



Featured Article

Prevalence of the apolipoprotein E $\epsilon 4$ allele in amyloid β positive subjects across the spectrum of Alzheimer's disease

Niklas Mattsson ^{a,*}, Colin Groot ^b, Willemijn J. Jansen ^c, Susan Landau ^d, Victor Villemagne ^e,
 Sebastiaan Engelborghs ^f, Mark Mintun ^g, Alberto Lleo ^h, José Luis Molinuevo ⁱ, William Jagust ^d,
 Giovanni B. Frisoni ^{j,k}, Adrian Ivanoiu ^l, Gaël Chételat ^m, Catarina Resende de Oliveira ⁿ,
 Karen M. Rodrigue ^o, Johannes Kornhuber ^p, Anders Wallin ^q, Aleksandra Klimkowicz-Mrowiec ^r,
 Ramesh Kandimella ^s, Julius Popp ^t, Pauline P. Aalten ^c, Dag Aarsland ^u, Daniel Alcolea ^h,
 Ina S. Almdahl ^v, Inês Baldeiras ⁿ, Mark A. van Buchem ^w, Enrica Cavedo ^{k,x}, Kewei Chen ^y,
 Ann D. Cohen ^z, Stefan Förster ^{aa}, Juan Fortea ^h, Kristian S. Frederiksen ^{bb}, Yvonne Freund-Levi ^{cc},
 Kiran Dip Gill ^s, Olympia Gkatzima ^{dd}, Timo Grimmer ^{ee}, Harald Hampel ^{xx,ff},
 Sanna-Kaisa Herukka ^{gg}, Peter Johannsen ^{hh}, Koen van Laere ⁱⁱ, Mony de Leon ^{jj}, Wolfgang Maier ^{kk},
 Jan Marcusson ^{ll}, Olga Meulenbroek ^{mm}, Hanne M. Møllergård ^v, John C. Morris ⁿⁿ,
 Barbara Mroczko ^{oo}, Arto Nordlund ^q, Sudesh Prabhakar ^{pp}, Oliver Peters ^{qq}, Lorena Rami ⁱ,
 Eloy Rodríguez-Rodríguez ^{rr}, Catherine M. Roe ⁿⁿ, Eckart Rüther ^{ss}, Isabel Santana ⁿ,
 Johannes Schröder ^{tt}, Sang W. Seo ^{uu}, Hilkka Soininen ^{gg}, Luiza Spiru ^{vv}, Erik Stomrud ^a,
 Hanne Struyfs ^f, Charlotte E. Teunissen ^{ww}, Frans R. J. Verhey ^c, Stephanie J. B. Vos ^c,
 Linda J. C. van Waalwijk van Doorn ^{xx,yy}, Gunhild Waldemar ^{bb}, Åsa K. Wallin ^a, Jens Wiltfang ^{ss,zz},
 Rik Vandenberghe ^{aaa}, David J. Brooks ^{bbb}, Tormod Fladby ^v, Christopher C. Rowe ^e,
 Alexander Drzezga ^{ccc}, Marcel M. Verbeek ^{xx,yy}, Marie Sarazin ^{ddd}, David A. Wolk ^{eee},
 Adam S. Fleisher ^{y,fff,ggg}, William E. Klunk ^z, Duk L. Na ^{uu}, Pascual Sánchez-Juan ^{rr},
 Dong Young Lee ^{hh}, Agneta Nordberg ⁱⁱⁱ, Magda Tsolaki ^{dd}, Vincent Camus ^{jjj}, Juha O. Rinne ^{kk},
 Anne M. Fagan ⁿⁿ, Henrik Zetterberg ^{lll,mmm,nnn,ooo}, Kaj Blennow ^{nnn,ooo}, Gil D. Rabinovici ^{ppp},
 Oskar Hansson ^a, Bart N. M. van Berckel ^{qqq}, Wiesje M. van der Flier ^{b,rrr}, Philip Scheltens ^b,
 Pieter Jelle Visser ^{b,c}, Rik Ossenkoppele ^{a,b,qqq,**}

^aClinical Memory Research Unit, Clinical Sciences Malmö, Lund University, Lund, Sweden

^bDepartment of Neurology and Alzheimer Center, VU University Medical Center, Neuroscience Campus Amsterdam, Amsterdam, the Netherlands

^cDepartment of Psychiatry and Neuropsychology, School for Mental Health and Neuroscience, Alzheimer Center Limburg, Maastricht University, Maastricht, the Netherlands

^dHelen Wills Neuroscience Institute, University of California, Berkeley, CA, USA

^eDepartment of Nuclear Medicine and Centre for PET, Austin Health, Melbourne, Australia

^fReference Center for Biological Markers of Dementia (BIODEM), University of Antwerp, Antwerp, Belgium

^gAvid Radiopharmaceuticals, Philadelphia, PA, USA

^hNeurology Department, Hospital de Sant Pau, Barcelona, Spain

ⁱAlzheimer's Disease and Other Cognitive Disorders Unit, IDIBAPS, Clinic University Hospital, Barcelona, Spain

³Memory Clinic and LANVIE- Laboratory of Neuroimaging of Aging, University Hospitals, and University of Geneva, Geneva, Switzerland

^aLaboratory of Alzheimer's Neuroimaging and Epidemiology, IRCCS Centro San Giovanni di Dio Fatebenefratelli, Brescia, Italy

*Corresponding author. Tel.: ■■■; Fax: ■■■.

