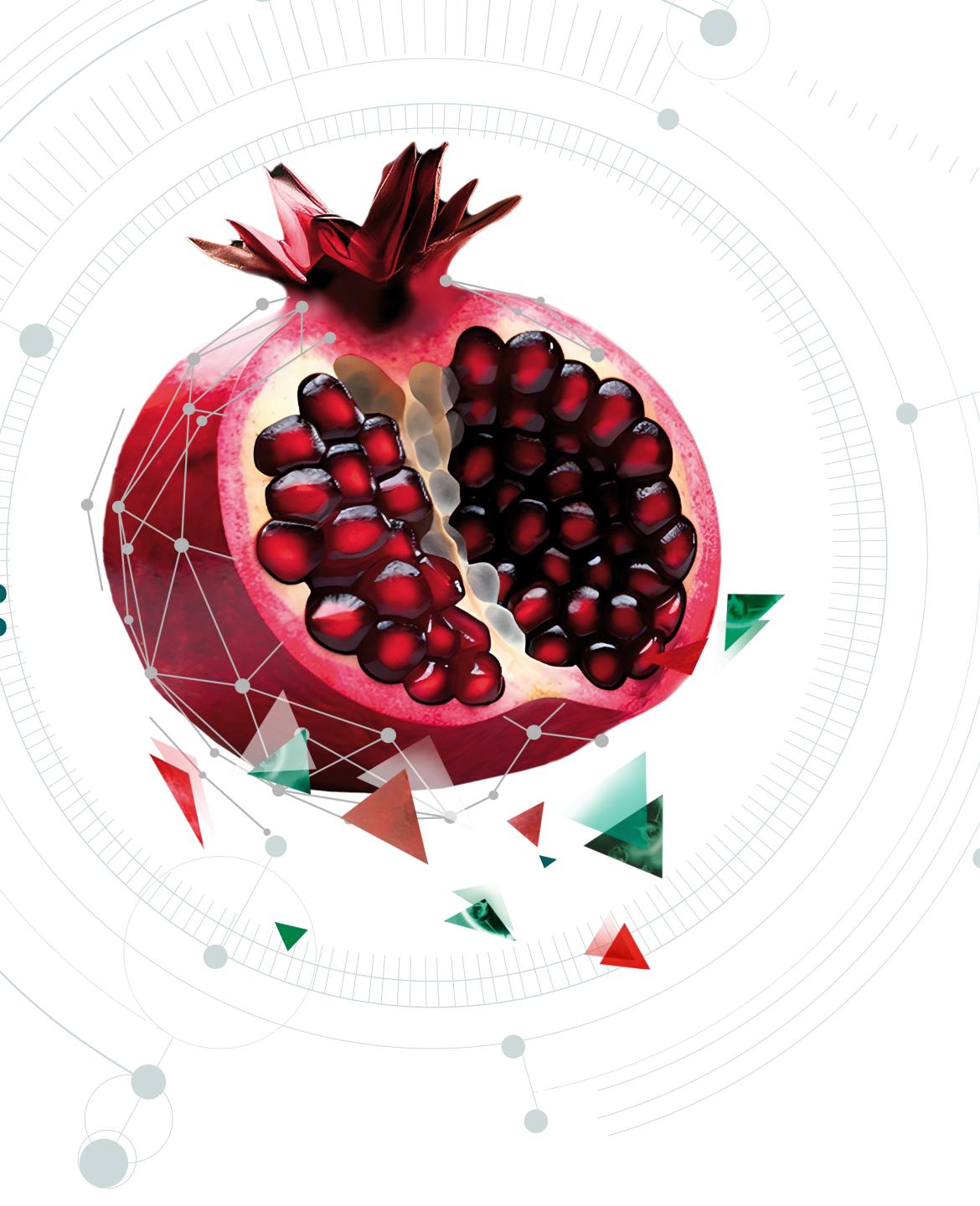


CAMEROONIAN FOODS AS MEDICINE:

