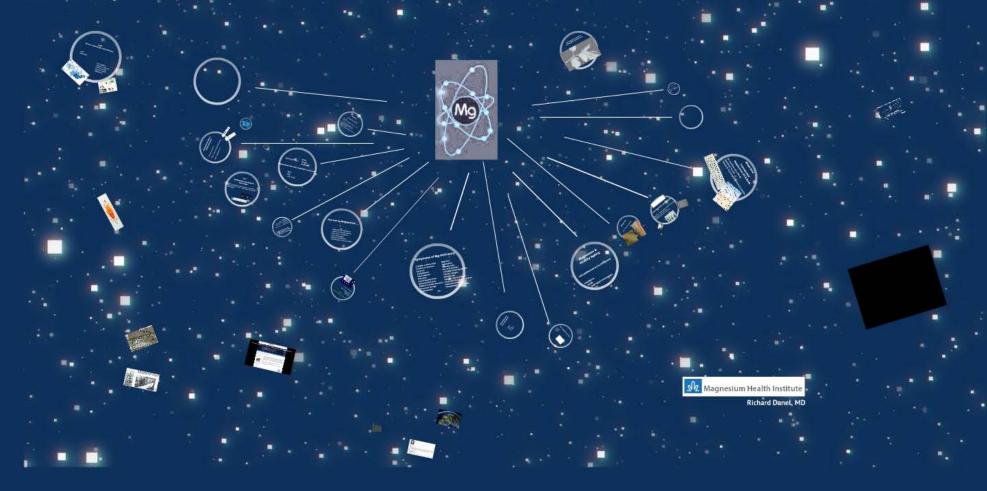
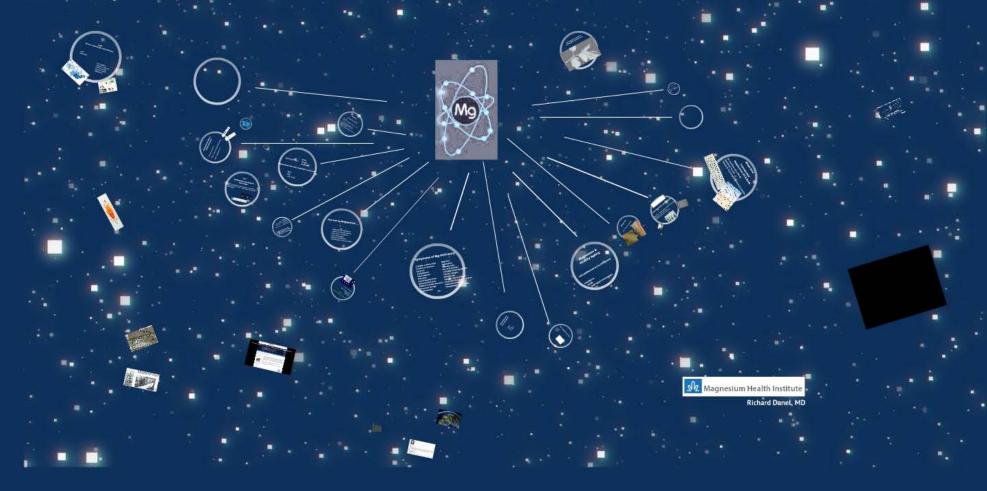
AN EXPERIENCE IN THE UNIVERSE OF MAGNESIUM



AN EXPERIENCE IN THE UNIVERSE OF MAGNESIUM





Magnesium Health Institute

Richard Danel, MD





Ronald J. Elin, M.D., Ph.D. A. J. Miller Professor and Chairman

Medical Education:

