

Wellness Leaders

Link Science.World.Canada.Community.Family

NEW

Layer by Layer Leadership & Collaboration

with Scientists, Professionals & Kids' Leaders

- 1st S.S.V Systematize, Simplify, Visualize Advanced Health-Related Science in the World
- Link Science to Daily Life Wellness Needs for Food Safety, Quality & Efficacy
- Smart Shopping & Manage Wellness S.E.S.E
 - Scientifically, Easily, Simple and Efficiently
 - 1) Deliver Community Service to: Newcomers, Immigrants, Seniors, Parents, Kids, Etc.
 - 2) Integration. Integrate / Combine Learning Health-Related Sciences / Industries, Speaking, Language, Culture, Arts, History, Contributions, Etc. into Smart Shopping & Wellness Management S.E.S.E
 - 3) Manage Wellness in Various Ways, Skills & have Fun: Writing, Speech, Drama, Comics, Report, Video, Arts/Music, Paint, Photography, Etc.

Be Own.Family Wellness Leaders

Level 2 - New Wellness Program 2 for Community - Adults

Designed by Global Wellness Leaders Top Talent - Scientists.Professionals.Kids Link Science to Community.Adults

New Programs to Support One Action: Shop Smart & Manage Wellness S.E.S.E



Link Science to Vast Community Wellness Needs from Seniors, Newcomers, Immigrants, Families, Kids/Teenagers, Etc. 1st Time to See such a Scene - Get Together with Scientists, Professionals, Kids' leaders, and Community

Learn . Practice . Lead

THE ASSOCIATION OF **CERTIFIED PROFESSIONAL NUTRITIONISTS**

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A Journey of Linking

Health-Related Science to World.Community.Family







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- * Smart Shopping According to Individual Wellness Needs, wellness plans.

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- * Wellness Management for Weight, Immunity, Seniors, Pregnancy, Maternal & Baby, Growth, Cardiac, Gout, Diabetes, Bone Joint, Cholesterol, Hypertension, Iron-Deficiency Anemia, Functional Juice with Fruits & Vegetables, Etc.
 - 1) Determine Individual Wellness Needs Wellness Tests & Scientific Assessment,
 - 2) Wellness Plan Micro To Macro, Efficacy Care / Optimize Solutions & Smart Match/ When We Face Too Much Industry Information, Enhanced Efficacy Nutrients Management
 - 3) Implement Plans by Smart Shopping According to Individual Wellness Needs, wellness plans.

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- * Understand Science behind Foods/Industries
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- 1) What are the Canadian Contributions of Science/Industry to the World/Human Health? Page 23 - Discover Insulin, Page 38- Functional Foods/Canadian Berries, Page 39 - Oats.
- 2) How could Canadian Health-related Sciences / Industry/Natural Products / Contributions **Guide/Benefit** our Wellness Management Efficiently?







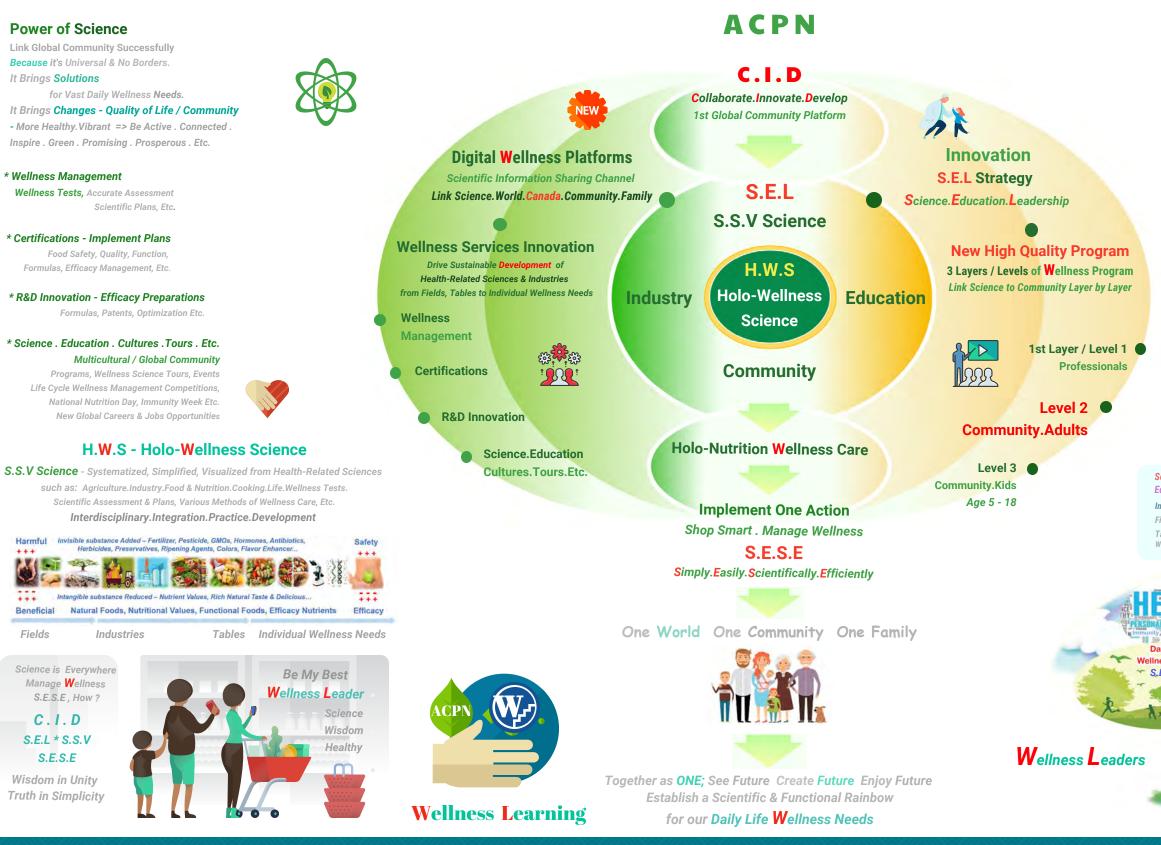
World's Leading Community Wellness Platforms

A Platform of Linking Advanced Science to Vast Daily Life Wellness Needs for Community Well-being By C.I.D * S.E.L Visualization of all fields Health-Related Science / Holo-Wellness Science to Manage Wellness Easier



Help Green Economy Recovered & Led by C.I.D * S.E.L

Establish the Bridge of Wellness Science based on the Canada's Advantages in Global - Science * Education * Top Talent





Holo-Wellness Science Education

for Community is the Most Powerful Weapon We Can Use to Make the World Healthier

- **Designed by Global Wellness Leaders**
- Top Talent Scientists.Professionals.Kids
- * S.S.V Science Systematize.Simplify.Visualize
- Link Science to Daily Wellness Needs Layer-by-Layer
- * 3 Layers / Levels of Wellness Program - Understand the Science Behind One Action: Shop Smart . Manage Wellness S.E.S.E
- * Level 1 Program for Professionals Link Science to Community
- Community Leadership Community Wellness Leader
- Holo-Wellness Science & Holo-Nutrition Wellness Care - New Career & Job for Students / Coach.Teacher. Etc.

* Level 2 - Program / Multicultural Platform

- for Adult.Newcomers, Etc. Link Science to Family
- Family Leadership & Be My Own Wellness Leader
- Life Cycle Wellness Management
- Visualize & Integrate Learning Science, Language, Culture, Arts, Etc. into Wellness Management & Smart Shopping S.E.S.E
 - * Level 3 Program / Global Community Platform for Kids, Young People, Etc - Link Science to Kids



- Kids/Youth Innovation . Kids' Leadership. Future Careers - Programmed by Kids' Leaders - Young Educators & Reporters Manage Wellness Scientifically Since Childhood (Age 5 - 18)
- Visualize & Integrate Learning Science, Arts, Language, Culture, Digital Skills, Etc. Into One Action: Wellness Practice & Have Fun

- Kids Lead Kids.Family.Community - Global Kids' Wellness Leaders

Science Leaders Scientists Professional Multicultural Community Newcomer. Family. Senior. Parent. Kids' Leader Education Insight Determine Compassion Commit Collaborate Listen Encourage Inspire Integrate Scientific Practice

Industry Vision Mission Fields Action Innovation Enjoy

Wellness Leadership

Strategy Laver-by-Laver Nimble Pragmatic Time

Table Communication Respect Honest Humility Appreciation Unselfish Patient Responsible Insist Progress New Wellness Needs Core Values Principles Partner Opportunity Change Sustainable Capacity Accept Healthy Vibrant



Teams Layer-by-Layer for Community Wellness Platforms

Team Together - Link Science to the Community Layer-by-Layer To Achieve Great Wellness Design 3 Layers of Wellness Programs to Support One Action: Shop Smart & Manage Wellness S.E.S.E Designed by Top Talent - Global Wellness Leaders - Scientists.Professionals.Kids

Management Team Collaborate with Professional Team & Link Science to Community

Layer-by-Layer Leadership & Collaboration from Management Team to Community Services Team and Volunteer Team

Carrie Wei

Thomas Lin

Rafik Ragheb

Evan Moriarity

Paul Kearns Jean-Michel Fitaman



Community Services Team







Systematize, Simplify & Visualize Health-Related Science & Link Science to Daily Life Needs to Make Health Easier

Layer-by-Layer Leadership & Collaboration from Scientific Advisors, Professionals & Practitioners to Kids' Leaders

Scientific Advisors Link Science to **Daily Life Wellness Needs Holo-Wellness Science**



Professionals & Practitioners Team Link Science to Family

Be my Own Wellness Leader Guided by Scientific Advisors Feedback to Scientific Advisors Holo-Nutrition Wellness Care Life Cycle, Micro to Macro **Optimize Personalized Solutions**

Kids' Leaders Team Link Science to Kids

Guided by the Scientific Advisors & Professionals

Kids Lead Kids.Family.Community -**Global Kids' Wellness Leaders**

Young Educators & Reporters "The Young Children will be the Future Educators and Examples of Healthy Living for the Future Generations." By Dr. Bruce Holub





Professional Team

New Community Wellness Programs

Systematize, Simplify, Visualize Health-Related Science to Make Health Easier Link Science to Daily Life Wellness Needs and Manage Wellness Simply and Efficiently

Science Support to Achieve Great Wellness





Science Support for Wellness

Visualize Science

Level 2 - New Wellness Program for Community - Adults

Mission Accomplished / General Holo-Wellness Science Education for Community Help Link Science to Daily Life Wellness Needs

Examples - Program & Workshop Designed by Professionals & Practitioners

Holo-Health Science Support Team

Layer-by-Layer Leadership & Collaboration from Scientific Advisors, Professionals & Practitioners to Kids' Leaders

Scientific Advisors Link Science to Daily Life Needs

Professionals &



Flizabeth Li (14)

By Dr. Bruce Holub

Holo-Nutrition Wellness Care

- The Future Of Food Is Personal
- Life Cycle Immunity Boost For Kids, Adults And The Elderly
- Macronutrients And Insulin Resistance
- Child Obesity-early Life Nutrition And Adult Cardiovascular And **Metabolic Diseases**
- Maternal Nutrition Health Care Diet And Anemia
- Common Diseases And Nutrition Of Infants And Young Children
- Bone Health And Osteoporosis, Arthritis And Joint Health
- Free Radicals And Aging
- Yogurt Probiotics And Gut Health
- Case Study Healthy Eating Lifestyle For Modern Family
- Case Study Family Nutrition And Healthy Growth Of Children
- Case Study Macro-nutrients And Insulin Resistance
- Case Study Immunity In Cancer And Immune Nutritional **Supplements**
- Case Study Cholesterol & Cardiovascular Disease (CVD)
- Case Study Dietary Salt And Hypertension
- **Case Study Iron-deficiency Anemia**
- Case Study Gout Diet And Self-nutrition Care To Avoid Next Attack
- **Case Study Constipation**
- Case Study Meal Replacement, Nutrition And Diabetes
- Case Study Calcium Supplementation With Stones
- Case Study Nutrition Health Care Kids' Eczema
- Case Study Trigeminal Neuralgia And Nutritional Health Care
- Case Study Hypertension Is Complicate
- Case Study Stay Away From Obesity
- Case Study The Effect Of Lectins In Food And Weight Management
- Case Study Autoimmunity And Nutrition

Wellness Leadership

Community.Family.Kids, Speech Skills etc. for Wellness Science

General Holo-Wellness Science Help Implement Wellness Plans - Industry / Food Safety, Quality, **Functional Nutrients & Smart Shopping** Natural health product regulations in Canada and how to evaluate the guality of a natural health product, maintain a calm, wise judgment ?Understand the Science & Information behind the Product Six Vital Steps Help Understand Food Safety, Quality & Efficacy Health Care Comparison of Regulations in different countries - Understand Food Safety, **Quality & Efficacy Nutrients from Global Vision & Smart Shopping**

- products
- Canada



How to Filter Health Products - Use common sense to screen health

 Case Study – Gain insight into the Products & be Smart Canadian Berries & Efficacy Nutrients - Healthy Food Developments in

 Fiber. Oats & Efficacy Nutrients - Canada's Contribution to Functional Food Fiber Science & Canada's Contribution to Global Health • Dietary Fibers in our Daily Life Antioxidant active ingredients in fruits and vegetables Hypoglycemic functional food, fat-lowering functional food Health benefits of dietary fiber · How to shop for kids' snacks, drinks, instant noodles, oats etc. • How to read nutrition facts & ingredients on food labels?