Lessons for the Food Industry

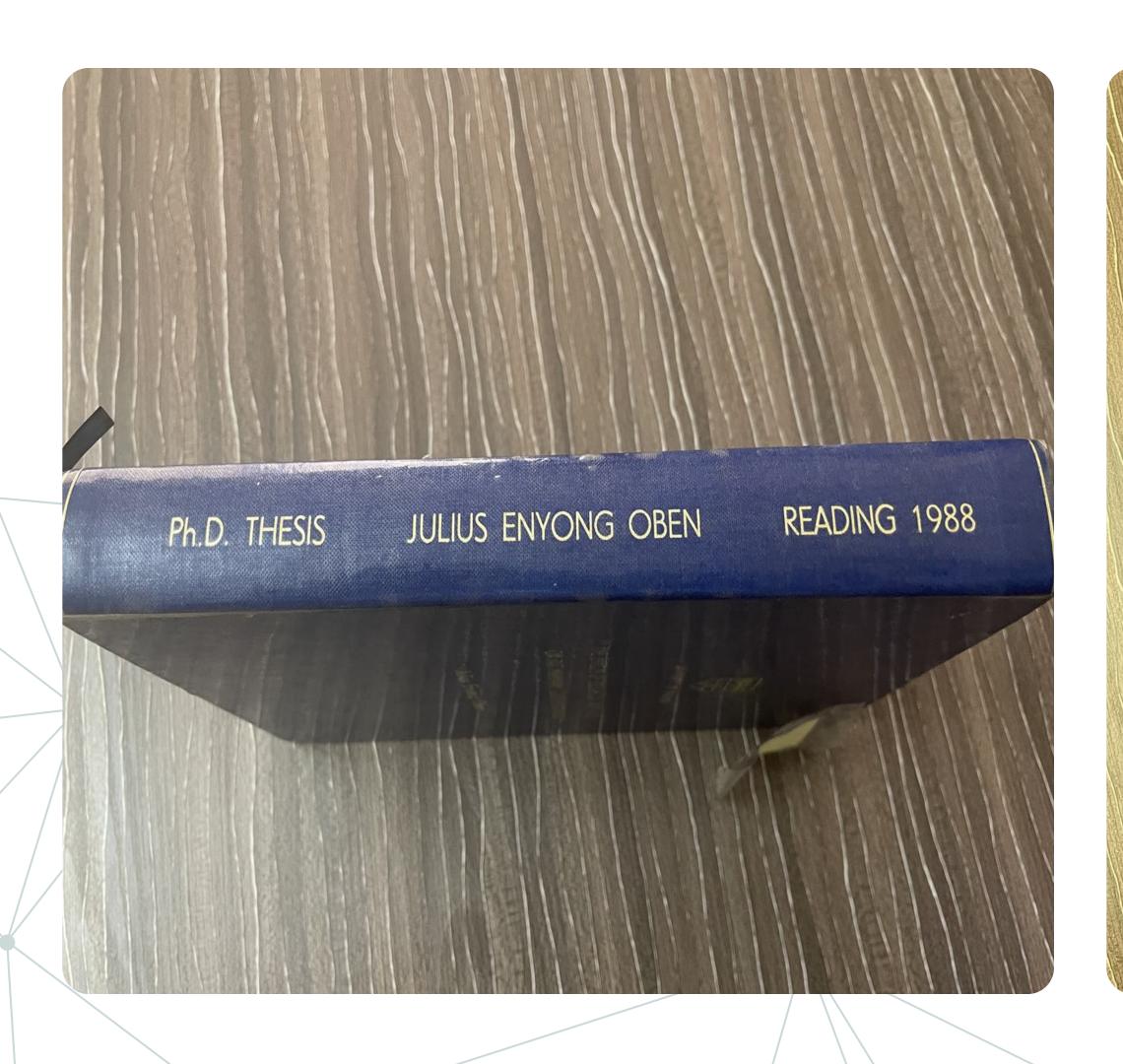


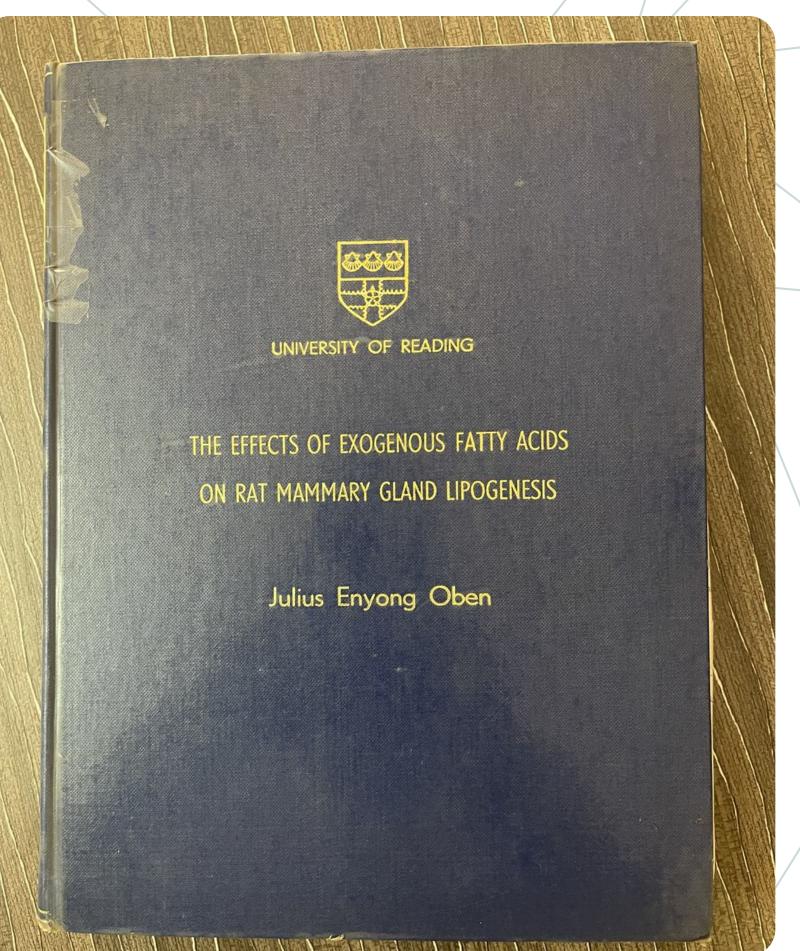
Professor, University of Yaounde, Co-Founder of the J&A Oben Foundation Yaounde - Cameroon



ВООК







FULL CIRCLE - REINVENTING THE WHEEL



1989

Effect of GLP-1 (gut hormone) on Lipid Metabolism in Human Adipocytes (GLP-1 from whole gut)

2022 TO

Effect of Irvingia gabonensis, Cissus quadrangularis and Dichrostachysglomerataon gut microbiome related metabolic processes

PATENTS BY INVENTOR JULIUS OBEN (17)



Julius Oben has filed for patents to protect the following inventions. This listing includes patent applications that are pending as well as patents that have already been granted by the United States Patent and Trademark Office (USPTO).

Methods and related compositions for reducing oxidative stress

Publication number: 20230293613

Abstract: Oxidative stress is implicated in neurodegenerative diseases such as Alzheimer's disease, and has been extensively studied as a potential target for therapeutic intervention. The present disclosure discloses a method for reducing free radicals in a mammal, the method comprises administering a composition containing an effective amount of Baillonella toxisperma extract to a mammal to reduce free radicals in the mammal.

Type: Application Filed: May 24, 2023

Publication date: September 21, 2023

Inventor: Julius Oben

Method and composition using irvingia gabonensis for reducing body weight

Publication number: 20090226553

Abstract: Methods and compositions using plants from the Irvingiaceae family to reduce body weight in a mammal. Methods and compositions using the Irvingia gabonensisplant to reduce lipid levels, BMI and body weight, blood pressure, triglyceride levels, total amount of fat stored in the body, cholesterol levels, salivary and pancreatic alpha-amylase activity and pancreatic lipase activity, LDL cholesterol, to increase HDL cholesterol, to control blood glucose and to prevent or reduce the effects of insulin resistance, diabetes, and heart disease.

Type: Application Filed: May 22, 2009

Publication date: September 10, 2009

Applicant: GATEWAY HEALTH ALLIANCES, INC.

Inventor: Julius Oben

Method and composition using irvingia gabonensis for reducing body weight

Publication number: 20090227514

Abstract: Methods and compositions using plants from the Irvingiaceae family to reduce body weight in a mammal.

