



THE UNIVERSITY OF NEW MEXICO  
SCHOOL OF MEDICINE

# INTERNATIONAL ACADEMY NUTRITION & AGING (IANA)

## 2<sup>nd</sup> Congress, Albuquerque (NM, USA)

July 10-12, 2003 Sheraton Old Town

In conjunction with the University of New Mexico

<http://www.healthandage.com/html/min/iananda/content/albuquerque.htm>

The International Academy on Nutrition and Aging (IANA) decided to organize his 2<sup>nd</sup> International Congress in Albuquerque, NM, *because it is the home of the New Mexico Aging Process Study (NMAPS)*. The NMAPS was one of *the first longitudinal studies on Nutrition and Aging*, started in 1979 by James S. Goodwin, M.D. and Philip J. Garry Ph.D. and supported by the National Institute on Aging (NIA). Since 1979 the NMAPS has produced over 180 publications examining the role of nutrition in the aging process.

The IANA meeting will be organized *in collaboration with the Aging Successfully Program, Saint-Louis University (John Morley, M.B.)*. The Geriatric Program at Saint-Louis University is one of the major clinical and research center in the world. This Geriatric Program has been collaborating from many years with the NMAPS in Albuquerque and with the Departement de Medecine Interne et Gerontologie Clinique, University of Toulouse, France.

*Large parts of the Congress* will be devoted to associations between nutrition and dementia, including Alzheimer's disease. Dementia is one of the major health problems in the elderly. There is now more and more evidence that diet, vitamins B12, B6, C, and E, homocysteine, anti-oxidant status, diabetes, cholesterol, ApoE4 are related to cognitive decline in the elderly. Other topics include recommended dietary intake for aging successfully, frailty, nutrition assessment, body composition, sarcopenia, nutrition in long-term care with researchers from around the world. (See overleaf)

- *For registration* (295 \$ US before June 19, included two lunches and abstracts of the Congress) please contact: University of New Mexico Continuing Medical Education, Medical Bldg 2, Room 101, Albuquerque, NM 87131-5126, USA; Tel: 1 505 272-3942, Fax: 1 505 272 8604, e-mail: VWinter@salud.unm.edu

- *For accomodations* : a block of rooms has been reserved for participants of this conference at the Sheraton Old Town for the nights of July 10-12, 2003. Special rates are available to you if you make your room reservations no later than June 19, 2003. Participants rates are 119.00 US\$ Single and Double.

To make room reservations, participants should call (505) 843-6300. Please identify yourself as a participant of the "International Academy on Nutrition and Aging, Second International Meeting". Rates will not be changed at check-in or checkout for attendees who fail to identify their affiliation with their meeting at the time the reservation is requested.

Please note that all reservations require a guarantee of a first night room deposit.

To make arrangements for transportation to and from the Albuquerque International Airport and the Sheraton Old Town Hotel, contact Checker Airport Express at (505) 765-1234. Reservations are encouraged.

# International Academy Nutrition and Aging 2<sup>nd</sup> Congress (Preliminary Program)

Albuquerque, NM, USA, July 10-12 th 2003

Sheraton Old Town Hotel, Albuquerque, NM

## Thursday, July 10, 2003

4:00-4:30 PM **Welcome to IANA Meeting**. B.J. Vellas (Toulouse, France), P.J. Garry (Albuquerque, USA), J.E. Morley (St. Louis University, USA), R. Baumgartner (Albuquerque, USA)

4:30-6:00 PM **Symposia N° 1: Nutrition Assessment in the Elderly**  
Chairpersons: P.J. Garry (Albuquerque, USA) and B. J. Vellas (Toulouse, France)

- Nutrition Assessment as Part of the Comprehensive Geriatric Assessment, L. Rubenstein (Los Angeles, USA)
- Updates on the Mini Nutritional Assessment (MNA), Y. Guigoz (Geneva, Switzerland, B.Vellas (Toulouse, France)
- Validation of the MNA Form for Asia, W.C. Chumlea (Dayton, USA)
- Discussion: Nutrition Risk Screening: Mini Nutritional Assessment Versus Nutrition Screening Initiative, G Jensen (Nashville, USA)

## Friday, July 11, 2003

8:00-9:00 AM **Key Note Lecture: Recommended Dietary Intake For Healthy Aging**. R. Russell (Boston, USA)

**Ballroom A:**  
**Nutrition, Cognitive Decline and Dementia.** Chairpersons: P.J. Garry (Albuquerque, USA), B. Vellas (Toulouse, France)

9:00-10:30 AM **Symposia N° 2: Cognitive Decline and Diabetes.**  
Chairpersons: A. Sinclair (Warwick, UK), L.R. Gutierrez (Mexico)

- MCI in Elderly People with Diabetes: Time for Intervention, A.J. Sinclair (Warwick, UK)
- Cognitive Decline in Elderly People with Diabetes: Hypothesis, J.E. Morley (St. Louis, USA)
- Diabetes, Frailty and Cognitive Functions in the Elderly, R. Lindeman (Albuquerque, USA)

10:30-11:00 AM Refreshment Break

11:00 AM-12:30 PM **Symposia N° 3: Nutrition, Cognitive Functions and Alzheimer's Disease.**

Chairpersons: J.E. Morley (St. Louis, USA), B.J. Vellas (Toulouse, France)

- Weight Loss in Alzheimer's Disease and Feeding Behavior, B. Vellas and S. Lauque (Toulouse, France)
- The Triad of Low Body Weight, Brain Atrophy and Cognitive Loss in MCI and Alzheimer's Disease: Therapeutic Implications, M. Grundman (San Diego, USA)
- Nutrition and Dementia in Hispanic Elderly Persons, J. Fitten (Los Angeles, USA)
- Leptin, Dementia and Anorexia, J.P. Michel (Geneva, Switzerland)

