

SPECIAL POINTS OF INTEREST:

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**Alzheimer's
Research
and
Prevention
Foundation**
—proud to
be the voice
of Mind/
Body
Medicine
in the
Alzheimer's
Community

From the Founder—Dharma Singh Khalsa, M.D.

Since its formation in 1993, the ARPF has been the original voice of the Prevention of Alzheimer's. Our work is now more important than ever. Why? Because it's recently been predicted that, with the aging of the population, the number of people suffering from Alzheimer's will absolutely skyrocket.

And although much of our groundbreaking work in diet, supplements, physical and mental exercise is now gratefully mainstream, we are still on the cutting edge by virtue of our work in exploring the mind/body connection and the prevention of Alzheimer's disease and other forms of dementia.

Much work still needs to be done and I predict five years from now, this too shall be mainstream. Onward and upward we go and grow.

DISPELLING THE MYTHS OF BRAIN LONGEVITY

Myth#1: Genes Are Everything:

No, genetics aren't everything. The so-called twin studies have proven that beyond a doubt. In those research studies, it was revealed that when identical twins

were separated, they did not develop the same health issues; one may have had heart disease and one cancer, for example. Or perhaps one was ill and one was quite a fit and healthy person. Quite often, it is what your genes are exposed to that determines the level of health that one has. It's the signals that you send to your body by the food you eat, the thoughts you think, and the life-style choices that you make that affect the health of your genes.

Myth #2: The Field of Brain Longevity is too new to be credible.

The reality is that, according to a very well respected professor of neurology at New York University School of Medicine, "this field now rests on research data that lays a very solid foundation and goes back more than a decade." What is new is the number of tools we now have to study the effects of our work, such as a whole range of brain scans where we can measure the results of our research by actually looking inside the brain without the necessity of cutting into it. Also to dispel this myth, every time

you learn a new skill, concept or fact, you change the physical composition of your brain. Lifelong learning and mental activity, especially when combined with physical activity, creates a lifetime of peak mental performance.

Myth#3: Drugs are and will remain the only evidence based intervention for the prevention and reversal of memory loss.

This is perhaps the most outdated myth of all. Drugs are barely effective, despite what you see advertised on TV. If one were to review the research studies on these drugs, it would reveal that these billion dollar drugs may help slightly a person's memory and slow the progression of the disease for a short period of time. However, but Alzheimer's disease specifically, and the brain in general, are much too complicated to be helped by one single drug with no life-style adjustments. I believe there is no such thing as a magic bullet drug, and hope that people will learn that it's their daily choices that impact the state of their brain.

WHAT IS THE Alzheimer's Research & Prevention Foundation?

We Are . . .

The Alzheimer's Research and Prevention Foundation (ARPF), founded in 1993 by Dharma Singh Khalsa, M.D., is a 501(c)(3) non-profit organization, based in Tucson, Arizona, that's dedicated to the

prevention and early intervention of cognitive decline and Alzheimer's disease through an integrative or holistic medical program. We do this by conducting clinical research and providing educational outreach. We believe that chronic, unbalanced

stress is a major cause of cognitive decline and that an integrative medical program can prevent and reverse memory loss. We are committed to empowering brain longevity, which will ensure an enhanced quality of life for present and future generations.

ACCOMPLISHMENTS FOR 2007

Exercising our brains is as important as exercising our bodies.

Research

Since 2006, Dharma Singh Khalsa, M.D. and Andrew Newberg, M.D. have been studying the effects of mind/body medicine on the brain. Specifically, they used the **Kirtan Kriya Meditation** and did a sequence of SPECT scans in subjects enrolled in an 8 week study at the University of Pennsylvania.

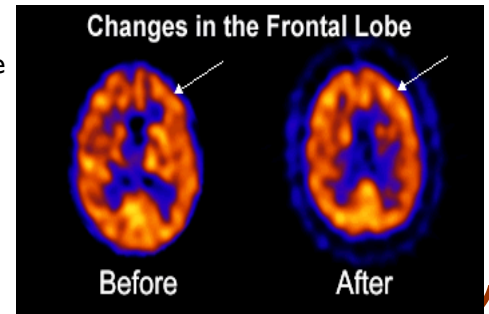
This is the first time that anything but a drug has been studied in people with actual memory loss. The protocol

was such that the person first had a baseline SPECT scan in a resting state and then another after their first session of 12 minutes of the **Kirtan Kriya Meditation**. There are marked improvements in the blood flow to the frontal lobe and posterior cingulate gyrus. There are also positive changes seen in the thalamus.