Food additives and food safety, amino acids and active peptides



ACPN Online Workshops

ACPN Online Workshops

Respond to the needs of those most vulnerable to the health, social and economic impacts of COVID-19.

Special Thanks / Proudly Supported by

Government of Canada's Emergency Community Support Fund lead by Employment and Social Development Canada (ESDC) The Canadian Red Cross (CRC)

Designed by Global Wellness Leaders Link Science to Community Professionally **New Programs to Support One Action** Shop Smart & Manage Wellness S.E.S.E Simply.Easily.Scientifically.Efficiently



Canada



Croix-Rouge Canadian **Red Cross** canadienne



Wellness Leaders



Wellness Needs



Thank You Letter

from Ms. Renée Xu (rxu@ccscan.ca) **Catholic Crosscultural Services (CCS)**

The Chronic Pain Relief Management workshop was a big success! Most of the senior members attended the live workshop. There were also a few younger participants from another group who need professional knowledge for their family members or themselves.

According their feedback, they appreciate the informative and in-depth presentation. Julia is knowledgeable on the topic and shared both scientific information and firsthand experience as a practitioner. I was impressed by your collaboration with Julia during the presentation.

This workshop is particularly beneficial to participants on the possible causes of chronic pain, everyday coping tips through food and movement, and how to choose the right health products.

We also appreciate that your speaker spending extra time on answering questions.

Thanks again to ACPN's support and effort!

Example of Online Workshops

Layer by Layer Leadership & Collaboration Link Systematized, Simplified, Visualized Sciences to Community Manage Pain Easily, Simply and Scientifically

Organizer: CCS & ACPN

Ms.Renee Xu / CCS Ms. Carrie Wei / ACPN **Host** : Ms. Sandy Liang/ACPN **Speaker**: *Ms. Julia Wong/ACPN*



Online We-chat Workshop on Oct. 15, 2020 **Chronic Pain Relief Management for Chinese** Senior Wellness Group







an has been linked to cancer, heart disease, diabetes, and Alzheimer's Fight inflammation with a healthy ANTI-INFLAMMATION FOODS























Screen Snap from We-Chat Workshop



Stories of Linking Science to Vast Community Wellness Needs

Then today's lecture may end here. There is more information. If you have any 教育福祉的教証的後期性が A questions, you can write it in the group or ask Rene to forward it to me, or contact me. 19* Thank you. 那今天讲座可能就到这里, 信息比较多, 如果 大家有什么问题的话啊,可以写在群里或者请 瑞内转发给我都行,或者联系我,谢谢大家。 **Q & A** How to treat thumb tenosynovitis ? 大拇指腱鞘炎怎么治疗 **Screen Snap** Teacher, I want to do the tests. Where is the tests? Where should I go to do tests? Ø4. From Online 老师要测试,在哪个地方测试呢? If you want to know about the test, please 到什么地方去测试啦? We-Chat contact me and we will recommend wellness tests based on individual needs. 教育成在经验站的建康性现 Workshop 如果希望了解测试、请联系我,我们将会根 据您的具体情况推荐相关的健康检测方案。 如果测察 Special Thanks to the Government of Canada's **Emergency Community Support Fund lead by** Employment and Social Development Canada (ESDC) the Canadian Red Cross (CRC) Is this fish oil content/concentration okay? Canada 角油含量可以吗? **Croix-Rouge** Canadian canadienne **Red Cross** The concentration of this fish oil is more than 60%, but we don't just look at the concentration when we eat fish oil,

because a lot of fish oil is very easy to stain

which means it's very easy to oxidize, so

you should check/taste it when you eat it.

这个鱼油的浓度是有六成以上,但是我们吃鱼油不是光看 浓度还要看,因为非常多的鱼油,它是很容易染色,就是 很容易氧化掉的,所以你吃的时候还要看一下它的味道...



Daisy ...

Xie

Bing

Sway

阿兰

Lucy

ZHS缅

天王

ACPN.

Tina



Wen ...





常仁

乔波

荔枝





Small-.

欠幅

明月

yang gu



雨清澈

















Leozou monkey

Group Announcement For Chinese Senior Wellness Group

adena

Hello everyone, this is an online event organized by Aijingge Library, specifically for the elderly during the new crown epidemic. Add a color to everyone's entertainment life in this special period of comprehensive anti-epidemic.

Stories of Linking Science to Vast Community Wellness Needs



New Wellness Program for Community

Link Science to Community

Shop Smart . Manage Wellness S.E.S.E - Simply.Easily.Scientifically.Efficiently

Examples of Designed Topic for Life Cycle Wellness Management

- 1. Case Study: Link Science and Manage Wellness in Daily Life
- 2. Understand Individual Health Needs
- 3. Develop and Implement Wellness Plans, and Manage Wellness Easily, Simply & Scientifically
 - The History of Inflammation & Immunology
 - Immune Response to Food, Inflammation & Disease/Scientific Choice of Food
 - Immune Response to Food/Elevated, Borderline & Normal/Scientific Choice of Food
- Mineral Balance Nutritional Mineral Ratios & Health
- Life Cycle Health Care with Omega-3 & Testing
- Blood, Immunity & Immune Nutritional Foods & Efficacy Nutrients
- How Can We Eat Healthy And Delicious ?
- About Auto-intoxication & Solutions
- Case Study Macro-nutrients and Insulin Resistance & Low-Carb Sugar-Free Cookies /Observing the history of scientific development, catch internal changes & grasping the fundamentals of health
- Case Study Cholesterol & Cardiovascular Health Nutrition Care
- Case Study The Truth About Cholesterol
- Case Study Dietary Salt and Hypertension
- Case Study Hypertension Is Complicated Case Study
- Case Study Nutritional Balance & Iron-Deficiency Anemia
- Case Study Healthy Eating Lifestyle For Modern Family
- Case Study Family Nutrition & Healthy Growth of Children
- Functional Juice with Fruits & Vegetables

Implement Wellness Plans

Understand Science behind Industries for Food Safety, Quality, Functional Nutrients, and Smart Shopping

- Natural health product regulations in Canada and how to evaluate the quality of a natural health product, maintain a calm, wise judgment, Understand the Science & Information behind our Foods
- Six Vital Steps Help Understand Food Safety, Quality & Efficacy Wellness Care
- Comparison of Regulations in different countries Understand Food Safety, Quality & Efficacy Nutrients from Global Vision & **Smart Shopping**
- How to Filter Health Products Screen health products Guided by Science
- Case Study Gain insight into the Products & Smart Shopping
- Know Canada: Canadian Berries & Efficacy Nutrients Healthy Food Developments in Canada
- Fiber, Oats & Efficacy Nutrients Canada's Contribution to Functional Food
- Fiber Science & Canada's Contribution to Global Health
- Dietary Fibres in our Daily Life



Manage Wellness S.E.S.E Simply.Easily **Scientifically** Efficiently







General Health-Related Science Education Linking Science to Daily Life Wellness Needs Guide Wellness Plans - Scientific Assessment

The History of Inflammation & Immunology

Dr. Rafik Ragheb,

Med Lab Program Chair-Anderson College Medical Laboratory Technician Program Chair at Anderson College, a Clinical Scientist, Biochemist (CSCC) and AACC in USA, a licensed MLT, and Faculty for Laboratory Medicine.



The History of Inflammation

The history of inflammation goes back to thousands of years. The history of inflammation is long and colorful, with descriptions of this process dating back to the ancient Egyptian and Greek cultures. Terms, like edema, which are still used to describe inflammation, were introduced by Hippocrates in the 5th century BC. He also regarded inflammation as an early component of the healing process after tissue injury. Aulus Celsus, a Roman writer who lived between 30 BC and 45 AD, described the main four signs of inflammation as redness, warmth, swelling, and pain.

The 20th century was marked by rapid advancements in understanding the nature and underlying mechanisms of the microvascular responses to inflammation. The development of new in vivo models of inflammation, methods to capture and store images of the microcirculation, and the application of mathematical and engineering approaches to quantify variables such as leukocyte adhesion, vasomotor function, and vascular permeability allowed the field to move forward at a greatly accelerated pace. This period also brought new chemical methods that enabled the discovery of different inflammatory mediators and coagulation factors. With the advent of the electron microscope came the first descriptions of the fine structure of the endothelial cell and other components of the vessel wall. In recent years, important additions to the armamentarium of inflammation researchers have come from the fields of molecular biology and immunology.

References:

- Ley K. The microcirculation in inflammation. In: Handbook of Physiology: Microcirculation (Tuma RF, Duran WN, & Ley K, eds.), Chapt. 9, pp. 387–448, Academic Press, San Diego, 2008.
- Granger DN, Rodrigues SF, Yildirim A, Senchenkova EY. Microvascular responses to cardiovascular risk factors. Microcirculation. 2010; 17: 192–205.10.1111/j.1549-8719.2009.00015.x.
- Palade GE, Simionescu M, Simionescu N. Structural aspects of the permeability of the microvascular endothelium. Acta Physiol Scand Suppl. 1979: 463: 11–32.

News on Web: https://cmidinc.ca/news-and-events

Topic on National Nutrition Day: Dr. Rafik Ragheb addressed the impact of nutrition on the immune system functions and why it is important to test for specific inflammatory markers (Cytokines). This highlights the importance of screening our body's immune response to monitor, intervene and diagnose diseases such as cancer, dementia, diabetes, cardiovascular and lipid disorders.

What Happened in our Body?

ess, San Diego, 2008. 8719.2009.00015.x.

⁻ Rocha e Silva M. A brief survey of the history of inflammation. 1978. Agents Actions. 1994; 43: 86–90.

Any Substance (including foods) entering the Body will Stimulate our Immune System

to Produce an Immune Response which may Damage our Immunity

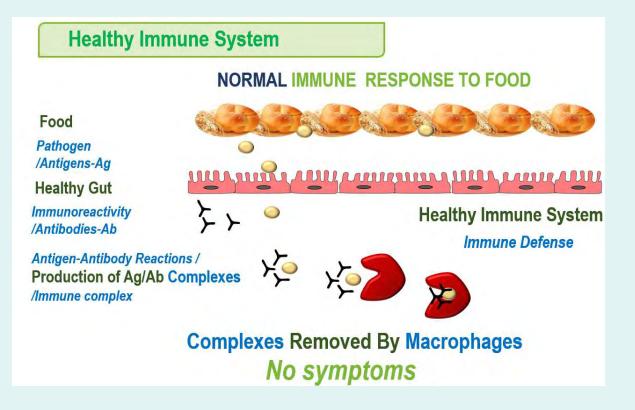
Immune Response to Food, Inflammation & Disease / Scientific Choice of Food

Any substance (including food) entering the body will stimulate immune system to produce an immune response

- Immune response causes inflammation in the body
- Different foods cause different levels of inflammation∏
- Long-term low-level, insensible, systemic inflammation brings disease
- Modern scientific tests such as Food Sensitivity Test (FST), Immunoglobulin G/ IgG Test which help scientifically select foods - avoid foods that cause higher inflammation (High Antibody Food). For Example, if the test just shows there are elevated levels of antibodies to yeast found in food(High Antibody Food) and therefore that foods containing yeast should be avoided or replace with a similar food to reduce the risk of diseases.

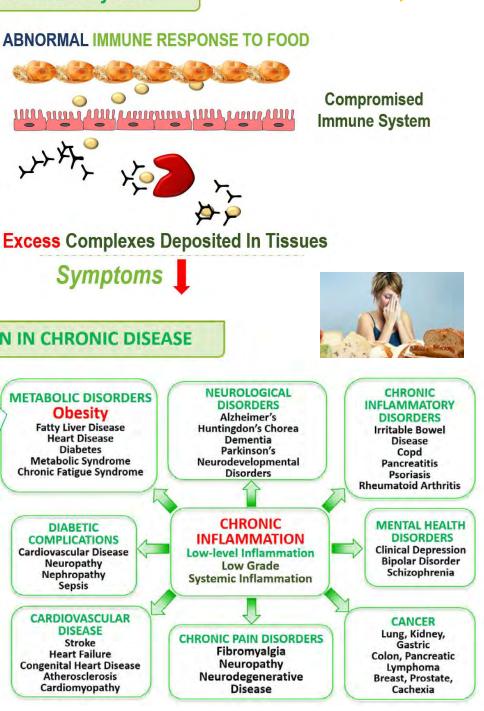
Food sensitivities (intolerance) are not food allergies, but rather a condition that can cause symptoms over a long period of time. The slow development of food sensitivity symptoms often means there is not an obvious link between foods eaten and symptoms, and as a result they are difficult to diagnose. This makes food sensitivity reactions very different from food allergies, where reactions are usually noticeable immediately and easily diagnosed.

Pathogen(cause of disease) - an infectious microorganism or agent, or simply a germ, such as a virus, bacterium, protozoan, prion, viroid, or fungus.



Compromised Immune System





INFLAMMATION IN CHRONIC DISEASE

Obesity is caused by the chronic lowlevel inflammation of white adipose tissue associated with the activation of the immune system.

