# Supplementary Online Content

Nation DA, Edmonds EC, Bangen KJ, et al. Pulse pressure in relation to tau-mediated neurodegeneration, cerebral amyloidosis, and progression to dementia in very old adults. *JAMA Neurol*. Published online March 30, 2015. doi:10.1001/jamaneurol.2014.4477.

**eAppendix 1.** Acknowledgement List for ADNI Publications.
**eAppendix 2.** Results.

This supplementary material has been provided by the authors to give readers additional information about their work.

# eAppendix 1. ACKNOWLEDGEMENT LIST FOR ADNI PUBLICATIONS

The Data and Publications Committee, in keeping with the publication policies adopted by the ADNI Steering Committee, here provide lists for standardized acknowledgement. The list consists of two parts: I. ADNI Infrastructure Investigators and Site Investigators and II. DOD ADNI Infrastructure Investigators and Site Investigators. Infrastructure Investigators represent the names responsible for leadership and infrastructure. Site Investigators represent the names of individuals at each recruiting site. All papers, including methodological papers, should have an acknowledgement list that consists of Infrastructure Investigators plus the FULL list.

## I. ADNI I, GO and II

### Part A: Leadership and Infrastructure

**Principal Investigator**

| | |
|---|---|
| Michael W. Weiner, MD | UC San Francisco |

**ADCS PI and Director of Coordinating Center Clinical Core**

| | |
|---|---|
| Paul Aisen, MD | UC San Diego |

**Executive Committee**

| | |
|---|---|
| Michael Weiner, MD | UC San Francisco |
| Paul Aisen, MD | UC San Diego |
| Ronald Petersen, MD, PhD | Mayo Clinic, Rochester |
| Clifford R. Jack, Jr., MD | Mayo Clinic, Rochester |
| William Jagust, MD | UC Berkeley |
| John Q. Trojanowki, MD, PhD | U Pennsylvania |
| Arthur W. Toga, PhD | USC |
| Laurel Beckett, PhD | UC Davis |
| Robert C. Green, MD, MPH | Brigham and Women's Hospital/Harvard Medical School |
| Andrew J. Saykin, PsyD | Indiana University |
| John Morris, MD | Washington University St. Louis |
| Leslie M. Shaw | University of Pennsylvania |

**ADNI External Advisory Board (ESAB)**

| | |
|---|---|
| Zaven Khachaturian, PhD | Prevent Alzheimer's Disease 2020 (Chair) |
| Greg Sorensen, MD | Siemens |
| Maria Carrillo, PhD | Alzheimer's Association |
| Lew Kuller, MD | University of Pittsburg |
| Marc Raichle, MD | Washington University St. Louis |
| Steven Paul, MD | Cornell University |
| Peter Davies, MD | Albert Einstein College of Medicine of Yeshiva University |
| Howard Fillit, MD | AD Drug Discovery Foundation |
| Franz Hefti, PhD | Acumen Pharmaceuticals |
| Davie Holtzman, MD | Washington University St. Louis |
| M. Marcel Mesulam, MD | Northwestern University |
| William Potter, MD | National Institute of Mental Health |
| Peter Snyder, PhD | Brown University |

**ADNI 2 Private Partner Scientific Board (PPSB)**

| | |
|---|---|
| Adam Schwartz, MD | Eli Lilly (Chair) |

**Data and Publication Committee (DPC)**

| | |
|---|---|
| Robert C. Green, MD, MPH | BWH/HMS (Chair) |

**Resource Allocation Review Committee**

| | |
|---|---|
| Tom Montine, MD, PhD | University of Washington (Chair) |

**Clinical Core Leaders**

| | |
|---|---|
| Ronald Petersen, MD, PhD | Mayo Clinic, Rochester (Core PI) |
| Paul Aisen, MD | UC San Diego |

**Clinical Informatics and Operations**

| | |
|---|---|
| Ronald G. Thomas, PhD | UC San Diego |
| Michael Donohue, PhD | UC San Diego |
| Sarah Walter, MSc | UC San Diego |
| Devon Gessert | UC San Diego |
| Tamie Sather, MA | UC San Diego |
| Gus Jiminez, MBS | UC San Diego |