12:30-1:30 PM Lunch Provided

1:30-2:00 PM **Key Note Lecture: Prevention of Alzheimer's Disease: Time for Intervention Studies**, L. Thal (San Diego, USA)

2:00-3:30 PM **Symposia N° 4: Hormone Replacement Therapy and apoE (E4) Associated with Memory and Coronary Heart Disease**

Chairpersons: P.J. Garry (Albuquerque, USA), T. Salva (Barcelona, Spain)

- Risks and Benefits of Estrogen Plus Progestin and Estrogen Without Progestin in Healthy Postmenopausal Women, E. Barrett-Connor (San Diego, USA)
- Apolipoprotein E4 Predicts Decrease in Cognitive Function: The New Mexico Aging Process Study, S. Wayne (Albuquerque, USA)
- Serum Lipids in Postmenopausal Women: Effects of apoE. Genotype and Hormone Replacement Therapy, P.J. Garry, (Albuquerque, USA)
- Disclosure of apoE Genotype: Psychological and Emotional

Impact, L. Romero (Albuquerque, USA)

3:30-4:00 PM Break

4:00-5:30 PM **Symposia N° 5: Trace Mineral Element, Vitamins and the Aging Process**

Chairpersons: Monique Ferry (Valence, France), A.M. Roussel (Grenoble, France)

- Chromium in Aging, R. Anderson (Beltsville, USA)
- Homocysteine and the Aging Process, I Rosenberg (Boston USA)
- Vitamins and Minerals in Euronut Seneca Study, M. Ferry (Valence, France)
- Dietary Intake of Antioxidant Nutrients and Risk of Alzheimer's Disease, M.D. Morris (Chicago, USA)
- Selenium Nutriture in the Elderly, A.M. Roussel (Grenoble, France)

### Ballroom B:

**Body Composition and Aging.** Chairpersons: R. Baumgartner (Albuquerque, USA), J.E. Morley (St. Louis, USA)

9:00-10:30 AM **Symposia N° 6: Sarcopenia**

Chairperson: R. Baumgartner (Albuquerque, USA)

- Overview and Update on Sarcopenia and Sarcopenic Obesity, R. Baumgartner (Albuquerque, USA)
- Mechanisms of Sarcopenia and Sarcopenic-Obesity, J.E. Morley (St. Louis, USA)
- Epidemiology of Sarcopenia, I M Janssen (Boston, USA)
- The prevalence of and risk factors for sarcopenia in the Chinese elderly: A first study, Lau EMC (Hong Kong China)
- Definition and Correlates of Sarcopenia in Health ABC, A Newman (Pittsburgh, USA)

10:30-11:00 AM Refreshment Break

11:00 AM-12:15 PM **Symposia N° 7: Muscle Fat, Health and Function**

Chairperson: M. Visser (Amsterdam, Netherlands)

- Measurement of Muscle Size and Muscle Fat Infiltration with MRI: Correlations with Age, Gender and Body Fatness, D. Gallagher, (New York, USA)
- Muscle Fat Measured by Computerized Tomography: Correlations and Risk Factors, T. Harris (Bethesda, USA)
- Muscle Fat Infiltration in Relation to Strength and Metabolic Dysregulation, B. Goodpaster (Pittsburgh, USA)
- Cross-sectional and Prospective Associations of Muscle Size, Strength and Fat Infiltration with Physical Functioning, M. Visser (Amsterdam, Netherlands)

11:00 AM-12:30 PM **Symposia N° 8: Obesity in the Elderly**

Chairperson: R.L. Atkinson (Washington, DC, USA)

- Etiology of Obesity in the Elderly, N. Dhurandhar. (Dayton, USA)
- Pathophysiology and Complication of Obesity in the Elderly, J. Stevens (Atlanta, USA)
- Visceral Adipose Tissue and Onset of Cardiovascular Disease, B. Nicklas (Winston-Salem, USA)
- Treatment of Obesity in the Elderly, R.L. Atkinson (Washington, DC, USA)

12:30-1:30 PM Lunch Break

1:30-2:00 PM **Key Note Lecture: Nutrition in Long-Term Care**, R. Chernoff (Little Rock, USA)

2:00-3:30 PM **Symposia N° 9: Inflammation in the Elderly**

Chairperson: N. de Rekeneire (Bethesda, USA)

- Overview and Update of Inflammation in Aging, T. Harris (Bethesda, USA)
- Disability and Inflammation, B. Penninx (Winston-Salem, USA)
- Body Composition and Inflammation, M. Visser (Amsterdam,

Netherlands)

- Diabetes, Hyperglycemia and Inflammation, *N. de Rekeneire (Bethesda, USA)*
- Oxidative Stress and Muscle Mitochondrial DNA Damage, *D. Waters (Albuquerque, USA)*

3:30-4:00 PM Refreshment Break

4:00-4:45 PM **Key Note Lecture: A Muscular Approach to Physical Disability and Its Prevention**, *M. Pahor (Winston-Salem, USA)*

4:45-6:00 PM **Submitted oral communications on body composition**

- Association between body composition, muscle strength and functionality in the elderly, *Alicia Copca Arellano, (Mexico City, Mexico)*
- Relationship between Body Composition and Cytokines in Cachectic COPD Patients: a Brief Pilot Report, *Shing-shing Yeh (New York USA)*
- The longitudinal relationship between body mass index and age-related brain changes in elderly women, *D.R. Gustafson (Göteborg, Sweden)*
- Body composition, dehydration and frailty assessment in nursing homes, *J.J. Kehayias, (Waltham, USA)*.
- Ethnic Comparisons of Body Composition in Diabetes, *Carmen Castaneda, (Boston, USA)*
- Obesity among older persons: over nutrition and under nutrition, *G Jensen (Nashville, USA)*

