# My Ageless Brain<sup>TM</sup>

7 Keys to Staying Sharp

with

NANCY LONSDORF, MD



# My Ageless Brain ™

7 Keys to Staying Sharp\*

with

Nancy Lonsdorf, MD

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### My Ageless Brain ™ 7 Keys to Staying Sharp\*

#### with

### Nancy Lonsdorf, MD

Introduction to The Discovery – *How to Heal Your Magnificent Brain* 

- What it is
- How it works
- Who does it work for

#### Key #1: The Cognoscopy

- Is your diet and lifestyle "brain healthy?"
- How is your brain doing? How to find out.
- Blood tests everyone needs to ensure brain health.

#### Key #2: Tame Your Inflammation

- Inflammation and Your Brain
- Cardiovascular and Brain health

#### Key #3: Heal Your Gut-

- Your gut Is it leaky?
- Your Gut-Brain Type
- Diet tips for optimal mind and memory
- Ayurvedic self-pulse healing

#### Key #4: Better Your Blood Sugar for A Better Brain

- Diet
- Exercise

#### Key #5: Nine Nutrients Your Brain Craves

#### Key #6: Hormones and Your Brain

- Hormones do you have enough?
- Is taking hormones safe?
- How stress affects memory
- How best to de-stress
- Expert Interview excerpt: How Meditation Types Differ, Fred Travis, PhD

### Key #7: The Detox Imperative: How to Protect and Heal Your Brain

- The Hazards of Hidden Inflammation
- Mold exposure
- Heavy metals
- Air pollution
- Infections
- Medications and more

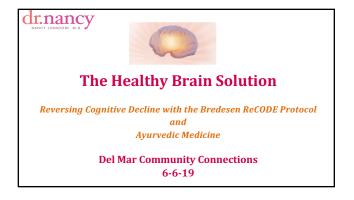


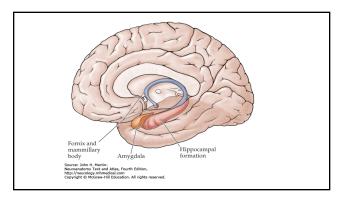
### INTRODUCTION

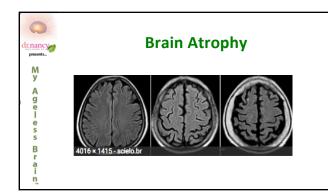
The Discovery:

How to Heal Your Magnificent Brain

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Review

Reversal of cognitive decline: A novel therapeutic program

Dale E. Bredesen<sup>1, 2</sup>

1 Mary S. Easton Center for Alzheimer's Disease Research, Department of Neurology, University of California, Los Angeles, CA 90095;

2 Buck Institute for Research on Aging, Novato, CA 94945.

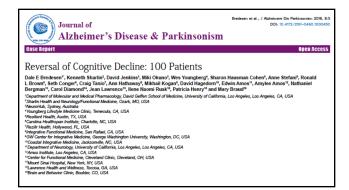
Key words: Alzheimer's, dementia, mild cognitive impairment, neurobehavioral disorders, neuroinflammation, neurodegeneration, systems biology

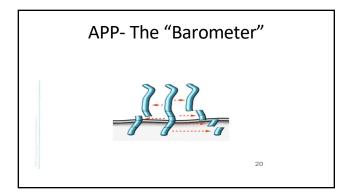
Received: 9/15/14, Accepted: 9/26/14; Published: 9/27/14

Correspondence to: Dale E. Bredesen, Mily. E-mail: disredesen@mednet.ucla.edu; disredesen@buckinstitute.org

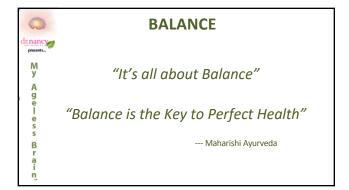
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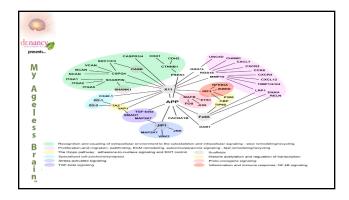


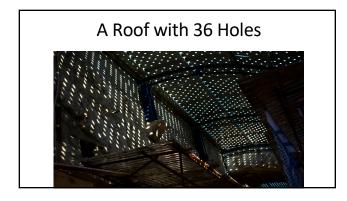


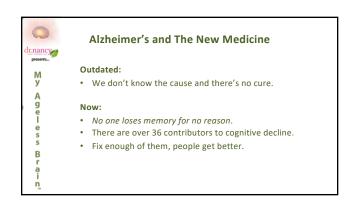




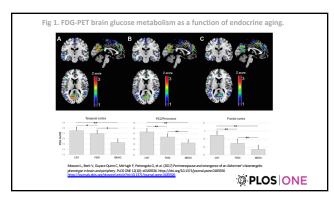


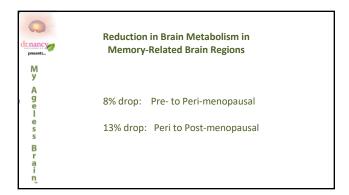


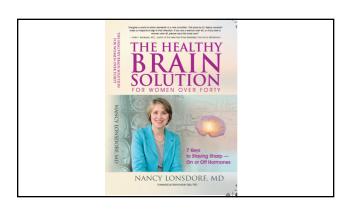


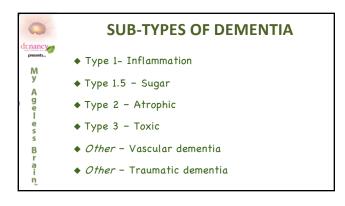










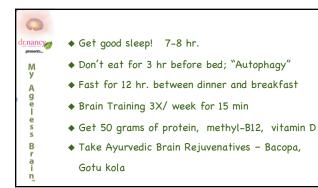




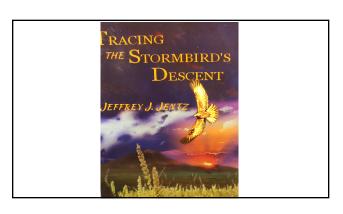


B r a i

- ◆ Eat mainly organic, fresh vegetables, berries,
- ◆ Cut out sugar and refined flour
- ♦ Eliminate "bad" fats and processed (chips, deep fried,) GMO
- ♦ Drink 6-8 cups of pure water daily, warm



r.nancy presents... It takes 4-12 months of "Living the protocol" to stop or reverse Cognitive decline. B r a i





Tracing the Summbriet Descent

Dean Namey, LONS ONF, M.D.

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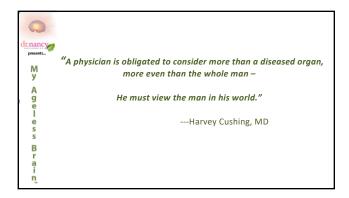
Blessed Blessty-show upon you go

Jell Jents

Jell Jents

Jell Jents

Jell Jents Thank you for....the right methods to break through the ...mental wall in my head. Only then was I able to reclaim the keys to momentum to open and reopen my heart and mind. Above all, you've guided me to cultivate the essence for body, mind, heart, and soul. With Wonder & Wellness, Jeff J.