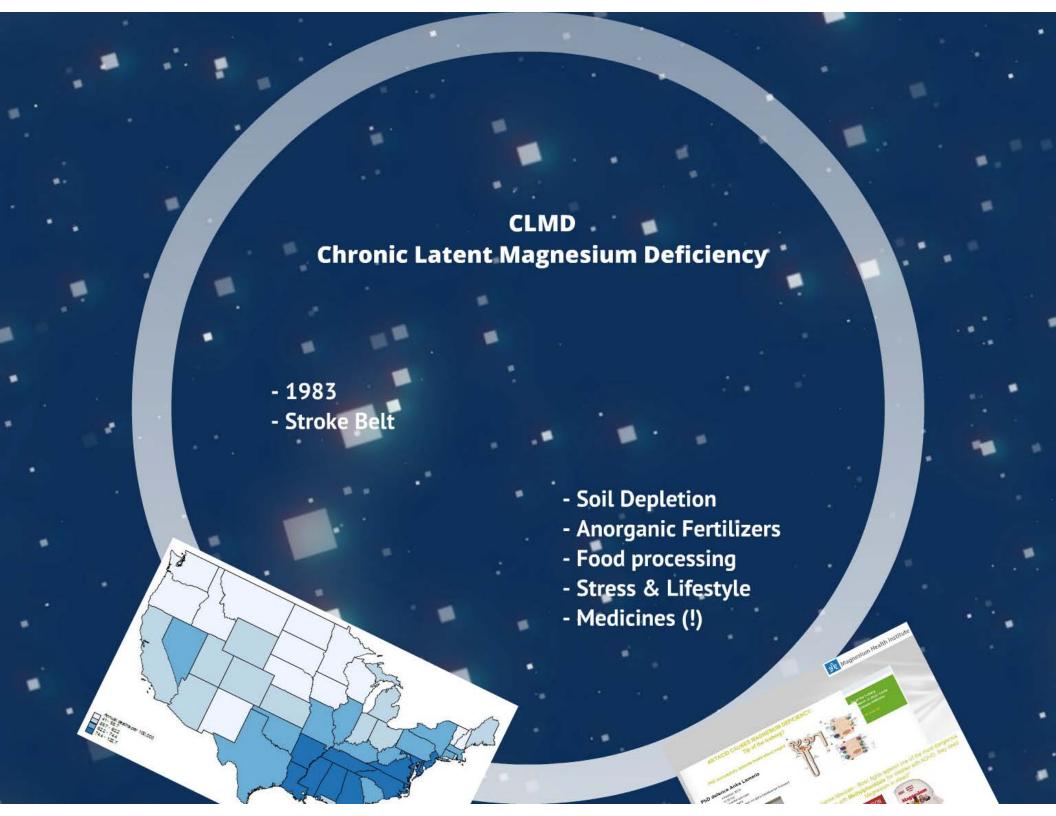
Dr. Elin received his M.D. degree in 1966 and Ph.D. with a major in biochemistry and a minor in pathology in 1969. During that time Dr. Elin completed residency training in anatomic pathology. After a straight medicine internship at the University of California Hospital at San Diego Dr. Elin went to the National Institutes of Health. Dr. Elin spent three years in the National Institutes of Allergy and Infectious Disease as a research associate and completed a clinical pathology residency. In 1975 Dr. Elin became the Chief of the Clinical Pathology Department and in 1977 the Chief of the Clinical Chemistry Service within that department; positions that Dr. Elin held until 1997. Dr. Elin moved to the Department of Pathology and Laboratory Medicine at the University of Louisville in 1997.

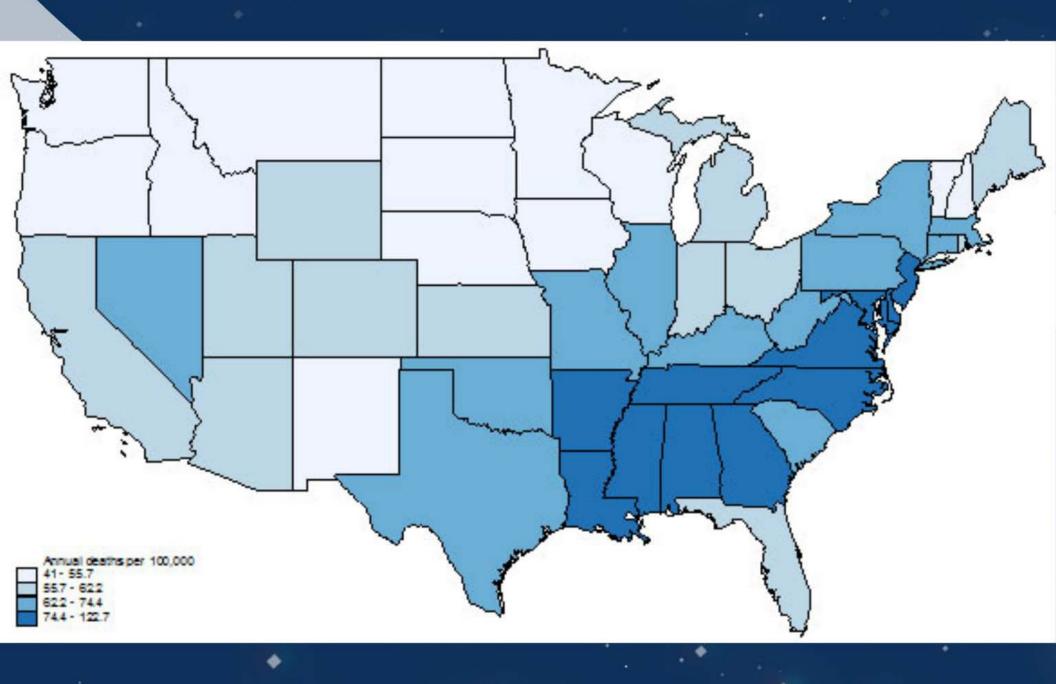
Specialties:

American Board of Pathology Anatomic and Clinical Pathology—1974
Subspecialty of Medical Microbiology—1976
Subspecialty of Chemical Pathology—1980
American Board of Medical Microbiology—1977
American Board of Clinical Chemistry—1980

Research Interests:

Dr. Elin has had a research interest in mineral metabolism, particularly magnesium, properties if endotoxin, interference with clinical laboratory testing, and definition of the reference range.





ANTACID CAUSES MAGNESIUM DEFICIENCY: Tip of the Iceberg?

PhD successfully defends thesis about magne

PhD defence Anke Lameris

Date: 4 February 2014

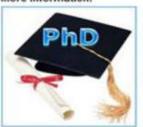
Time: 12.30 hrs

Location: Aula of the University

Speaker: Anke Lameris

Title: Divalent Digestion: Insight in Intestinal Ion Transport

More information:





Radboudumc

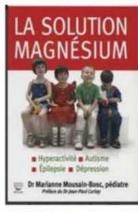
pnesium deficiency

to view list

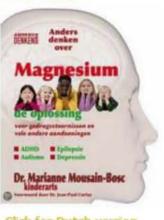
Dr. Marianne Mousain - Bosc fights against one of the most dangerous drugs: "Stop with Methylphenidate for children with ADHD, they need Magnesium in stead!"



Read her epoch - making book:



Click for French version



Tip of the Iceberg

dreds of drugs cause

Click for Dutch version

2016

MAGNESIUM COMMUNITY World Wide

- Awareness (supplementation = inevitable / SDRM Mexico 2013)
- Which Supplement? / Elin--> MgCl2 superb bioavailability!
- Which MgCl2?





updated May 24, 2016

SDRM

International Society for the Development of Research on

The 'Magnesium Aware community' is rapidly growing. Worldwide and it's high time!

SDRM

Events

Membersh

Reserved /

Scientific !

Contacts

Scientific Committee

President

Prof. Federica I. Wolf



"Dear Colleagues and Friends....