**Saturday, July 12, 2003**

8:00-9:00 AM **Key Note Lecture: Ornithine alpha-ketoglutarate: towards a pharmacimmunomodulatory treatment of malnutrition in the elderly**, *L Cynober (Paris, France)*

**Ballroom A:**

9:00-10:30 AM **Symposia N°10: Anorexia of Aging**

*Chairperson: J.E. Morley (St. Louis, USA)*

- Nutritional Support in Nursing Homes, *W. Van Starvaren (Wageningen Holland)*,
- Pathophysiology, *I. Chapman (Adelaide Australia)*
- Management, *D. Thomas (St. Louis, USA)*

10:30-11:00 AM Refreshment Break

11:00 AM -12:30 PM **Symposia N°11: Nutrition and Bone Health and the Risk of Osteoporosis**

*J. Blumberg (Boston, USA)*

- Calcium Absorption and Aging: An Update, *R. Wood, PhD (Boston, USA)*
- Vitamin D and Skeletal Health, *S. Harris, PhD (Boston, USA)*
- Vitamin K Effects on Bone Evidence to Date, *S. Booth, PhD (Boston, USA)*

12:30-1:30 PM Lunch Break

1:30-2:30 PM **Symposia N°12: Nutritional Intervention in the Free-Living Frail Elderly**

- Potentials and Gaps of Nutritional Intervention in the Frail Elderly, *H. Payette (Sherbrooke, Canada)*
- Quality of Care and Services in an Integrated Service System: Applying a Nutrition and a Dementia Protocol, *B. Shatenstein (Montreal, Canada)*
- Nutritional Risk Screening in Community Living Older Adults and Outcomes of Nutritional Risk, *H. Keller (Guelph, Canada)*

2:30-4:00 PM **Symposia N°13: Aging Studies at the Lifespan Health Research Center and the "Fels Longitudinal Study"**  
**Dayton, Ohio**

- Aging Research at the Lifespan Health Research Center, *R Sierroegel (Wright State University School of Medicine)*
- The Fels Longitudinal Study, *C Chumlea (Wright State University School of Medicine)*
- Statistical Genetic Analysis of Gene-by-Age Interaction, *B Towne (Wright State University School of Medicine)*
- Genetic Epidemiology of Osteoporosis Risk Factors: The Fels

Longitudinal Study, *Stefan A. Czerwinski, (Wright State University School of Medicine)*

- D Visceral Adiposity Imaging: Preliminary Results from the Fels Longitudinal Study, *EW. Demerath (Wright State University School of Medicine)*

4:00-4:30 PM Break

## Accepted Oral communications

### • 4:30 - 5:30 Body Composition

- Relationship between Body Composition and Cytokines in Cachectic COPD Patients: a Brief Pilot Report, *Shing-shing Yeh, PhD, MD (Northport, New York USA)*
- The prevalence of and risk factors for sarcopenia in the chinese elderly: a first study, *Lau EMC, Woo J, Kwok T (Hong Kong China)*
- Body composition, dehydration and frailty assessment in nursing homes, *Kehayias JJ, Ross E, Valtuena S, Sheahan C.A, Murphy-Gismondi P, Laughery J, Maxwell B, O'Neill M, Harris GS, Mckee D (Waltham MA USA)*
- Visceral adipose tissue and onset of cardiovascular disease: Results from The Health ABC study, *Nikolas B J, Penninx BW.J.H, Cesari M., Kritchevsky S B , Newman AB., Kanaya A, Pahor M., Harris TB (Winston-Salem, NC USA)*

### • 8:00 - 9:30 AM Cognitive Functions

**Ballroom B:**

**Accepted Oral Communications on Nutrition and Aging - 9:00 AM - 6:00 PM**

- A 10 years analysis of the basel study regarding body mass index and cognitive functions, *Brubacher D, Monsch AU, Stähelin HB (Basel, Switzerland)*
- Dietary Factors Associated with Cognitive Impairment, *Edward Zamrini, Atiq Rahman, Lindy Harrell, Patricia S. Baker, Jeffrey M. Roseman, Richard Allman, (Birmingham, Alabama, USA)*
- The longitudinal relationship between body mass index and age-related brain changes in elderly women, *D.R. Gustafson, PhD, B. Steen, MD, PhD, Lauren Lissner, PhD, Calle Bengtsson, MD, PhD, Cecelia Björkelund, MD, Ingmar Skoog MD, PhD. (Göteborg, Sweden)*
- Development of a Foodservice Satisfaction Questionnaire for Assisted Living Residents With Mild to Moderate Dementia, *Elizabeth Cundiff and Christina O. Lengyel (Greensboro, NC; USA)*
- The Cognitive Syndrome. An Emerging Cluster of Circadian, Metabolic and Endocrine Factors in Cognition, *Nancy Grinberg, Lynn Hasher, Carol E. Greenwood (Toronto, ON, Canada)*
- Diabetes mellitus and cognitive decline among elderly residents of Cache County, Utah, *Charoonruk G, Munger RG, Wengreen H, Tschanz J, Corcoran C, Norton M, Bastian L, Welsh-Bohmer K. Logan, (Utah, USA)*
- Dietary intake of antioxidants and cognitive function of elderly participants in the Cache County, Utah, Study on Memory in Aging, *Wengreen HJ, Munger RG, Zhandi P, Tschanz J, Norton M, Welsh-Bohmer K. Logan, (Utah, USA)*
- Body mass index is a predictor of mortality in subjects with dementia and mild cognitive impairment, *Gerd Faxén-Irving, Hans Basun, Tommy Cederholm (Stockholm, Sweden).*
- Water quality and cholesterol-induced pathology: differential free radical activity in brain, and attenuated splenic and hepatic alterations with the use of distilled drinking water. *D. Larry Sparks, Jeff Lochhead, Roger Van Andel, Tom Wagoner, Donna Horstman, and Tim Martin (Phoenix AZ USA)*
- Dietary fatty acids and cognitive impairment in a population-based study, *Sandra Kalmijn, Martin PJ van Boxtel, Monique WM Verschuren, Lenore J Launer; Bilthoven and Maastricht the Netherlands and Bethesda USA*
- The Cognitive Syndrome. An Emerging Cluster of Circadian, Metabolic and Endocrine Factors in Cognition, *Nancy Grinberg, Lynn Hasher, Carol E. Greenwood (Toronto, ON, Canada).*