Choose Foods **Scientifically**

Choose the Right Foods to Boost our Immunity Avoid the Foods which may Damage our Immunity



Immune Response to Food/Elevated, Borderline & Normal Scientific Choice of Food

Elevated / High Antibody Food

	EL	EVATED FOODS (230 U/ml)			-		TORMAL FOODSCommode	-	
	-			-	4 Buckwheat	2	Date	0	Bean (Green)
2 Ginkgo 14 Pea	47	Agar	34	Cranberry Cockle (Saltwater Clam)	4 Cinnamon	2	Dill	0	Blackberry
		Plum	33		4 Cod	2	Grapefruit	0	Blueberry
Corn (Maize) Yeast (Brewer's)		Bean (Red Kidney) Almond	33 33	Egg White Yeast (Baker's)	4 Cucumber	2	Honey	0	Caper
Barley		Milk (Cow)	32	Periwinkle	4 Goat	2	Melon (Galia/Honeydew)	0	Carob
Milk (Sheep)		Pistachio	32	Potato	4 Lamb	2	Nectarine	0	Chamomile
Mussel		Clam		1 Culto	4 Lemon	2	Onion	0	Cherry
Cola Nut		Cashew Nut			4 Lychee	2	Peach	0	Cilantro
					4 Raspberry	2	Quail	0	Clove
	BOR	DERLINE FOODS (24-29 U/ml	0		4 Red Currant	2	Sardine	0	Couscous
					4 Rosemary	2	Spelt	0	Crab
Beta-Lactoglobulin	27	Mustard Seed	24	Oyster	4 Scallop	2	Strawberry	0	Cumin
Lenti	27	Wheat	24	Squash (Butternut/Carnival)	4 Sea Bream (Red)	2	Tangerine	0	Duck
Aloe Vera	24	Bean (White Haricot)			4 Shrimp/Prawn	2	Transglutaminase	0	Eel
					4 Turkey	2	Watermelon	0	Eggplant
					4 Zucchini	1	Basil	0	Garlic
		NORMAL FOODS (S23 U/ml)			3 Anchovy	1	Beet	0	Macadamia Nut
				1000	3 Apple	1	Broccoli	0	Milk (Buffalo)
Brazil Nut		Hake	6	Cuttlefish	3 Beef	1	Caviar	0	Millet
Radish		Peanut	6	Ginger	3 Cabbage (Red)	1	Chard	0	Mint
Malt	11	Avocado Lobster	6	Hops Mackerel	3 Chicken	1	Chestnut	0	Nettle
Celery Bean (Broad)	11	Salmon	6	Monkfish	3 Cocca Bean		Chilli (Red)	0	Partridge
Espaguette (Spaghetti Algae)		Cane Sugar	6	Nutmeg	3 Grape (Black/Red/White)	1	Coconut		Pepper (Green/Red/Yellow)
Mushroom		Lime	6	Orange				0	
Octopus		Razor Clam	6	Peppermint	3 Haddock	1	Fennel (Leaf)	0	Peppercorn (Black/White)
Sunflower Seed	and the second sec	Carp	6	Pomegranate	3 Horse	1	Lettuce	0	Perch
Cabbage (Savoy/White)	9	Chickpea	6	Squid	3 Kiwi	1	Licorice	0	Pineapple
Cabbage (Savoy/White) Guava		Spinach	6	Tea (Green)	3 Leek	1	Olive	0	Raisin
Milk (Goat)	9	Wheat Bran	6	Thyme	3 Mango	1	Papaya	0	Rapeseed
Milk (Goat) Wakame (Seaweed)		Bass	6	Tuna	3 Mulberry	1	Polenta	0	Rhubarb
Curry (Mixed Spices)	8	Durum Wheat	6	Walnut	3 Pear	1	Shallot	0	Saffron
Gliadin*	8	Fig	5	Blackcurrant	3 Pike	1	Swordfish	0	Sage
Herring	8	Flax Seed	5	Casein	3 Pork	1	Tea (Black)	0	Sea Bream (Gilthead)
Oat Hazelnut		Marjoram	5	Ginseng	3 Sesame Seed	1	Tomato	0	Tapioca
Hazelnut	and the second se	Ostrich	5	Ox	3 Trout	1	Turbot	0	Tarragon
Quinoa		Pine Nut	5	Parsley	3 Venison	1	Turnip	0	Vanilla
Rice		Coffee	5	Plaice	2 Bayleaf	0	Alpha-Lactalbumin	0	Veal
Sole		Egg Yolk	5	Soy Bean					
Brussels Sprout Spirulina		Rabbit	5	Sweet Potato	2 Carrot	0	Anise	0	Watercress
	7	Rye	4	Arugula	2 Cauliflower	0	Apricot	0	Wild Boar
Tiger Nut	6	Artichoke	4	Banana	2 Chicory	0	Asparagus	0	Yuca
2 Amaranth	6	Cayenne	4	Barnacle					

Choose Foods according to Wellness Needs

NORMAL FOODS ... continued

Mineral Ratios are as Important as Nutritional Balance

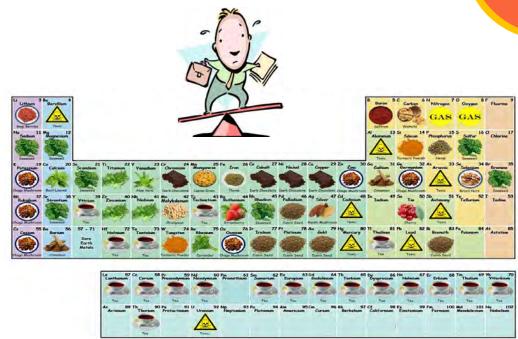
Mineral Balances and Ratios - Nutritional Balance & Wellness Management

Mineral ratios are as important as Nutritional balance, if not more important than mineral levels.

Continuing research indicates that metabolic dysfunction occur not necessarily as a result of a deficiency or excess of a particular mineral level, but more frequently from an abnormal balance (ratio) between the minerals. Due to this complex interrelationship between the minerals, it is extremely important that imbalances be determined. Once these imbalances are identified, corrective therapy may then be used to help re-establish a more normal biochemical balance.

Copper may be seen at a normal level, however, if the zinc/copper ratio is low, one may experience symptoms of elevated copper. This principle also applies to toxic metals. For example, if the cadmium level is only slightly elevated but the zinc level is low the cadmium toxicity is more serious. Rubidium Activates and Mobilizes Lithium which helps with Bi-Polar Manic Depression. High rubidium and low potassium will paralyze the muscles. The presence of lead will replace calcium and affect calcium absorption. Low zinc/copper ratio may lead to abnormal metabolism, liver cirrhosis, liver as-cites... Sodium/potassium ratio is important for health. Sodium is often blamed for boosting blood pressure while potassium is praised for keeping it in check. It really doesn't make sense to look at these two minerals separately, though, since they work in tandem throughout the body. The ratio of sodium to potassium in the diet may be more important than the amount of either one alone. The sodium/potassium ratio will show stress levels, possible diseases of the immune system, such as rheumatoid arthritis. "Free Radicals" is a term used for Damaged Cells. It is a problem because it often injures the cell, damaging the DNA which then creates the seed for disease. As we age, we have more Free Radicals. This is what causes aging and destruction of cells, and eventually the body. At some point, the Free radicals destroy more cells than the body can repair. This is called "Oxidative Stress". High Iron in the Hair has been linked with Oxidative Stress. Antioxidants neutralise harmful Free Radicals in the Body and are able to keep your cells Healthy and Youthful.

Scientifically proven, Mineral balance is essential to avoid the following symptoms: ADHD in children (attention deficit hyperactivity disorder), learning disabilities, tics in children and adolescents, autism, inability to lose weight, family diet and malnutrition, fatigue, headaches, Restlessness, depression, immune system (such as low selenium), cortisol (stress hormone), glutathione (free radicals), hormones, hypertension, allergies, Alzheimer's disease, infertility, miscarriage, joints Inflammation (such as low sulfur), rheumatoid arthritis, insomnia, blood sugar (type 2 diabetes), digestive diseases (digestion, etc.), forgetfulness or weakness, headache/migraine, muscle weakness, alopecia Parkinson's disease, bone Osteoporosis [fragile bone], heart failure, Parkinson's disease, occupational disease (welder, etc.), schizophrenia...





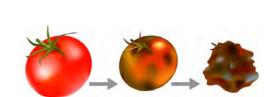
Sleep

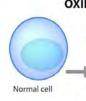
Our Bodies work in Cycles From 11:00pm - 2:00am – Important Time

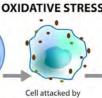
Only during Sleep, can our bodies automatically "Detoxify"

Lack of Sleep will make your Body Acidic, causing loss of: Calcium, Magnesium, Barium and Strontium If we miss this opportunity, we don't get it back and start accumulating metals and changing our body chemistry

Mineral Balances and Ratios







free radicals







The Silent Killer

The problem with Stress is that you don't know the Damage it is doing until it is too Late !!!

Manage Wellness with Omega-3 Scientifically Life Cycle Wellness Care with Omega-3 & Testing

By Professor Bruce Holub Pioneer of Omega-3 theoretical research - Health Benefits and industrial applications application Founder of the DHA/EPA Omega-3 Institute University Professor Emeritus, Department of Human Health & Nutritional Sciences at the University of Guelph Have Served as : President of the Canadian Society for Nutritional Sciences Chairman of the Nutrition Task Force for the Heart and Stroke Foundation of Ontario.



IS THERE A TOLERABLE UPPER LIMIT FOR OMEGA-3 INTAKE IN ADULTS?

Average daily intakes of DHA/EPA (sum) in N.Am. and Japan approach 130 and 900 mg, respectively. The FDA (US) has considered that up to 3000 mg /day may be generally safe for healthy adults.

IS THE DHA/EPA IN FISH DESTROYED BY COOKING?

Most studies have not reported any measurable or quantitative drop in DHA/EPA when cooking fish. While very minor losses may be occurring, they are usually not detectable by conventional GLC technology which is used to measure fatty acid contents. On a per 100 gram fish basis, the amount of EPA/DHA often increases in heated (cooked) fish as compared to raw fish because there is a release of moisture from the fish with heating.

WHAT IS THE PREFERRED RATIO OF DHA/EPA IN SUPPLEMENTS?

The vast majority of studies which have evaluated and supported the benefits of consuming omega-3 fatty acid as DHA/EPA in fish or as supplements for cardiovascular events and related mortality have used mixtures of these two omega-3 fatty acids. All fish contain a mixture of both omega-3 fatty acids (DHA + EPA) and most studies using supplements (particularly the long-term studies) have used mixtures of these two fatty acids. In the more recent JELLIS study from Japan (see recent reports on our website) utilized a concentrate of EPA only. Since mixtures of DHA/EPA have been used in the vast majority of long-term studies related to cardiovascular events and mortality, the 1999 Workshop in Bethesda, Maryland (invited international experts) recommended an intake of 650 mg of omega-3 fatty acid in the form of DHA/EPA combined each day for normal healthy people with at least one-third of the mixture being represented by either EPA or DHA. In other words, a recommended DHA: EPA ratio ranging from 2:1 on one extreme all the way to 1:2 on the other. Long-term studies over many years which look at cardiovascular disease and related events (including mortality) would be ideal wherein various mixtures DHA+EPA were studied and compared to purified concentrates of EPA or purified concentrates of DHA. Due to prohibitory costs, it is unlikely that such studies will be initiated for many years to come. It should be noted that the focus has been on DHA in infant formula preparations in view of the fact that DHA accumulation in the brain and retina (eye) of young infants has been directly implicated with respect to a structure-function relationship for DHA in optimal neuronal and visual functioning, respectively.

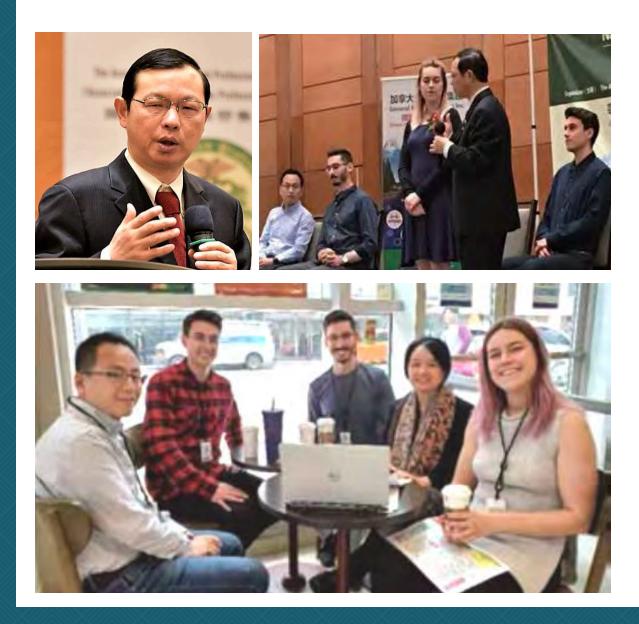
Wellness Care with Omega-3

Life Cycle Wellness Management

Wellness Management for Weight, Immunity, Seniors, Pregnancy, Maternal & Baby, Growth, Cardiac, Gout, Diabetes, Bone Joint, Cholesterol, Hypertension, Iron-Deficiency Anemia, by Functional Juice with Fruits & Vegetables, Etc.

Blood, Immunity & Immune Nutritional Foods

Dr. Heyu Ni & Reseach Team Dr. Zach Liu, Jade Sullivan, Reid Gallant, Daniel Mackeigan **University of Toronto Scientist of Canadian Blood Services Centre** for Innovation - Platform Director for Hematology, Cancer and Immunological Diseases



1. Can autoimmune diseases be reversed? Yes, some of them can be reversed.

2. The autoimmune disease symptoms won't disappear unless harsh medications are enforced. Is this true? Not true, significant of them can disappear or be controlled at the certain level that needn't treatment.

3. Will you ignore side effects when you treat an autoimmune disorder? No, nobody can ignore the possible side effects of the treatment, some of side effects can be very severe. For example, many immunosuppressive drug could increase the risk of infections.