FOOD AT THE CENTER OF UN SUSTAINABLE DEVELOPMENT GOAL 3

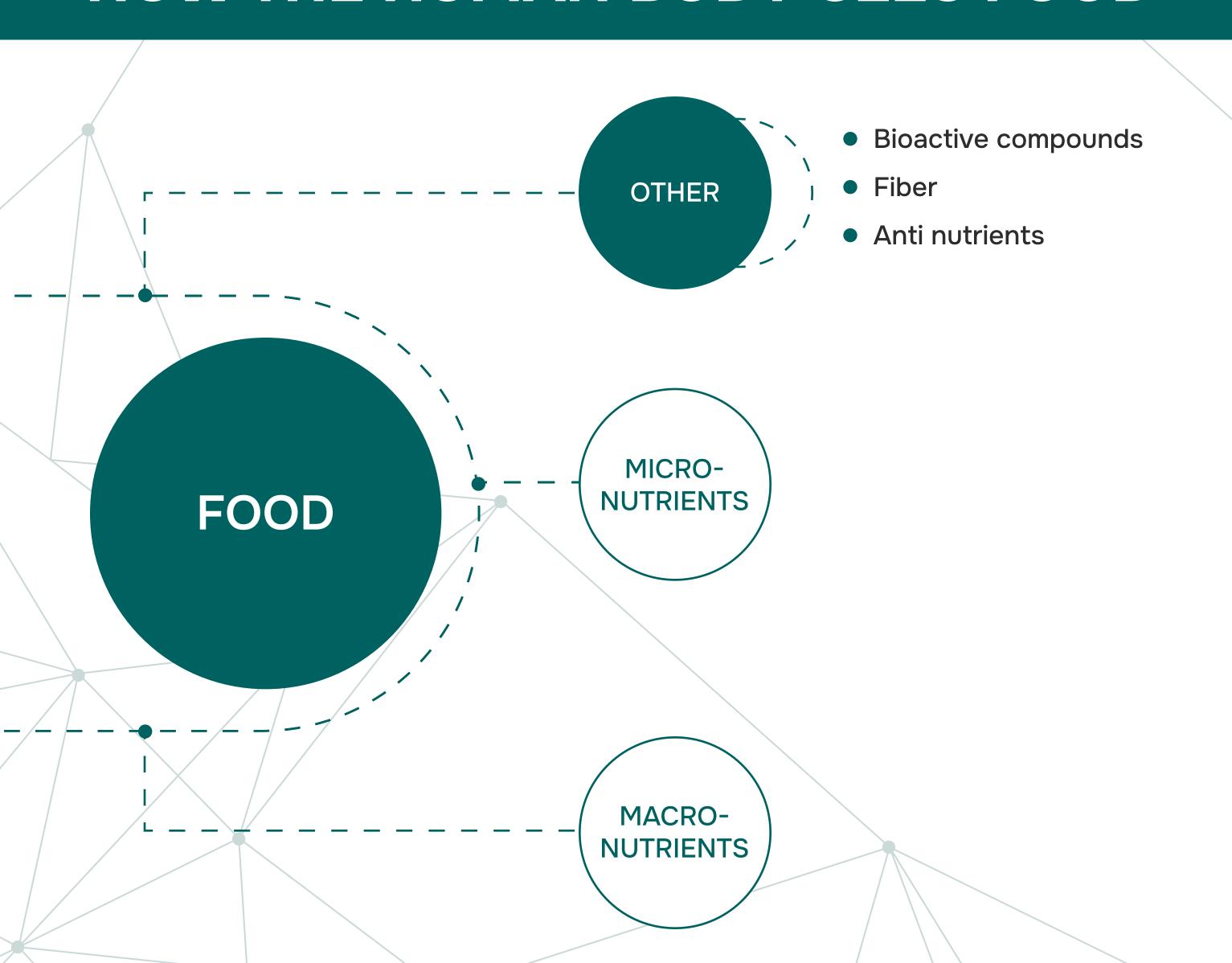


Good health concerns the care of the human body and everything that can be done to protect it from sickness and intoxication and enable access to care.