### • 9:30 - 10:30 AM Dementia

- A 30-year analysis of change in body weight and incident dementia. the Honolulu-Asia Aging study, *Stewart R (London, UK.)*
- Effects of an Exercise Program on Older Females with Alzheimer's Disease, *Heyn P (Oviedo, Florida USA)*
- Dietary patterns and antioxidant intakes during mid-adult life

as risk factors for alzheimer's disease, *Petot GJ, Traore F, Debanne SM, Fritsch T, Lerner A, Friedland RF. University Hospitals of Cleveland and School of Medicine, Case Western Reserve University, (Cleveland, Ohio, USA)*

- The Case for Life Style Interventions to Reduce Risk of Alzheimer's Disease: BeWell Program Emerson Lombardo, Ph.D. Nancy B, Ladislav Volicer, M.D, Ph.D. (Boston , USA), Toshie Imada, B.A. Bei Wu, Ph.D, Morgantown, WV Xiu Wen Zhang (Cambridge MA, USA)

- Reduced concentrations of ascorbic acid, thiamindiphosphate, retinol, and  $\alpha$ -tocopherol in patients with mild to moderate DAT and without vascular disease, *Morten Glasø, Geir Nordbø, and Thomas Bøhmer, Dept. of Geriatrics, Aker University Hospital, (Oslo Norway)*

- Plasma vitamin C, cholesterol and homocysteine are associated with grey matter volume determined by MRI in non-demented old people, *L.J. Whalley, R. T. Staff, A.D. Murray, S.J. Duthie, A.R. Collins, H.A. Lemmon, J.M. Starr, I.J. Deary, (Aberdeen)*

10:30-11:00 AM Refreshment Break

• **11:00 - 12:30 AM Dementia, Geriatric, Frailty**

- Nutritional factors and risk of incident dementia in the PAQUID cohort, *S. Larriue, L. Letenneur, C. Helmer, JF. Dartigues, P. Barberger-Gateau (Bordeaux France)*

- Percutaneous Endoscopic Gastrotomy in Elderly Patients with Dementia, *Ramírez Díaz SP, Fernández Viadero C, Rodríguez González MC, Martín Sánchez FJ, Gil Gregorio P, Ribera Casado JM. (Madrid, Spain)*

- Food intake and its relation to the evolution of nutritional status in hospitalized geriatric patients. *St-Arnaud-McKenzie D, Paquet C, Kergoat MJ, Dubé L., Ferland G (Montréal, Québec Canada)Biology*

- Can an inadequate energy intake be considered a marker of frailty? The In CHIANTI study, *Bartali B ( Florence, Italy)*

- Frailty amplifies the effects of aging on protein metabolism; role of protein intake, *Stéphanie Chevalier, Réjeanne Gougeon, Kiran Nayyar, José A. Morais (Montréal, Canada)*

12:30-1:30 AM Lunch Break

• **1:30 - 3:00 PM Biology, Biochemistry, Nutrition Assessment**

- A flavonoid tangeretin modulates metabolism of hepatic lipids and apo B-containing lipoproteins through multiple mechanisms, *Kurouska Elzbieta, Casaschi M A, Theriault A (London, ON Canada and Honolulu, Hawaii)*

- Persistent Elevation of Interleukin-6 Levels is Associated with a Higher Mortality in Cachectic Geriatric Patients, *Shing-shing Yeh (Northport, New York USA)*

- 50-Unbalance of n-6 and n-3 polyunsaturated fatty acid (PUFA) or excess intake of glucose: possible dietary risks for patients with Alzheimer's disease. *Ueki A, Otsuka M, Sato T, Yamaguchi K, Sasaki S (Saitama, Japan)*

- Vitamin B12 and homocysteine status in relation to fractures in healthy Dutch elderly people - the LASA study. *Rosalie A.M. Dhonukshe-Rutten, Lisette C.P.G.M. de Groot, Paul Lips, Wija A. van Staveren, (Wageningen, the Netherlands)*

- Quality of nutrition and nutritional status assessment among hospitalized elderly subjects and outpatients. *Vasiljevic N, Dragovic R, Paunovic S, Stojanovic S.,Davidovic M, Milosevic D (Belgrade Yugoslavia)*

- Study of bone and nutritional status in a population of institutionalized elderly subjects, *Deplas A., Debiais F, Alcalay M, Bontoux D, Thomas (Limoges France)*

- Therapy in the Home Program reveals Undernutrition in the Elderly. *King S.J. King, Lauder AE., Jeffery R.M , Best N, Nyualsi I.B. (Victoria, Australia)*

- The Impact of Nutritional Status on Mortality in Patients with Fractured Hips, *Pimlott Bryan J, Jones C.A,Beaupre L.A, Tam T, Johnston D.W.C. (Edmonton, Canada)*

- Mini Nutritional Assessment and three-year mortality in elderly with home-based community support, *Saletti A, Johansson L and Cederholm T (Huddinge, Sweden)*

- The age-related loss of muscle proteins is not associated with oxidative stress in healthy rats, *Mosoni YL, Breuillé D, Buffière C,Leclerc J N, Denis P., Ribeyre M C, Obled C, Patureau Mirand P (Theix, France and Lausanne Switzerland)*