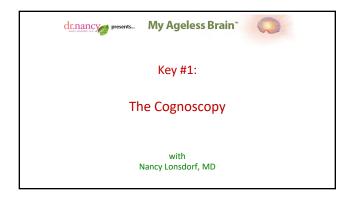


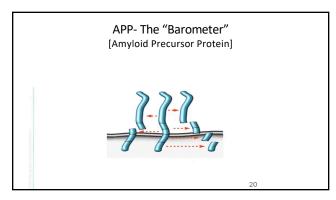
### My Ageless Brain ™ *7 Keys to Staying Sharp*

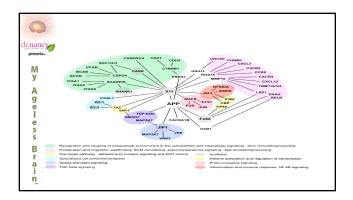
### Key #1

### Know Thyself

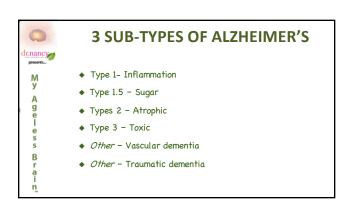
Comprehensive Lab Testing: The "Cognoscopy"

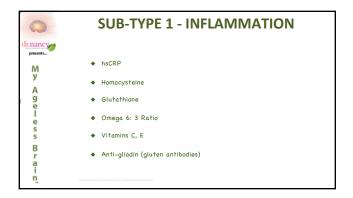


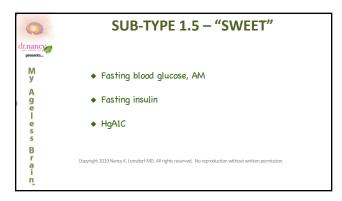


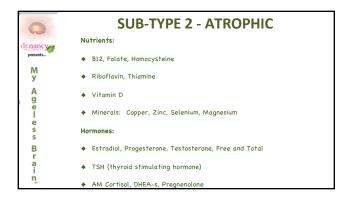


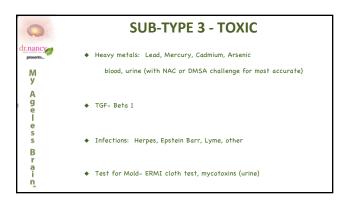












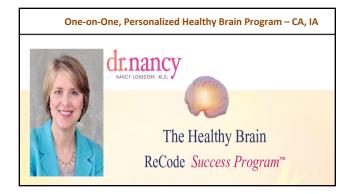
Maharishi Ayurveda Science of Life



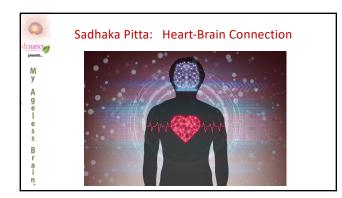












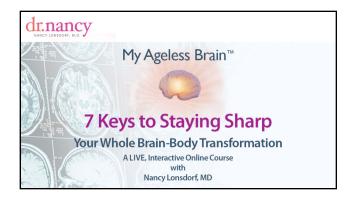


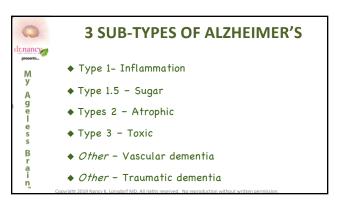


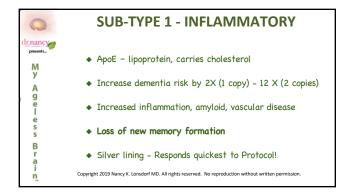


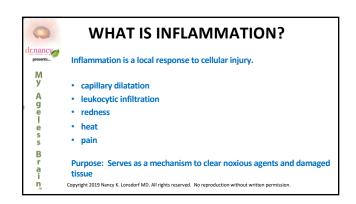
Key #2

Tame Your Inflammation



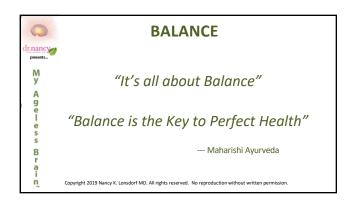


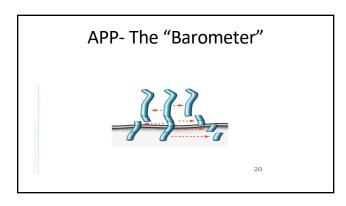


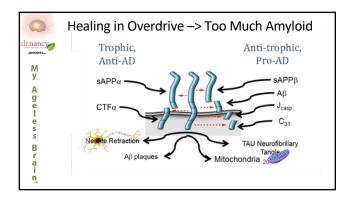


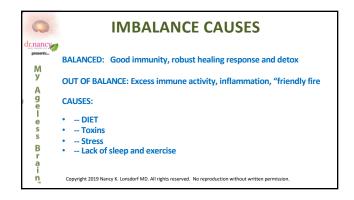


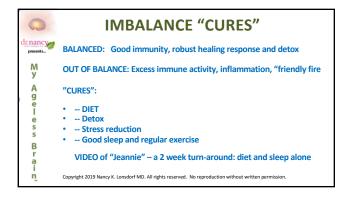


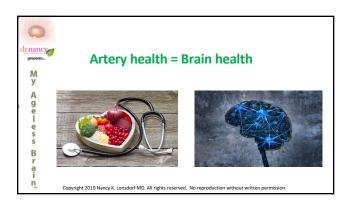


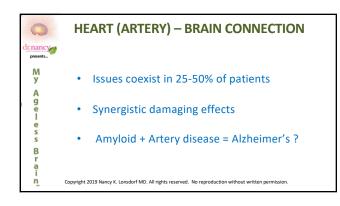


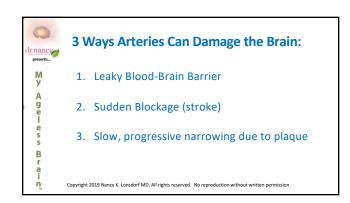


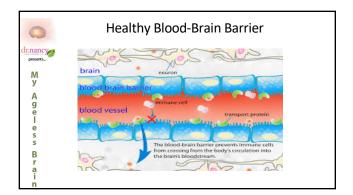


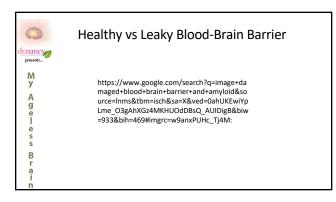


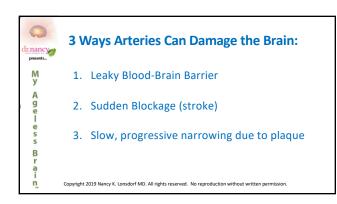


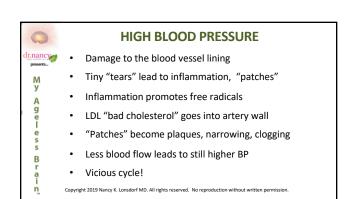


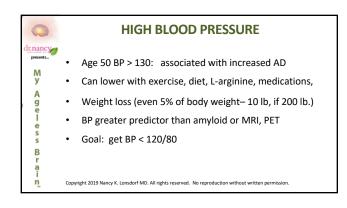


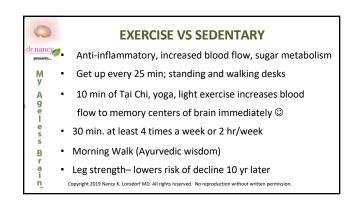


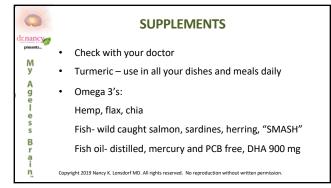


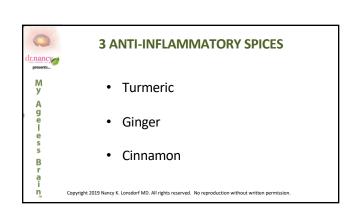




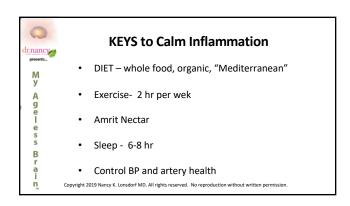








Amrit Nectar (tablet)
Anti-inflammatory
Anti-oxidant
Shankapushpi and Gotu kola
Rejuvenated mitochondria, metabolism
Increases Acetylcholine  Copyright 2019 Nancy K. Lonsdorf MD. All rights reserved. No reproduction without written permission.