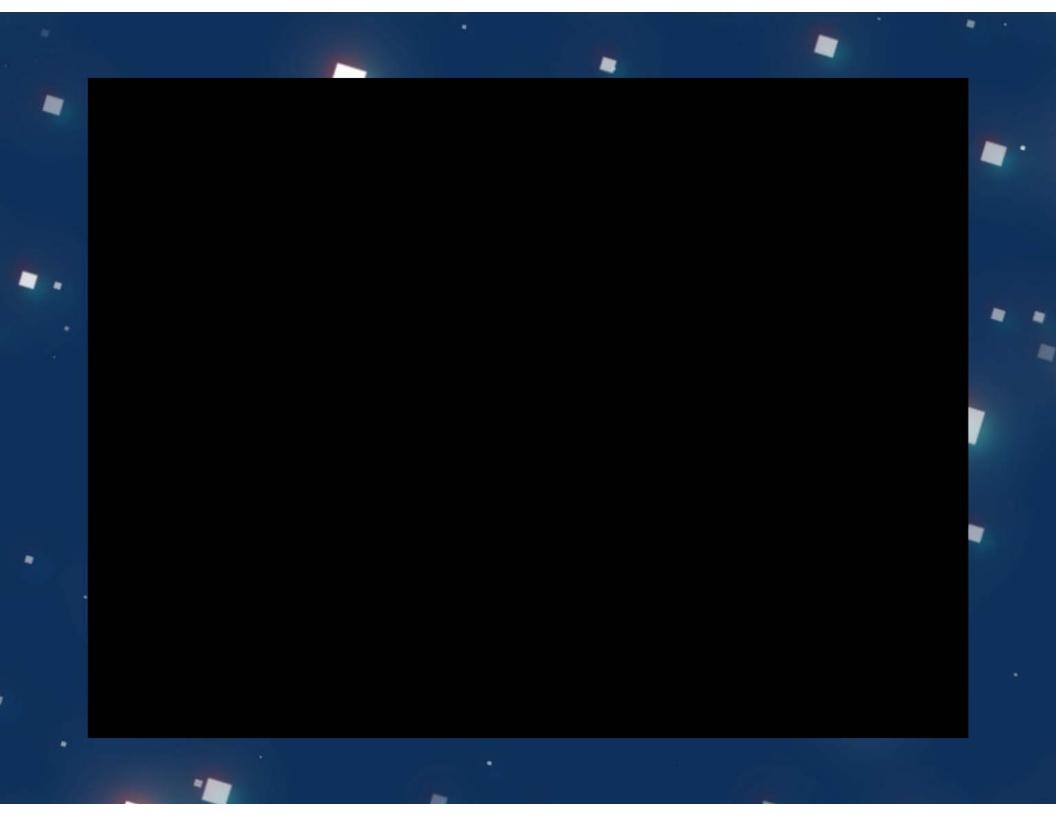
WELCOME TO SDRM

The International Society for the Development of Research on Magnesium (SDRM) is a non-profit organisation. The purpose of the Society is to promote magnesium research in all branches of life science and medicine by increasing the collaboration, diffusion and exchange of information. SDRM holds international scientific meetings and supports the publication and presentation of scientific results.

"Magnesium Research" is the official scientific JOURNAL of the Society: http://www.magnesiumresearch.com/index.phtml

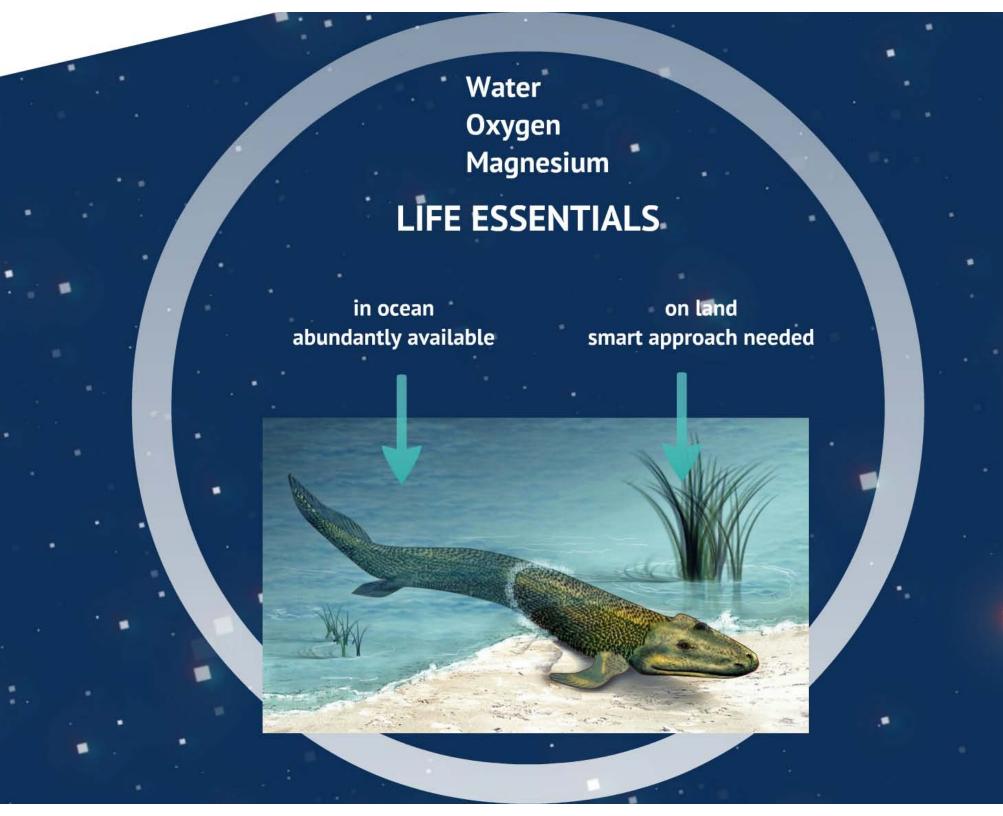
SDRM was founded in the '70s in Paris by a group of medical doctors under the leadership...(Read More)



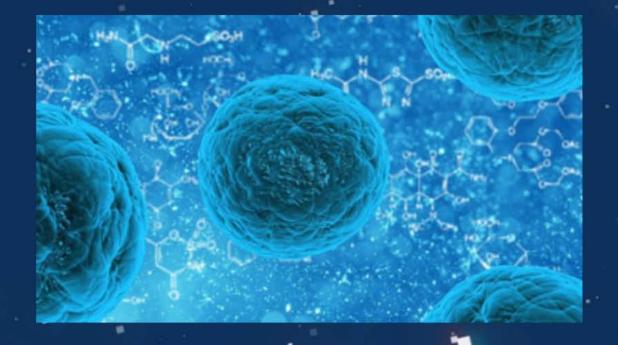




- WHO
- FDA
- < 50 % RDI



Interstitium



We carry our own Ocean

BREAKING!