• **3:00 - 4:00 PM Biology, Biochemistry, Nutrition Assessment**

- Validation of a screening tool for anorexia-related low body mass index in long-term care residents, *Wilson MG, Baxi AS, Anderson SJ, Thomas DR, Morley JE. Geriatric Division, Saint Louis University and GRECC, VAMC, (St Louis, Missouri, U.S.A)*

- Minimum effective dose of oral vitamin B12 to treat elderly people with mild vitamin B12 deficiency, *SJPM Eussen , LCPGM de Groot, R Clarke, J Sneede, WA van Staveren, (Wageningen, The Netherlands)*

- Edentulism is associated with undernutrition, frailty, and higher mortality among older women in the community, *Richard D. Semba, Caroline Blaum, Qian-Li Xue, Michelle Ricks, Linda P. Fried, (Baltimore, MD, USA)*

- The role of pro-inflammatory cytokines and leptin in recovery of body weight after acute weight loss in older adults, *M Yukawa MD MPH, WC McCormick MD MPH, DS (Weigle MD: Seattle USA)*

- Retrospective outcomes study of prior enhance clients served, *L. Z Rubenstein (Los Angeles USA)*

- Weight loss intention in well-functioning elderly: effects on diet, exercise, and weight changes, *Lee JS (Pittsburgh, PA U.S.A)*

- Application of Interdisciplinary geriatric protocols and nutrition standards in rural health settings, *S. Escott-Stump (Greenville, North Carolina USA)*

4:00-4:30 AM Break

• **4:30 - 5:00 Nutritional Needs / Intakes**

- Nutrient Intake, BMI and Severity of Disability in Homebound Elders, *Sharkey Joseph R., Branch L G, Giuliani C (Tampa, FL , Chapel Hill, NC and College Station TX USA)*

- Reported low energy intake in the elderly - is it always a matter of underreporting? *Shahar DR, Shai I, Vardi H, Fraser D (Beer-Sheva, Israel)*

- Suppressive effects of gastrointestinal carbohydrate and fat infusions on appetite and food intake with aging, *Parker B, Sturm K, Feinle C, Horowitz M, Chapman I (Adelaide Australia)*

- Development of Food Frequency Questionnaire (FFQ) for the elderly population in Israel based on population survey, *Shahar D (Beer-Sheva Israel)*

- Institutionalized elderly and the effect of a nutrient dense supplement on health status, *Marleen Manders (Wageningen University, The Netherlands)*

- Quality of Dietary Intake is Associated with Social Support Among Older Adults in U.S. national survey, *Nadine Sahyoun, Xinli Zhang (College Park, Maryland, USA)*

- A twelve year experience with enteral feeding in a complex continuing care facility, *Jean Chouinard, Carole Villeneuve RD, (Ottawa, Ontario Canada)*

- Effects of dietary advice and nutritional support on geriatric patients at nutritional risk, *M. Persson, Åsa Hytter, Tommy Cederholm (Stockholm Sweden)*

- Low micronutrient intakes in elderly people in Europe and the United States, *Annet J.C. Roodenburg, Rianne Leenen, Ineke van Herwijnen (The Netherlands)*

- Is the prevalence of dehydration among community-dwelling older adults really low? *Stookey JD, CF Pieper, HJ Cohen (Durham, NC, USA)*

- Aging on the Border: Findings from the Ageless Health Needs Assessment in Texas and New Mexico, *Cummins J , Zunker CL (El Paso, TX USA)*

- Angiotensinogen (-20) genotype may influence resting blood pressure response to strength training, *Hurley, B.F., Martel, G.F., Roth, S.M., and Ferrell, R.E. (Pittsburgh, PA. USA)*

## Accepted posters

July 10th 3:00 - 6:00 PM

• **Nutritional Status ,MNA, Undernutrition**

- Lack of association between Mini Nutritional Assessment (MNA) score, serum albumin and cholesterol among acutely hospitalized elderly patients, *Feldbum I, Shahar DR, Fraser D (Beer-Sheva, Israel)*

- MNA (mini -nutritional assessment) :differences between

hospitalized and home living elderly in urban population, *Vasiljevic N, Dragovic R, Paunovic K, Stojanovic S, Davidovic M, Milosevic D (Belgrade Yugoslavia)*

- Evaluation of nutritional status assessments in hospitalised or ambulatory-treated cancer patients, *Marquet P, Kwiatkowski F, Jouveny S, Cometto F, Condat P, Vasson M-P (Clermont-Ferrand, France)*

- Does the Mini Nutritional Assessment short form predicts length of hospitalization in older people? *Ilana Feldblum, Danit R Shahar, Hanna Castel, Drora Fraser Beer-Sheva, (Israel)*

- MNA and parkinson's disease, *Kaur P, Behari M, Vivekanandhan S, Garg A P, Meerut, (India)*

- Nutritional risk and psychosocial limitations assessment in the elderly institutionalized persons, *Paunovic K, Vasiljevic N, Stojanovic S, Dragovic R (Belgrade Yugoslavia)*

- The Effects of Poverty and Income Inequality to the Nutritional Status of Indonesian Elderly, *Wayah S. Wirotto, Walter Schug (Jakarta, Indonesia and Bonn, Germany)*

- Nutritional Screening in an elderly population in Mexico City, *Araceli Suverza-Fernández, Soledad De Santiago-Martinez, Adriana Salinas-Deffis, Otilia Perichart-Perera (Ciudad de México, México)*

- Multidimensional approach to undernutrition is necessary for optimal diagnosis and adequate therapy, *Thomas Böhmer, Morten Mowé, Edgar Selvaag, Morten Glasø. (Oslo, Norway)*