HOW THE HUMAN BODY SEES FOOD

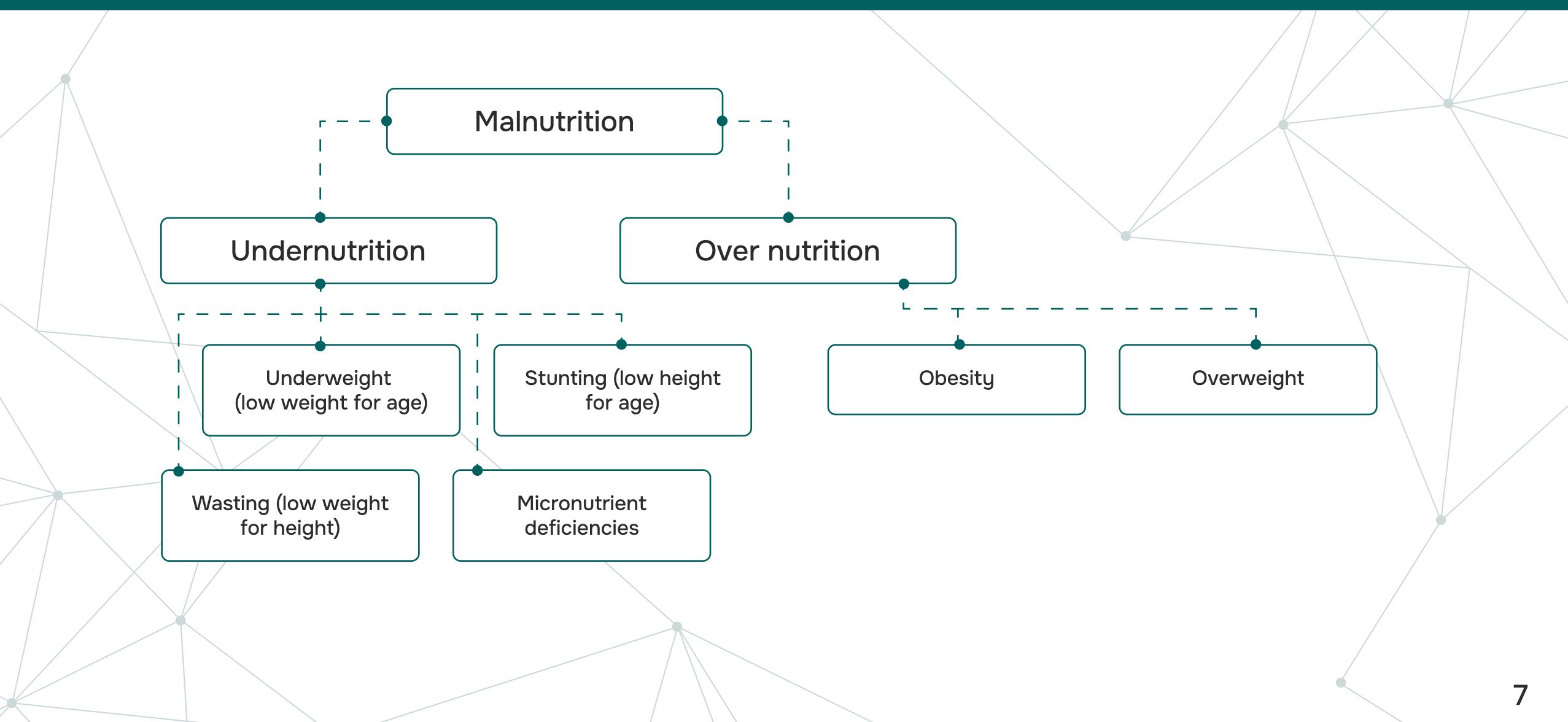






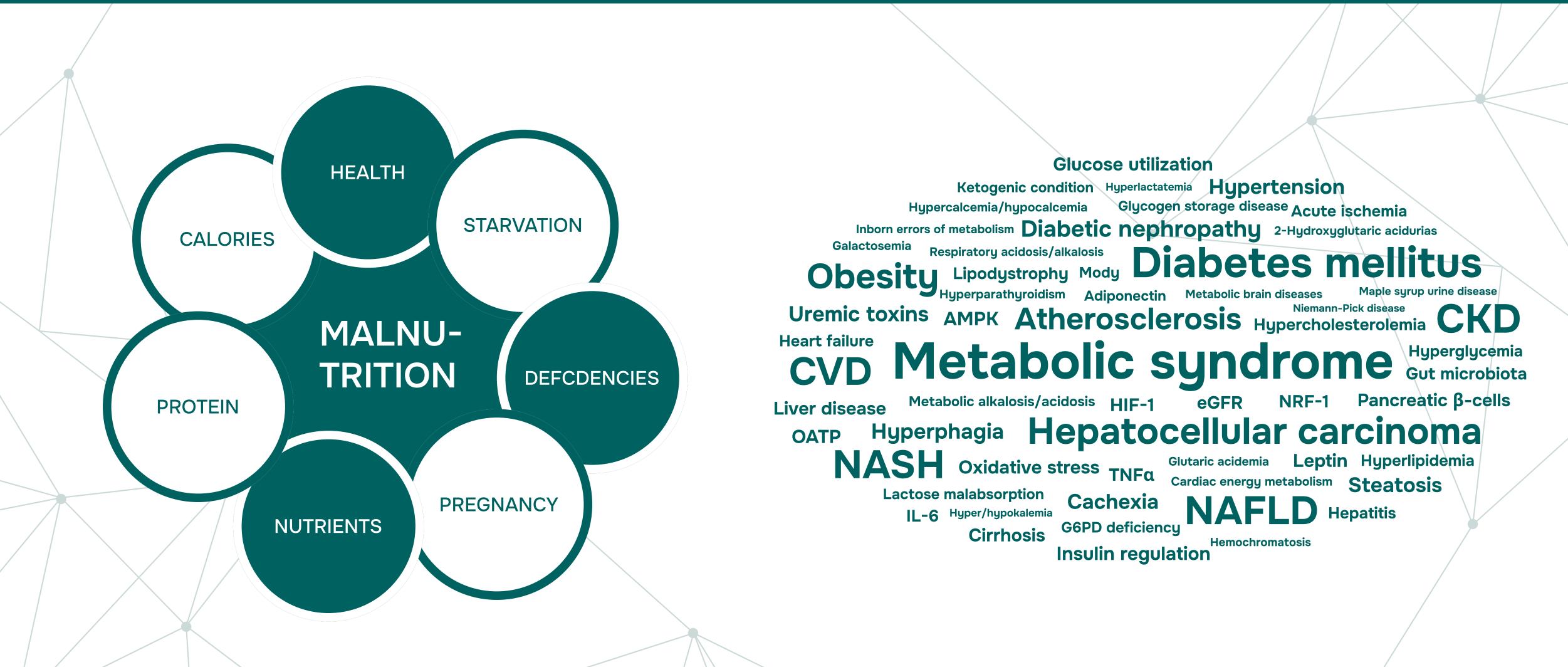
MALNUTRITION





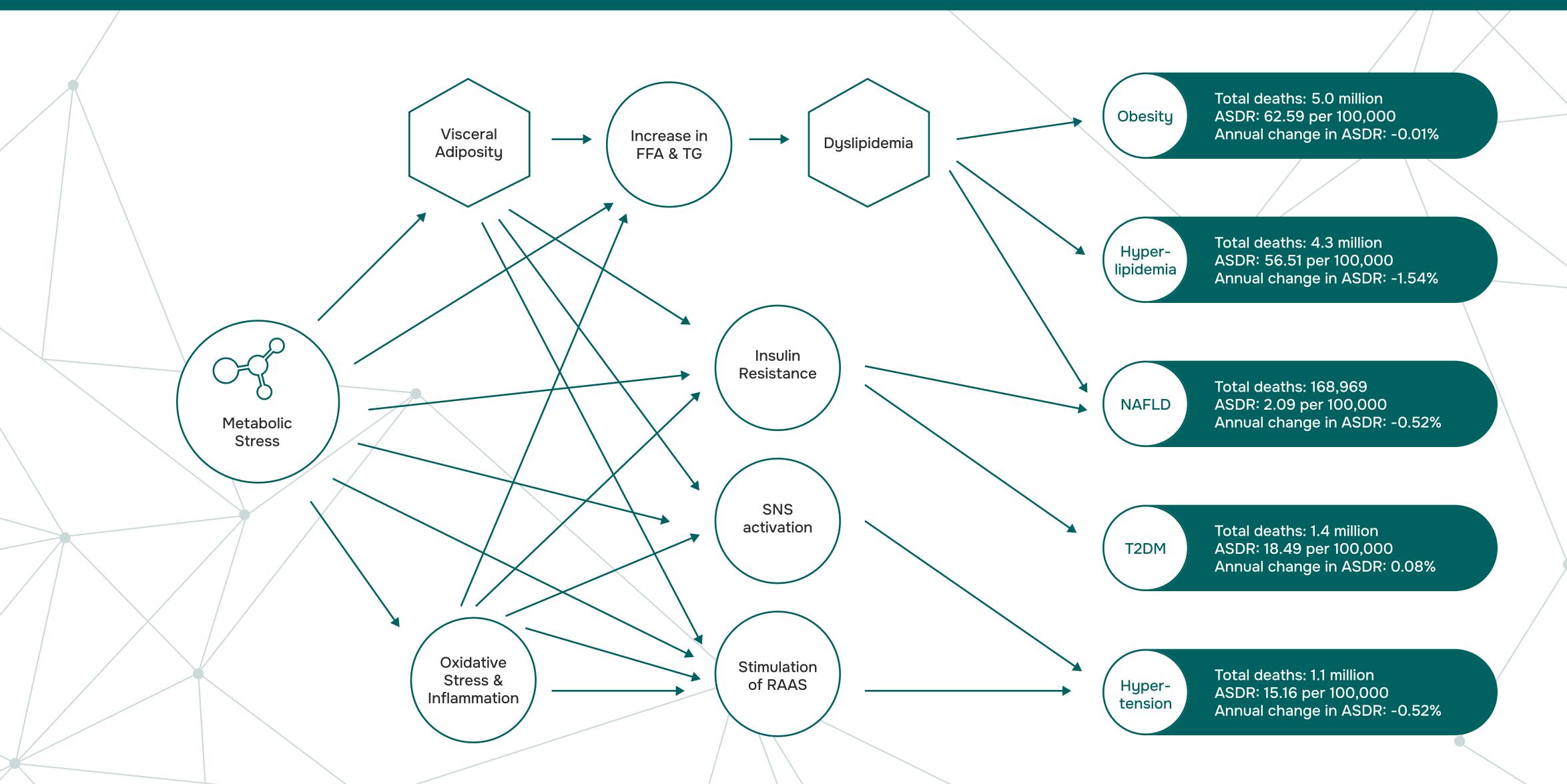
MALNUTRITION





METABOLIC DISEASES: PREVALENCE







Why do some populations stay slim when others are getting fat?

Food

Physical Activity



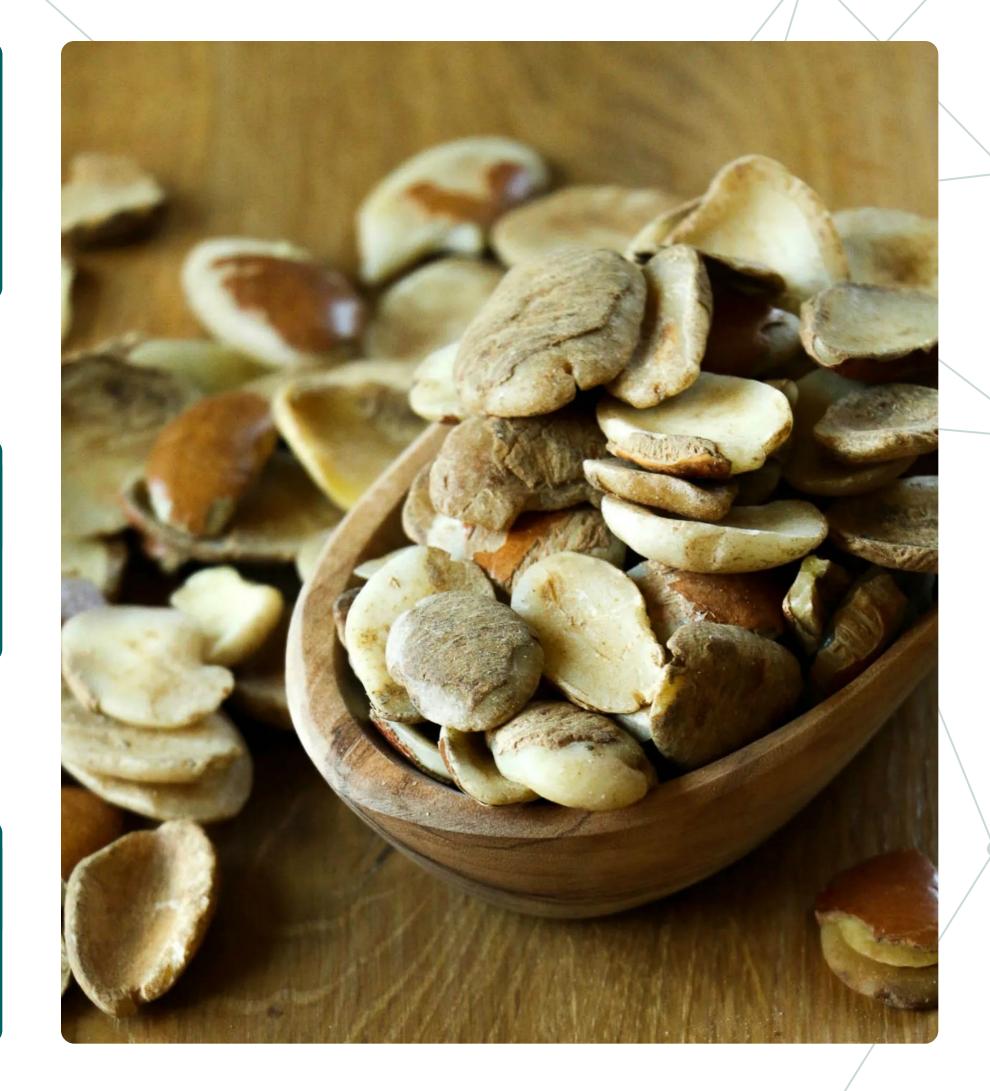
Extract (IGOB131)

