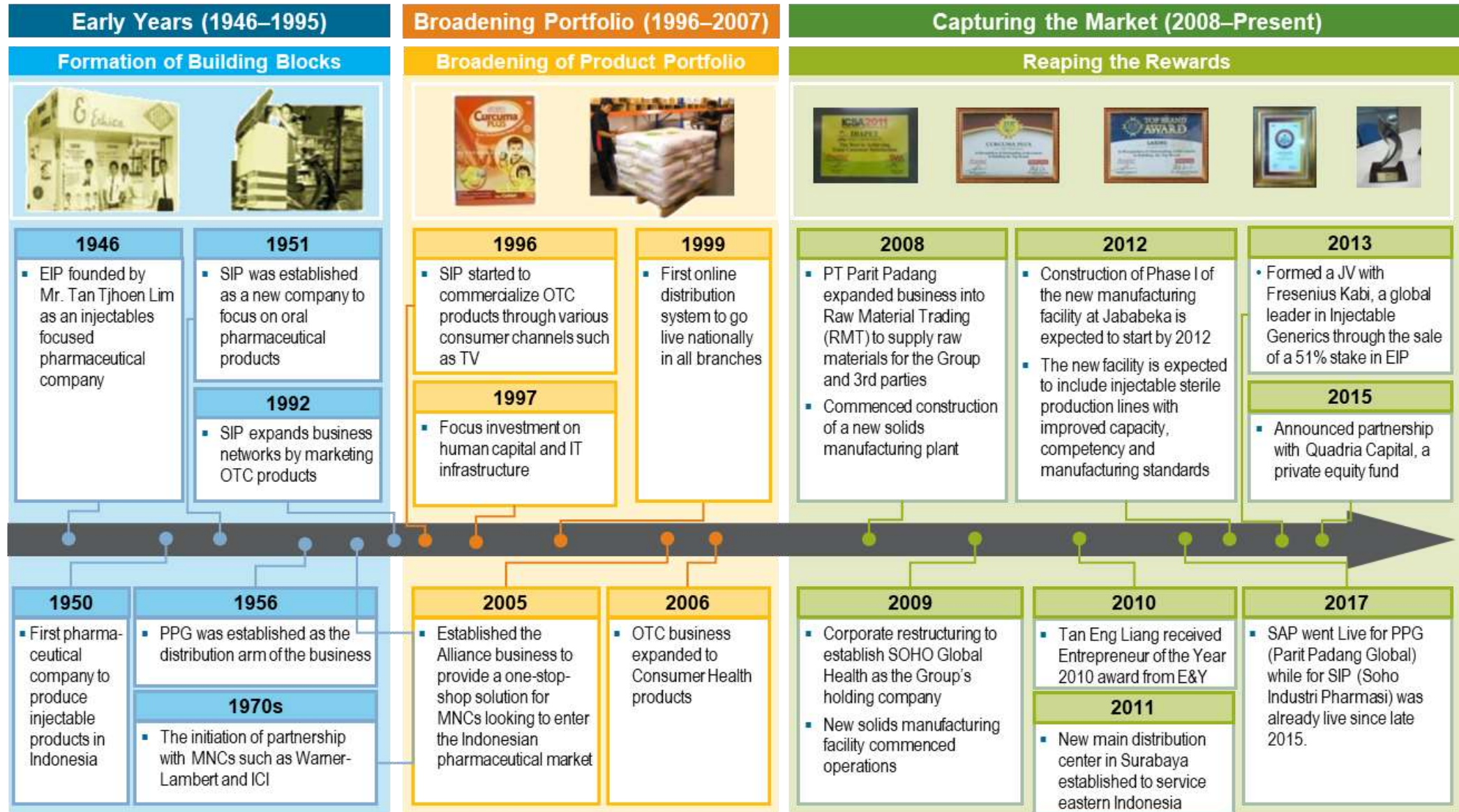




SOHO GLOBAL HEALTH AT A GLANCE

SOHO Global Health History

Since it was founded in 1946, SOHO Global Health (“SGH”) has established its reputation as a pioneer in the Indonesian pharmaceutical space and was one of the first to introduce injectable products to the local market.