4. Does improving digestion and gut health affect the progression of autoimmune disorders? Yes, it may affect the progression of autoimmune disorders.

5. Does gluten-free make any difference to autoimmune disorders? It may make some differences based on the type/severity of the autoimmune disorders. For example, some kinds of autoimmune diseases target gluten directly, like celiac disease. Additionally, gluten has some common influences on immune system, which may also contribute to other autoimmune diseases. It is suggested to consult a physician to evaluate whether a patient are suitable for gluten free diet.

6. Which one is dominant to autoimmune disorders, genes or environment? It is hard to say and it is based on the specific autoimmune disorder. In most of the cases both genetic and environmental factors contribute to the development of autoimmune disorders.

7. How can we improve our immune system?

Food, living environment, life style, and infections etc. are all able to affect immune system. To treat a disease, many immune therapies can improve our immune system.

Life Cycle Immune Management

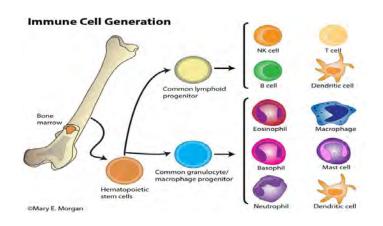
Immune Nutritional Supplements



Immunity in Cancer & Immune Nutritional Supplements by Team Dr.Ni, Dr. Zach Liu

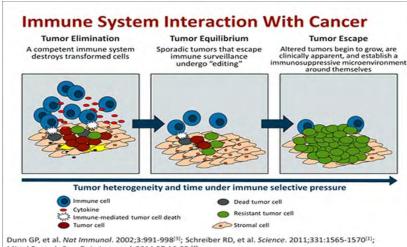
Immune cells

In our blood, there is a large amount of different immune cells. These cells and their secreted protein, such like antibodies and cytokines composed our immune system.



Immune Surveillance of Cancer

Immune system can not only defend against external pathogens, but also protect us from internal threats, such as aging and cancer cells. Cancer cells are usually immunogenic, and can be cleared by immune system. Immune equilibrium: the cancer cells cling to survival, and immune cells fight back. Cancer at equilibrated phase is consider as dormancy.



Mittal D. et al. Curr Opin Immu nol. 2014;27:16-25.

Cancer Immunotherapy

Immunotherapy has become a promising new form of cancer treatment. In 2018, James Allison and Tasuku Honjo, won the Nobel Prize in Medicine for their research on cancer immunotherapy.



Immunonutrition Supplements & Efficacy Nutrients

Immunonutrition supplements is a kind of products that can modulate immune activity, and have been demonstrated to improve the outcome on cancer patients with surgery. A formula usually contains Efficacy Nutrients such as ω -3 fatty acids, glutamine, amino acids, anti-oxidants, and nucleotides.

Immunonutrient	Influence on inflammation and immune function	Possible mechanism(s)
Omega 3 polyunsaturated fatty acids	Inhibits inflammation, enhances T cell functions	Changes in membrane phospholipids
Sulphur amino acids and related compounds	Inhibits inflammation enhances T cell function	Suppression of oxidant effects and NFkB activation
Arginine Glutamine	Enhances T cell function Stimulates T cell function, inhibits inflammation?	Stimulation of growth hormone production Stimulation of glutethione synthesis?

Changes in membrane phosph

Suppression of oxidant effects NFkB activation Stimulation of growth hormon Stimulation of glutethione synt

Food help Boost Immunity Fruit & vegetables (vitamin C): kiwi, Citrus fruits, etc Vitamin D: sunshine ω -3 fatty acids: salmon/tuna Almonds, Oats, Green tea, Yogurt, Mushrooms, Garlic, Ginger, Shellfish, high zinc...

Choose Foods **Scientifically**

olipids	Changes in cytokine and lipid-derive mediator production
and	Maintenance of glutathione status
ne production thesis?	Altered nitric oxide production? Enhances cell proliferation, increase

What is the best way to consume processed and preserved meats?





Dr. Timothy Sly is an epidemiologist and professor at Ryerson University School of Public Health, who has been working, teaching, and researching about food-borne illness for more than thirty years.

He has also lectured and taught in Brazil, the UK, Philippines, Taiwan, and the Caribbean Region. He has written more than 80 publications, made numerous media appearances, and delivered more than thirty presentations at conferences, including at the Association of South East Asian Nations (ASEAN) in 2015. Although he has retired from full-time teaching at the University, he continues to teach courses in research methods and health risks to international-trained physicians, and is currently writing a book.

He is a Quora 'top writer' (9 million readers), mainly in the area of food and illness.

How Can We Eat Healthy And Delicious ?

Are processed and preserved meats harmful for our body? Can they cause cancer? Can we still eat them? What is the best way to consume them? There are several questions here. Let's deal with "preserved" meats first. This has caused a vast amount of confusion and misinterpretation. Let's try and sort it out. The World Health Organization reported in 2018 that the International Agency for Research on Cancer (IARC)had found that consumption of 50 g of meat that had been preserved with sodium nitrite/nitrate per day for a lifetime increased the risk of colo-rectal cancers by about 18 percent. (This includes ham bacon, salami, corned beef, and all pork or beef meat products that are naturally red even after cooking). This does not mean "18 times the risk". Nor does it mean that "18% of sausage/bacon eaters will die each year"! This is just a relative risk of 1.18 compared to someone who does not eat 50 g/d over a lifetime, which is taken as 1.00.

The carcinogens (cancer-causing chemicals) in the preserved meat are the nitrosamines, created from the reaction between sodium nitrites or sodium nitrate mixture and the amino acids naturally in the meat. Formation of nitrosamines can be influenced by the method of heating (cooking), and can also take place in your stomach. Nitrosamines are class-1 human carcinogens, as also are several of the products of smoking cigarettes. But the magnitude of the risks are very different.

Both cigarette smoke and nitrosamines are class-I carcinogens but in very different degrees.

Finally, you can reduce the risk by taking ascorbic acid at the same time you eat the bacon, ham, salami, corned beef, etc. There is good evidence that in the presence of vitamin C (ascorbic acid) in the stomach, nitrosamine production is inhibited (reduced or eliminated). So, orange juice with bacon, tomato with corned beef, lettuce with ham). Also, don't overcook bacon; minimal heating is best. Now let's look at "processed" foods. Do you peel and slice an apple, or cook your chicken? All of these are examples of processing, as are washing, cooking, salting, mixing, cooling, straining, adding sugar or salt. To insist on unprocessed foods, you have to be prepared to eat raw chicken along with unwashed, raw potatoes, or uncooked rice!

Processing usually make food safe, available, convenient, easy to digest, easy to store, and nutritious. In general, it is usually better and cheaper (where choice is available) to obtain and prepare foods that have been minimally processed, and are closer to the original form and state. But as the world struggles to feed the growing billions, we shall see more compounded/processed foods (such as frozen false "crab" or "fish-ball") which provide convenient protein with little time and work for the consumer.



General Health-Related Science Education Linking Science to Daily Life Wellness Needs **Manage Wellness Plans Scientifically**

About Auto-intoxication & Solutions



Dr. David Rowland

David Rowland is Canada's foremost expert in holistic nutrition, having written 11 books on this subject, some of which are used as texts in nutrition schools. He is the publisher of Nutritiapedia®, the free on-line nutritional encyclopedia -- and creator of the Nutri-Body® assessment method favored by practitioners for determining biochemical weaknesses. David is also court recognized as an expert in complementary medicine.

About Auto-intoxication & Solutions

Auto-intoxication is the pollution of our bodies from within. Every cell takes in nutrients and also discharges wastes. If waste products are not eliminated, they accumulate and prevent cells from receiving the nourishment they need. The best diet in the world and the best food supplements cannot help cells that are strangling to death in their own excretions. Toxicity causes decay and disease. There are two important steps to every sound nutritional program: (1) Detoxify. (2) Rebuild. To bypass the first is to undermine the second.

Stop Polluting

We overload our bodies with substances that have little or no food value. Coffee, tea, tobacco smoke, drugs, artificial coloring's, preservatives, artificial flavorings, agricultural chemicals, and airborne pollutants contribute to toxic overload without providing any nourishment. Alcohol, refined flours, refined sugars, soft drinks, and adulterated fats also contribute to toxic overload. These are the "empty calorie" foods that contribute no essential nutrients but make the body work extra hard just to deal with them. Even healthy foods can create a toxic burden if we eat too much of them - if we consume more than our bodies can digest, absorb, assimilate and excrete. Foods to which you are allergic or intolerant add even more toxicity, since the body cannot metabolize them properly. The first and most important step to detoxification is to stop putting toxins into the body. Consume only

healthy food (preferably organic) and only in amounts to satisfy genuine hunger.

Water

Water provides the medium in which all biochemical reactions take place in the body. Most of our body-weight is water. Water is needed to eliminate wastes through the kidneys and colon. Most of us do not drink enough water. It is a very healthy habit to consume from two to three liters (quarts) of purified water – preferably reverse osmosis. Make it a habit. Thirst is not a reliable indicator since by the time you feel thirsty, your body is already in the beginning stages of dehydration. **Elimination Through the Skin**

The skin has often been referred to as the "third kidney" because of its ability to release toxins through perspiration. Having a sauna twice per week is a great aid to detoxification. Infrared saunas are even better than conventional saunas for this purpose, since infrared rays have the ability to penetrate up to 3 cm. below the skin. Another method to draw toxins through the skin is to have a hot bath in which you have added one cup of sea salt and one cup of apple cider vinegar. Make the bath water as hot as you can stand and stay in it for as long as you can stand it.

Manage Wellness Scientifically

"You're sick and fat because you eat too much and you're lazy."

Macro-nutrients and Insulin Resistance & Low-Carb Sugar- Free Cookies



Ms. Jennifer Liu **Certified Professional Nutritionist Senior Yoga Instructor** Specialty: Metabolic Syndrome, Weight Loss & General Health

"During 15 years' work experience in health and fitness I saw hundreds clients. They try to involve many activities, but they couldn't. They just didn't have the energy because they have diabetes and they were on diet. They always feel hungry and even though they couldn't loose any weight, actually they gain weight every year. But people still blame them that they are too lazy and they ate too much. Can a diabetic really enjoy snacks or even dessert and how? "

Observing the history of scientific development, watching the internal changes & grasping the fundamentals of Wellness



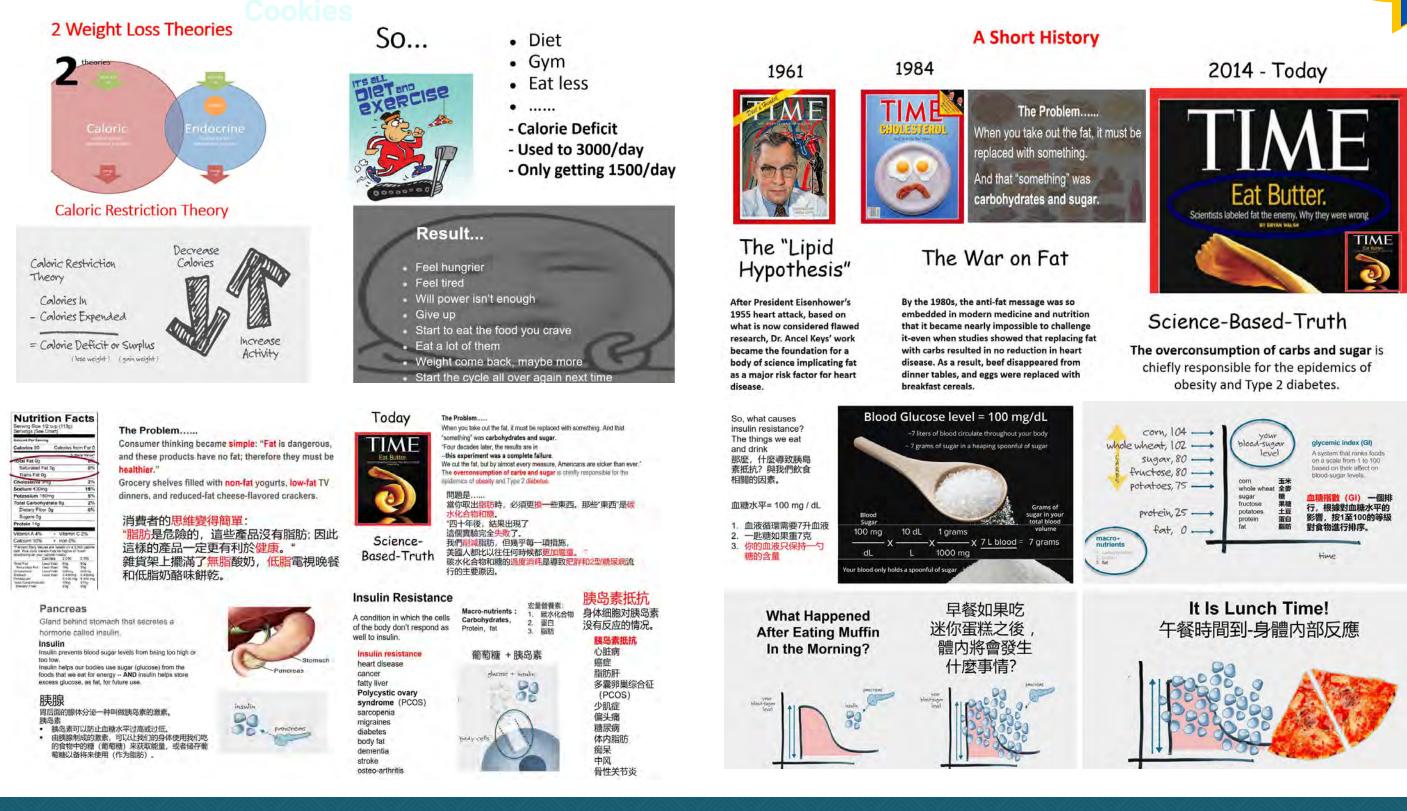
"You're sick and fat because you eat too much and you're lazy."