### **How Much Inflammation Do YOU Have?**

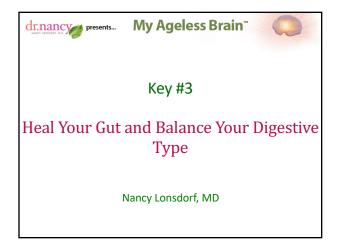
Blood tests to do:

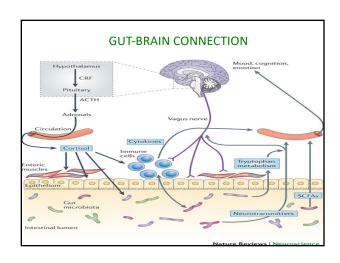
- hsCRP (high sensitivity C-Reactive Protein)
- Homocysteine
- ESR (sedimentation rate)
- TGF-Beta 1 (Transforming Growth Factor Beta 1)
- Omega 6: omega 3 ratio (www.lifeextension.com if your local lab doesn't do)

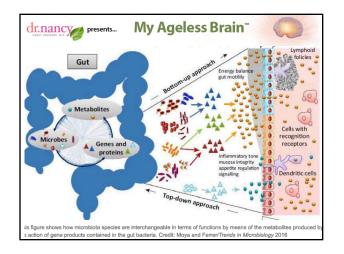
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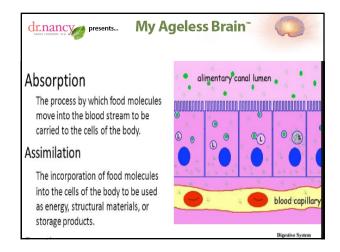
Key #3