SOHO Global Health Tbk. : Go public and Listed in IDX



SGH Purpose, Vision & Core Values

- SOHO Global Health (“SGH”) embraces new Purpose, Vision and Core Values as guiding principles in growing business towards aspiration.
- The starting point is having a clear purpose. Ours is “to hold the care of human life as our highest priority.” This is what makes us relevant to patients, customers, healthcare professionals, business partners and society at large.
- This noble statement is at the heart of SGH corporate culture and a source of inspiration for employees at all levels in the organization.



PURPOSE, VISION & CORE VALUES

PURPOSE

To hold the care of human life as our highest priority.

VISION

To be a healthcare leader and the preeminent provider of innovative natural pharmaceutical products.

We are a company that values the well-being of the community and promotes a healthy lifestyle in a socially responsible way.

CORE VALUE

Absolute Integrity
Mutual Respect
Passion for Innovation
Culture of Discipline

Fully Integrated Manufacturer and Distributor



PT. Soho Industri Pharmasi

Product Development	<ul style="list-style-type: none"> Over 70 employees for product development and registration Strong track record of successful product launches Pioneer in developing natural products as complementary and alternative medicine
Procurement	<ul style="list-style-type: none"> Materials are procured from a global network of approved vendors to ensure high product quality Well established business processes to balance supply and demand
Manufacturing	<ul style="list-style-type: none"> An existing manufacturing facility comply with cGMP and a research facility in Sukabumi
Branding	<ul style="list-style-type: none"> Award-winning brand portfolio which made SOHO one of the fastest growing pharmaceutical companies in ASEAN
Sales & Marketing	<ul style="list-style-type: none"> Strong industry leading Sales & Marketing team consisting of over 500 medical representatives*, covering over 90% of targeted doctors in Indonesia

(*): Excluding EEV

PT. Parit Padang Global

Distribution	<ul style="list-style-type: none"> PPG's distribution channels cover above 95% of hospitals and pharmacies nationwide Over 500 sales representatives covering 18,000 medical outlets and 15,000 consumer outlets directly PPG attained GSDP Certificate from Société Générale de Surveillance
Logistics	<ul style="list-style-type: none"> Leading supply chain management service with state-of-the-art facilities in main distribution centers Proven delivery system and operational excellence – ISO9001:2008 certified



Research & Development

Research Focus & Strategy Implementation

Research Focus

1. Focused Herbal Medicine Plantation

SOHO Center of Excellence in Herbal Research (SCEHR)
focus on cultivation of **Temulawak & Echinacea Purpurea**



2. Extraction, Formulation & Drug Delivery System

3. *In vitro & in vivo test (Pre Clinic & Clinical Research)*



Strategy Implementation

Seed to Patient Concept

**Safety & Quality
Guarantee**

Through a full control process from seed selection, cultivation, formulation until reach consumer hand