- The mini nutritional assessment: more useful for day hospital patients than for hospitalized patients, *Jaap Wm Krulder, Peter Mb Van Tilburg, Elien Blommers, Anke Schepers. (Rotterdam, The Netherlands)*

- Nutritional Status of Old aged people in Madurai District, *Prof.P.S.Navaraj, Selection Grade Lecturer, Yadava College, (Madurai- India.)*

- Effects of a nutritional supplement and resistance training on immune response in Chilean elderly, *Daniel Bunout, Gladys Barrera, Sandra Hirsch, Carlos Muñoz, Vivien Gattas, María Pía de la Maza, Ferdinand Haschke, Philippe Steenhout, Petra Klassen, Corinne Hager, Marcelo Avendaño, Margarita Petermann, (Santiago, Chile and Vevey Switzerland)*

- Use of malnutrition clinical tests in every day practice in 7851 elderly patients: Agena study, *P. Brocker, G. Giret D'orsay, JP. Meunier (Nice France, Nanterre France)*

- Nutrition risk as predictor of functional decline in Meals-on-Wheels elderly clients, *Véronique Boutier, Carole Coulombe, Katherine Gray-Donald, Hélène Payette, (Sherbrooke, Quebec, Canada and Montreal, Quebec, Canada)*

- Nutrition Risk Surveillance of Elderly in Maine, *Richard A. Cook, Phillip A. Pratt, Joan Atkinson, Matthew L'Italien; (Orono, Maine, USA)*

- Nutritional state and the Mini-Nutritional Assessment score of Brazilian free-living older persons, *Roberta Rigo Dalacorte, Julio Cesar Moriguti, Fernando Dippe de Matos, Carlos Eduardo Paiva, Julio Sergio Marchini, Eduardo Ferriolli, (São Paulo Brazil)*

- Nutritional Status of Community-Dwelling Elders, *Cheryl Chia-Hui Chen, New Haven, (Connecticut USA)*

- Dietary Supplements Enhance Intake in Institutionalized Seniors with Alzheimer's Disease and Poor Food Intake, *T. Parajasingam, Karen W.H. Young, Carol E. Greenwood (Toronto, Canada)*

- Dietary Supplements Only Enhanced Protein Intake When Provided Between Meals In An Institutionalized Senior. *Rayonne Caesar-Chavannes, Karen W.H. Young, Carol E. Greenwood (Toronto, Canada)*

- Risk of malnutrition detection from general practice in 5018 elderly patients: Agena 2 study, *P. Brocker, G. Giret d'orsay, JP. Meunier (Nice et Nanterre France)*

- Nutritional Screening Within A Subacute Care Facility, *Visvanathan R, Penhall R, Chapman I. (Adelaide, South Australia)*

- Nutritional status in Mexican elderly, *Cervantes-Turrubiates, LA, Montoya-Díaz, MP, Núñez-Núñez L, Borges-Yáñez, A, Gutiérrez-Robledo, LM (Mexico)*

## July 11th 8:00 AM - 6:00 PM

### • Cognitive Functions

- Improvement of cognitive status and functional abilities after nutritional support in elderly with malnutrition-related anaemia, *De Vuono A, Morelli G, Di Iorio V, Ricciardi E., Cemmi L, Cassano L., Chiriaco D., Ettorre E., Troisi G., Marigliano V. (Rome Italy)*

- The role of PUFA in aging neuronal membrane, *Shlomo Yehuda (Ramat Gan, Israel)*

- Weight, blood pressure and cholesterol levels as predictors of cognitive decline in an African-Caribbean sample, *Stewart R (London, UK)*

- Hyperosmolar states in elderly. Prognostic factors and role of cognitive impairment, *Muriel Rainfray, Isabelle Bourdel-Marchasson, Patrick Dehail, Thalie Traissac, (Bordeaux France)*

- Carotenoid, tocopherol, and retinol concentrations in elderly human brain, *Neal E. Craft, Thomas Haitema, Kevin Garnett, Karlotta A. Fitch, Kathleen Dorey, (Boston, MA, USA)*

- Potential benefits of folic acid intake in maintaining cognitive functions in the elderly, *Carole Coulombe, Véronique Boutier, Katherine Gray-Donald, Hélène Payette, (Sherbrooke, Quebec and Montreal, Quebec, Canada)*

- Dietary supplement use in old age: associations with childhood IQ, current cognition and health, *HC Fox, LJ Whalley, HA Lemmon, SJ Duthie, AR Collins, H Peace, JM Starr, IJ Deary (Aberdeen)*

- Acute confusion and cognitive impairment in home care" *Mary Ann Anderson, and Mark Foreman Chicago, (Illinois USA)*

- Silica concentration in drinking Water and cognitive functions. The EPIDOS Study, *M Micas, S. Andrieu, S. Guyonnet, F. Nourashemi, B. Vellas, V. De La Guéronnière (Toulouse and Bourg la Reine, France.)*

### • Dementia

- Appetite Disorders in French Elderly Residents with Agitation and Aggressiveness. The Oceann II Survey, *Micas M, Lauque S, Rebah, N, Gerard D.A, Vellas B. (Toulouse, France)*

- Informal caregivers' perceptions of eating and nutrition behaviours of community-dwelling seniors with dementia, *Keller H, Lohfeld L, (Ontario, Canada)*

- Ways families manage meals at home for persons with dementia, *Amella E J (Charleston, USA)*

- Dementia Care and Spirituality: Beyond and Within the Body, *Wayne A. Ewing, (Asheville, North Carolina, USA)*

- Donepezil is safe and efficacious in patients with severe Alzheimer's disease, *Bruno Vellas, Serge Gauthier, Howard Feldman, Jane Hecker, Yikang Xu, John Ieni, Elias Schwam (Toulouse, France; Verdun, Canada; Vancouver, Canada; Daw Park, Australia; New York, USA and Teaneck, USA)*