MAGNESIUM & CANCER

Correlation cancer and magnesium deficiency = proven

Colo-rectal cancer, prostate cancer, lung cancer, esophageal cancer, pancreatic cancer, EBV-driven (Burkitt, Hodgkin, sarcoma, etc.)

MAGNESIUM & PARKINSON & ALZHEIMER

INFLAMMATION

- & DIABETES
- & METABOLIC SYNDROME
- & HYPERTENSION
- & STROKE
- **& CARDIO VASCULAIR DISEASE**
 - & DEPRESSION
 - & PMS
 - & MIGRAINE
 - & - -

INFLAMMATION

NEUROLOGICAL INFLAMMATION

ALZHEIMER'S DISEASE

AUTOIMMUNE DISEASES

ARTHRITIS

PULMONARY DISEASES

Too low in Magnesium

- Inflammation & calcification
- oxidative stress (free radicals)
- wide variety of conditions
- accelerated ageing
- aggravation of diseases
- intensification of pain perception

What are the causes of magnesium deficiency in Western population?

- Anorganic fertilizers in modern agriculture
- Food processing
 - High Calcium diet (Mg/Ca ratio!)
 - Lifestyle (stress, stimulants, sugar, high sodium intake)
 - Medicine

Symptoms of Mg-deficiency

Cramps, restless legs **Insuline resistance** Seizures **Arrhythmias Hypertension** Insomnia **Sexual dysfunction Memory disorders ADHD & learnin disorders** Character change rkinsonism etc.

Migraine
Depression
Osteoporosis
Pre- & Eclampsia
Irritable Bowel Syndrome
Chronic fatigue
Obstipation
Hypersensitive bladder
Psoriatric like skin disorders
Excessive sweating
Immunological disorders