**Biostatistics Core Leaders and Key Personnel**

| | |
|---|---|
| Laurel Beckett, PhD | UC Davis (Core PI) |
| Danielle Harvey, PhD | UC Davis |
| Michael Donohue, PhD | UC San Diego |

**MRI Core Leaders and Key Personnel**

| | |
|---|---|
| Clifford R. Jack, Jr., MD | Mayo Clinic, Rochester (Core PI) |
| Matthew Bernstein, PhD | Mayo Clinic, Rochester |
| Nick Fox, MD | University of London |
| Paul Thompson, PhD | UCLA School of Medicine |
| Norbert Schuff, PhD | UCSF MRI |
| Charles DeCArli, MD | UC Davis |
| Bret Borowski, RT | Mayo Clinic |
| Jeff Gunter, PhD | Mayo Clinic |
| Matt Senjem, MS | Mayo Clinic |
| Prashanthi Vemuri, PhD | Mayo Clinic |
| David Jones, MD | Mayo Clinic |
| Kejal Kantarci | Mayo Clinic |
| Chad Ward | Mayo Clinic |

**PET Core Leaders and Key Personnel**

| | |
|---|---|
| William Jagust, MD | UC Berkeley (Core PI) |
| Robert A. Koeppe, PhD | University of Michigan |
| Norm Foster, MD | University of Utah |
| Eric M. Reiman, MD | Banner Alzheimer's Institute |
| Kewei Chen, PhD | Banner Alzheimer's Institute |

| | |
|---|---|
| Chet Mathis, MD | University of Pittsburgh |
| Susan Landau, PhD | UC Berkeley |

**Neuropathology Core Leaders**

| | |
|---|---|
| John C. Morris, MD | Washington University St. Louis |
| Nigel J. Cairns, PhD, MRCPath | Washington University St. Louis |
| Erin Householder | Washington University St. Louis |
| Lisa Taylor-Reinwald, BA, HTL (ASCP) – Past Investigator | Washington University St. Louis |

**Biomarkers Core Leaders and Key Personnel**

| | |
|---|---|
| Leslie M. Shaw, PhD | UPenn School of Medicine |
| John Q. Trojanowki, MD, PhD | UPenn School of Medicine |
| Virginia Lee, PhD, MBA | UPenn School of Medicine |
| Magdalena Korecka, PhD | UPenn School of Medicine |
| Michal Figurski, PhD | UPenn School of Medicine |

**Informatics Core Leaders and Key Personnel**

| | |
|---|---|
| Arthur W. Toga, PhD | USC (Core PI) |
| Karen Crawford | USC |
| Scott Neu, PhD | USC |

**Genetics Core Leaders and Key Personnel**

| | |
|---|---|
| Andrew J. Saykin, PsyD | Indiana University |
| Tatiana M. Foroud, PhD | Indiana University |
| Steven Potkin, MD UC | UC Irvine |
| Li Shen, PhD | Indiana University |
| Kelley Faber, MS, CCRC | Indiana University |
| Sungeun Kim, PhD | Indiana University |
| Kwangsik Nho, PhD | Indiana University |

**Initial Concept Planning & Development**

| | |
|---|---|
| Michael W. Weiner, MD | UC San Francisco |
| Lean Thal, MD | UC San Diego |
| Zaven Khachaturian, PhD | Prevent Alzheimer's Disease 2020 |

**Early Project Proposal Development**

| | |
|---|---|
| Leon Thal, MD | UC San Diego |
| Neil Buckholtz | National Insititute on Aging |
| Michael W. Weiner, MD | UC San Francisco |
| Peter J. Snyder, PhD | Brown University |
| William Potter, MD | National Institute of Mental Health |
| Steven Paul, MD | Cornell Universtiy |
| Marylyn Albert, PhD | Johns Hopkins University |
| Richard Frank, MD, PhD | Richard Frank Consulting |
| Zaven Khachaturian, PhD | Prevent Alzheimer's Disease 2020 |

**NIA**
John Hsiao, MD National Institute on Aging

**Part B: Investigators By Site**

**Oregon Health and Science University:**
Jeffrey Kaye, MD
Joseph Quinn, MD
Betty Lind, BS
Raina Carter, BA
Sara Dolen, BS – Past Investigator