- Body weight status, behavioural difficulties, and cognitive function in Alzheimer's patients: predictors of energy compensation, *Karen W.H. Young, Carol E. Greenwood, Malcolm A. Binns, Robert van Reekum, (Toronto, Canada)*

- Effects of nutritional intervention lowering n-6/n-3 ratio of polyunsaturated fatty acid (PUFA) on cognitive dysfunction and depression in patients with Alzheimer's disease and mild cognitive impairment (MCI), *Otsuka M, Sasaki S, Yamaguchi K, Sato T, Hamazaki T, Ueki A. (Saitama and Toyama, Japan)*

- Neuro-immune and Endocrine Systems in Dementia, *Ramírez Díaz SP, Martín Sánchez FJ, Gil Gregorio P, Ribera Casado JM. (Madrid, Spain)*

- Effects of Oral Nutritional Supplementation in Patients with Alzheimer Disease, *Lauque S, Arnaud - Battandier F, Vellas B; Toulouse and Noisiel, France*

### • Geriatric

- Appetite, Hunger, Aversion: influences on food intake in hospitalized geriatric patients, *St-Arnaud-McKenzie D, Paquet C, Kergoat MJ, Dubé L., Ferland G (Montréal, Québec Canada)*

- Diet quality of urban Indian elderly women: socio-psychological influences, *Puri Seema, Khanna Kumud (New Delhi India)*

- Study On Geriatric Problem Reduction Using Buckwheat (Fagopyrum Tataricum L.) In Nepal, *Beda Nidhi Dhal, (Kathmandu, Nepal)*

- The Problems of Aging in Nepal, *Hari Tiwar (Kathmandu Nepal)*

- Scurvy in long stay geriatric hospitals, *Assef Niloufar, (Jaffarbay Jamileh)*

- Comprehensive evaluation of nutritional status for urban and rural dwelling elderly, *Zulkowski K, Coon P (Billings USA)*

### • Frailty

- Elderly meal delivery recipients are at risk for malnutrition, *Davidson Jeannette (Peoria, IL USA)*

- Is the cholesterol a frailty trait? Association between hypocholesterolemia and disability in the older, *Alicia Copca*

Arellano, Luis M. Gutiérrez Robledo, Antonio R. Villa. Mexico City, Mexico

### • Biology, Biochemistry

- Glutamyl cysteine synthetase activity seems to control liver glutathione availability during aging in the rat, *Mosoni L., Breuillé D., Buffière C., Bechereau F., Denis P., Ribeyre M.C., P. Patureau Mirand P, Obled C (Theix, France and Lausanne, Switzerland)*
- Aminoacidemia variations in response to nutritional methionine depletion, *Farges Marie-Chantal, X. Durando, E. Cellarier, P.J. Bargnous, P. Chollet, M-P. Vasson (Clermont-Ferrand France)*
- Mechanisms of hyperhomocysteinemia in elderly patients in Europe (France, Belgium), *Salles N, Benoit F, Parrot F, Simonetti C, Peppersack T, Emeriau JP (Genève, Switzerland)*
- Mitochondrial H<sub>2</sub>O<sub>2</sub> production increases with age in rat soleus muscle, *Capel F, Buffière C, Patureau-Mirand Ph, Mosoni L (Theix, France)*
- Survival prognostic value of serum interleukin-6 level in very old people, *Thomas P, Lecron JC, Ingrand P.3., Wijdenes J, Hazif Thomas C (Limoges France)*
- Correlation of Some Blood Biochemistry Constituents and Antioxidants with Age-related Cataract, *Issa Nourmohammadi, Mansour Mirsamadi, Mehdi Moddares, (Tehran, Iran)*
- New Laboratory tests for Assessing Vitamin Status in an Ageing New Zealand Population, *Storer MK, Lever M, Happer DAR, George PM, Chambers, ST. (Christchurch, New Zealand)*
- Glycine Betaine and Glycine Betaine Analogues in the Western Diet. *S. Slow & F.J. de Zwart, (Christchurch New Zealand)*
- Neuroendocrine and gene expression variations along aging in Wistar et Lou/C/Jall, *Laurent Kappeler, Philippe Zizzari, Marie-Thérèse Bluet-Pajot, Marie Hélène Bassant, Frédérique Poindessous, Josette Alliot, Jacques Epelbaum (Aubiere France)*
- Serum trace elements in hospitalized and healthy elderly: a case control study, *S. Belbraouet, H. Biaudet, N. Chau, A. Tébi, C. Tranchant, P. Massé, G. Debry (Nancy, France, Longjumeau, France; Nouveau-Brunswick, Canada)*
- Comparison of homocysteine concentrations in young and elderly women, *A. Straßburg, P. Lührmann, C. Krems, B. Hartmann, M.Neuhäuser-Berthold Giessen, (Germany)*
- Effects of calcium supplementation on serum lipid profile of postmenopausal Chinese women, *Y Zaitun, YM Chan, Arsuriah, WSS Chee, SP Chan, K Mirnalini, (Kuala Lumpur, Malaysia).*

### • Body Composition

- Nutrient intake and body composition in women undergoing menopause of campania country, *Messina G, Piombino L, Sidro L, Ricci MT, Mangoni di S Stefano GS, D'Ambrosio L, Mangoni di S Stefano C (Naples Italy)*
- Ethnic Comparisons of Body Composition in Diabetes, *Carmen Castaneda, Ian Janssen, (Boston, USA)*
- The comparison of body densities estimated by Bod Pod with that by hydrodensitometry in Chinese people, *Kwok T, Hui S, Li M, Woo J, Lau E. (Hong Kong, China)*
- Is there a protective effect of fat mass in the elderly? Relationship of body composition and physical performance in the elderly, *Alicia Copca Arellano, Luis M. Gutiérrez Robledo, Antonio R. Villa. (Mexico City, Mexico)*