Appropriate test fails

What counts is Intracellulair Free Mg

Serum magnesium = 1%

the whalky 1. Mario Barbagallo

en Serunk Magnesium and aging

le reersterhe hubble, meer



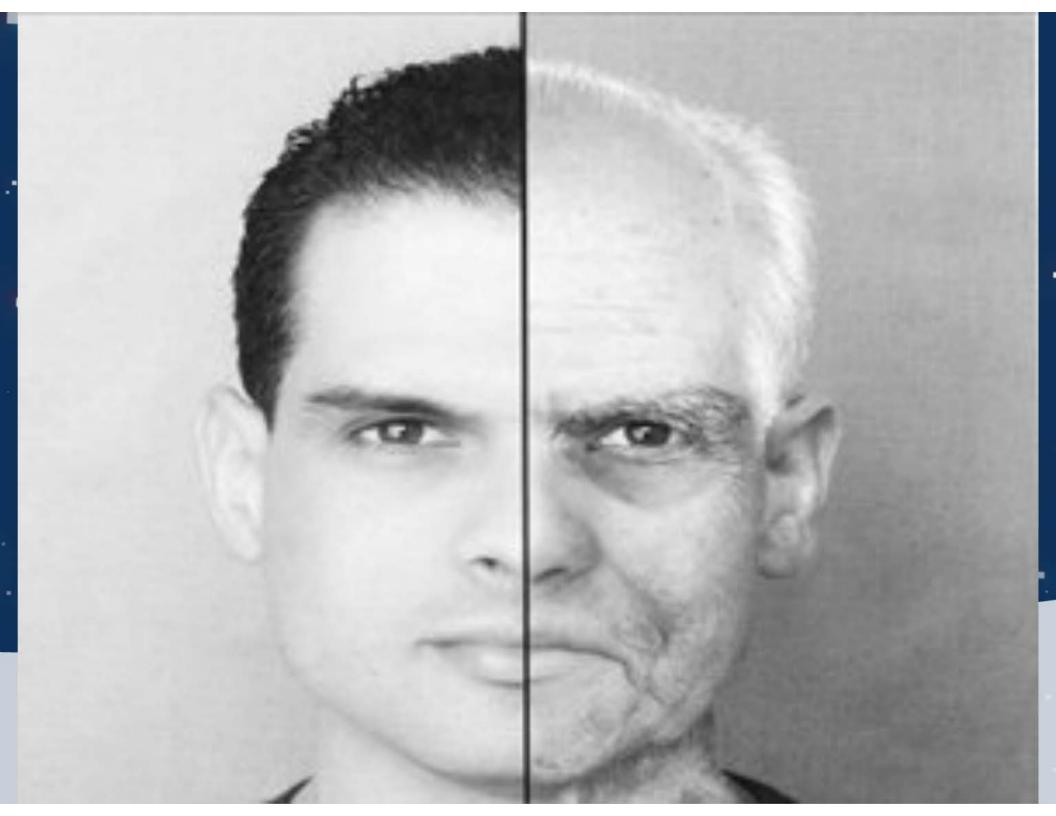
INFLAMMATION & CALCIFICATION

Telomeres

DHEA

Cell repair mechanism

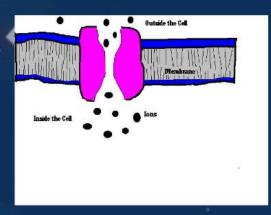


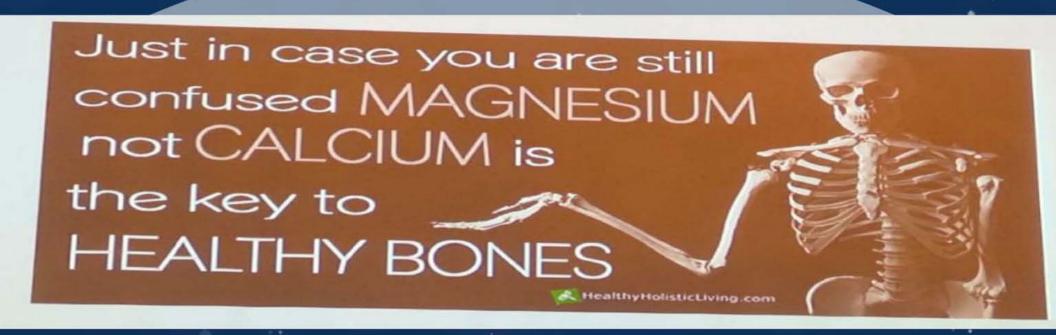




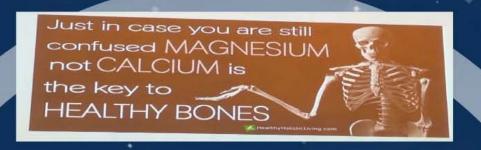
Mercury Lead Cadmium Aluminium > 327 enzyme processes

'Chanzime' Channels Enzymes





ent in bone metabo



Cement in bone metabolism

Mg/Ca ratio is more important than absolute quantity

Netherlands = champion Ca-diet

Netherlands = champion osteoporosis







Food rich in Magnesium?

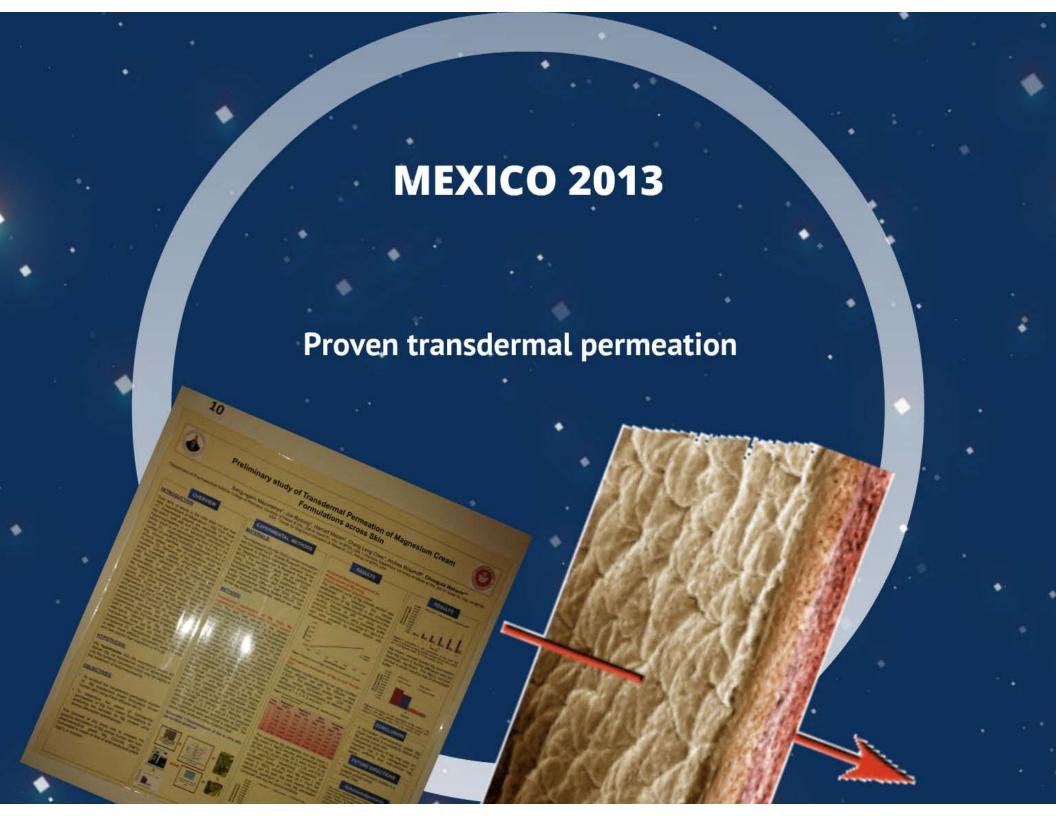
Beans
Green vegetables
Nuts
Chocolate
Grains
Broccoli
Avocado