Science History & Wellness Care

Life Cycle Wellness Management

Wellness Management for Weight, Immunity, Seniors, Pregnancy, Maternal & Baby, Growth, Cardiac, Gout, Diabetes, Bone Joint, Cholesterol, Hypertension, Iron-Deficiency Anemia, by Functional Juice with Fruits & Vegetables, Etc.

Macro-nutrients And Insulin Resistance & Low-Carb Sugar- Free

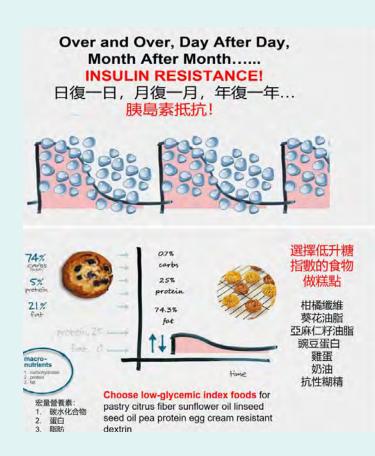




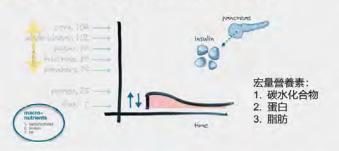


1) What are the Canadian Contributions of Science/Industry to the World/Human Health? Page 23 - Discover Insulin, Page 38 - Functional Foods/Canadian Berries, Page 39 - Oats. 2) How could Canadian Health-related Sciences / Industry/Natural Products / Contributions **Guide/Benefit Benefit our Wellness Management Efficiently?**

Macro-nutrients And Insulin Resistance & Low-Carb Sugar- Free Cookies



What If for Breakfast That Day, Instead of the Muffin, You Ate Something Didn't Spike Your Blood Sugar. 如果早餐不是迷你蛋糕,取而代之的是低升糖指數的食物



What kind of Food Decision you are going to make? 您將會做什麼樣的飲食決策?



The Art of **Macro-nutrients**

These sugar-free low-carb cookies & coconut flour cakes have the perfect texture. With a touch of flavor, they're one of the best tasting low carb keto cookies & cakes around. Diabetic friendly cookies!



Mr. L

- ▶ 44 years old.
- ▶ More than 20 years of type II diabetes.
- Family history of type II diabetes.
- Insulin dosage is over 100, 3 times a day.



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2. Colin E. Champ: Misquided Medicine: Second Edition

3. Amatruda JM, Statt MC, Welle SL: Total and resting energy expenditure in obese women reduced to ideal body weight. The Journal of clinical investigation 1993, 92:1236-1242.

4. Kratz M, Baars T, Guyenet S: The relationship between high-fat dairy consumption and obesity, cardiovascular, and metabolic disease. Eur J Nutr 2013, 52:1-24. 5. Ebbeling CB, Swain JF, Feldman HA, Wong WW, Hachey DL, Garcia-Lago E, Ludwig DS: Effects of dietary composition on energy expenditure during weight-loss maintenance. JAMA : the journal of the American Medical Association 2012, 307:2627-2634. 6. Netter, Frank H (Frank Henry), CIBA-GEIGY Corporation. Ardsley, N.Y.: CIBA-GEIGY Corp., 1953- NLM ID: 8900243A: CIBA Collection of Medical Illustrations



physician, painter, and Nobel laureate noted as the co-discoverer of insulin and its therapeutic potential. In 1923 Banting and John James Rickard Macleod received the Nobel Prize in Medicine. Wikipedia Born: November 14, 1891, Alliston, New Tecumseth Died: February 21, 1941, Musgrave Harbour Years of service: 1916-1918 Education: University of Toronto (1910-1922), Awards: Nobel Prize in Physiology or Medicine, Flavelle Medal, John Scott Legacy Medal and Premium Thanks for Watching!

Know Canada's Contributions

Typical Diet of Mr. L

- Breakfast: pastry, noodles, soak cooked
- Lunch and dinner: typical Chinese foods, including rice/noodles, vegetables, and meats.
- ▶ Beverage: 1-2 can pop a day, sweetened soy milk everyday as water.
- Snack: chips, biscuit, crackers, fruits etc.

After Using Low Carbs Cookies Instead of His Regular Breakfast

- Morning test: BG 6.4
- ▶ 8:30am 3 low carbs cookies
- ▶ 10:30am BG 6.2
- ▶ No insulin injection that morning

Frederick G. Banting

Sir Frederick Grant Banting KBE MC FRS FRSC was a Canadian medical scientist,





Life Cycle Wellness Management

Wellness Management for Weight, Immunity, Seniors, Pregnancy, Maternal & Baby, Growth, Cardiac, Gout, Diabetes, Bone Joint, Cholesterol, Hypertension, Iron-Deficiency Anemia, by Functional Juice with Fruits & Vegetables, Etc.

Do we need Cholesterol ? Cholesterol & Cardiovascular Disease (CVD) - Nutrition Care

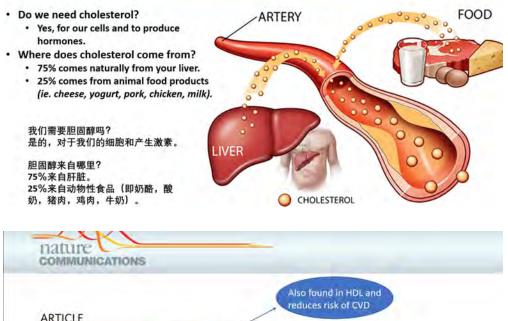
Mr. Daniel MacKeigan **BSc, MSc candidate** Ni Lab -St. Michael's Hospital







What is Cholesterol?



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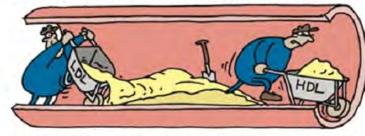
Apolipoprotein A-IV binds allbß3 integrin and inhibits thrombosis

OPEN

Xiaohong Ruby Xu^{1,2,3,4}, Yiming Wang^{1,2,5}, Reheman Adili², Lining Ju^{6,7,8}, Christopher M. Spring², Joseph Wuxun Jin^{2,5}, Hong Yang^{2,5}, Miguel A.D. Neves², Pingguo Chen^{2,5}, Yan Yang^{2,5}, Xi Lei², Yunfeng Chen^{7,9}, Reid C. Gallant^{1,2}, Miao Xu^{1,2}, Hailong Zhang², Jina Song^{2,5}, Peifeng Ke^{4,10}, Dan Zhang^{2,4}, Naadiya Carrim^{2,5}, Si-Yang Yu^{2,11}, Guangheng Zhu², Yi-Min She¹², Terry Cyr¹², Wenbin Fu^{3,4}, Guoqing Liu¹³, Philip W. Connelly^{1,2}, Margaret L. Rand^{1,14}, Khosrow Adeli^{1,15}, John Freedman^{1,2,16}, Jeffrey E. Lee¹, Patrick Tso¹⁷, Patrizia Marchese¹⁸, W. Sean Davidson¹⁷, Shaun P. Jackson^{8,18}, Cheng Zhuo ^{6,7,9}, Zaverio M. Ruggerio ¹⁸ & Heyu Ni^{1,2,5,16,19}

Cholesterol Carriers in the Blood

It's as if LDL deposits cement in blood vessels, while HDL removes it.



HDL is able to do this because of a protein called apolipoproteinA-I

就像LDL在血管中沉积水泥一样,而HDL则将其去除。 血液中的胆固醇载体

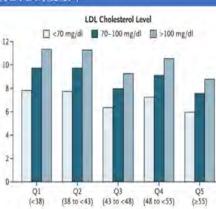
由于一种名为载脂蛋白A-I的蛋白质,HDL能够做到这一点

LDL & HDL Concentrations Affect Incidence of CVD LDL和HDL浓度影响CVD的发生率

- Higher concentration of HDL in blood is correlated with decreased risk of CVD. Lower concentration of LDL in blood is
- correlated with decreased risk of CVD.

This can help guide us on what to eat!...

血液中较高浓度的HDL与CVD风险 降低相关。 血液中较低浓度的LDL与降低CVD 风险相关。 这有助于指导我们吃什么! ...



Quintile of HDL Cholesterol Level (mg/dl)



- Low Density Lipoprotein (LDL)
- · Aka: 'bad cholesterol'
- via blood.
- walls causing narrowing of blood vessels.
- High Density Lipoprotein (HDL)
- · Aka: 'good cholesterol'
- the liver for degradation.

低密度脂蛋白 (LDL) 阿卡: '坏胆固醇' 通过血液将胆固醇从肝脏输送到我们的细胞。 当过量时,它会将胆固醇沉积到血管壁中,导致血管变窄, 高密度脂蛋白 (HDL) 阿卡: '好胆固醇' 将血管壁中的有害胆固醇转运至肝脏以降解。

Unsaturated foods decreases risk concentration





Cholesterol Carriers in the Blood

Cholesterol is insoluble in blood and must be transported using special proteins...



How to Prevent CVD?

of CVD because it raises HDL

如何预防心血管疾病? 不饱和食物可降低心 血管疾病的风险,因 为它可提高高密度脂 蛋白浓度

饱和食物和反式脂肪 会增加心血管疾病的 风险,因为它会增加 低密度脂蛋白的浓度

Saturated foods and trans fats increases risk of CVD because it raises LDL concentration



Life Cycle Wellness Management

- 1) Determine Individual Wellness Needs Wellness Tests & Scientific Assessment,
- 2) Wellness Plan Micro To Macro, Efficacy Care / Optimize Solutions & Smart Match/ When We Face Too Much Industry Information, Enhanced Efficacy Nutrients Management
- 3) Implement Plans by Smart Shopping According to Individual Wellness Needs, wellness plans.

Busting Myth / The Truth About Cholesterol



Mr. Alex Campbell

Functional Medicine Certified Health Coach McMaster University - B.Sc. Mathematics Before 2016: Credit Systems Manager

Myth 1: We need to be careful about eating too much cholesterol.

Busting Myth 1: Do we need to be concerned about cholesterol in food?

- No direct link between the amount of cholesterol we eat and atherosclerosis/CVD
- Fluctuations in blood lipoprotein levels (chylomicron, VLDL, LDL, sdLDL*, and HDL) are the result of what we eat, mostly influenced fat, cholesterol and carbohydrates
- Every cell in the body can make it's own cholesterol (exceptions, adrenal and gonads) and will if we don't get enough from our diet
- Impossible to get too much cholesterol from a natural, healthy diet
- There may be certain genetic conditions (e.g., hypercholesterolemia) that require us to be cautious about external sources of cholesterol. These are small percentage of the population

Myth 2: LDL is bad cholesterol, and HDL is good cholesterol.

Busting Myth 2: LDL, HDL (and VLDL,

triglycerides) cannot be bad or good

- · Blood levels of LDL and HDL correspond to the demands of our body (e.g., what we eat)
- Eating refined carbohydrates (and high glycemic foods), will interfere with the LDL processing. LDL eventually gets oxidized to sdLDL which sets of an inflammatory process
- Eating fat and cholesterol in the absence of insulin spiking foods does not adversely affect HDL, VLDL or LDL
- Healthy diet and lifestyles lead to higher blood levels of HDL. lower blood levels of LDL and lower blood levels of triglycerides Cholesterol is found at atherosclerosis sites because of the
- macrophage immune response that tried to clear sdLDL from arteries

health.

- counts

What is cholesterol?

- · A sterol molecule, steroid alcohol type of lipid.
- An organic molecule that is ESSENTIAL to life for all vertebrate animals
- Often confused with lipoproteins
- Lipoproteins: chylomicron, VLDL, LDL, sdLDL*, and HDL

Why is cholesterol important?

- Used to make hormones
- Used to make Vitamin D (more like a hormone)
- Used to make bile salts (fat digestion)
- Critical for the structure and proper function of cell membranes
- Part of the bodies repair mechanism
- Almost every cell in the human body can make cholesterol
- * Lipoproteins are used to transport triglycerides (fat) and cholesterol via the bloodstream

Case Study -

High-Fat-Low-Carb (HFLC) and Cholesterol Male, born September 1971

• Before December 2017

- Medications: None
- Supplements: Vitamin D3, Methyl-B's (6,9,12) to support methyl cycle and high homocysteine levels (18->10)
- Stress: Moderate (occasionally high)
- Sleep hygiene: Poor less than 6 hours/night, sleep not continuous
- Movement: Occasional HIIT, swimming, volleyball less than 3 davs/week active
- After March 2018
- Medications: None
- Supplements: Vitamin D3, Methyl-B's (6,9,12) to support methyl cycle and high homocysteine levels
- Stress: Low to moderate
- Sleep hygiene: Good to excellent 7 9 hours per night on average
- Movement: Non-sedentary, HIIT, fencing, swimming active 6 to 7 days per week

Diet Before:

2 to 3 eggs per day, fruit, nuts, seeds, oatmeal, oat bran, fish, lamb, beef, chicken, bacon, daily vegetable smoothie. Will frequently (2 to 3 times per week) have potato chips, ice cream, pie and other baked goods. Occasionally (once a week) will have pizza, other fast food, eat out at restaurants

Diet After:

4 to 6 eggs per day, nuts, seeds, fish, lamb, beef, chicken, bacon, daily vegetable smoothie. 2 to 5 servings of fruit per week. No grains (wheat, rice, oats). No fast food. No processed food at home. Dramatically reduced baked goods consumption and other junk consumption - less than once per month, usually on special occasions like birthday parties. Total restaurant visits since March 2018: five.