Whole grain

Safety/ Clinical Trials / Patent

Market

Especially Repeat Sales









CISSUS QUADRANGULARIS

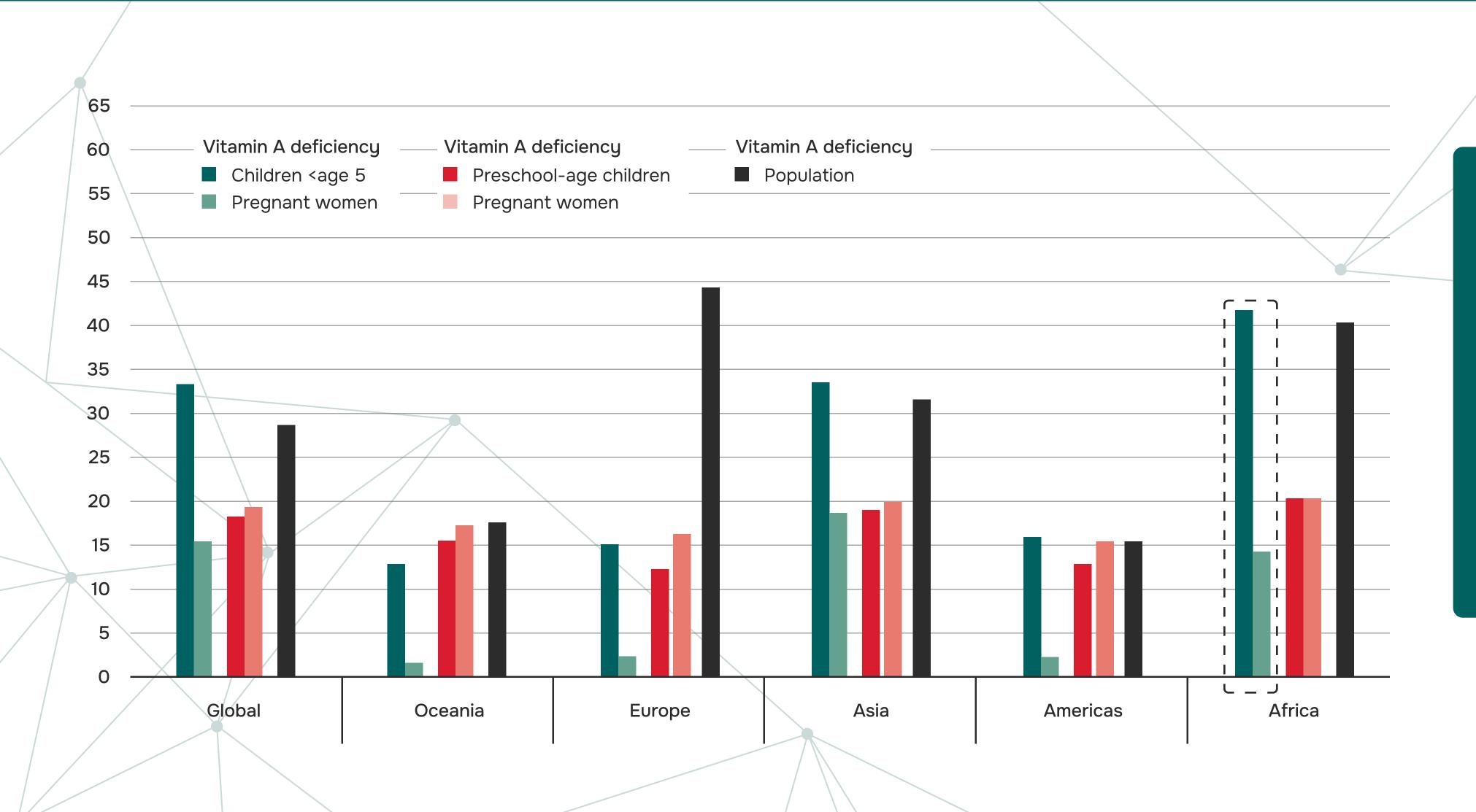
(cqr-300) resistant/ thirst & hunger quencher