**University of Southern California:**
Lon S. Schneider, MD
Sonia Pawluczyk, MD
Mauricio Beccera, BS
Liberty Teodoro, RN
Bryan M. Spann, DO, PhD – Past Investigator

**University of California--San Diego:**
James Brewer, MD, PhD
Helen Vanderswag, RN
Adam Fleisher, MD – Past Investigator

**University of Michigan:**
Judith L. Heidebrink, MD, MS
Joanne L. Lord, LPN, BA, CCRC

**Mayo Clinic, Rochester:**
Ronald Petersen, MD, PhD
Sara S. Mason, RN
Colleen S. Albers, RN
David Knopman, MD
Kris Johnson, RN – Past Investigator

**Baylor College of Medicine:**
Rachelle S. Doody, MD, PhD
Javier Villanueva-Meyer, MD
Munir Chowdhury, MBBS, MS
Susan Rountree, MD
Mimi Dang, MD

**Columbia University Medical Center:**
Yaakov Stern, PhD
Lawrence S. Honig, MD, PhD
Karen L. Bell, MD

**Washington University, St. Louis:**
Beau Ances, MD
John C. Morris, MD
Maria Carroll, RN, MSN
Sue Leon, RN, MSN
Erin Householder, MS, CCRP
Mark A. Mintun, MD – Past Investigator
Stacy Schneider, APRN, BC, GNP – Past Investigator
Angela Oliver, RN, BSN, MSG – Past Investigator

**University of Alabama - Birmingham:**
Daniel Marson, JD, PhD
Randall Griffith, PhD, ABPP
David Clark, MD
David Geldmacher, MD
John Brockington, MD
Erik Roberson, MD

**Mount Sinai School of Medicine:**
Hillel Grossman, MD
Effie Mitsis, PhD

**Rush University Medical Center:**
Leyla deToledo-Morrell, PhD
Raj C. Shah, MD

**Wien Center:**
Ranjan Duara, MD
Daniel Varon, MD
Maria T. Greig, HP
Peggy Roberts, CNA – Past Investigator

**Johns Hopkins University:**
Marilyn Albert, PhD
Chiadi Onyike, MD
Daniel D'Agostino II, BS
Stephanie Kielb, BS – Past Investigator

**New York University:**
James E. Galvin, MD, MPH
Dana M. Pogorelec
Brittany Cerbone

Christina A. Michel
Henry Rusinek, PhD – Past Investigator
Mony J de Leon, EdD – Past Investigator
Lidia Glodzik, MD, PhD – Past Investigator
Susan De Santi, PhD – Past Investigator

**Duke University Medical Center:**
P. Murali Doraiswamy, MD
Jeffrey R. Petrella, MD
Terence Z. Wong, MD

**University of Pennsylvania:**
Steven E. Arnold, MD
Jason H. Karlawish, MD
David Wolk, MD

**University of Kentucky:**
Charles D. Smith, MD
Greg Jicha, MD
Peter Hardy, PhD
Partha Sinha, PhD
Elizabeth Oates, MD
Gary Conrad, MD

**University of Pittsburgh:**
Oscar L. Lopez, MD
MaryAnn Oakley, MA
Donna M. Simpson, CRNP, MPH

**University of Rochester Medical Center:**
Anton P. Porsteinsson, MD
Bonnie S. Goldstein, MS, NP
Kim Martin, RN
Kelly M. Makino, BS – Past Investigator
M. Saleem Ismail, MD – Past Investigator
Connie Brand, RN – Past Investigator

**University of California, Irvine:**
Ruth A. Mulnard, DNSc, RN, FAAN
Gaby Thai, MD
Catherine Mc-Adams-Ortiz, MSN, RN, A/GNP

**University of Texas Southwestern Medical School:**
Kyle Womack, MD
Dana Mathews, MD, PhD
Mary Quiceno, MD
Ramon Diaz-Arrastia, MD, PhD – Past Investigator
Richard King, MD – Past Investigator
Myron Weiner, MD – Past Investigator
Kristen Martin-Cook, MA – Past Investigator
Michael DeVous, PhD – Past Investigator