Comment: LDL-C is in HDL-C Triglycerides Cholesterol, To LDL and HDL Par

HDL-P (Total)

Small LDL-P

LDL Size

NMR LipoProfile LDL Particle Nu

Before Diet

After Diet

- December

- After Marc

LDL-P

Lipids

LDL-C



Myth 3: A high blood cholesterol level is bad for

Busting Myth 3: High blood cholesterol level is NOT bad for health

 Looking at overall lipoprotein levels is meaningless • Helpful to know our HDL/LDL/triglyceride ratios and -C vs. -P

• Individuals with relatively higher HDL to LDL and triglyceride levels have better long-term health outcomes

 An increase in total cholesterol as we age is predictive of lower health risks

• Generally, lipoprotein levels go up as we age (this is normal and desirable)

No need to be concerned with high lipoprotein levels if we avoid

high glycemic, processed food (especially refined carbohydrates) • We need to pay attention to insulin and inflammation - track levels of hsCRP, HbA1C as well as HDL, LDL, and triglycerides over time

S	RES	ULT	FLAG UNITS RE	FERENCE	INTERV
umber	Before	After			
	1464	754	nmol/L	<1	000
			Low		< 1000
2017			Moderate		- 1299
2017			Borderline-Hig	and the second	- 1599
			High	1600	- 2000
h 2018	Before	After	Very High		> 2000
	109	79	mg/dL	0	- 99
			Optimal		< 100
			Above optimal	100	- 129
			Borderline	130	- 159
			High	160	- 189
	Before	After	Very high		> 189
accurate	if patie	nt is n	on-fasting.		
	70	90	mg/dL	>	39
	90	46	mg/dL	0	149
otal	197	178	mg/dL	100	- 199
ticles					
	34	31.6	umol/L	>=30.5	
	500	<90	nmol/L	<=527	
	21.2	21.2	nm		0.5

Dietary Salt and Hypertension

- by Mr. Reid Gallant



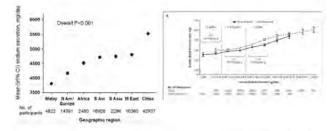
UWO BMSc U of T MSc Dr. Heyu Ni Laboratory St. Michael's Hospital University of Toronto Li Ka Shing Knowledge Institute



Blood Pressure • What is blood pressure? Created by contraction of heart 血压 什么是血压? 由心脏收缩创造



EATING SALT INCREASES BLOOD PRESSURE 吃盐会增加血压



What is Hypertension?

- When the blood pressure is above 140/90 mmHg = BAD
- · Heart & blood vessels are being overworked!

什么是高血压? 当血压高于140/90 mmHg = BAD时 心脏和血管正在过度劳累!



How can you lower blood pressure?

"Let **food** be thy **medicine** and **medicine** be thy **food**." Hippocrates

· Eating healthily and decreasing salt intake!

Less than 2300 - 3000mg per day

Monitoring blood pressure

Staying active

你怎么能降低血压? "让食物成为你的药物,药物就是你的食物。" 希波克拉底 健康饮食,减少盐的摄入量! 每天少于2300-3000mg 监测血压 保持活跃

Why is hypertension bad?

 Long-term high blood pressure risk factor for disease in many organs: HEART BRAIN ARTERIES EYES KIDNEYS

> 高血压为什么不好? 许多器官疾病的长期高血

压危险因素: 心,脑,动脉, EYES,肾脏 Mare completations of persistent High blood pressure are: Derebolivations are: Personality personality personality personality personality personality are demogrations are demograt

Nutrition Fac Valeur nutriti Per 1 cup (250 mL) / po	ve
Amount	% Daily Value % valeur quotidienn
Calories / Calories 80	1
Fat/Lipides 0 g	0 9
Saturated / saturés 0 + Trans / trans 0 g	9 0 9
Cholesterol / Cholest	érol 0 mg
Sodium / Sodium 115	mg 5 %
Carbohydrate / Glucin	des 12 g 4 9
Fibre / Fibres 0 g	0 9
Sugars / Sucres 11 g	l.
Protein / Protéines 9	g
Vitamin A / Vitamine A	15 9
Vitamin C / Vitamine C	0 9
Calcium / Calcium	30 %
Iron / Fer	0 9
Vitamin D / Vitamine D	45 %

Mente, A. NEIM, 2014

Food Function & Hypertension



What causes hypertension?

- Genetics 5-10% of cases
- Lifestyle 90-95% of cases

DIET: Salty foods, Alcohol, and Excess body weight SALT 🔶 ①BLOOD PRESSURE 📫 HEART ATTACK

> 什么引起高血压? 遗传学占5-10% 生活方式90-95%的案例 饮食:咸食,酒精和体重过重 盐血压心脏病发作



Foods to improve blood pressure 食物可以改善血压



要避免的食物 Foods to avoid



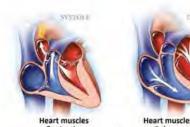
Life Cycle Wellness Management

Hypertension Is Complicated - Case Study By Ms. Yi



By Yi Han, CPN **B.Sc.(Nutrition, McGill University)**

HYPERTENSION





Blood Pressure Category	Systolic Blood Pressure		Diastolic Blood Pressure
Normal	<120 mm Hg	And	<80 mm Hg
Elevated	120-129 mm Hg	And	<80 mm Hg
Hypertension stage 1	130-139 mm Hg	Or	80-89 mm Hg
Hypertension stage 2	>140 mm Hg	Or	>90 mm Hg

MR. WL

- Age: 87
- No history of cigarette or alcohol intake
- Became hospitalized (feb.20th) due to fainted several times related to high blood pressure

Current diagnosis

- Upper gastrointestinal bleeding
- Esophagitis
- Chronic atrophic gastritis with erosion
- Pulmonary infection
- Hypertension
- Hepatic dysfunction
- Renal insufficiency
- Gallstones with chronic cholecystitis
- Hepatic cyst
- Renal cyst

CAUSES & RISK FACTORS

- · Overweight or obese Some Too much salt (sodium) Obesity
- intake Too little potassium intake
- Too much alcohol intake
- Stress

· Age

Race

· Family history

Using tobacco

Physical inactive

- Certain chronic condition
 - Kidney diseases
 - · Diabetes
 - Sleep apnea

High blood pressure might be related to: Age (87 years old) Low potassium intake evidenced by low vegetable and fruit intake and low appetite High sodium intake

MEAL PLAN FOR MR.WL



therosclerosis Gallbladder Diabetes disease

Stroke and heart attack

Hypertension

Manage Hypertension Wisely



- · Grains
 - Mix whole wheat rice and white rice.
- protein
 - · Less red meat
 - · Choose fish, chicken, and plant-based protein
 - · Low fat dairy products
 - · Some nuts intake
- More fresh vegetable and fruits
- · Fats and oil
- · Healthy liquid and soft oil and fat, like olive
- · Less solid cooking oil
- Limited salt intake

Life Cycle Wellness Management

- 1) Determine Individual Wellness Needs Wellness Tests & Scientific Assessment,
- 2) Wellness Plan Micro To Macro, Efficacy Care / Optimize Solutions & Smart Match/
- When We Face Too Much Industry Information, Enhanced Efficacy Nutrients Management
- 3) Implement Plans by Smart Shopping According to Individual Wellness Needs, wellness plans.

Manage Hypertension - Meal Plans & Efficacy Nutrients Care

MEAL PLAN FOR MR. WL



Specific food

- Garlic
- Fresh 4g
- Aged garlic extract 600mg BID
- Sea vegetables 3-3,5g
- Dark chocolate 100g



- · Mix whole wheat rice and white rice
- protein · Less red meat
 - · Choose fish, chicken, and plant-based protein
 - · Low fat dairy products
- · Some nuts intake · More fresh vegetable and fruits
- Fats and oil
- · Healthy liquid and soft oil and fat, like olive
- · Less solid cooking oil
- Limited salt intake



EFFICACY NUTRIENTS MANAGEMENT

Nutrients	Dosage	Nutrients	Dosage
Alpha lipoic acid with biotin	100-200mg BID	NAC	500mg BID
Arginine	2g BID	Olive leaf extract	500mg BID
Carnitine	1-2g BID	Pycnogenol	200mg
Taurine	1-3g BID	Quercetin	500mg BID
Chromogenic acids	150-200mg	Probiotics	10 CFU
Coenzyme Q10	100mg daily or BID	Resveratrol (trans)	250mg
Grape seed extract	300mg	Vitamin B6	100mg daily or BID
Hawthorne extract	500mg BID	Vitamin C	250-500mg BID
Melatonin (long acting)	3mg	D3 Vitamin D3	60ng/ml
Lycopene	10-20mg	Vitamin E	400IU

RES	ULTS

Date	Systolic Blood Pressure		
Feb. 20 th	Keep high since Feb. 1 st Highest: 180 mmHg		Fainted Became hospitalize Increased antihype
Feb. 22th	160-180 mmHg		Took 80mg trans re
Mar. 15 th	160-180 mmHg	••••	Fainted again Increased dosage of Meal plan was impl
Mar. 18th	Started to be reduced		
Mar. 22th	130-140 mmHg		
Mar. 24th	stable	•	Reduced antihyper
Apr. 1st	stable		Reduced antihyper

CONCLUSION

- An integrative approach to the treatment of hypertension
 - Diet restriction
 - Exercise
 - Weight restriction
- Improve lifestyle
- Medication
- Efficacy nutrition intervention
- · While using nutraceutical products, need to consult with pharmacist/family doctor about the dosage for proper usage and ensure there is no side effects with current medications

REFERENCE

- Houston, M. (2018). Treatment of Hypertension with Nutrition and Nutraceutical Supplements: Part 1. Alternative And Complementary therapies. doi:10.1089/act201829191.mho
- Houston, M. (2019). Treatment of Hypertension with Nutrition and Nutraceutical Supplements: Part 2. Alternative And Complementary therapies. doi:10.1089/act201829197.mho





red for a week (Feb. 20th - Feb. 27th) ertensive medicine from 4 tablets to 5 tablets esveratrol daily during hospitalization

of trans resveratrol (240mg) lemented

rtensive medicine from 5 tablets to 4.5 tablets rtensive medicine form 4.5 tablets to 4 tablets

Nutritional Balance & Iron-Deficiency Anemia

Case Study by Ms. Jade Sullivan, MSc, Dr. Ni's Team









Vegans do not eat or use animal products No meat, fish, chicken, dairy or eggs



After a few months, I was feeling very fatigued and frequently short of breath. I visited the doctor and was diagnosed with iron-deficiency anemia

Iron-Deficiency Anemia

Anemia: not enough healthy red blood cells There are many kind of anemia with different causes Red blood cells (erythrocytes) carry oxygen Iron (Fe) on heme binds oxygen Causes: blood loss, insufficient dietary iron, problems absorbing iron



Iron-Deficiency Anemia

- More common in women
- cycle, pregnancy and breast feeding

Symptoms

- Fatigue and weakness
- Shortness of breath
- Headache, dizziness, or lightheaded
- Pale skin
- Cold hands and feet
- Fast heart beat or chest pains
- Inflamed or sore tongue

Prevention

- 1. Increase iron intake Eat more iron-rich food
- 2. Increase iron intake



• 20 to 25% of world population is iron deficient • Women use ~2x more iron than men, mostly due to menstrual • 8% of Canadian women (5% men) are iron deficient

• Most common in 12 to 19 year-old females (13% iron deficient)

• Craving for non-nutritive substances (e.g. ice, clay, dirt) • Poor appetite (seen more commonly in infants or children)

E.g. meat, chicken, seafood, dark leafy greens, legumes Medical Iron (taken as recommended by a doctor)

Vitamin C taken with iron to increase absorption E.g. citrus fruit, broccoli, peppers, tomatoes, strawberries

> St. Michael's Inspired Care. Inspiring Science.



Eat Our

Foods

Wisely

Life Cycle Wellness Management

- 1) Determine Individual Wellness Needs Wellness Tests & Scientific Assessment,
- 2) Wellness Plan Micro To Macro, Efficacy Care / Optimize Solutions & Smart Match/ When We Face Too Much Industry Information, Enhanced Efficacy Nutrients Management
- 3) Implement Plans by Smart Shopping According to Individual Wellness Needs, wellness plans.

Weight Management/Healthy Eating Lifestyle For Modern Family



Ms. Kali Lo

· Emotional illness : anxiety, mood swings, depression

· Acute illness: flu, cold, fever, headache, tummy pain

5

Suboptimal health

stroke, cancer

Human Basic Need

Ancient time

· Fresh food

Movement

Simple lifestyle

Water

• Air

Sleep

10

Healthy

- **Register Nutritional Health Specialist**
- Register Nutrition Consultant
- University of Toronto, B.Sc. in **Health Science**
- TSTCM, Diploma of Traditional **Herbal Medicine**
- Have been in Nutrition Industry for over 10 years.
- Help hundreds of clients loose weight & get better...