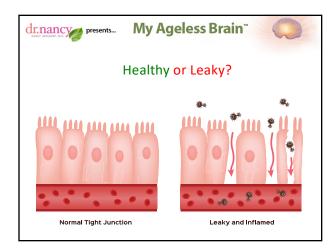
Heal Your Gut, Heal Your Brain



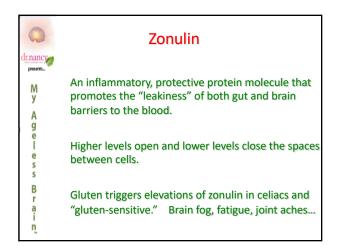


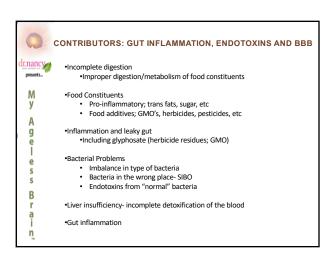


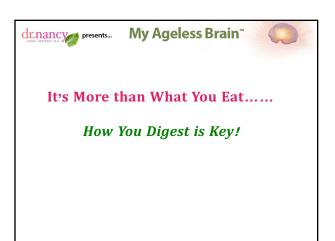


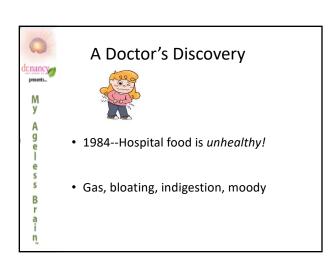


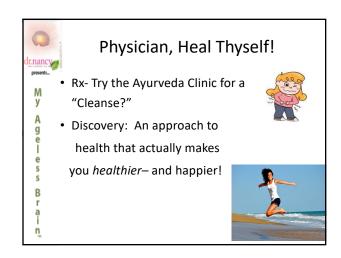


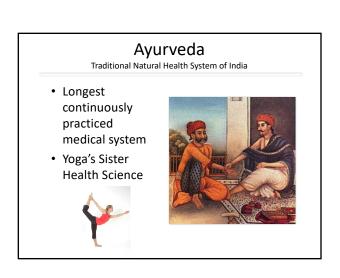


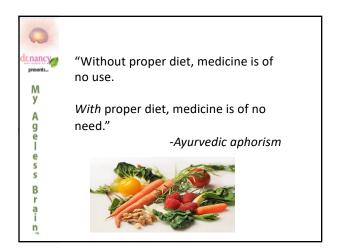


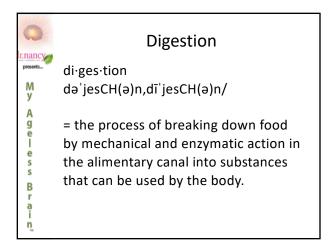


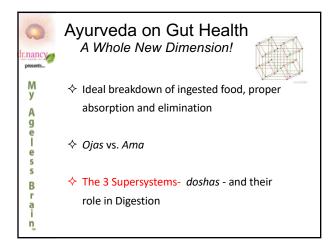


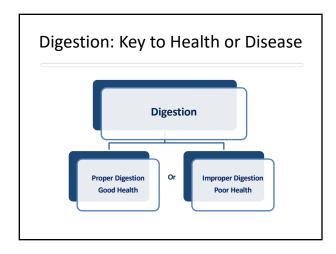


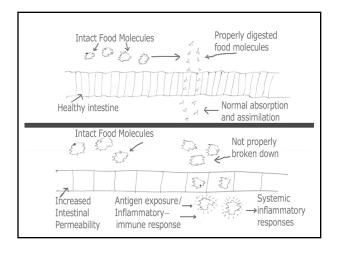


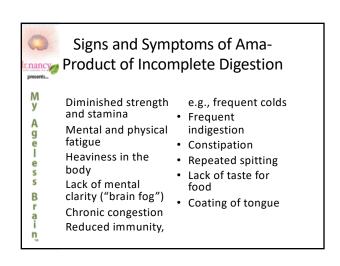


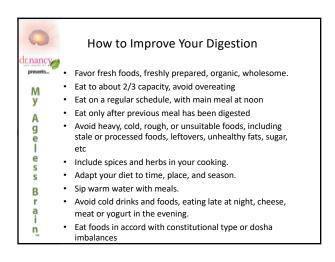


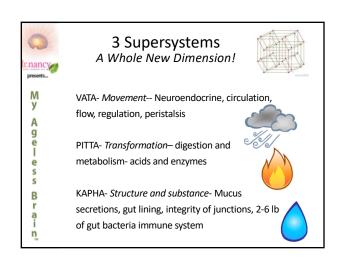


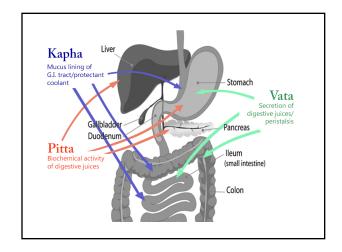


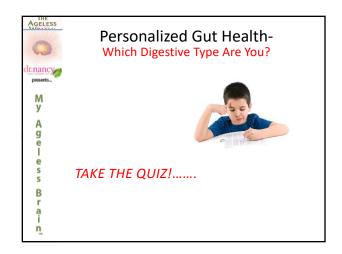


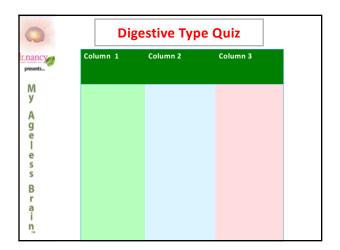


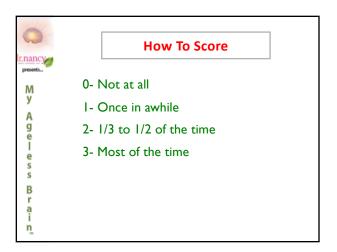


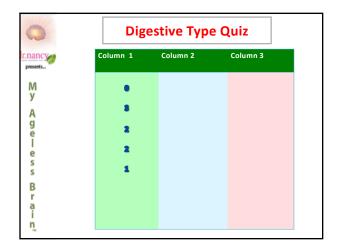


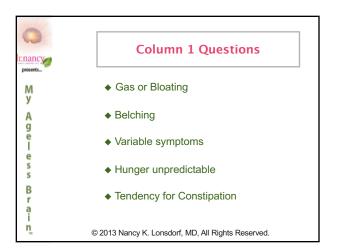


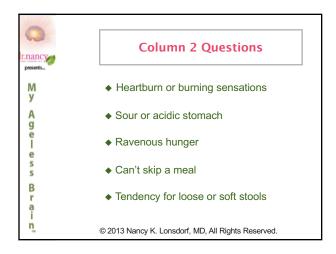


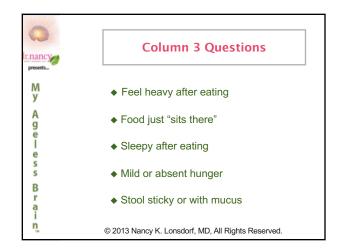


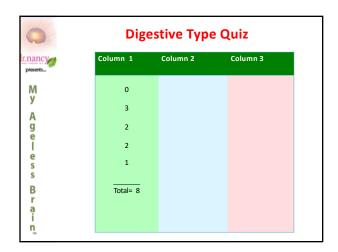


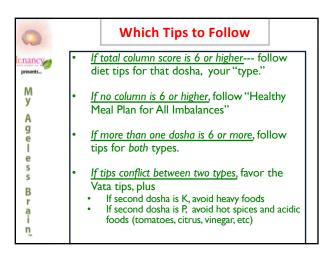


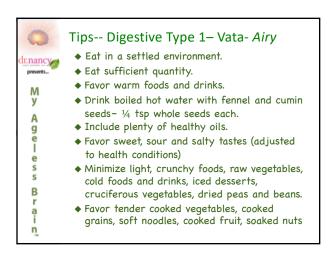




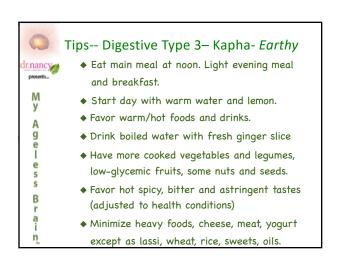










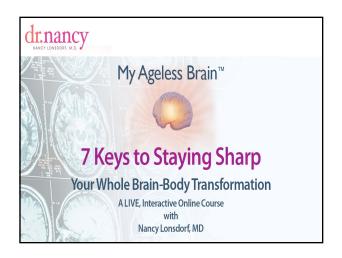


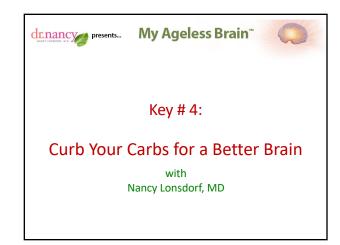




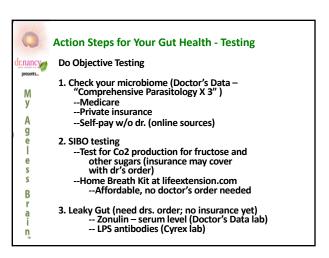
### Key #4

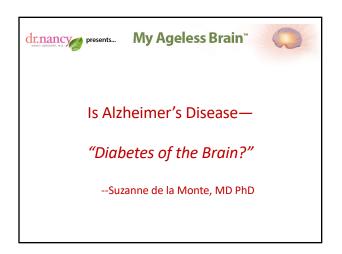
Better Your Blood Sugar, Better Your Brain