**Emory University:**
Allan I. Levey, MD, PhD
James J. Lah, MD, PhD
Janet S. Cellar, DNP, PMHCNS-BC

**University of Kansas, Medical Center:**
Jeffrey M. Burns, MD
Heather S. Anderson, MD
Russell H. Swerdlow, MD

**University of California, Los Angeles:**
Liana Apostolova, MD
Kathleen Tingus, PhD
Ellen Woo, PhD
Daniel H.S. Silverman, MD, PhD
Po H. Lu, PsyD – Past Investigator
George Bartzokis, MD – Past Investigator

**Mayo Clinic, Jacksonville:**
Neill R Graff-Radford, MBBCH, FRCP (London)
Francine Parfitt, MSH, CCRC
Tracy Kendall, BA, CCRP
Heather Johnson, MLS, CCRP – Past Investigator

**Indiana University:**
Martin R. Farlow, MD
Ann Marie Hake, MD
Brandy R. Matthews, MD
Scott Herring, RN, CCRC
Cynthia Hunt, BS, CCRP

**Yale University School of Medicine:**
Christopher H. van Dyck, MD
Richard E. Carson, PhD
Martha G. MacAvoy, PhD

**McGill Univ., Montreal-Jewish General Hospital:**
Howard Chertkow, MD
Howard Bergman, MD
Chris Hosein, MEd

**Sunnybrook Health Sciences, Ontario:**
Sandra Black, MD, FRCPC
Dr Bojana Stefanovic
Curtis Caldwell, PhD

**U.B.C. Clinic for AD & Related Disorders:**
Ging-Yuek Robin Hsiung, MD, MHSc, FRCPC
Howard Feldman, MD, FRCPC
Benita Mudge, BS
Michele Assaly, MA – Past

**Cognitive Neurology - St. Joseph's, Ontario:**
Andrew Kertesz, MD
John Rogers, MD
Dick Trost, PhD

**Cleveland Clinic Lou Ruvo Center for Brain Health:**
Charles Bernick, MD
Donna Munic, PhD

**Northwestern University:**
Diana Kerwin, MD
Marek-Marsel Mesulam, MD
Kristine Lipowski, BA
Chuang-Kuo Wu, MD, PhD – Past Investigator
Nancy Johnson, PhD – Past Investigator

**Premiere Research Inst (Palm Beach Neurology):**
Carl Sadowsky, MD
Walter Martinez, MD
Teresa Villena, MD

**Georgetown University Medical Center:**
Raymond Scott Turner, MD, PhD
Kathleen Johnson, NP
Brigid Reynolds, NP

**Brigham and Women's Hospital:**
Reisa A. Sperling, MD
Keith A. Johnson, MD
Gad Marshall, MD
Meghan Frey – Past Investigator

**Stanford University:**
Jerome Yesavage, MD
Joy L. Taylor, PhD
Barton Lane, MD
Allyson Rosen, PhD – Past Investigator
Jared Tinklenberg, MD – Past Investigator

**Banner Sun Health Research Institute:**
Marwan N. Sabbagh, MD
Christine M. Belden, PsyD
Sandra A. Jacobson, MD
Sherye A. Sirrel, MS

**Boston University:**
Neil Kowall, MD
Ronald Killiany, PhD
Andrew E. Budson, MD
Alexander Norbash, MD – Past Investigator
Patricia Lynn Johnson, BA – Past Investigator

**Howard University:**
Thomas O. Obisesan, MD, MPH
Saba Wolday, MSc
Joanne Allard, PhD

**Case Western Reserve University:**
Alan Lerner, MD
Paula Ogrocki, PhD
Leon Hudson, MPH – Past Investigator

**University of California, Davis – Sacramento:**
Evan Fletcher, PhD
Owen Carmichael, PhD
John Olichney, MD
Charles DeCarli, MD – Past Investigator