Open Innovation

**ABGC
Collaboration**

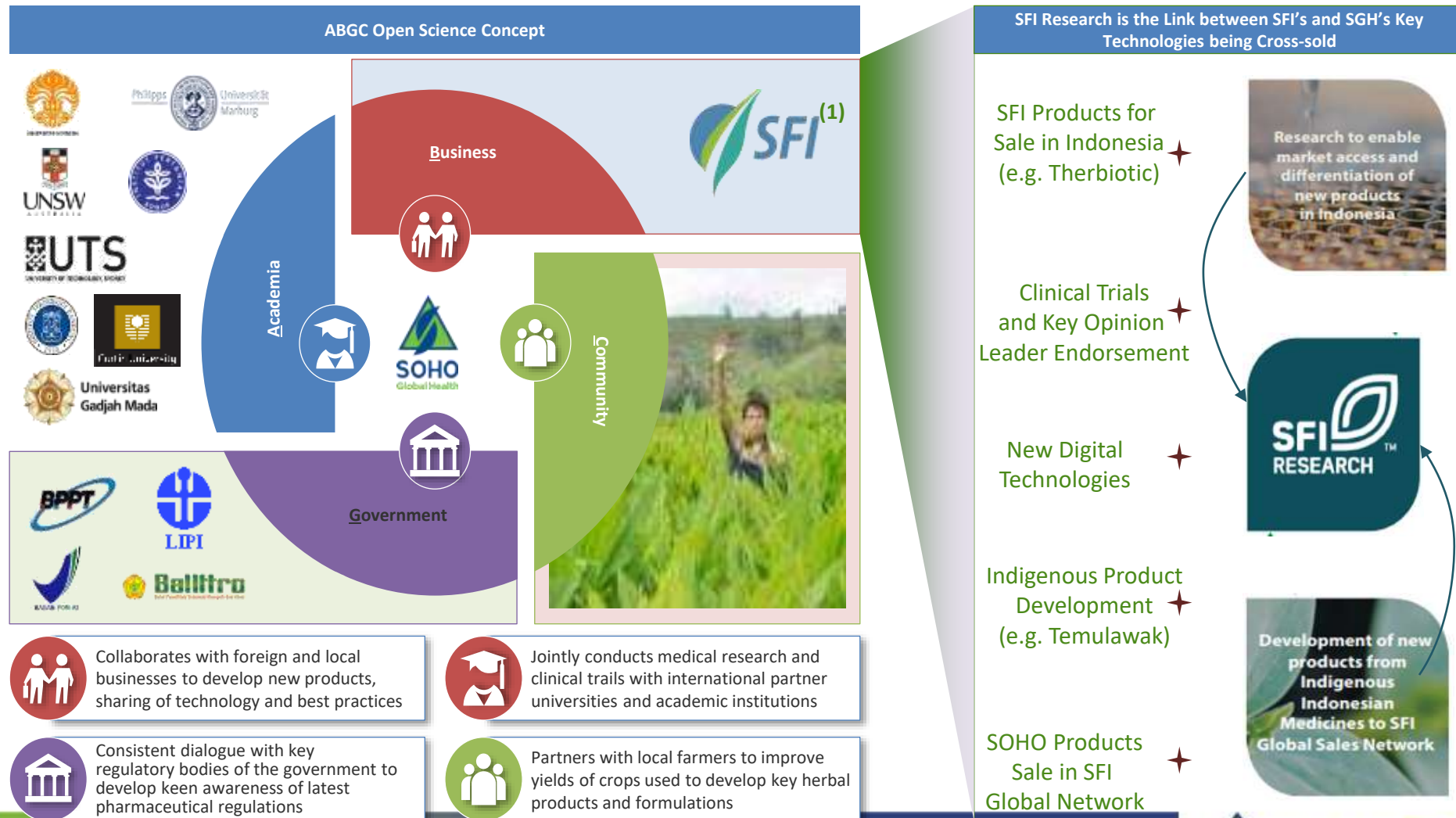
to strengthen self
innovation



Through strategy implementation results 12-15 new products launched annually

Open Innovation Strategy: ABGC Collaboration

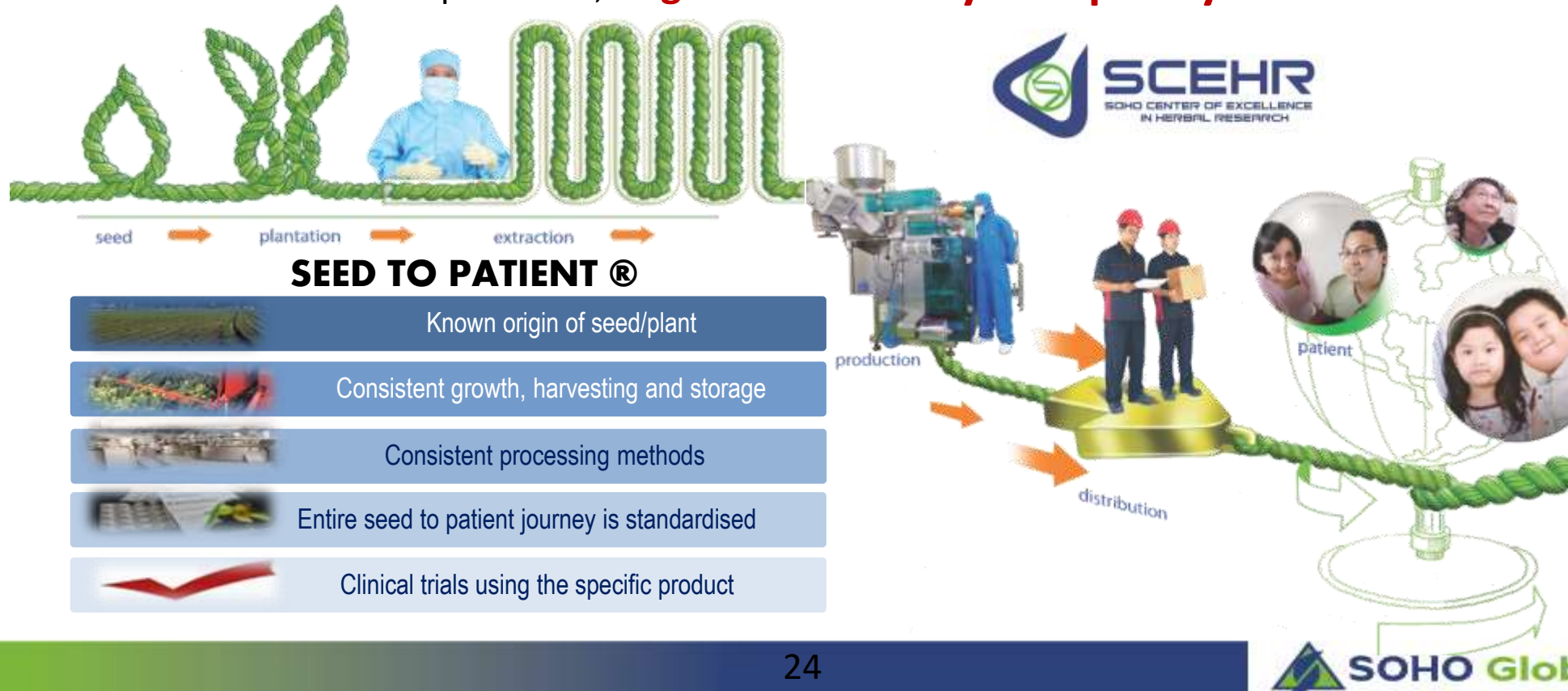
Soho pursues an open-innovation R&D strategy, focused on delivering products from both in-house labs and external partners, and which puts Soho at the center of a global network dedicated to innovation in herbal and natural products.



Notes: (1) Soho Flordis International.

Seed to Patient: Quality guarantee

The **seed-to-patient approach** allows us to control the **quality** of the products from the seed, through all the processes until the product reaches the consumers hand with the standardized processes, **to guarantee safety and quality.**







Biomolecular

to measure the effects or potency of a chemical or biological agents

To predict some type of therapeutic potential/mechanism of action



Pre-Clinical

to measure the effect of herbal combination on a living organism.

Preliminary evaluation for product safety



Clinical Trial & Gene Expression