**July 12th 8:00 AM - 4:00 PM**

### • Oxidative Stress

- The age-related loss of muscle proteins is not associated with oxidative stress in healthy rats, *Mosoni YL, Breuillé D, Buffière C, Leclerc J N, Denis P., Ribeyre M C, Obled C, Patureau Mirand P (Theix, France and Lausanne Switzerland)*
- Coenzyme Q and its role in health and disease Naghmeh Abbasi, *Shahnaz Khaghani, Mohammad Ansari (Tehran, Iran)*
- Relationship between nutritional factors implicated in oxidative stress and cognitive performances in mice ageing, *Dragin N, Segu L, Costet P, Wolf M, Buhot MC, Peuchant E. (Bordeaux, France)*
- The effect of oxidative stress in endothelial function in young and elderly hyperhomocysteinemic subjects, *Hirsch S, Vazquez*

M,Ronco AM, Gattas V, Barrera G, Garrido A, Valladares L, Glasinovic A, Yáñez A, Bunout D, de la Maza MP (Santiago-Chile)

- The mitochondrial production of oxygen radical species and the role of Coenzyme Q as an antioxidant, *M.L. Genova, M.Merlino Pich, A. Biondi, A. Bernacchia, G. Lenaz, (Bologna, Italy)*

### • Nutritional Needs / Intakes

- Health and nutritional challenges facing the elderly persons and prospects for healthy aging in kenya, *Akinyi Wagah Margaret (Nairobi, Kenya)*
- Nutrient Intake of First Generation Gujarati Asian Indian Immigrants in the U.S, *Satya S. Jonnalagadda, Sahnna Diwan, (Atlanta, USA)*
- Nutrient intake in elderly can be related to cognitive functions : a study on campania country people, *Messina G, Piombino L, Imperiale R, Sidro L, D'Ambrosio L, Chieffi S, Mangoni di S Stefano C (Naples Italy)*
- Dietary intakes of home-dwelling elderly Quebecers obtained from a food frequency questionnaire: A pilot study, *Shatenstein B., Payette H., Nadon S, Gray-Donald K, (Sherbrooke, Québec, Canada)*
- Wash first or eat first ? breakfast time schedule and daily food intake in elderly hospitalized patients, *Raynaud-Simon A, Abioen G, Forasassi C, Sagno V, Meaume S. (Ivry, France)*
- Fiber Enhancement of Pureed Foods, *Wendy J. Dahl, Susan J. Whiting, (Saskatoon Canada)*
- Nutrition Education for Older Adults: Promise and Progress, *Mary P. Barkley and Mary M. Higgins, (Manhattan, KS, USA)*
- Snacks in a Long Term-Care Facility: Macronutrient Analysis Reveals Low Nutrient Density, *Susan J. Whiting, Wendy Dahl, Adrienne Healey, Sherri Hildebrant, Gordon A. Zello, Christina O. Lengyel. (Saskatoon Canada)*
- Effect of carotenoid dietary depletion and repletion on neutrophil bactericidal activity during aging, *S. Walrand, M-C. Farges, R. Minet-Quinard, N. Cardinault, E. Rock, J. Ribalta, B. Winkhofer-Roob, M-P. Vasson and the Vitage study group. (Clermont-Ferrand, France)*
- Phytochemicals and Fiber-rich foods consumption in Elderly Korean Cancer Patients, *Seon-Joo Park, Hae-Jeung Lee, Haymie Choi. (Seoul, Korea)*
- Providing breakfast-type foods to Alzheimer's patients at poorly consumed meals: an effective nutrition intervention? *Karen W.H. Young and Carol E. Greenwood (Toronto, Canada)*
- Behavioural disturbances, not cognitive deterioration, associate with altered appetite regulation in seniors with Alzheimer's disease, *Carolyn Tam, Mae Chan, Karen W.H. Young, Malcolm A. Binns, Carol E. Greenwood, (Toronto, Canada)*
- The standard oxygen consumption value equivalent to 1 met (3.5ml /min/kg) is not appropriate for elderly people, *M. Kwan., Woo J., Kwok.T (Hong Kong China)*
- Study of the loss of appetite for proteins during aging in the LOU/c/jall rat, *Alliot J., Nzang N.Guema G., Boghossian S., Debras E., and Grizard J. (Aubiere France)*
- Decline in Magnesium Concentrations in Sick Elderly, *B. Porat-Katz, U. Zur, S. Levi, Y.N. Berner (Tel Aviv Israel)*
- Optimal Energy Intake for Optimal Signal Transduction and Endocrine Control with Aging, *Yitshal N. Berner (Tel Aviv Israel)*
- Evaluation of older Australian's fruit and vegetable intake: The National Nutrition Survey 1995, *Elaine Bannerman, Anthea Magarey, Lynne Daniels. (Bedford Park, Australia)*
- Estimated energy and protein intake of elderly patients following a lower limb fracture, *Michelle Miller, Maria Crotty, Lynne Daniels, Elaine Bannerman, Flinders University of South Australia, (Adelaide, Australia)*

### • Others (Dehydration, Epidemiology, Exercise...)

- Reduced hyperinsulinemia and hyperglycemia by troglitazone during stress modulate non-specific immunity in aged rats, *Caldefie-Chézet F, Farges M-C., Walrand S., Enreille-Leger A, Vasson M-P. (Clermont-Ferrand, France)*
- Eating disabilities and dietary intake at 6 months after stroke, *Perry L, McLaren S (London, UK)*
- Nutritional epidemiology of elderly people of campania country, *Messina G, Luciano M, Ranucci S, Imperiale R, D'Ambrosio L, Mangoni di S Stefano C (Naples Italy)*
- Aging on the Border: Assessing Health Problems and Hispanic