**Neurological Care of CNY:**
Smita Kittur, MD

**Parkwood Hospital:**
Michael Borrie, MB ChB
T-Y Lee, PhD
Dr Rob Bartha, PhD

**University of Wisconsin:**
Sterling Johnson, PhD
Sanjay Asthana, MD
Cynthia M. Carlsson, MD

**University of California, Irvine - BIC:**
Steven G. Potkin, MD

Adrian Preda, MD
Dana Nguyen, PhD

**Banner Alzheimer's Institute:**
Pierre Tariot, MD
Adam Fleisher, MD
Stephanie Reeder, BA

**Dent Neurologic Institute:**
Vernice Bates, MD
Horacio Capote, MD
Michelle Rainka, PharmD, CCRP

**Ohio State University:**
Douglas W. Scharre, MD
Maria Kataki, MD, PhD
Anahita Adeli, MD

**Albany Medical College:**
Earl A. Zimmerman, MD
Dzintra Celmins, MD
Alice D. Brown, FNP

**Hartford Hospital, Olin Neuropsychiatry Research Center:**
Godfrey D. Pearlson, MD
Karen Blank, MD
Karen Anderson, RN

**Dartmouth-Hitchcock Medical Center:**
Robert B. Santulli, MD
Tamar J. Kitzmiller
Eben S. Schwartz, PhD – Past Investigator

**Wake Forest University Health Sciences:**
Kaycee M. Sink, MD, MAS
Jeff D. Williamson, MD, MHS
Pradeep Garg, PhD
Franklin Watkins, MD – Past Investigator

**Rhode Island Hospital:**
Brian R. Ott, MD
Henry Querfurth, MD
Geoffrey Tremont, PhD

**Butler Hospital:**
Stephen Salloway, MD, MS
Paul Malloy, PhD
Stephen Correia, PhD

**UC San Francisco:**
Howard J. Rosen, MD
Bruce L. Miller, MD

**Medical University South Carolina:**
Jacobo Mintzer, MD, MBA
Kenneth Spicer, MD, PhD
David Bachman, MD

**St. Joseph's Health Care:**
Elizabether Finger, MD
Stephen Pasternak, MD
Irina Rachinsky, MD
John Rogers, MD
Andrew Kertesz, MD – Past Investigator
Dick Drost, MD – Past Investigator

**Nathan Kline Institute**
Nunzio Pomara, MD
Raymundo Hernando, MD
Antero Sarrael, MD

**University of Iowa College of Medicine**
Susan K. Schultz, MD
Laura L. Boles Ponto, PhD
Hyungsub Shim, MD
Karen Elizabeth Smith, RN

**Cornell University**
Norman Relkin, MD, PhD
Gloria Chaing, MD
Lisa Raudin, PhD

**University of South Florida: USF Health Byrd Alzheimer's Institute**
Amanda Smith, MD
Kristin Fargher, MD
Balebail Ashok Raj, MD

## II. DOD ADNI

### Part A: Leadership and Infrastructure

**Principal Investigator**

| | |
|---|---|
| Michael W. Weiner, MD | University of California, San Francisco |

**ADCS PI and Director of Coordinating Center Clinical Core**

| | |
|---|---|
| Paul Aisen, MD | UC San Diego |

**Executive Committee**

| | |
|---|---|
| Michael Weiner, MD | UC San Francisco |
| Paul Aisen, MD | UC San Diego |
| Ronald Petersen, MD, PhD | Mayo Clinic, Rochester |
| Robert C. Green, MD, MPH | Brigham and Women's Hospital/ Harvard Medical School |
| Danielle Harvey, PhD | UC Davis |
| Clifford R. Jack, Jr., MD | Mayo Clinic, Rochester |
| William Jagust, MD | UC Berkeley |
| John C. Morris, MD | Washington University St. Louis |
| Andrew J. Saykin, PsyD | Indiana University |
| Leslie M. Shaw, PhD | Perelman School of Medicine, UPenn |
| Arthur W. Toga, PhD | USC |
| John Q. Trojanowki, MD, PhD | Perelman School of Medicine, University of Pennsylvania |

**Psychological Evaluation/PTSD Core**

| | |
|---|---|
| Thomas Neylan, MD | UC San Francisco |

**Traumatic Brain Injury/TBI Core**

| | |
|---|---|
| Jordan Grafman, PhD | Rehabilitation Institute of Chicago, Feinberg School of Medicine, Northwestern University |