to measure the effect of herbal combination on healthy/patient of certain indication

To evaluate the safety on human

International Standards Manufacturing Facilities For Non-Sterile Production

SIP Existing Non-Sterile Manufacturing Plant



- SIP manufacturing operations are focused primarily on non-sterile pharmaceutical products including oral prescriptions and OTC products
- Manufacturing operations are carried out on a site with an area of about 22,000 sq.m.
- Compliance with cGMP

Key BPOM Approvals

Non Beta lactam Antibiotics & Non-antibiotics

- 1 Oral powder
- 2 Tablet & coated tablet
- 3 Hard capsule
- 4 Oral liquid
- 5 Semi solid
- 6 Effervescent tablet
- 7 Effervescent powder

Traditional Medicine

- 1 Tablet
- 2 Coated tablet
- 3 Capsule
- 4 Oral powder
- 5 Oral liquid

Cosmetic

- 1 Cream
- 2 Gel

Other Licenses and Certifications

- 1 ISO 9001:2015; and ISO 14001: 2015
- 2 Occupational Safety & Health Management System
- 3 Halal certificate for certain products (currently 141 SKUs)
- 4 Licensing of Food Industry
- 5 Organic Farming Certificate from INOFICE (Indonesian Organic Farming Certification) for Javanese Turmeric/Temulawak (Curcuma Xanthorrhiza Robx.)