DICHROSTACHYS GLOMERATA

(dyglomera™) – satiety / increase metabolism / glp-1 modulator

HIDDEN HUNGER IN THE WORLD





IRON

~ 1.6 billion

ZINC

~ 1.2 billion

IODINE

~ 1.8 billion

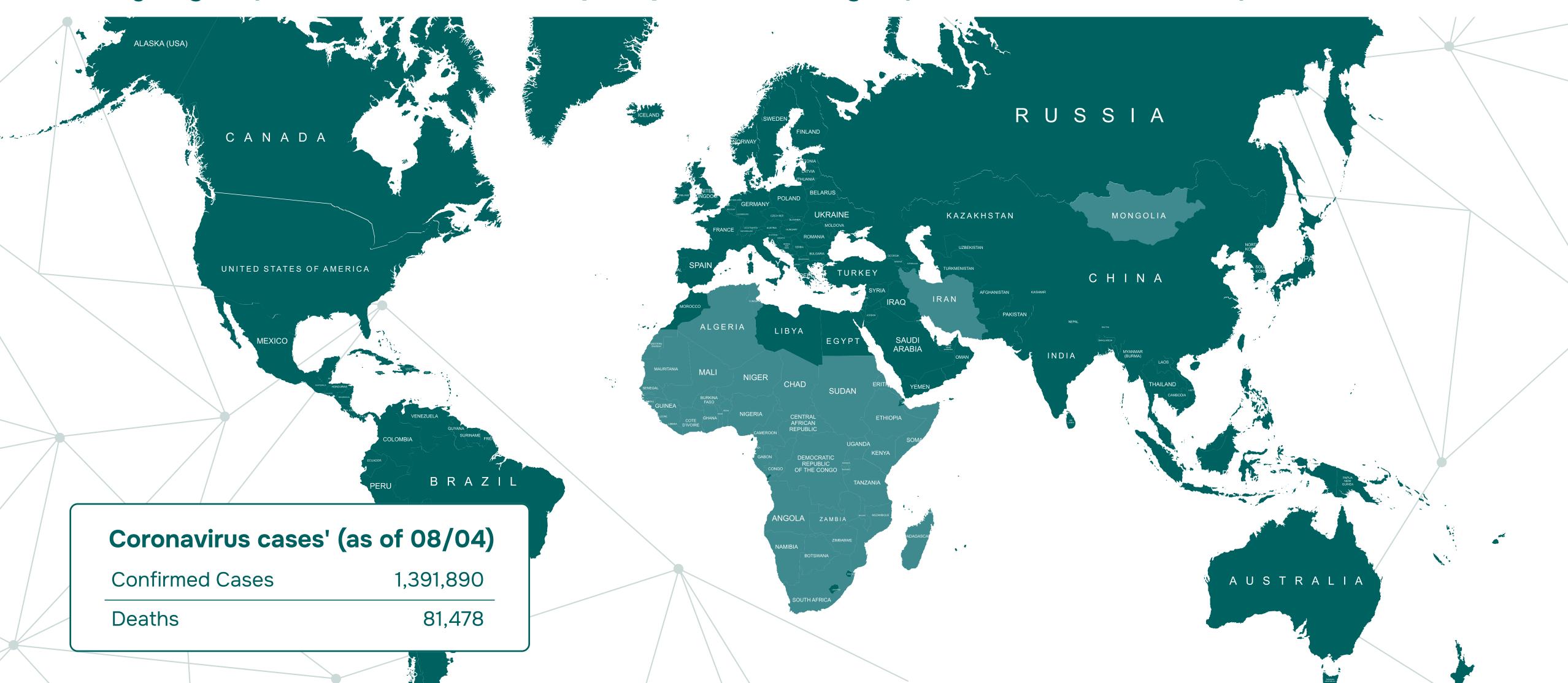
VITAMIN A

- ~ 190 million Pre-school age children
- ~ 19 million Pregnant women

HOW DID SUB-SAHARAN AFRICA MISS OUT ON THIS?



Emergency Response Coordination Centre (ERCC) | DG ECHO Daily Map | 08/08/2020 | COVID-19 pandemic worldwide



'STAR YELLOW' SOUP



in the fight against Covid-19 transmission – Africa's solution was effective because of our food (medicine)



Research question: How to curb the spread of COVID-19 via feces?

Proposed solution: Star Yellow (Yellow soup rich in zinc, and antiviral and antibacterial bioactives)

Methods: Formulation of Star Yellow by adding C. mannii and A. sativum; testing its acceptability by sensory evaluation

Result: Acceptability of 77.4 % for Star Yellow compared to 54.8 % for standard Yellow soup

Conclusion: Star Yellow could be a potential agent in the control of SARS-CoV-2 virus transmission via feces



unctional Foods in Health and Disease 2020; 10(8):324-325

Research Article

Open Access



The acceptability of 'Star Yellow,' a Cameroonian functional food that could curb the spread of the COVID-19 via feces

Julius Oben^{1*}, Jude Bigoga^{1,2}, Guy Takuissu¹, Ismael Teta³ and Rose Leke²

doi: 10.1097/HNP.0b013e318222735a

African mango (IGOB131): a proprietary seed extract of Irvingia gabonensis is found to be effective in reducing body weight and improving metabolic parameters in overweight humans

Stephanie Maxine Ross 1

Affiliations + expand

PMID: 21697664 DOI: 10.1097/HNP.0b013e318222735a

Randomized Controlled Trial > Lipids Health Dis. 2005 May 25:4:12.

doi: 10.1186/1476-511X-4-12.

The effect of Irvingia gabonensis seeds on body weight and blood lipids of obese subjects in Cameroon

Judith L Ngondi 1, Julius E Oben, Samuel R Minka

Affiliations + expand

PMID: 15916709 PMCID: PMC1168905 DOI: 10.1186/1476-511X-4-12

HERBALS AND NUTRITIONAL SUPPLEMENTS

African Mango (IGOB131)

A Proprietary Seed Extract of *Irvingia gabonensis* is Found to Be Effective in Reducing Body Weight and Improving Metabolic **Parameters in Overweight Humans**

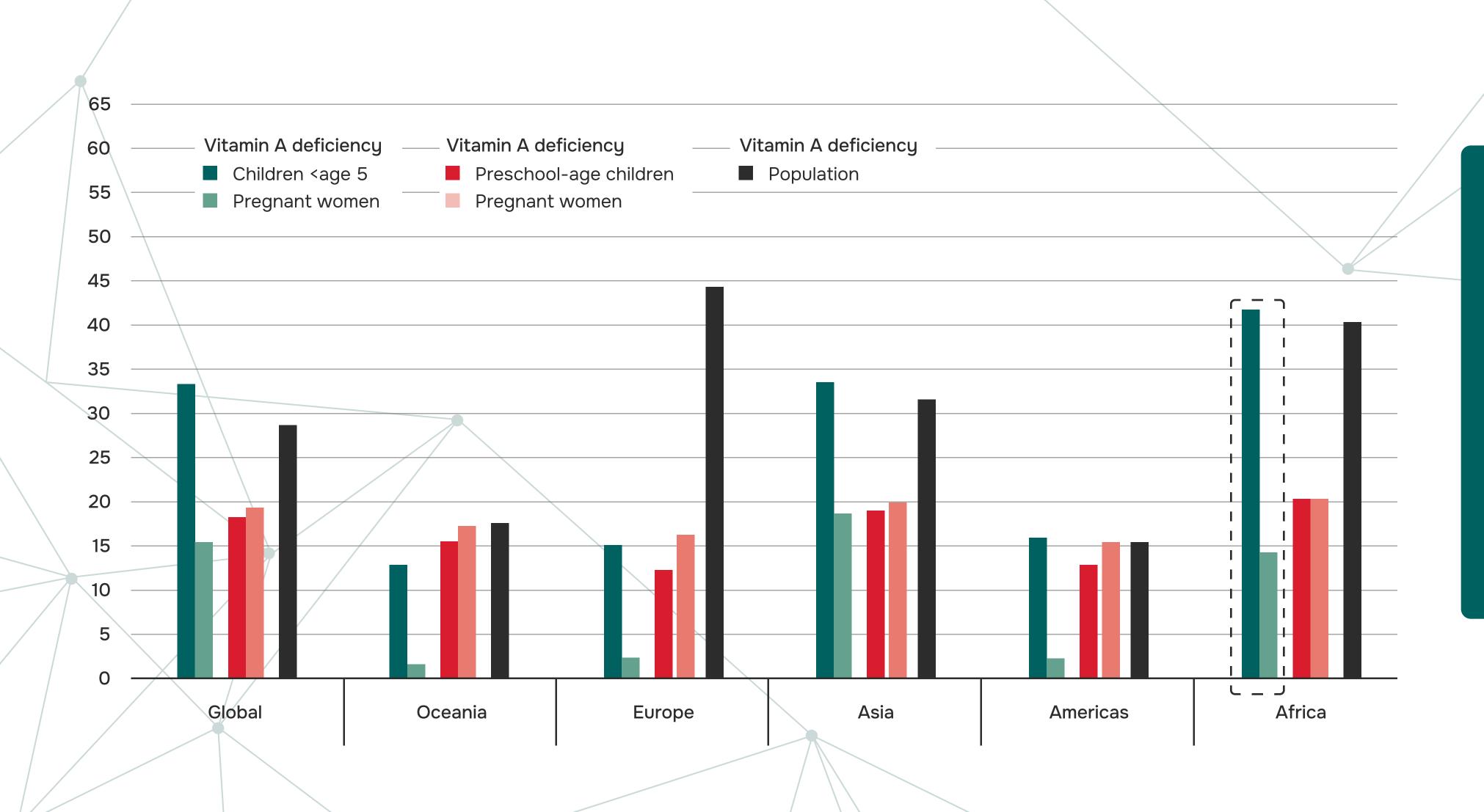
Ross, Stephanie Maxine MH, HT, CNC

Author Information

Holistic Nursing Practice 25(4):p 215-217, July/August 2011. | DOI: 10.1097/HNP.0b013e318222735a