**Data and Publication Committee (DPC)**

| | |
|---|---|
| Robert C. Green, MD, MPH | BWH/HMS (Chair) |

**Resource Allocation Review Committee**

| | |
|---|---|
| Tom Montine, MD, PhD | University of Washington (Chair) |

**Clinical Core Leaders**

| | |
|---|---|
| Michael Weiner MD | Core PI |
| Ronald Petersen, MD, PhD | Mayo Clinic, Rochester (Core PI) |
| Paul Aisen, MD | UC San Diego |

**Clinical Informatics and Operations**

| | |
|---|---|
| Ronald G. Thomas, PhD | UC San Diego |
| Michael Donohue, PhD | UC San Diego |
| Devon Gessert | UC San Diego |
| Tamie Sather, MA | UC San Diego |
| Melissa Davis | UC San Diego |

| | |
|---|---|
| Rosemary Morrison, MPH | UC San Diego |
| Gus Jiminez, MBS | UC San Diego |

**San Francisco Veterans Affairs Medical Center**

| | |
|---|---|
| Thomas Neylan, MD | UC San Francisco |
| Jacqueline Hayes | UC San Francisco |
| Shannon Finley | UC San Francisco |

**Biostatistics Core Leaders and Key Personnel**

| | |
|---|---|
| Danielle Harvey, PhD | UC Davis (Core PI) |
| Michael Donohue, PhD | UC San Diego |

**MRI Core Leaders and Key Personnel**

| | |
|---|---|
| Clifford R. Jack, Jr., MD | Mayo Clinic, Rochester (Core PI) |
| Matthew Bernstein, PhD | Mayo Clinic, Rochester |
| Bret Borowski, RT | Mayo Clinic |
| Jeff Gunter, PhD | Mayo Clinic |
| Matt Senjem, MS | Mayo Clinic |
| Kejal Kantarci | Mayo Clinic |
| Chad Ward | Mayo Clinic |

**PET Core Leaders and Key Personnel**

| | |
|---|---|
| William Jagust, MD | UC Berkeley (Core PI) |
| Robert A. Koeppe, PhD | University of Michigan |
| Norm Foster, MD | University of Utah |
| Eric M. Reiman, MD | Banner Alzheimer's Institute |
| Kewei Chen, PhD | Banner Alzheimer's Institute |
| Susan Landau, PhD | UC Berkeley |

**Neuropathology Core Leaders**

| | |
|---|---|
| John C. Morris, MD | Washington University St. Louis |
| Nigel J. Cairns, PhD, FRCPath | Washington University St. Louis |
| Erin Householder, MS | Washington University St. Louis |

**Biomarkers Core Leaders and Key Personnel**

| | |
|---|---|
| Leslie M. Shaw, PhD | Perelman School of Medicine, UPenn |
| John Q. Trojanowki, MD, PhD | Perelman School of Medicine, UPenn |
| Virginia Lee, PhD, MBA | Perelman School of Medicine, UPenn |
| Magdalena Korecka, PhD | Perelman School of Medicine, UPenn |
| Michal Figurski, PhD | Perelman School of Medicine, UPenn |

**Informatics Core Leaders and Key Personnel**

| | |
|---|---|
| Arthur W. Toga, PhD | USC (Core PI) |
| Karen Crawford | USC |
| Scott Neu, PhD | USC |

**Genetics Core Leaders and Key Personnel**

| | |
|---|---|
| Andrew J. Saykin, PsyD | Indiana University |

| | |
|---|---|
| Tatiana M. Foroud, PhD | Indiana University |
| Steven Potkin, MD UC | UC Irvine |
| Li Shen, PhD | Indiana University |
| Kelley Faber, MS, CCRC | Indiana University |
| Sungeun Kim, PhD | Indiana University |
| Kwangsik Nho, PhD | Indiana University |

**Initial Concept Planning & Development**

| | |
|---|---|
| Michael W. Weiner, MD | UC San Francisco |
| Karl Friedl | Department of Defense (retired) |