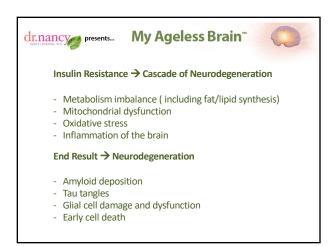


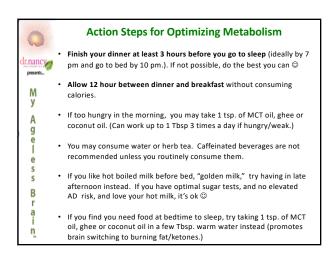


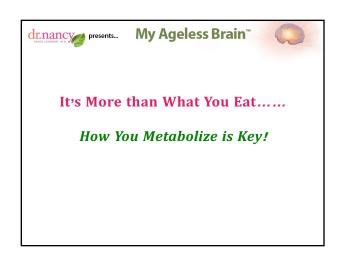




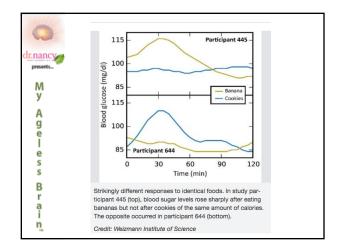


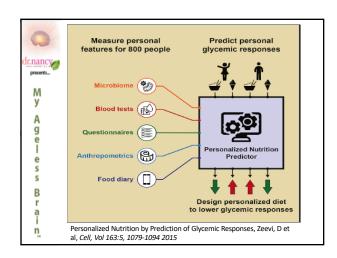


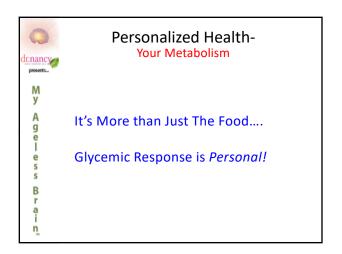


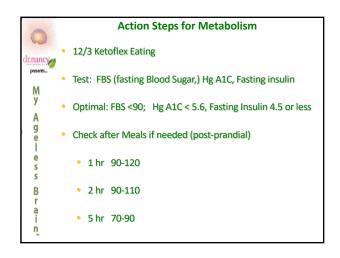


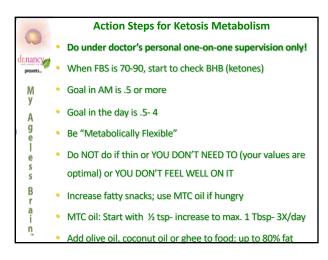








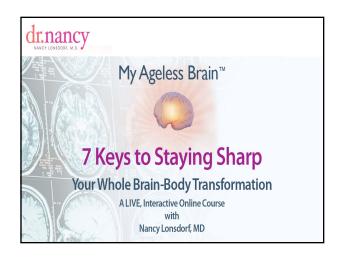


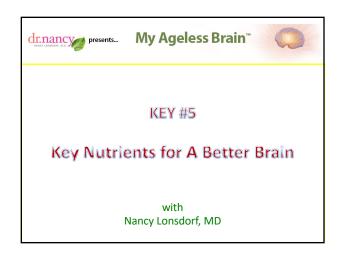


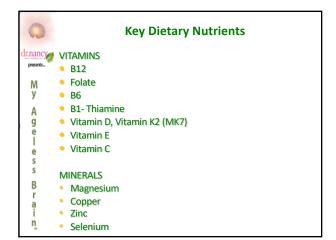


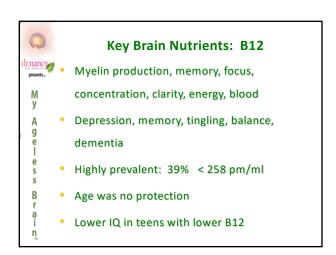
Key #5

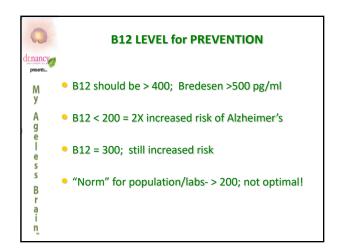
The Nine Nutrients Your Brain Craves

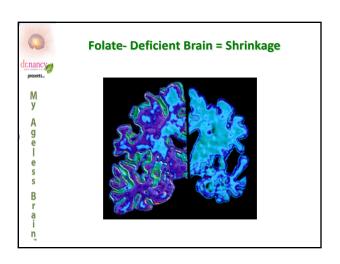


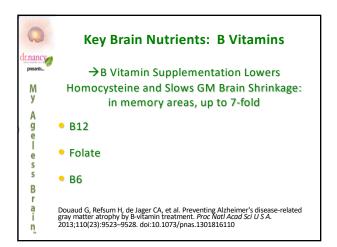


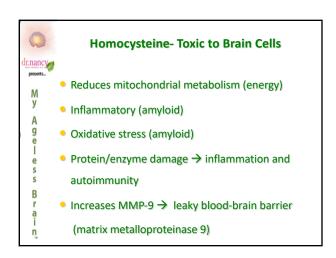


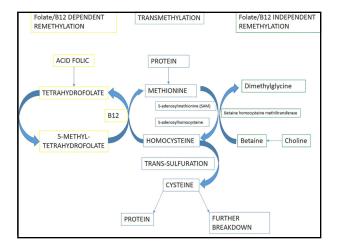




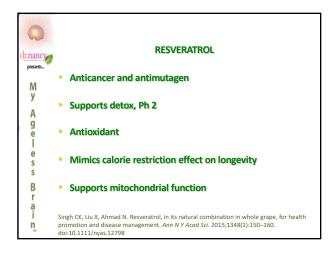


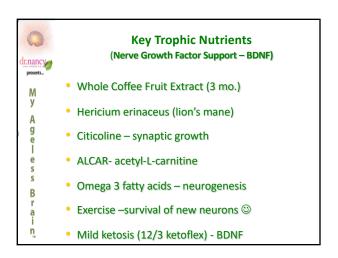


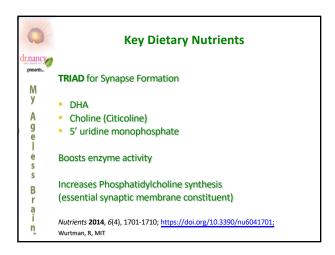


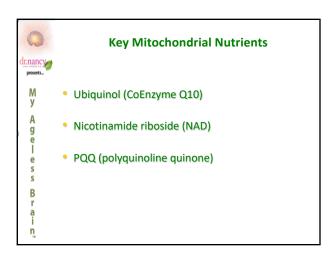


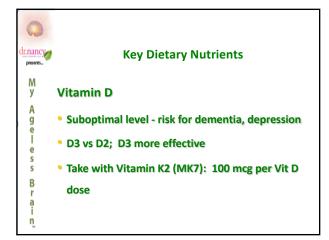


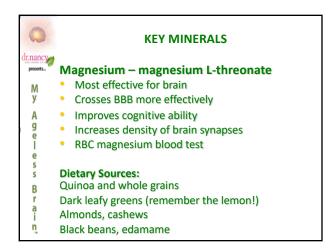


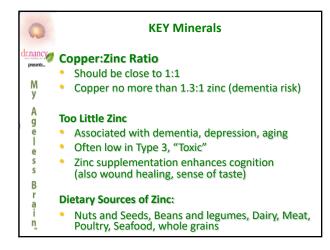


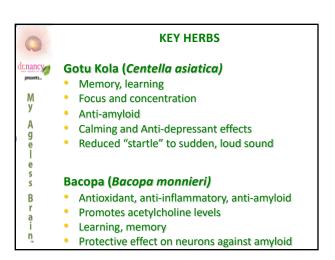


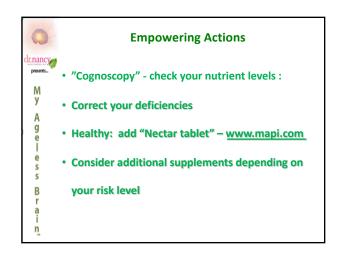


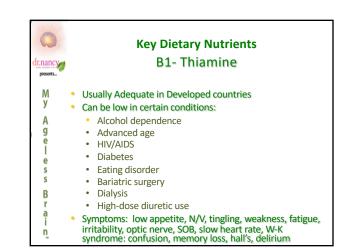








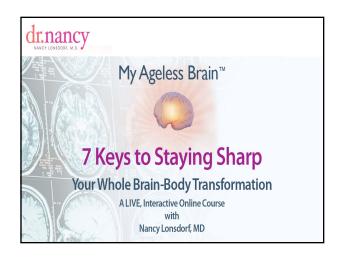


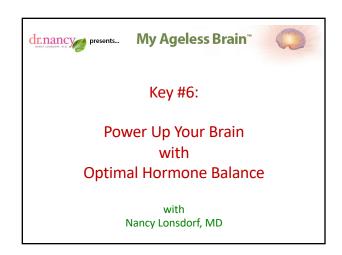


# My Ageless Brain <sup>™</sup> 7 Keys to Staying Sharp

Key #6

Hormones for a Healthy Brain





Hormones Properties

Regulate (point and click)