HIDDEN HUNGER IN THE WORLD





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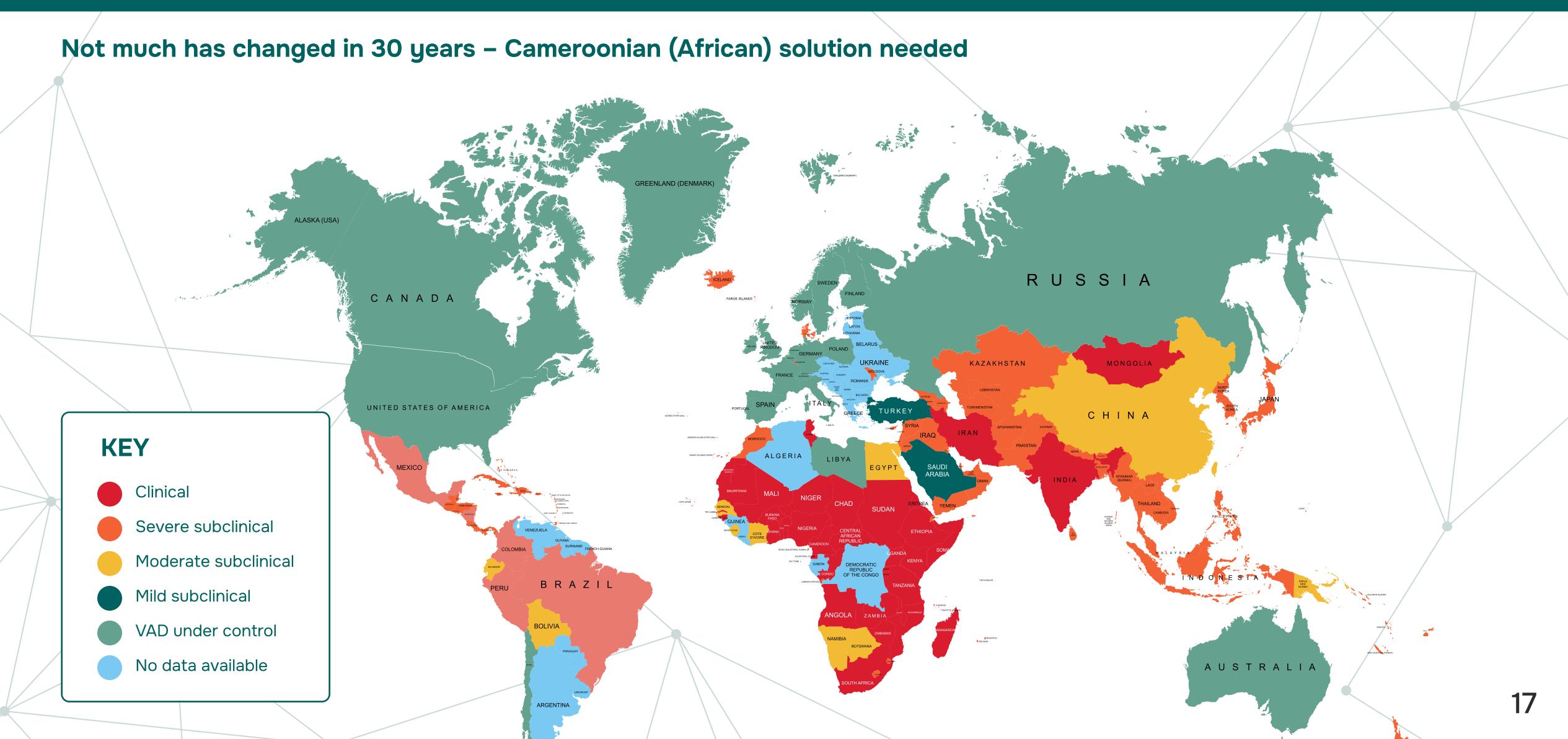
~ 1.8 billion

VITAMIN A

- ~ 190 million Pre-school age children
- ~ 19 million Pregnant women

VITAMIN A DEFICIENCY MAP





CAMEROON GOVERNMENT'S ACTIONS TO MANAGE VITAMIN A DEFICIENCY



In Cameroon, the government, through the Ministry of Public Health, with the support of UNICEF and HKI, is combating vitamin A deficiency by using Vitamin A capsules to supplement children aged 6-59 months every 6 months - twice a year.



Seventeen years of vitamin A capsules to supplement children aged 6-59 months every 6 months - twice a year - need to look for alternative sustainable solutions