**Part B: Investigators By Site**

**University of Southern California:**
Lon S. Schneider, MD, MS
Sonia Pawluczyk, MD
Mauricio Beccera

**University of California, San Diego:**
James Brewer, MD, PhD
Helen Vanderswag, RN

**Columbia University Medical Center:**
Yaakov Stern, PhD
Lawrence S. Honig, MD, PhD
Karen L. Bell, MD

**Rush University Medical Center:**
Debra Fleischman, Ph.D.
Konstantinos Arfanakis, Ph.D.
Raj C. Shah, M.D.

**Wien Center:**
Dr. Ranjan Duara MD PI
Dr. Daniel Varon MD Co-PI
Maria T Greig HP Coordinator

**Duke University Medical Center:**
P. Murali Doraiswamy, MBBS
Jeffrey R. Petrella, MD
Olga James, MD

**University of Rochester Medical Center:**
Anton P. Porsteinsson, MD (director)
Bonnie Goldstein, MS, NP (coordinator)
Kimberly S. Martin, RN

**University of California, Irvine:**
Ruth A. Mulnard, DNSc, RN, FAAN
Gaby Thai, MD
Catherine McAdams-Ortiz, MSN, RN, A/GNP

**Medical University South Carolina:**
Jacobo Mintzer, MD, MBA
Dino Massoglia, MD, PhD
Olga Brawman-Mintzer, MD

**Premiere Research Inst (Palm Beach Neurology):**
Carl Sadowsky, MD
Walter Martinez, MD
Teresa Villena, MD

**University of California, San Francisco:**
William Jagust MD
Susan Landau PhD

**Georgetown University Medical Center:**
Raymond Scott Turner, MD, PhD
Kelly Behan
Brigid Reynolds, NP

**Brigham and Women's Hospital:**
Reisa A. Sperling, MD
Keith A. Johnson, MD
Gad Marshall, MD

**Banner Sun Health Research Institute:**
Marwan N. Sabbagh, MD
Sandra A. Jacobson, MD
Sherye A. Sirrel, MS, CCRC


**Howard University:**
Thomas O. Obisesan, MD, MPH
Saba Wolday, MSc
Joanne Allard, PhD

**University of Wisconsin:**
Sterling C. Johnson, Ph.D.
J. Jay Fruehling, M.A.
Sandra Harding, M.S.

**University of Washington:**
Elaine R. Peskind, MD
Eric C. Petrie, MD, MS
Gail Li, MD, PhD

**Stanford University:**
Jerome A. Yesavage, MD
Joy L. Taylor, PhD
Ansgar J. Furst, PhD

**Cornell University:**
Norman Relkin, MD, PhD
Gloria Chaing, MD
Lisa Ravdin, PhD

**eAppendix 2. Results**
Results of analyses of systolic and diastolic blood pressure are presented below. Note that all statistical methods were identical to those employed in pulse pressure analyses (*see* Statistical Analyses).

**Systolic Blood Pressure**
Biomarker profile analysis using ANCOVA revealed a significant age-group x biomarker profile interaction in association with systolic blood pressure values, $F(3,834)=3.47$, $p=.02$. Age-stratified analyses indicated simple main effects of biomarker profile on systolic blood pressure among the very-old, $F(3,133)=5.81$, $p=.001$. Post-hoc LSD analysis indicated that among the very-old, those who were both $A\beta_{1-42}$ and P-tau positive (Aβ+Ptau+) exhibited higher systolic blood pressure than the other biomarker profiles ($p<.001$ vs. Aβ-Ptau-; $p=.03$ vs. Aβ+Ptau-; $p=.07$ vs. Aβ-Ptau+). No significant simple main effects were observed among the young-old, $F(3,688)=.70$, $p=.55$.

Results of regression analyses indicated a significant age-group x systolic blood pressure interaction in association with $A\beta_{1-42}$ ($\Delta R^2=.003$, $\beta=-.47$, $p=.07$), but not P-tau ($\Delta R^2=.002$, $\beta=.40$, $p=.14$) or T-tau ($\Delta R^2<.001$, $\beta=.13$, $p=.62$). Age-stratified analyses indicated that higher systolic blood pressure was associated with lower CSF $A\beta_{1-42}$ concentrations in the very-old ($\Delta R^2=.038$, $\beta=-.20$, $p=.008$) but not the young-old ($\Delta R^2=.001$, $\beta=-.038$, $p=.26$).