SGH NUTRACEUTICAL PRODUCTS

(Based on Health Benefit)

COMMITMENT & CONTRIBUTION

for NATIONAL ISSUE **COVID-19**





IMBOOST contains *Echinacea purpurea* extract, zinc picolinate, and **IMBOOST FORCE** has more advance formula with: *Echinacea purpurea* extract, zinc picolinate, black-elderberry

Pre-clinically proven its efficacy and safety [1-3] and also clinically proven [4-5]. It has been a market leader in supplement for immune for years.

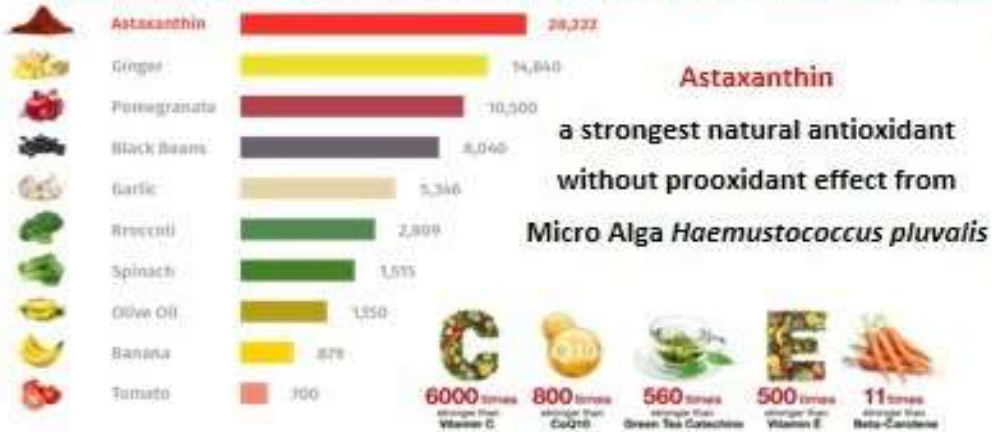


- [1] Collaboration study with ITB (unpublished) – Imboost & Imboost Force modulate non-specific immune response and phagocytosis
- [2] Collaboration study with IPB (unpublished) – Imboost enhance unexcessively multiple immune component such as proliferation immune cells, phagocytosis capacity, TNF- α , and IL-6
- [3] Collaboration study with UI & UGM (published) – Imboost Force Cough are effective and safe for wet & dry cough
- [4] Collaboration study with FK Unair RSUD Dr. Soetomo Surabaya (unpublished) – Imboost supplementation able to reduce stress-related immune deficiency, and reduce cold & flu cases in Indonesian Hajj
- [5] Collaboration study with FK Unair (on going) – Clinical trial of Imboost ES



ASTHIN

Astaxanthin : Antioxidant with the HIGHEST ORAC value



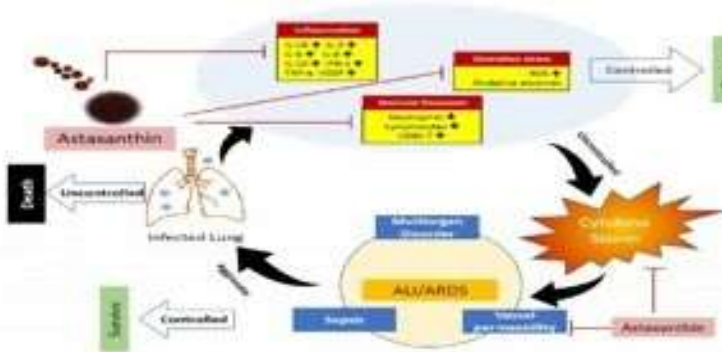
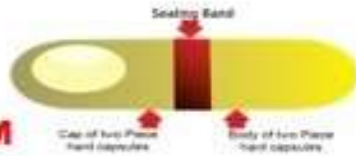
SUPPORT Covid-19 therapy

- ✓ Modulation immune response, inflammatory cytokine and oxidative stress condition → modulation COVID-19 pathogenesis → prevents cytokine storm occurrence
- ✓ Astaxanthin also play an important role for patient with **ALI (Acute Lung Injury) / ARDS (Acute respiratory distress syndrome)** condition → helps in modulation of lungs permeability

Quidfast
TECHNOLOGY

NOVEL DRUG DELIVERY SYSTEM

Quidfast Technology provide a liquid product in the hard capsule form, thus give an unique novel drug delivery system for **Astaxanthin**.