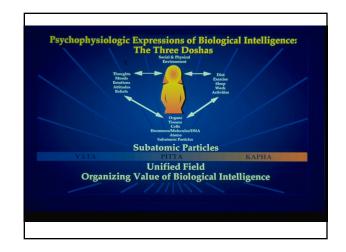
Potent

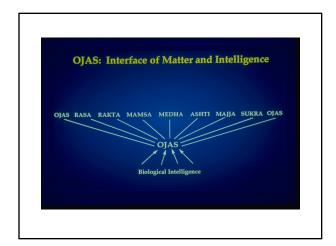
10 million Calcium to 1

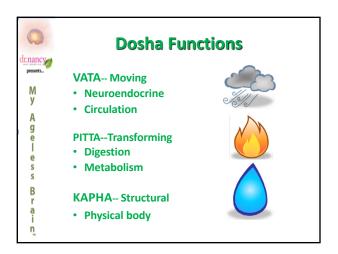
Estradiol

Keyed to receptors

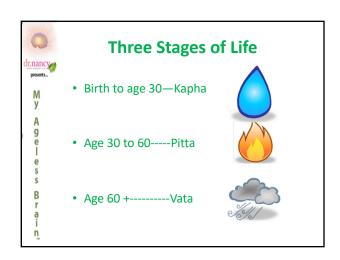
Highly interactive

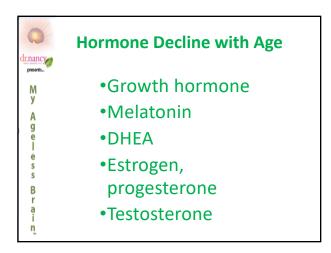


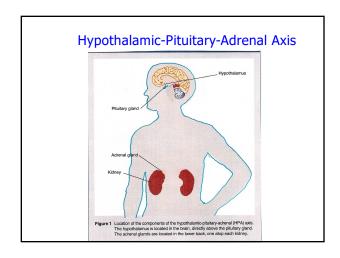




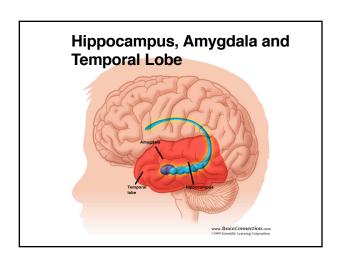




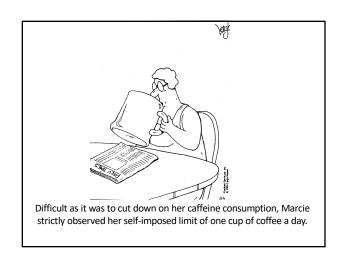


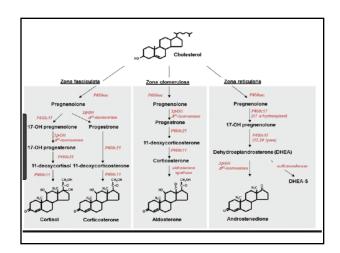


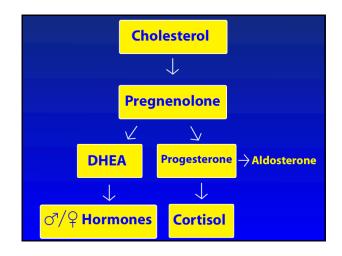










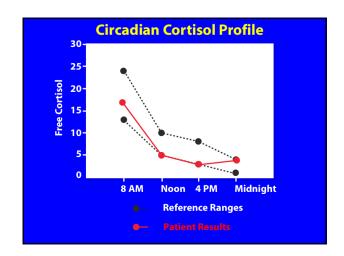


## **Stress Response**

Cortisol-- "the stress hormone"

Sympathetic Nervous System

Adrenaline; Noradrenaline



#### Excess Stress Excess Cortisol

- Overweight, Diabetes, CVD
- Memory, Mood, Brain
- Muscle, Bone, Collagen loss
- Immune suppression, Cancer

#### Excess Cortisol → Hormone d/o

• Male: ↓testosterone ↑estradiol

•Female: ↓progesterone

Resistance to thyroid and other hormones

#### **Chronic Stress Warning Signs**

- Fatigue
- Lack of energy
- Irritability
- Hostility
- Demoralization

### Postmenopausal Estradiol Sources

- Adrenals\*
- Fat, brain
- Arterial walls, skin
- Ovaries

#### **Recovering Balance**

#### The 3 Pillars of Health

- Stress management (mind/cs)
- Diet— (digestion, eating habits, gut health)
- Sleep— (timing, length)
- Exercise— (physical, mental)
- Detox

#### Circadian Rhythm Balance

- Get sunlight exposure outdoors
- •Dim lights in the evening
- •Go to bed by 10 pm; Arise by 6 am
- Avoid device displays after 8:30 PM
- Avoid cell phone use in evening

Olive oil Ghee Coconut oil Avocado oil Sesame oil



# Cortisol Balance= Better Brain

- Nutritional supplements
- Herbal therapies
- Panchakarma
- Bioidentical hormonal support

### **Brahmi**

(Bacopa monniera)



- Enhance learning
- Improves memory
- Reduces negative effects of drugs on mental ability (phenytoin)
- Antiquidant for the brain

#### Gotu kola

(centella asiatica)



- Smritida (best at enhancing memory)
- Reduces aging and helps skin
- Contains asiatic acid, a potent inhibitor of amyloid formation

#### **Cortisol Modulators**

- Ashwagandha (Withania somnifera)
- Licorice root (Glycyrrhiza glabra)
- Amrit Kalash Ambrosia® tablet
- Holy Basil "Tulsi" (Ocimum sanctum)

#### **Cortisol and Brain**

- Gotu Kola (Centella asiatica)
- Brahmi (*Bacopa monniera*)
- Worry Free®

#### **MAPI Stress Protectors**

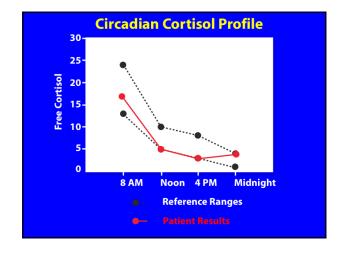
- Stress-Free Mind®
- Youthful Mind®
- Ashwagandha
- Ambrosia® tablet

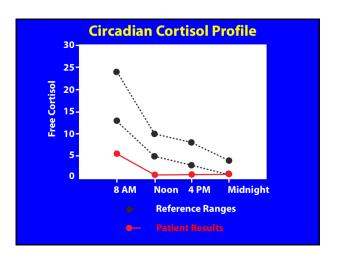
#### **Hormone Support- Women**

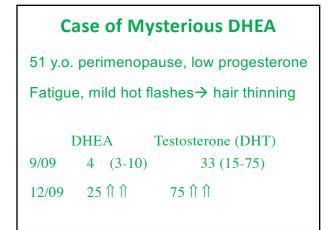
- Hot Flash Relief (shatavari)
- Vital Lady

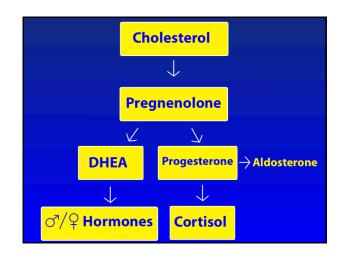
#### **Hormone Support- Men**

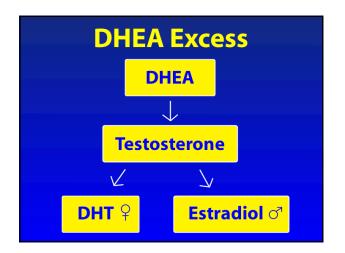
- Rejuvenation for Men
- Vital Man

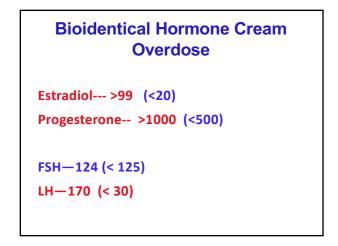


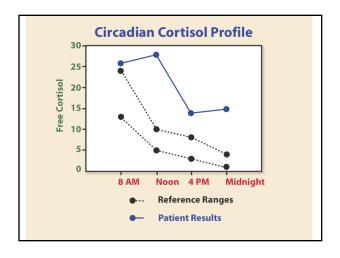


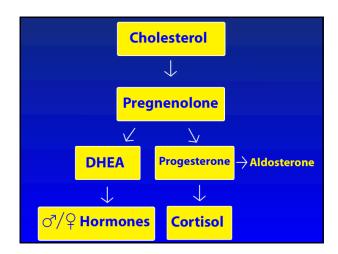




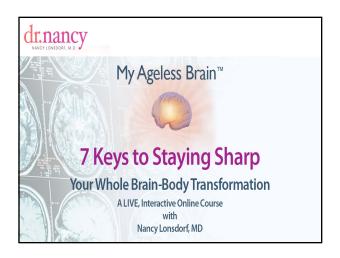


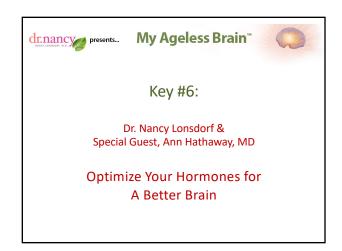






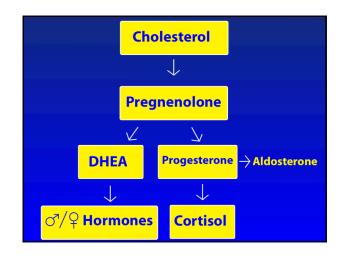


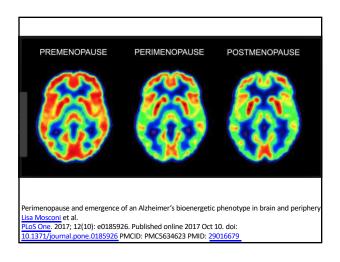


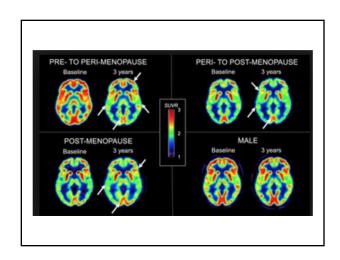


#### **Stress Response**

Cortisol-- "the stress hormone" Sympathetic Nervous System Adrenaline; Noradrenaline