Food processing
Bodem depletion
CA/Mg ratio
Intestinal absorption is pool
Life style and excretion





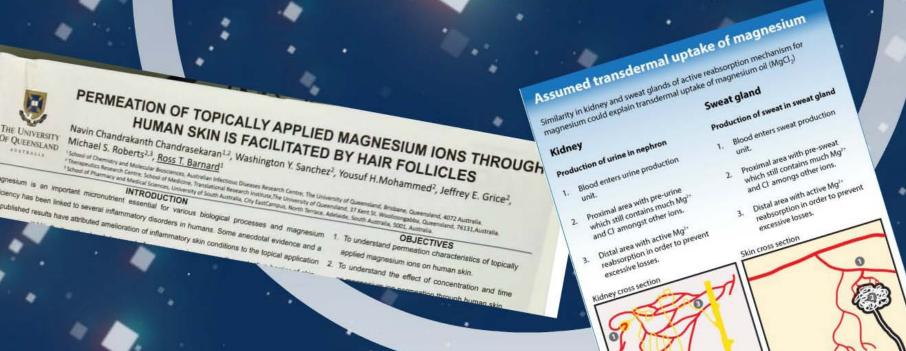






Transdermal Magnesium Oil & Bath

No intestinal side effects
Beneficial for skin
Mental & Neurological (relaxing) benefits



Mental & Neuro

Assumed t magnesium co

Kidney produc



PERMEATION OF TOPICALLY APPLIED MAGNESIUM IONS THROUGH **HUMAN SKIN IS FACILITATED BY HAIR FOLLICLES**

Navin Chandrakanth Chandrasekaran^{1,2}, Washington Y. Sanchez², Yousuf H.Mohammed², Jeffrey E. Grice², Michael S. Roberts^{2,3}, Ross T. Barnard¹

1 School of Chemistry and Molecular Biosciences, Australian Infectious Diseases Research Centre, The University of Queensland, Brisbane, Queensland, 4072 Australia.

1 Therapeutics Research Centre, School of Medicine, Translational Research Institute, The University of Queensland, 37 Kent St. Woolloongabba, Queensland, 76131, Australia.

School of Pharmacy and Medical Sciences, University of South Australia, City EastCampus, North Terrace, Adelaide, South Australia, 5001, Australia.

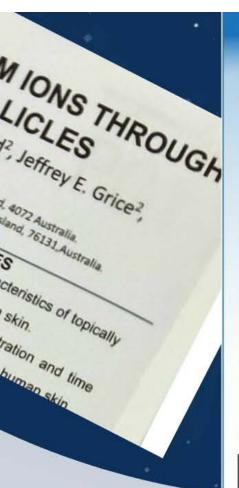
INTRODUCTION

Magnesium is an important micronutrient essential for various biological processes and magnesium 1. To understand permeation characteristics of topically deficiency has been linked to several inflammatory disorders in humans. Some anecdotal evidence and a few published results have attributed amelioration of inflammatory skin conditions to the topical application