Not Sick, does not mean you are HEALTHY Cause us Sick Chronic illness – heart attack, cancer, diabetes, high cholesterol, **External Factors** · Polluted air · Lack of water intake · Lack of sleep

· Lack of exercise · Stress from Work, Traffic,

Internal Factors Emotional Stress Hormonal imbalance · Lack of FUN Lack Personal space Lack Me Time Malnutrition

Maryann's medical history

Age 56 – High school teacher, standing long time

- Her Issues of complaints
- Rheumatoid arthritis
- Diabetes Osteosis
- · Daily took 22 pills/ day (prescribe from MD) Pain level from 13/10, super pain
- Mobility is low

Original Diet & lifestyle

- · Love to eat sweet: cookies, cracker, donuts
- 4 cups of coffee (Triple x Triple)
- Vegetarian
- Lack of sleep



MaryAnn, age 56 Complaints - knee Pain

dropped 16 inches, 33.5 lbs

- · Fiber (over 35 g/day)- improve her bowel movement
- Probiotic build her immune system Multivitamin & Multimineral – improve metabolism
- Digestive Enzyme helps her improve digestion process







Reference: More Health info USDA's Dietary Guidelines

- Jeffery B. Blumberg. (2018) The Evolving Role of Multivitamin/ Multimineral Supplement Use among Adults in the Age of Personalized Nutrition doi: 10.3390/nu10020248
- Izabela Sadowaska-Bartosz (2014) Effect of Antioxidants Supplementation on Aging and Longevity doi: 10.1155/2014/404680
- Terry W. Snell (2012) Antioxidants can extend lifespan of Brachionus manjavacas (Rotifera), but only in a few combinations

doi: 10.1007/s10522-012-9371-x



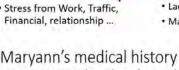
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Sick

- Modern lifestyle · Coffee, Tea, Wine, soft drinks Fast food, junk food, process
- food
- Sleep deprivation
- Little Movement workout
- Stress from Work
- Social life Social media, text



- Polluted Air









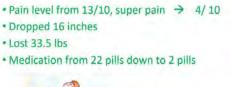


Eat quality > Quantity Dine in > Eat Out Fun Time > Workaholic

• C3G

Manage Weight in Daily Life

Result: 3 months Anti-inflammation program





Supplements Anti-inflammation – for her pain

 Antioxdiants (ORAC, Resveratrol, Vitamin C, E) · Omega 3 (DHA & EPA) Curcumin Glucosamine

· Calcium (Calcium Carbonate, Calcium lactate, Calcium phosphate, Calcium Sulfate, Calcium Citrate)

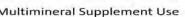




Wish everyone have a healthier new you with your family

Start with a small adjustment in daily habit, within 21 days, you will makes a big impacts of your new healthy lifestyle.





Family Nutrition and Healthy Growth of Children - Case Study By Ms. Emily Ding

Wellness Management for Kids



- **CPN**, Mentor For New Immigrant Professionals
- Passionate in learning traditional Chinese medicine and health nutrition, keen to taste and cook multicultural healthy cuisine, explore DIY gardening, and enthusiastically participate in a number of community volunteer activities with three kids together to promote a positive and healthy lifestyle for self-growth and helping others!

- Child's growth phase: pre-pregnancy/pregnancy/lactation/infant/child/adolescent
- Daily diet: Breakfast/lunch/dinner/snack
- Food: ingredients/sources, hygiene, cooking methods, seasoning, home/supermarket/Restaurant
- Family: Lifestyle/habits, nutritional knowledge
- National Dietary Guidelines: Balanced nutrition, scientific amount
- Status and challenges: Excess nutrition, hidden hunger, sub-health, rejuvenation/severity of chronic diseases
- Family nutrition is essential for children's healthy growth and helps them develop good habits that benefit them for life, so parents play an important role
- Family nutrition begins with scientific knowledge of nutrition, coupled with scientific practice in everyday life
- For sub-health or chronic diseases in children and adolescents, family nutrition interventions are a comprehensive approach that includes education, diet, exercise, stress and sleep management, as well as nutrient supplementation
- Nutrient supplementation begins with the conditioning of the digestive system, normal digestive system, detoxification and absorption of nutrients to normal, in order to promote normal metabolism, normal immune function, eliminate inflammation
- Balance of nutrients, including carbohydrates, lipids, proteins, and micronutrient vitamins and minerals, to avoid excess nutrition or hidden hunger

Case1 Child Constipation

Boy, two and a half years old, often constipated, eczema, at least 2-3 days a week to use open plug to help defecate, mother is also years of constipation patient

Nutritional Intervention

Diet: Drink plenty of water, eat more vegetables, increase dietary fiber, promote intestinal peristalsis Stress/mood/sleep: Accompanying parents, helping to regulate mood, regular sleep habits **Nutrient supplements:**

Probiotics for children - implant useful bacteria to help balance intestinal flora

Children's digestive enzymes - increase protein/fat/sugar digestive enzymes to help digest food **Dietary fiber formula - promotes intestinal peristalsis**

Results : After one months of conditioning, constipation improved and the number of open plugs decreased : After 2 months of conditioning, do not need to use open plug dew, can normal defecation

Case2 Child Autism

Boys, 8 years old, 4 years old diagnosed	Boy
with autism, emotional instability, go	ecz
their own way, do not cooperate, do not	arn
socialize, academic performance good	еха
and bad.	sea
Nutritional Intervention	und
Diet:	Nu
Nutrient supplementation:	utri
	Die
Results : After three months of	Nu
conditioning, mood swings are reduced	
and focus is increased	Res
	Aft

Kids' Wellness at Home

Case3 Teen Eczema

y, 16 years old, has severe allergies, allergies when zema is serious, more appears in the back of the npit neck, face also has, especially during the am, sleep late, eczema more serious. Allergies to afood have been identified and other allergens are certain.

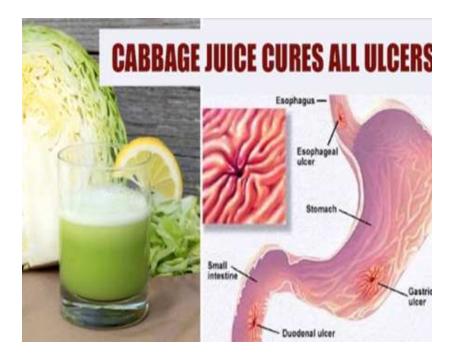
- stritional Intervention
- ritional Intervention
- et: ...
- strient supplementation:

sults : After one months . eczema is reduced After two months, eczema basically disappears

Life Cycle Wellness Management

Wellness Management for Weight, Immunity, Seniors, Pregnancy, Maternal & Baby, Growth, Cardiac, Gout, Diabetes, Bone Joint, Cholesterol, Hypertension, Iron-Deficiency Anemia, by Functional Juice with Fruits & Vegetables, Etc.

Manage Wellness by Functional Juice with Fruits & Vegetables



CABBAGE JUICE FOR ULCER

Organic cabbage if possible, Ginger adds a boost of flavor as well as aiding in digestion

- * 1 large green cabbage
- * 2 Granny Smith apples
- * 1 peeled lemon
- * 2-inch piece of fresh ginger, peeled

If you have a peptic ulcer, try drinking 1 litre (about a quart) of cabbage juice every day, divided into 4 or 5 portions.





Functional (Healing) Juice

Formulas with Fruits & Vegetables

- 1. Carrot+ Apple + Beet
- 2. Pineapple+Celery+Parsley





3. Apple+Kale+ lemon + Celery + Ginger + Cilantro

A Platform of Linking Science to Daily Life Wellness Needs Simplify, Visualize Science to Manage Wellness Easier

Understand Science behind Industries

- Implement Wellness Plans Scientifically & Smart Shopping Efficiently
- Understand Science behind Industries for Food Safety, Quality, Functional Nutrients, and Smart Shopping
- Support Implementation of Wellness Plans
- Help Smart Shopping from fields, health industries, table to body Health Needs / Food safety, guality, efficacy nutrition, healthy diet

Examples

- Natural health product regulations in Canada and how to evaluate the quality of a natural health product, maintain a calm, wise judgment, Understand the Science & Information behind our Foods
- Six Vital Steps Help Understand Food Safety, Quality & Efficacy Wellness Care
- Comparison of Regulations in different countries Understand Food Safety, Quality & Efficacy Nutrients from **Global Vision & Smart Shopping**
- How to Filter Health Products Screen health products Guided by Science
- Case Study Gain insight into the Products & Smart Shopping

Know Canada

- Canadian Berries & Efficacy Nutrients Healthy Food Developments in Canada
- Fiber, Oats & Efficacy Nutrients Canada's Contribution to Functional Food
- Fiber Science & Canada's Contribution to Global Health
- Dietary Fibers in our Daily Life



Science behind

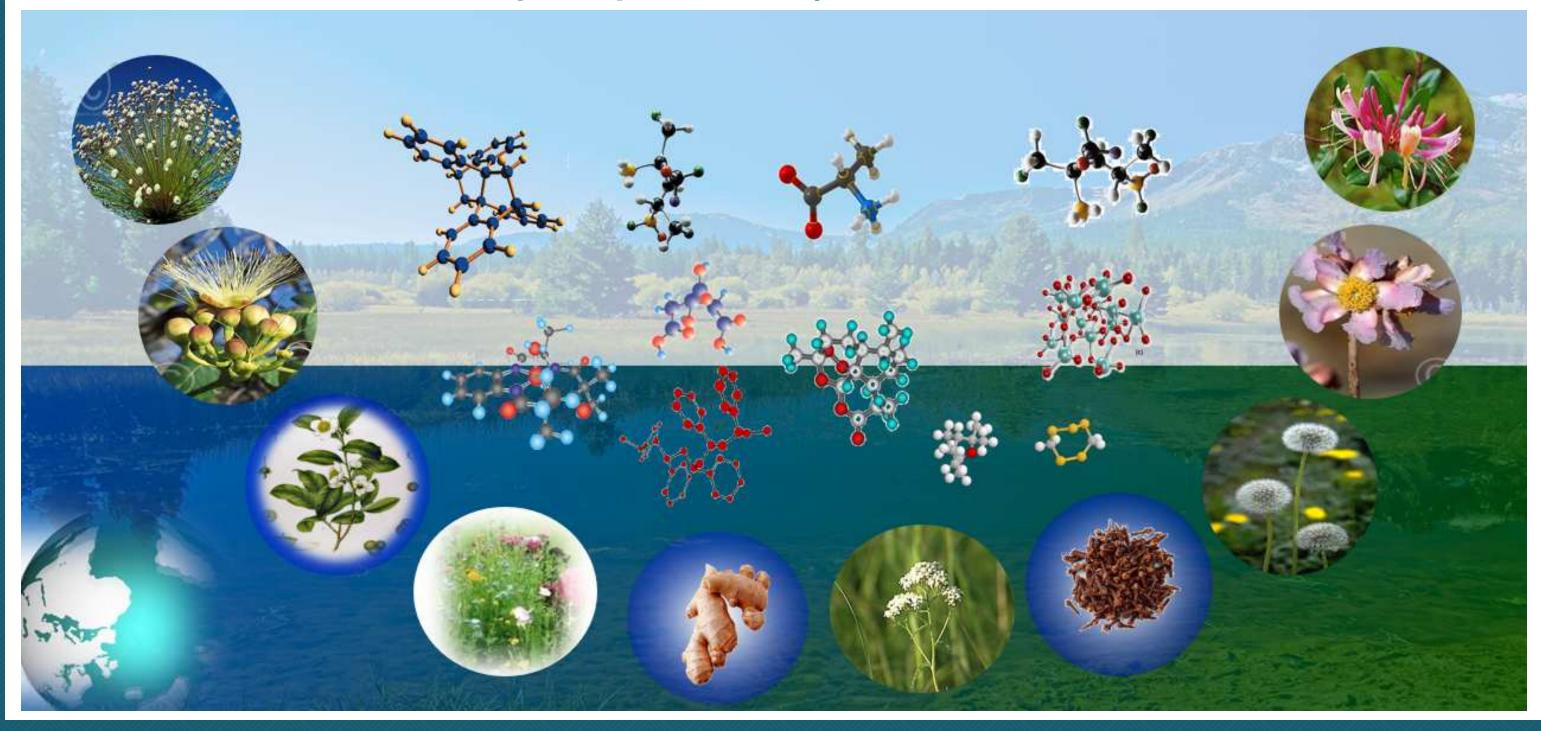
Industries **Implement Wellness Plans Scientifically**

Science behind Industries

- * Understand Science General Science behind our Foods/Industries
- * Smart Shopping from fields, health industries, table to body for Food Safety, Function & Smart Match - Enhanced Efficacy Management, Implement Wellness Plans Scientifically

Understand Food Function, Efficacy, Nutrients behind Foods

Health-Promoting Components- Phytochemicals & Bioactives



Understand Food Function & Efficacy

Six Vital Steps

- Help Community Understand Science behind Industry for Food Safety, Function and Efficacy.
- Smart Shopping from Fields, Industries, Table to Body according to Individual Wellness Needs.
- Manage Wellness with Enhanced Efficacy Management,
- Implement Plans Easily, Simply, Scientifically and Efficiently.





Science & Policies behind Industries

* Understand Science General Science behind our Foods/Industries

raw materials is limited to vitamins and minerals!

Use common sense to screen health products

because it affect our daily Life.

Is it a regular manufacturer?