Moreover, the subjects' memory testing showed an improvement as well.

Further research is ongoing and will be shared as it becomes available.

For example, we are now correlating the subjects' memory testing to their improvements on the SPECT scans.



WORKING
TOWARDS
PREVENTION
SINCE 1993



6300 E. El Dorado Plaza,
Suite 400
Tucson, AZ 85715
alzheimersprevention.com

Outreach

The foundation continues providing information on memory loss to Senior Companion Programs across the country, including SCP offices in many states. During 2007, this service was provided Michigan, New Jersey, Minnesota, New York, Oregon, Texas, and Wisconsin. Here in Tucson, Arizona, a Foundation board member serves on the advisory council of the local

Senior Companion Program.

Board Members and volunteers contributed thousands of hours to the foundation doing such things as providing training to the general public on the importance of changes in lifestyle using the ARPF 4 Pillars of Prevention, conducting outreach programs, educating SCP coordinators and other health care providers,

reaching out to corporations and cultural groups with education activities, as well as provided international outreach in South Africa, Brazil, France, Ireland, Mexico, and several tribal nations. And of course, indirect outreach activities is ongoing through our website, other internet sites, television, radio and printed media, which reaches millions of others globally.

Memory Screening Day

This year's **4th Annual Tucson Memory Screening Day** was held on November 13, 2007 at the Tucson Jewish Community center. We screened nearly 100 seniors with the help of volunteers from **Our Family Services**. We were especially gratified to have so many sponsors for this

years event, including: Sunrise Senior Living, The Forum at Tucson, Prescription Lab Compounding Pharmacy, Handmaker Senior Services, Jorgensen/Brooks Group, Aristo Care, Encore Assisted Living, Aristocrat Printing and Design, Jewish Family &

Children's Services, Our Family Services, Tucson Jewish Community Center, and Our Family Senior Companion Program. Each year this event grows in size and we are able to offer free memory screenings to the residents of Southern Arizona. **THANK YOU TO ALL OF OUR SPONSORS AND VOLUNTEERS.**

DONORS

We couldn't do what we do without our faithful donors. Our donors come from many walks of life and many sources:

- Corporate Donor Campaigns
- Donations in Memory of Loved Ones Lost to Alzheimer's and other Dementia Diseases
- Sponsors of Events, like our Annual "Memory Screening Day"

- People who come to our events and are compelled to give.

We have once again been approved by the Federation of Health & Medical Research Charities of America and the Combined Federal Campaign. The ARPF is also a proud participant in the State Employee Campaigns for Arizona, Connecticut, Texas and California as well as a member of the Best Charities in America.

SIGNIFICANT MEDICAL PRESENTATIONS BY DR. KHALSA

Dharma Singh Khalsa, M.D. is an in demand speaker on the subject of Alzheimer's Research and Prevention. This year he spoke at several high level medical conferences and conventions, including:

- ⇒ The Alzheimer's Association International Conference on Prevention of Dementia in Washington DC
- ⇒ The 2nd National Concept in Care Conference in Philadelphia, Pennsylvania
- ⇒ Presentation on Brain Longevity at a Conference in Brazil
- ⇒ 6th Annual World Congress on Stress in Vienna
- ⇒ Los Angeles California Medical Center Conference "Optimizing the Aging Brain"

BOARD MEMBERS & STAFF

Dharma Singh Khalsa, M.D.
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Vice President

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Carolyn Lucz
Board Member

Conni Ingallina
Communications Director

Extraordinary Endorsements

We are extremely proud of the work that we are doing here at ARPF, but don't take our word for it! Here are a few extra "ordinary" people who are blowing our horn as well:

- ⇒ **Maria Shriver**, journalist and California First Lady
- ⇒ **Leeza Gibbons**, actress and Alzheimer's Advocate
- ⇒ **Dr. Andrew Newberg, M.D.** University of Pennsylvania Center for Spirituality and the Mind
- ⇒ **Alan Weiss, M.D.**, California Medical Center
- ⇒ **Jamie Zink**, Program Manager for older and disabled adults, Our Family Services