OBJECTIVES

- applied magnesium ions on human skin.
- 2. To understand the effect of concentration and time

normastion through human skin



Assumed transdermal uptake of magnesium

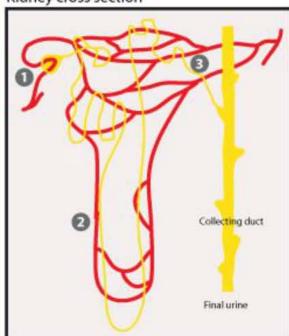
Similarity in kidney and sweat glands of active reabsorption mechanism for magnesium could explain transdermal uptake of magnesium oil (MgCl₂)

Kidney

Production of urine in nephron

- Blood enters urine production unit.
- Proximal area with pre-urine which still contains much Mg²⁺ and Cl⁻ amongst other ions.
- Distal area with active Mg²⁺ reabsorption in order to prevent excessive losses.

Kidney cross section

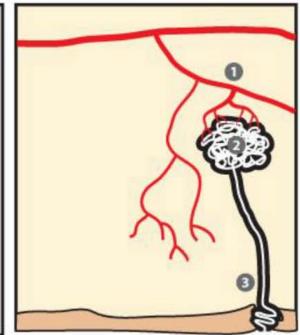


Sweat gland

Production of sweat in sweat gland

- Blood enters sweat production unit.
- Proximal area with pre-sweat which still contains much Mg²⁺ and Cl⁻ amongs other ions.
- Distal area with active Mg²⁺ reabsorption in order to prevent excessive losses.

Skin cross section





Door Marscha van Noesel



me werking van aan bad water toegevoegd mag- en in extreme gevallen zelfs hartritmestoornis- werking, alleen minder sterk dan magnesigenesium Health Instituut in Veendam opge- bletten bijvoorbeeld." richt. Danel: "Ons doel met dit instituut is om

mesiumotie of magnesiumchioride. Zolang die sen. Of die symptomen bet gevolg zijn van een umchloride. Een verkoopster in een reformwerking niet wetenschappelijk is onderbouwd, magnesiumtekort is overigens moedlijk vast te winkel verkdaart dat ze geregeld Dode Zeezout willen ze nog voorzichtig zijn met hun bewe. stellen. Wel kan er diarree omtstaan wanneer er in haar badwater gook om even te 'ontslakken'. willen ze nog voorzichtig zijn met hun bewe. stellen. Wel kan er diarree ontstaan wanneer er ringen. Daarom bebben Danel en Janse het Ma- te veel magnesium wordt ingenomen, via ta-

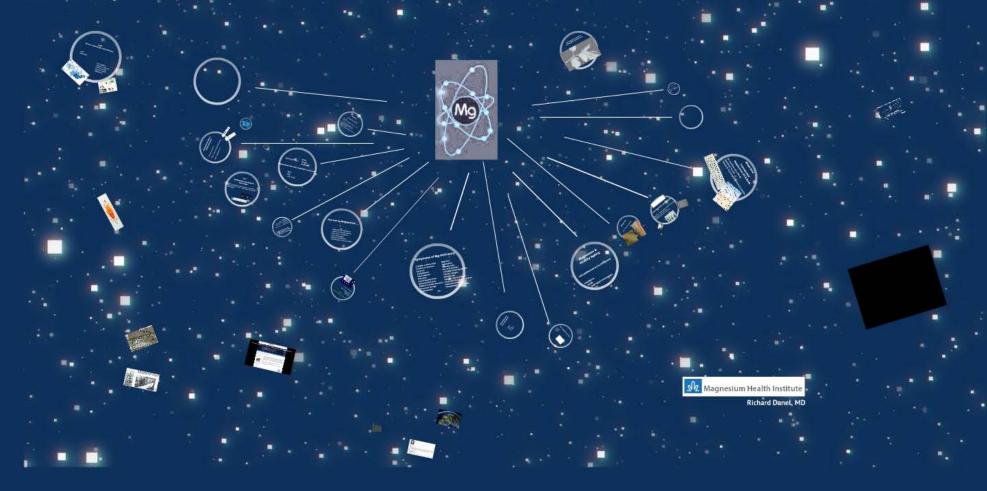
Als het Dode Zeezout of magnesiumchloride geen enkele werking zouden hebben via de Richard Danel beschild over eijfers uit Ameri- haid, waarom vergoeden verzekeraars dan wel



Dave janse (links) en Richard Danel bij wedniag.

> Foto's: Dannis F. Book

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THANK YOU FOR ATTENDING
THE ZECHSTEIN MAGNESIUM COMMUNITY