Cox regression analyses indicated that higher systolic blood pressure was associated with more rapid progression to dementia among the very-old ($p=.02$, hazard ratio = 1.024), but not the young-old ($p=.98$).

**Diastolic Blood Pressure**
Biomarker profile analysis using ANCOVA revealed a significant age-group x biomarker profile interaction in association with diastolic blood pressure values, $F(3,834)=2.21$, $p=.09$. Age-stratified analyses indicated simple main effects of biomarker profile on diastolic blood pressure among the young-old, $F(3,688)=3.68$, $p=.01$. Post-hoc LSD analysis indicated that among the young-old, those who were P-tau positive only (Aβ-Ptau+) exhibited lower diastolic blood pressure than all other biomarker profiles ($p=.002$ vs. Aβ-Ptau-; $p=.02$ vs. Aβ+Ptau-; $p=.02$ vs. Aβ+Ptau+). No significant simple main effects were observed among the very-old, $F(3,133)=1.06$, $p=.36$.

Results of regression analyses indicated a significant age-group x diastolic blood pressure interaction in association with P-tau ($\Delta R^2=.003$, $\beta=.47$, $p=.08$), but not T-tau ($\Delta R^2=.001$, $\beta=.23$, $p=.38$) or $A\beta_{1-42}$ ($\Delta R^2=.001$, $\beta=-.17$, $p=.41$). Age-stratified analyses revealed a nonsignificant trend toward lower diastolic blood pressure being associated with higher P-tau levels in the young-old ($\Delta R^2=.004$, $\beta=-.063$, $p=.08$) but not the very-old ($\Delta R^2=.005$, $\beta=.07$, $p=.41$).

Cox regression analyses indicated that no significant association between diastolic blood pressure and progression to dementia among either age-group ($p=.65$ for young-old; $p=.10$ for very-old).

**Mean Arterial Blood Pressure**
Biomarker profile analysis using ANCOVA revealed a significant age-group x biomarker profile interaction in association with mean arterial pressure values, $F(3,834)=3.30$, $p=.02$. Age-stratified analyses indicated simple main effects of biomarker profile on mean arterial pressure among the very-old, $F(3,133)=3.67$, $p=.01$. Post-hoc LSD analysis indicated that among the very-old, those who were both $A\beta_{1-42}$ and P-tau positive (Aβ+Ptau+) showed higher mean arterial pressure than those exhibiting isolated $A\beta_{1-42}$ elevation or no biomarker positivity ($p=.005$ vs. Aβ-Ptau-; $p=.04$ vs. Aβ+Ptau-), with intermediate values being observed in those exhibiting isolated P-tau elevation (Aβ-Ptau+). No significant simple main effects were observed among the young-old, $F(3,688)=1.62$, $p=.18$.

Results of regression analyses indicated a significant age-group x mean arterial blood pressure interaction in association with P-tau ($\Delta R^2=.004$, $\beta=.59$, $p=.048$), non-significant evidence of an interaction for $A\beta_{1-42}$ ($\Delta R^2=.002$, $\beta=-.42$, $p=.14$) and no evidence for an interaction with T-tau ($\Delta R^2=.001$, $\beta=.29$, $p=.31$). Age-stratified analyses indicated that higher mean arterial blood pressure was associated with lower CSF $A\beta_{1-42}$ concentrations in the very-old ($\Delta R^2=.024$, $\beta=-.16$, $p=.034$) but not the young-old ($\Delta R^2=.003$, $\beta=-.054$, $p=.11$). The same analyses indicated no relationship between MAP and P-tau in either the very-old ($\Delta R^2=.018$, $\beta=.14$, $p=.10$) or the young-old ($\Delta R^2=.001$, $\beta=-.024$, $p=.51$), with similarly null findings for T-tau: very-old ($\Delta R^2=.004$, $\beta=.063$, $p=.44$) and young-old ($\Delta R^2<.001$, $\beta=-.016$, $p=.65$).

Cox regression analyses indicated that higher mean arterial blood pressure was associated with more rapid progression to dementia among the very-old ($p=.02$, hazard ratio = 1.042), but not the young-old ($p=.98$).