## BIOIDENTICAL HORMONE THERAPY slides by Ann Hathaway, MD

- · Quality of Life improved
- · Improved vasomotor symptoms, less hot flashes and night sweats
- Decreased insomnia, better quality sleep
- · Increased bone density. Most appropriate treatment for osteoporosis.
- Sarcopenia reversal and prevention, increased muscle mass
- · Improved genitourinary symptoms and sexual function
- Skin strength, elasticity; hair, connective tissue strength (E receptors in all)
- Decrease dizziness, vertigo and postural balance
- Decreased joint pain, slows RA progression(E receptors in joints, muscles)

Ref: The 2017 hormone therapy position statement of The North American Menopause Society

## The 2017 hormone therapy position statement of The North American Menopause Society

- · Some trials show improvement in mood
- · Some trials show improvement in cognition if initiated early
- · Prevention of Alzheimer's Disease suggested if initiated early
- WHI: Estrogen only (CEE) decreased risk of breast CA, statistically significant in women who were at least 80% compliant E with therapy.

WHI: CEE only decreased Breast cancer: significant at 13 year follow up.

.

8

#### Benefit of HRT -- PET Scan and Cognition Study

53 post menopausal women with increased AD risk factors including ApoE4, family hx of AD All on estrogen containing HRT, average of 9 years

FDG PET scan and neuropsychological testing at onset of study Conclusions at baseline:

- More years of Estrogen = improved preservation of specific brain areas, including AD impacted areas
- Women on E2 performed 3 standard deviations better on verbal memory than those on CEE
- Improved memory correlated with increased activity in Wernicke's and auditory associated areas
- If on medroxprogesterone (MPA) with estrogen, decreased temporal brain metabolism compared with women on estrogen alone

Silverman D. et al., Differences in Regional Brain Metabolism Associated with Specific Formulations of Hormon Therapy in Postmenopausal Women at Risk for AD. Psychoneuroendocrinology. 2011 May; 36(4): 502–513.

9

#### Estradiol: Cognitive Estrone/CEE: Studies

- 15 of 20 studies show cognitive benefit.
- None show harm transdermal E2: 15/17 benefit
- In studies with No Benefit 3 were oral E2 and one was ultra low dose E2 patch
- 7 of 14 studies show benefit
- 3 show harm
- All studies showing harm were WHI related: WHIMS, WHISCA(older)
- In WHIMS more harm shown with medroxyprogesterone added to CEE than CEE alone.

Wharton W. et al., Potential role of estrogen in the pathobiology and prevention of Alzheimer's disease. Am j Transl Res 2009;1(2):131-137

10

## Estradiol-based postmenopausal hormone therapy lowers risk of cardiovascular and all-cause mortality.

- If using estradiol:
- Results: Risk of CHD death was significantly reduced by 18% to 54% in HT (E2) users and was positively related to HT exposure time.
- Risk of stroke death was also reduced by 18% to 39%,
- Risk of all-cause mortality was reduced in HT users by 12% to 38%, almost in linear relationship with duration of exposure.
- All these risk reductions were comparable in women initiating HT before age 60 years and women initiating HT at age 60 years or older.
- Conclusions: In absolute terms, the risk reductions means 26 fewer CHD and stroke deaths per 1,000 women using any HT for at least 10 years.
- Mikkola TS et al., Estradiol-based postmenopausal hormone therapy and risk of cardiovascular and all-cause mortality. Menopause 2015, Vol. 22, No. 9, pp. 976-983

. New evidence Estradiol based therapies reduce CV disease.

New data, from both USA and Europe

- the use of estradiol-based HT regimens does not endanger the heart, but rather, it significantly reduces the incidence of CAD events and mortality
- To get maximal cardioprotective efficacy of HT, a woman should initiate HT as soon as symptoms occur, and preferably within the first 10 postmenopausal years.
- because acute withdrawals of estradiol from the circulation may predispose to potentially fatal CAD events sudden discontinuation not recommended

Mikkola TS., New evidence for cardiac benefit of postmenopausal hormone therapy. Climacteric. 2017 Feb;20(1):5-10.

12

#### Does BHRT increase or decrease breast cancer risk?

#### We need more research. No definitive answer. Must individualize.

Only 2 randomized controlled trials and neither suggests an increased risk.

1. WHI Premarin alone arm: 10,600 postmenopausal women. Average age 64. Decrease Breast Cancer, by 7 women/10K women/year.

(PremPro increased by 8/10k/yr)

For women 80% or more compliant, statistically significant reduction at end of active study, 7.2 years

Decreased risk persists and is statistically significant 10 years after study completion.

Bodel P. et al., Anti-inflammatory effects of estradiol on human blood Leukocytes. J Lab and Clin Medicine. 1972 Sept. Vol 80, No 3, pp 373–384

 $Tannen\ RL,\ et\ al.\ Perspectives\ on\ Hormone\ Replacement\ Therapy:\ The\ Women's\ Health\ Initiative\ and\ New\ Observational\ Studies\ Sampling\ the\ Overall\ Population.\ Fertil\ Steril\ .\ 2008\ August\ ;\ 90(2):\ 258–264$ 

#### Does BHRT increase or decrease breast cancer risk?

2. KEEPS Study: Early menopausal women on .05 E2 patch or .45 mg CEE, and oral P4 200mg, no increased BR CA risk over 4 years compared to control group.

No body of research for breast cancer risk with transdermal E2 and oral micronized Progesterone.

Risk likely to vary from woman to woman.

Individual assessment as always

KEEPS Report. Presented at 2012 North American Menopause Society Annual Meeting. October 3-6. Orlando FL.

#### **Breast Cancer Prevention**

Recommendations for prevention and decreased recurrence risk:

- · Use only transdermal estradiol. Keep estrone low.
- Use only bioidentical progesterone, NO MPA, no synthetic progestins
- Consume high quantities and varied types/colors of low carb vegetables
- High cruciferous vegetable intake, and I3C or DIM
- Eat organic, unprocessed foods, non GMO, no trans fats, very low sugar. Include EV olive oil, avocado oil, avocado, nuts and seeds. Omega 3
- Maintain appropriate BMI: 18 to 23.
- Lower insulin resistance, low A1c (5.0-5.2), Insulin (2.6-5.5) and Fasting glucose (80-86)

**Breast Cancer Prevention** 

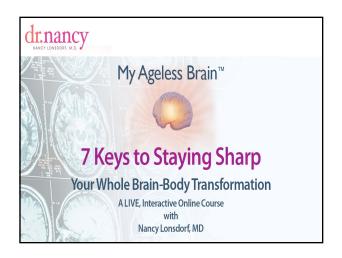
- Adequate exercise: 30 min interval or cardio 5-6x/wk, 30 min 3-4 x/wk strength and core training: lowers breast CA risk
- Low alcohol intake, 0-3 drinks per week, zero may be best
- Avoid tobacco
- Optimal vitamin D levels, (50 to 80)
- Adequate selenium and iodine
- B vitamin support, especially methylation support, methyl B12 and 5 MTHF, B6, B2  $\,$
- Glutathione support: IV. nebulized or oral liposomal glutathione, R lipoic acid, NAC.
- Avoid xenoestrogens: Bisphenol A, Phthalates, Organochlorines, Hydrocarbons, Parabens. So avoid plastics, pesticides, exhaust fumes