- Faster immune response
- Increase phagocyte activity
- Anti-inflammatory effect

ASTHIN
Unique Original & Natural



SOHO Global Health

SOHO Global Health

First Innovation In Indonesia

CURCUMA FORCE



1 tab Curcuma FORCE equal to
7500 mg fresh Organic Temulawak

Composition:

Curcuma xanthorrhiza rhizome extract 20 mg
+ 2.5 mg piperine

Indications:

- Help to maintain a healthy liver function
- Help to improve a healthy appetite

Dosage:

3x1-2 tablets



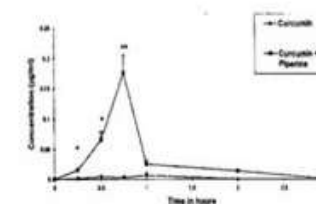
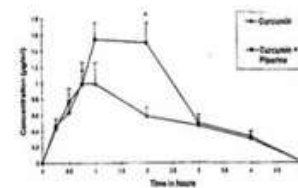
Influence of piperine on the pharmacokinetics of curcumin in animals and human volunteers.

Shoba G¹, Jyoti D, Josech T, Maleed M, Rajendran R, Srinivas PS.

Author information

Abstract

The medicinal properties of curcumin obtained from *Curcuma longa* L. cannot be utilised because of poor bioavailability due to its rapid metabolism in the liver and intestinal wall. In this study, the effect of combining piperine, a known inhibitor of hepatic and intestinal glucuronidation, was evaluated on the bioavailability of curcumin in rats and healthy human volunteers. When curcumin was given alone, in the dose 2 g/kg to rats, moderate serum concentrations were achieved over a period of 4 h. Concomitant administration of piperine 20 mg/kg increased the serum concentration of curcumin for a short period of 1-2 h post drug. Time to maximum was significantly increased ($P < 0.02$) while elimination half life and clearance significantly decreased ($P < 0.02$), and the bioavailability was increased by 154%. On the other hand in humans after a dose of 2 g curcumin alone, serum levels were either undetectable or very low. Concomitant administration of piperine 20 mg produced much higher concentrations from 0.25 to 1 h post drug ($P < 0.01$ at 0.25 and 0.5 h; $P < 0.001$ at 1 h), the increase in bioavailability was 2000%. The study shows that in the dosages used, piperine enhances the serum concentration, extent of absorption and bioavailability of curcumin in both rats and humans with no adverse effects.



One of recommended
herbal in **COVID-19**
response guideline



GLUCODIAB DRINK

Neutraceutical product for diabetes mellitus patients

Glucodiab Drink memanfaatkan temuan revolusioner Prof. Dr. Hanny Wijaya, guru besar Ilmu Teknologi Pangan Studi dan Institut Pertanian Bogor, dengan dukungan dana dari Kementerian Riset & Teknologi dan Lembaga Pengelolaan Dana pendidikan (LPDP).

Berbahan baku tanaman khas Indonesia: ekstrak kumis kucing, temulawak dan jahe gajah, Glucodiab Drink bermanfaat menurunkan sekaligus menstabilkan kadar gula darah dengan cara mempercepat kekuanya glukosa dan sirkulasi darah¹, melunakkan dan membantu pengeluaran batu ginjal² serta meringankan gejala kencing manis pada penderita diabetes tahap awal.

Konsumsi Glucodiab Drink bersama Asta-Gold dan Glucofit untuk meningkatkan harapan dan kualitas hidup yang lebih baik.

Dosis & Saran Penggunaan:

- Untuk menurunkan risiko diabetes: 1x sehari 1 porsi.
- Untuk penderita diabetes tahap awal: 2x sehari 1 porsi.

1 porsi = Glucodiab Drink 50 mL + 150 mL air.