STAPLE DISH IN THE NORTHERN REGIONS OF CAMEROON





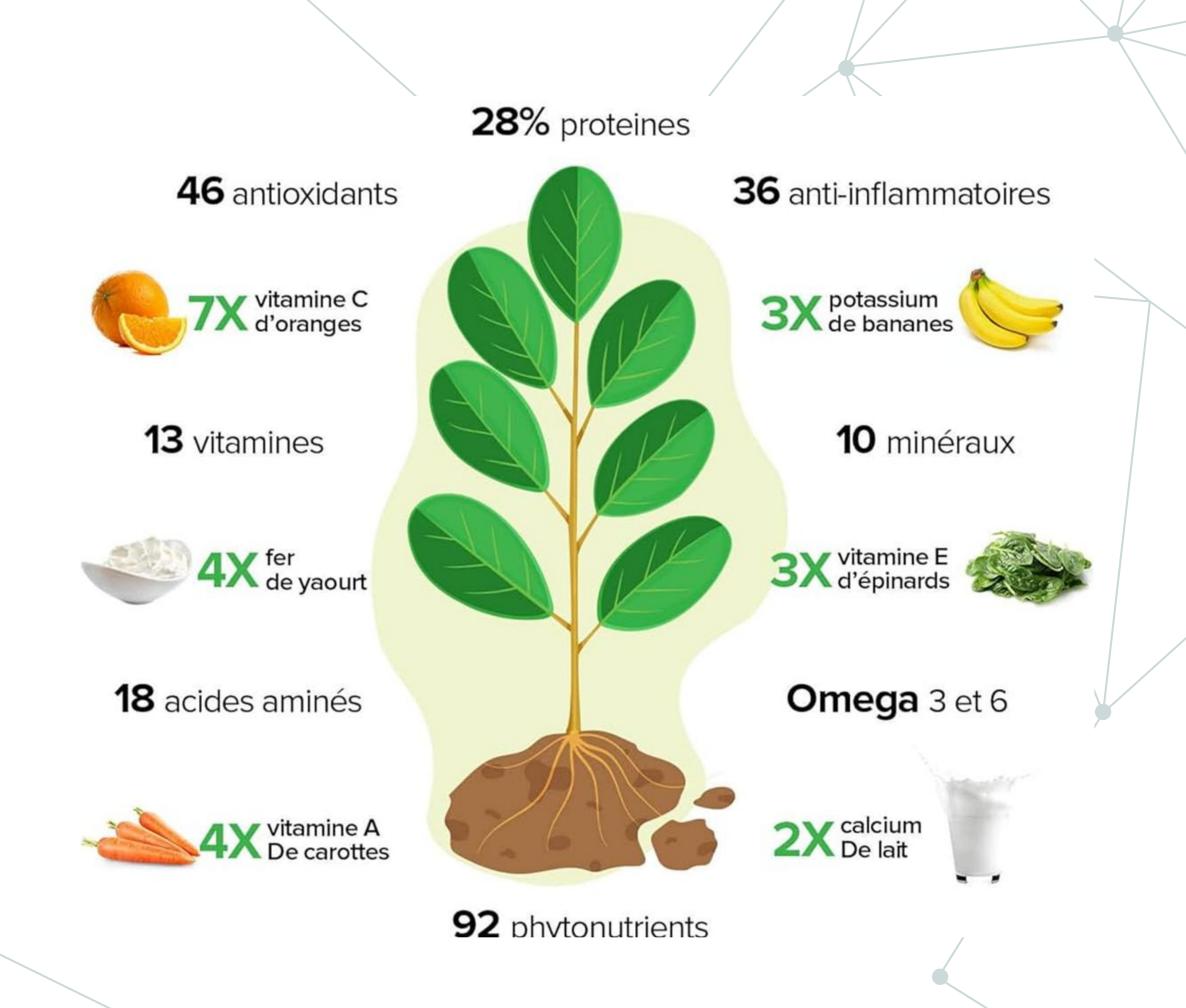
MORINGA SOUP

Application in functional foods of importance in the fight against hidden hunger

HARNESSING THE POWER OF (LOCAL FOODS) AND SUPERFOODS







HARNESSING THE POWER OF LOCAL SUPERFOODS



Specially made for Nutraceutical, Capsule, tablets, effervescent tablets, Gummies, Natural energy drink

Rich in many nutrients

Boasts powerful antioxidant and anti-inflammatory properties

May improve muscle strength and endurance, support blood sugar control

SPIRULINA POWDER



Good source of magnesium, manganese, and copper

Rich in the potent antioxidant phycocyanin

High in essential omega-3 and omega-6 fatty acids

One of the most protein-rich foods on Earth (71.90%)

MORINGA BASED PRODUCTS

















MORINGA OLIFERA OR TREES FO LIFE



PRODUCTS CONTAINING MORINGA

- Yoghurts enriched with Moringa
- Seasoned tomato powders enriched with Moringa
- Infant flours enriched with Moringa
- Moringa-based herbal drinks

Productsdeveloped by J&A Oben Foundation jnaobenfoundation.org





J&A OBEN FOUNDATION (JAOF) WORK ON VITAMIN A DEFICIENCY



COMPOSITION: Soyabean, Moringa & RPO, potato flour

A PILOT STUDY WAS CONDUCTED IN NORTH OF CAMEROON AMONG SCHOOL-AGE CHILDREN

Study duration: 6 weeks

Analysis: The results were analyzed using Student-t test

Children from 3 to 5 years (n = 40) Placebo group (n = 20)

Receiving potato chips

Test group (n = 20)

Receiving Soyinga chips

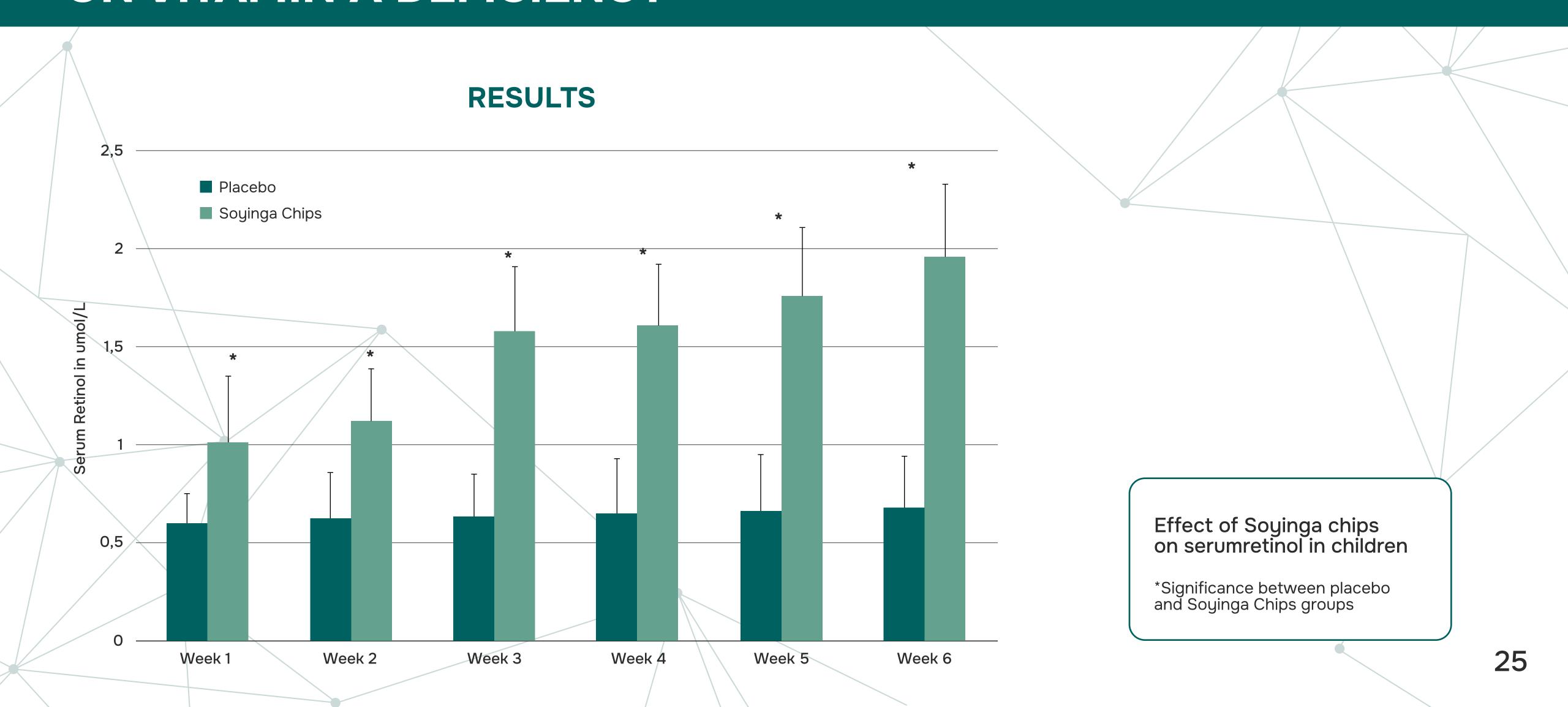
Each child received 25 g of chips/day

i.e. 5 days a week for a total of 125g/week

Each week, retinol was assessed in the serum of each child

J&A OBEN FOUNDATION (JAOF) WORK ON VITAMIN A DEFICIENCY





CONCLUSION AND KEY TAKEAWAYS





The importance of food as medicine can clearly be seen in the use and application of Cameroonian foods in the management of non communicable (lifestyle) diseases as well as diseases of poverty (hidden hunger). Their use by the food industry to produce functional foods should by considered and exploited.

THANK YOU FOR YOUR ATTENTION!

Julius Oben

Professor, University of Yaounde, Co-Founder of the J&A Oben Foundation Yaounde - Cameroon