* Smart Shopping - from fields, health industries, table to body for Food Safety, Function & Smart Match - Enhanced Efficacy Management, Implement Wellness Plans Scientifically

How to Filter Health Products - Food Safety, Quality & Efficacy Nutrients

Comparison of Regulations in Different Countries

Help Understand Food Safety, Quality & Efficacy Nutrients from Global Vision

• The existing regulatory policies in all countries mention that the regulation of

• No relevant certification for production formula, function and etc.

		Callaua	03
	Regulatory Authority	Health Canada	USFD
	Health Product Classification	Natural Health Products	Food
	Regulations	NHP Regulation	DSHE
	Whether Pre- approval Is Required Before Listing	Yes	No
inerals		Ca	ardiov

Conoda

	Vitamins, Minerals	Cardiova
	Clearer function	Products
	Gender, age	Fish oil
	Absorption rate and utilization	seawe
	Vitamin solubility	Heavy r
	Minerals (organic, inorganic; solubility)	Ethyl es
	Probiotic Products	Omega-
	Single strain	
	Source of strain	Brain and
	Wild type, mutagenesis,	Eye care p
	engineering bacteria	Bone and
	Aerobic, anaerobic, facultative	Sports and
	Number of live bacteria	Antioxidar
eners)	Medium; Bacterial age; Prebiotics	

Je i e general i e general i e e e e e e e e e e e e e e e e e e	
Is it certified?	Vitan
Does the product and certification match?	Cle
Whether the ingredients match	Ge
Use professional knowledge to screen health products	Ab
1. The product is suitable for the crowd (gender, age, physical	Vit
condition, etc.)	Mir
2. Main ingredient sources (origin; natural, synthetic;	Prob
animal, plant)	Sir
3. Main component extraction methods (physical, chemical)	So
4. Main ingredient content	Wi
5. Proportion of each component	(
6. Dosage form (tablets, granules, capsules, soft capsules,	Ae
soft candy, oral liquid, etc.)	Nu
7. Excipients (pigments, sweeteners, flavors, emulsifiers, thickeners)	Ме

Smart Shopping in Daily Life

	EU	China
A	EFSA	China Food And Drug Administration Ministry Of Health
ł	Food	Healthy Food
A	Directive 2002/46/EC	Health Food Registration And Filing Management Measures
	Products That Are Already Listed In The Approved List Of Raw Materials Do Not Require Pre-approval	For Products - Raw Materials Are Already Listed In The Approved List Of Raw Materials, Only Record Is Required

ascular and Cerebrovascular Health

S

il, seal oil, krill oil;

veed oil; egg yolk

metal pollution, chemical pollution ester type, triglyceride type, lecithin type a-3 content, DHA: EPA ratio, 3:6:9 ratio

nd memory enhancement products products I joint health products and fitness products ant products

Science & Policies behind Industries

- * Understand Science General Science behind our Foods/Industries
- * Smart Shopping from fields, health industries, table to body for Food Safety, Function & Smart Match - Enhanced Efficacy Management, Implement Wellness Plans Scientifically

Understand the Science & Information behind the Products

Understand Food Safety, Quality & Efficacy Care

Case Study - A "simple" health product

Gain insight into the game rules, professional analysis, smart choices & healthy eating

- 1. Product trademark rights, patent rights
- 2. Understand FDA and product efficacy claims
- 3. What is NPN#, NPN efficacy recommendation
 - https://health-products.canada.ca/lnhpd-bdpsnh/index-eng.jsp =>
 - Search field => NPN/DIN-HM : 8008726*
 - => Click 8008726* ; https://health-products.canada.ca/lnhpd-bdpsnh/info.do?licence=8008726*
- 4. Use real-time updated scientific information to identify: product quality and activity, product processing technology and bioavailability
- 5. Product price and sales channels
- 6. Sino-British, different language media joint operation and product information real, trademark, patent, efficacy, market association, fantasy source of chaos
- 7. Understand the marketing model and market share of different countries and different health industries
- 8. The Internet Message. FDA on Internet Information Source Identification and Health Care Consultation ... The Internet also allows for the rapid and widespread distribution of false and misleading information. Most of the information on the Internet is valuable; however, you should carefully consider the sources of information found on the Internet and discuss this information with your healthcare provider... - by FDA

Smart Shopping in Daily Life





1) What are the Canadian Contributions of Science/Industry to the World/Human Health? Page 23 - Discover Insulin, Page 38 - Functional Foods/Canadian Berries, Page 39 - Oats. 2) How could Canadian Health-related Sciences / Industry/Natural Products / Contributions **Guide/Benefit** Benefit our Wellness Management Efficiently?

Understand Canadian Berries - Function & Efficacy Nutrients

How could Canadian Natural Products Benefit our Wellness Management Efficiently?

North American Berries and medicinal herbs are a traditional health-promoting natural product found in Canada

- Blueherries

- Pine trees





Cranberries grown in Northern Canada





Canadian Northern Native Haskap Berries

Major Processing Technologies

- "Green" micronization process.
- Aseptic Packaging process.



- Pine Trees Contain Polyphenol (EGCG) which is an Fruit Pectin – Helps fight high cholesterol and is a good

- Mixture of Canadian northern native berries and herbs. The extract is rich in anthocyanins, Kuromanins (C3G), Proanthocyanidins, Catechins (EGCG), Soluble Pectin, etc. It is a good dietary supplement for heart and vision health, anti-glycation and weight management based on many scientific evidences.

Know Canada

Health benefits from ingredients

- □ Haskap Berries Are rich in Kuromanins (C3G) which help to reduce of blood sugar content (anti-glycation) .
 - proven anti-inflammatory properties.

Research for Berries Formula

 What are the Canadian Contributions of Science/Industry to the World/Human Health? Page 23 - Discover Insulin, Page 38 - Functional Foods/Canadian Berries, Page 39 - Oats.
How could Canadian Health-related Sciences / Industry/Natural Products / Contributions Guide/Benefit Benefit our Wellness Management Efficiently?

Fiber, Canadian Oats & Efficacy Nutrients



The Statue Erected in his Honor at Baicheng, China







Canada-China Collaboration in Oats and Agri-food – Started from 2004

Plant scientist Dr. Vernon Douglas Burrows; For more than 50 years, Burrows has been working to develop better varieties of oats.

Natural foods -"Naked Oat" based on a new processing technique developed by AAFC

(Agriculture and Agri-Food Canada) through a 15-year research and breeding project. The raw material is a new hulless and hairless oat variety.

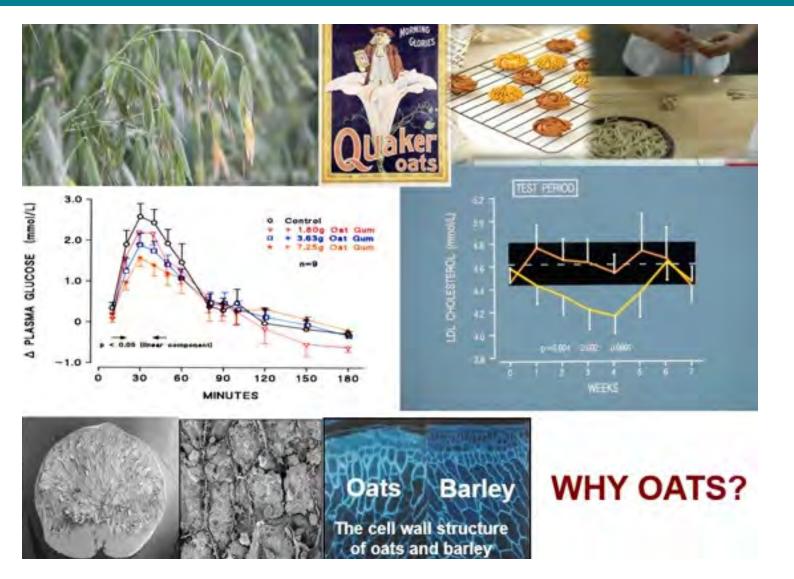
The Program in Food Safety, Nutrition and Regulatory Affairs (PFSNRA) of the University of Toronto that spanned the literature published from 1995 to 2006. In the PFSNRA review, 36 human studies were identified which investigated oat beta-glucan fiber and its cholesterol lowering properties.

Health Canada has concluded that scientific evidence exists in support of the claim linking the consumption of beta-glucan oat fiber to a reduction of blood cholesterol.

Canada's Science Contributions to Wellness

1) What are the Canadian Contributions of Science/Industry to the World/Human Health? Page 23 - Discover Insulin, Page 38 - Functional Foods/Canadian Berries, Page 39 - Oats. 2) How could Canadian Health-related Sciences / Industry/Natural Products / Contributions **Guide/Benefit Benefit our Wellness Management Efficiently?**

Fiber, Canadian Oats & Efficacy Nutrients



Phytochemicals, Antioxidant & Anti-inflammatory **Effects of Pulses**

The link between pulse foods, gut health and chronic disease

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Canada's Science **Contributions** to World

Fiber Science & **Canada's Contribution to Global Health**

Lentil as a functional food to improve glycemic control

Dietary Fibre and Gut Health: the role of gut microbiota

Current Fiber Research in Canada

How could Canadian Natural Products / Contributions Benefit our Wellness Management Efficiently?

Dietary Fibres in our Daily Life Wellness Needs







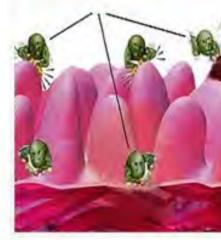


Reduces risk for developing the following diseases:

- Coronary heart disease, stroke, hypertension, diabetes, obesity, gastrointestinal disorders.
- Lowers blood pressure, improves blood glucose control in diabetes, and weight loss,
- Improve immune function.

What is dietary fiber?

Dietary fiber, is plant cell material that resists digestion and absorption in the human small intestine, with complete or partial fermentation (decomposition by bacteria) in the large intestine.





Two categories of fiber...Soluble

SOLUBLE fibers: In stomach, it absorbs water and mixes the food into a gel-like material. This slows the emptying of the stomach and the movement of the food mass through the intestine results in slow glucose digestion and absorption, and can result in an extended feeling of fullness.





This type of fiber is found in fruits, oats, barley, legumes.

Two categories of fiber... Insoluble

INSOLUBLE fiber not digest fiber. The viscous fibers take the contents of the intestinal tract during movement, increase fecal mass, and lower the absorption of sugar, reduce sugar response after eating, and reduce lipid absorption. Insoluble fiber is found in greatest amounts in cereals; wheat bran; stalks, peels, and seeds of fruits & vegetables.



Sources of fiber

Dietary fiber is found only in plant products, including fruits, vegetables, nuts, and grains.

- Best sources of fiber are in whole-grain products, fruits and vegetables, and beans (dried beans and peas).
- Refined or processed foods (white bread, pasta, fruit juices, and non-whole-grain cereals) are lower in fiber content.
- Fiber content will be lowered if you remove the skin from fruits and vegetables.

How Canadian Natural Products **Benefit our** Wellness











News and Videos

Life Cycle Wellness Management Competition

National Nutrition Day 2019-05-26 (Awards, Entries Exhibitions)

Learn, Practice, Lead, Share & Inspire - National Nutrition Day /

Layer-by Layer Collaboration: Keynote Speech, Awarding, Excellent Entries Exhibitions

A. Life Cycle Wellness Management Competition

- 1. Chinese Media Reports Life Cycle Nutrition Health Care Speech Contest http://www.yesmyradio.com/news_detail.php?menuid=53&id=2216
- 2. Video on YouTube
- 1) Kids' Speech Contest-Part 1:
- https://www.youtube.com/watch?v=9GVkfLdkg10
- 2) Kids' Speech Contest-Part 2: https://www.youtube.com/watch?v=N1ek0hfzQH0
- 3) Kids' Video Contest on YouTube 3a: https://youtu.be/wemFG8NGM24 3b: https://youtu.be/OryFR9oODdw
- 3c: https://youtu.be/OWeSDUvRcFM

B. National Nutrition Day 2019-05-26

- 1. Media reports
- 1) https://cmidinc.ca/news-and-events
- 2) Chinese media reports National Nutrition Day 2019-05-26 http://yesmyradio.com/news_detail.php?menuid=3&id=2264
- 2. Video on YouTube National Nutrition Day 2019-05-26
- 1) Speech Mr. Thomas Lin President of ACPN https://www.youtube.com/watch?v=1K0JK08CC7s
- 2) Dr.Bruce Holub Speech & Interview on National Nutrition Day 2019-05-26
 - 2A: Speech: https://youtu.be/W001tUUOKfM
 - **2B: Dr.Bruce interview:**

https://www.youtube.com/watch?v=Kufp9GDUOfA https://www.youtube.com/watch?v=fGg7t1gxWfY

- 3) Dr. Heyu Ni Speech on National Nutrition Day https://www.youtube.com/watch?v=1K0JK08CC7s
- 4) Dr. Rafik Ragheb Speech on National Nutrition Day 2019-05-26 https://www.youtube.com/watch?v=elK4Szx6D_4

- 3. Chinese media reports Awarding of Writing, Speech, Video Competition https://youtu.be/rRvHjns0PX8 https://youtu.be/VTwhrWe6TAQ
- 4. Awarding of Photography Competition
 - 1) Chinese media reports
 - http://www.atlantic-arts.org/portal.php?mod=view&aid=197
 - 2) Video on YouTube Awarding of Photography Competition https://www.youtube.com/watch?v=TkFAkeNCJ14



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S.E.S.E

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TOGETHER AS ONE See the Future & Create the Future

The Association of Certified Professional Nutritionists