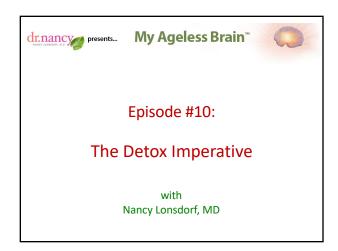
## My Ageless Brain ™ *7 Keys to Staying Sharp*

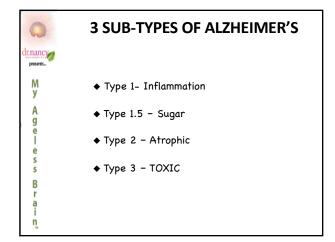
## Key #7

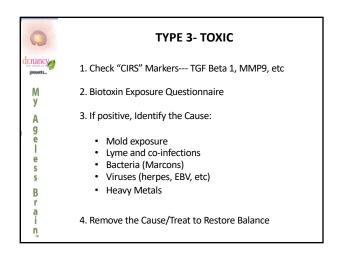
The Detox Imperative:

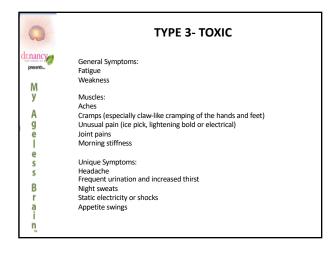
Clearing the Hazard of Hidden Inflammation

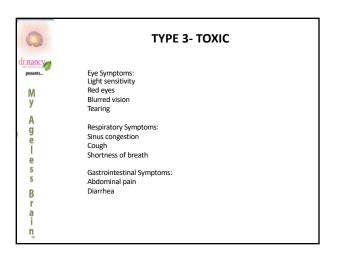


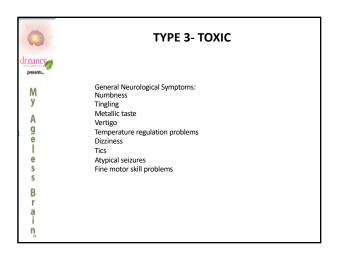


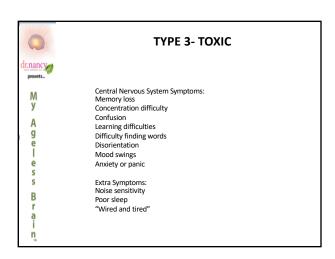






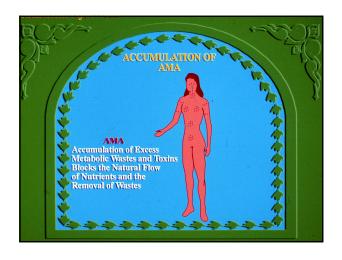


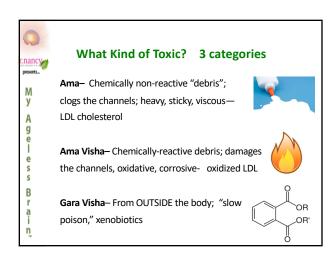








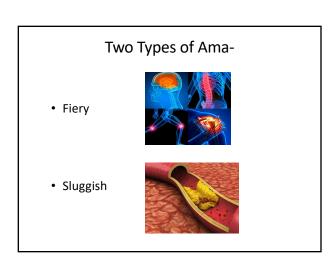


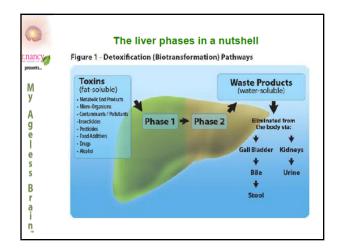


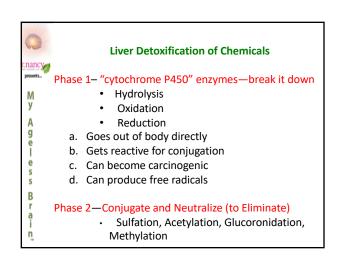


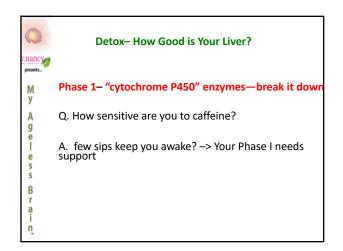


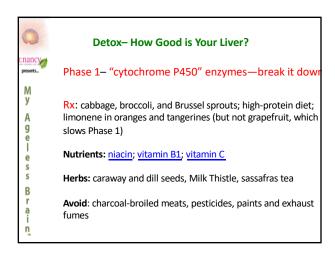
# "Detox Tea" '' tsp coriander seeds '' tsp fennel seeds '' cumin seeds

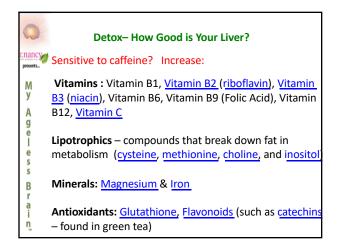


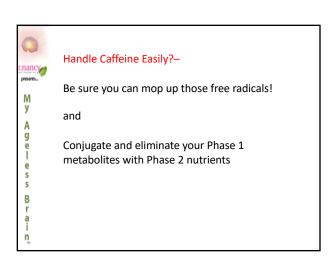




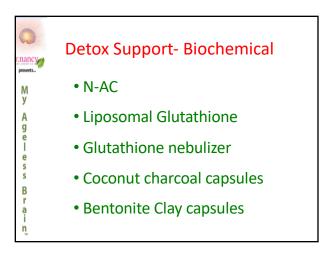


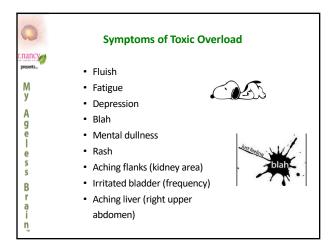




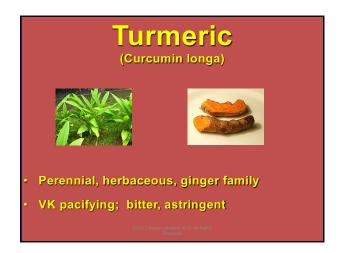


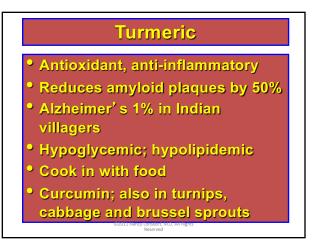


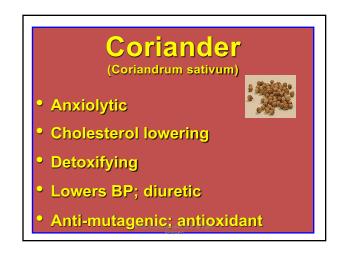
















## Support and Resources

M y A g e

 Take the digestive or stress quiz and get weekly tips: www.drnancyhealth.com

• For Healthy Brain Consultations with Dr. Lonsdorf:

<u>healthoffice@drlonsdorf.com</u> or call 641-469-3174

e s s B r a i



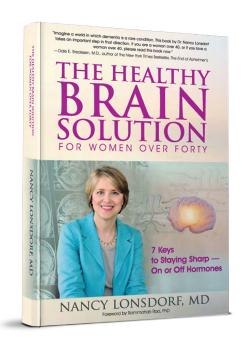


Yes, I would like a complimentary copy of Dr. Nancy's new e-book to be sent upon release in September 2019.

# THE HEALTHY Brain solution

FOR WOMEN OVER 40

7 Keys to Staying Sharp - On Or Off Hormones



Send to my e-mail address*:																						
First Name:									La	Last Name (optional):												

\*In giving my e-mail address, I'm agreeing to receive e-mail notifications of Dr. Nancy's events, webinars, lectures etc. I may unsubscribe at any time.