Referensi Riset:
 1) Hanny Wijaya, dan tim peneliti lainnya. "Efektifitas dan Keamanan Glucodiab sebagai Antidiabetik Herbal". *Diabetes* 2021; 33: Januari-Februari, 15-22. doi:10.1007/s12200-020-00100-0.
 2) Hanny Wijaya, dan tim peneliti lainnya. "Efektifitas dan Keamanan Glucodiab sebagai Antidiabetik Herbal". *Diabetes* 2021; 33: Januari-Februari, 15-22. doi:10.1007/s12200-020-00100-0.
 3) Hanny Wijaya, dan tim peneliti lainnya. "Efektifitas dan Keamanan Glucodiab sebagai Antidiabetik Herbal". *Diabetes* 2021; 33: Januari-Februari, 15-22. doi:10.1007/s12200-020-00100-0.



SUPPORT Covid-19 therapy

Glucodiab drink could be a choice to lower blood glucose level in **diabetes mellitus** patients, in which diabetes is one of comorbid diseases that could worsen **Covid-**

19 symptoms

Composition:

Orthosiphon aristatus, Zingiber officinale, Biancaea sappan, Curcuma xanthorrhiza, Citrus aurantiifolia, Citrus hystrix



Prof. DR. Hanny Wijaya
 Formulator GLUCODIAB DRINK
 Guru Besar Food Studi Technology IPB



IPB's Rector and BRIN Minister

Immune System Booster

(Vitamin D3, Vitamin C, Mangosteen, Goji berries, Acai)



Boost D



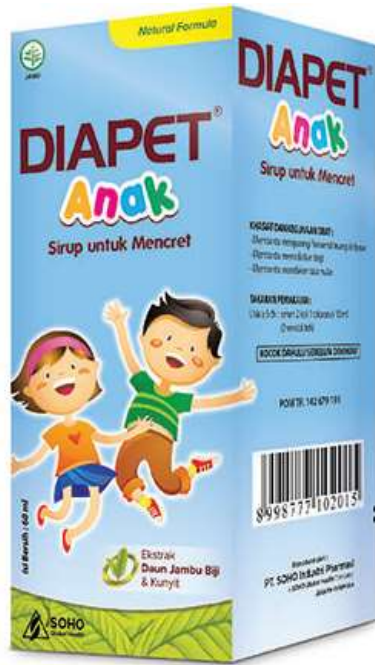
Cester



Magozai

Diarrhea Treatment

(Psidium Guajava Leaves, Curcuma domesticae, etc)



Diapet



Diapet NR

Sleep Management

(Valerian, Polygala)



DIAPET[®]

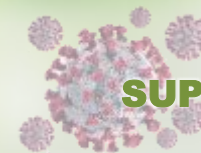
Product name : DIAPET
Dosage form : Capsule
Composition : turmeric extract, guava leaves extract, Jali extract, mojokeling fruit extract and pomegranate albedo



Curcumin → inhibits the expression of CCL212 - a neutrophil chemoattractant chemokine that triggers hyperinflammation in COVID-19 patients.
C. domestica & guava → antidiarrheal activity which is one of the symptoms found in covid-19 patients. 48% of COVID-19 patients have diarrhea and >50% of these patients experience it 3-6 days after onset. (Klopfenstein et al, 2020)
Mojokeling fruit (T. Chebula) → fever, sore throat, cough (Nosalova et al 2013).
Jali seeds (Coix lacryma-jobi) → eliminate the effects of nausea (nausea) and fatigue due to chemotherapy (Li 2006).

"The World Health Organization-China Joint Mission on Coronavirus Disease 2019" Lima (2020) states that fever, sore throat, cough, fatigue, and nausea (nausea) are symptoms found in COVID-19 patients.

 **SOHO Global Health**



SUPPORT Covid-19 therapy

collaboration with IPB



Status : Pharmacodynamic test

Indication:

Repurposing DIAPET as lungs anti-inflammatory agent for COVID-19 preventive supplement

Principal investigator : Prof. Dr. Irmanida Batubara

Take home messages



- Nutraceutical is a food (or part of a food) in medicinal forms that provides medical or health benefits, including the prevention and/or treatment of a disease
- There is no specific regulation for Nutraceutical in Indonesia, but BPOM have provide some category that part of nutraceutical by definition such as Health Supplement, Traditional Medicine and Functional Food.
- Market trend of Nutraceutical is increasing significantly during pandemic covid-19
- SOHO Global Health Tbk provide many nutraceutical products for support Covid-19

THANK YOU



No. 1 Immunomodulator in INDONESIA