Scientific Advisory Council

Ma Gloria Borrás-Boneu, M.D.
GRD Health Institute
Barcelona, Spain

Sat Bir Singh Khalsa, Ph.D.
Asst. Professor of Medicine
Harvard Medical School
Sleep Disorders Research Program
Brigham and Women's Hospital
Boston, Massachusetts

Laura Jean Kokoska, RN
DNA Yoga Studio
Old Lyme, Connecticut

Helen Lavretsky, M.D., M.S.
Associate Professor
UCLA Semel Institute and Resnick
Neuropsychiatric Hospital
Los Angeles, California

Andrew B. Newberg, M.D.
Assistant Professor, Radiology and
Psychiatry, University of Pennsylvania
Medical Center
Philadelphia, Pennsylvania

Michelle Sierpina, Ph.D.
Founding Director
UTMB Osher Inst. for Lifelong
Learning,
Univ. of Texas Medical Branch
Galveston, Texas

Victor S. Sierpina, M.D.
Professor in Integrative Medicine
Univ. of Texas, Medical Branch
Galveston, Texas

Yaakov Stern, M.D.
Professor of Clinical
Neuropsychology, Columbia
University College of Physicians
and Surgeons, Taub Institute
New York, New York

Alzheimer's Research &
Prevention Foundation
6300 E. El Dorado Plaza
Suite 400
Tucson, Arizona 85715
www.alzheimersprevention.org

Service which is
rendered without joy
helps neither the one
who serves nor the
one served, but all
pleasures and
possessions pale into
nothingness before
service which is
rendered in a spirit
of joy.

— Mahatma Gandhi

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Tucson, AZ 85715

CHANGE SERVICE REQUESTED

www.alzheimersprevention.org

SPECIAL EVENT UPDATE

We're on the web at
www.alzheimerspreventions.org

The Arizona Governor's Office on Aging "officially" opened their new offices in September of 2007. Our new Communications Director, Conni Ingallina, attended this event on behalf of the ARPF. The Governor gave a short speech on the initiatives that this office had been working on and would be working on in the future in regards to the aging. Gov. Napolitano stated in her speech that by 2020 1 in every 4 Arizonans will be over the age of 60 with the fastest growing group being over 85. She has issued an Executive Order called "Aging 2020" making all state agencies plan appropriately for this group – housing, healthcare, transportation, etc., with the ultimate goal to have them stay independent as long as possible in their own homes. She also unveiled their new motto – "Arizona, A Great State to Grow Up In and Grow Old In". The ceremony was completed with a ribbon cutting ceremony and photo ops with the Advisory Council and staff, and of course, cake and food. Many agencies and associations like the ARPF were represented

there as well.

She also introduced the Governor's Advisory Council on Aging, a statewide body of 15 members appointed by the Governor to serve 3-year terms. It monitors and develops programs that affect older adults. Other programs that the Advisory Council and Office on Aging oversee include:

Arizona Mature Workforce Initiative - designed to raise visibility, awareness, appreciation and employment opportunities for mature workers, while addressing labor force shortages in the business sector. By 2012, nearly 20% of the total US workforce will be aged 65 and older - up from 13% in 2000. In Arizona alone, there are more than 700 Centenarians! As the 76 million Baby Boom Generation nears traditional retirement age, the Governor is working toward creating an incentive to keep these workers in the workforce so a vacuum doesn't happen both in the workforce and in social security and other social services that would be overburdened.

Alzheimer's Walk of Friendship - designed to provide education, outreach and direct services to low income minority persons with dementia and their caregivers. The Department of Economic Security and Adult Services Administration administers the program in partnership with the Area Agency on Aging, Region One, Inc. and the Arizona Chapter of the Alzheimer's Association.

The *Governor's Council on Aging* also has several subcommittees:

- ⇒ Legislative & Policy
- ⇒ Mature Workforce
- ⇒ Social, Health & Alzheimer's

These subcommittees meet monthly the day before the *Governor's Advisory Council on Aging* to assist the *Council* on setting policy, creating events, and act as an advisory body on specific aging issues. The ARPF will be getting involved with the SHAC Subcommittee to help with those initiatives in the state.