E-mail address: niklas.mattsson@med.lu.se (N.M.), r.ossenkoppele@mc.nl (R.O.)

**Corresponding author. Tel.: ■■■; Fax: ■■■.

- 110 ¹Memory Clinic and Neurochemistry Laboratory, Saint Luc University Hospital, Institute of Neuroscience, Université catholique de Louvain, Brussels, Belgium
 111 ^mInserm, Inserm UMR-S U1237, Université de Caen-Normandie, GIP Cyceron, Caen, France
 112 ⁿCenter for Neuroscience and Cell Biology, Faculty of Medicine, Centro Hospitalar e Universitário de Coimbra, Portugal
 113 ^oCenter for Vital Longevity, School of Behavioral and Brain Sciences, The University of Texas at Dallas, Dallas, TX, USA
 114 ^pDepartment of Psychiatry and Psychotherapy, Friedrich-Alexander University of Erlangen-Nuremberg, Erlangen, Germany
 115 ^qInstitute of Neuroscience and Physiology, Sahlgrenska Academy at University of Gothenburg, Mölndal, Sweden
 116 ^rJagiellonian University College of Medicine, Krakow, Poland
 117 ^sPostgraduate Institute of Medical Education and Research (PGIMER), Department of Biochemistry, Research Block-A, Chandigarh, India
 118 ^tDepartment of Psychiatry, Service of Old Age Psychiatry, University Hospital of Lausanne, Lausanne, Switzerland
 119 ^uCenter for Age-Related Medicine, Stavanger University Hospital, Stavanger, Norway
 120 ^vDepartment of Neurology, Akershus University Hospital, Lørenskog, Norway
 121 ^wDepartment of Radiology, Leiden University Medical Center, Leiden, the Netherlands
 122 ^xAXA Research Fund & UPMC Chair, Sorbonne Universités, Université Pierre et Marie Curie (UPMC) Paris 06, Inserm, CNRS, Institut du Cerveau et de la
 123 Moelle Épinière (ICM), Département de Neurologie, Institut de la Mémoire et de la Maladie d'Alzheimer (IM2A), Hôpital Pitié-Salpêtrière, Paris, France
 124 ^yBanner Alzheimer's Institute, Phoenix, AZ, USA
 125 ^zUniversity of Pittsburgh School of Medicine, Department of Psychiatry, Pittsburgh, PA, USA
 126 ^{aa}Department of Nuclear Medicine, Technische Universität München, Munich, Germany
 127 ^{bb}Danish Dementia Research Center, Department of Neurology, Rigshospitalet, University of Copenhagen, Copenhagen, Denmark
 128 ^{cc}Department of Geriatrics, Karolinska University Hospital Huddinge, Section of Clinical Geriatrics, Institution of NVS, Karolinska Institutet,
 129 Stockholm, Sweden
 130 ^{dd}Third Department of Neurology, Aristotle University of Thessaloniki, Thessaloniki, Greece
 131 ^{ee}Department of Psychiatry and Psychotherapy, Klinikum rechts der Isar der Technischen Universität München, Munich, Germany
 132 ^{ff}Department of Psychiatry, Alzheimer Memorial Center and Geriatric Psychiatry Branch, Ludwig-Maximilian University, Munich, Germany
 133 ^{gg}Department of Neurology, University of Eastern Finland and Kuopio University Hospital, Kuopio, Finland
 134 ^{hh}Memory Clinic, Danish Dementia Research Center, Rigshospitalet, Copenhagen, Denmark
 135 ⁱⁱDepartment of Imaging and Pathology, Catholic University Leuven, Leuven, Belgium
 136 ^{jj}School of Medicine, Center for Brain Health, New York University, New York, NY, USA
 137 ^{kk}Department of Psychiatry and Psychotherapy, University of Bonn, German Center for Neurodegenerative Diseases (DZNE), Bonn, Germany
 138 ^{ll}Geriatric Medicine, Department of Clinical and Experimental Medicine, University of Linköping, Linköping, Sweden
 139 ^{mm}Department of Geriatric Medicine, Radboud Alzheimer Center, Radboud University Medical Center, Nijmegen, the Netherlands
 140 ⁿⁿKnight Alzheimer's Disease Research Center, Department of Neurology, Washington University School of Medicine, St Louis, MO, USA
 141 ^{oo}Department of Neurodegeneration Diagnostics, Leading National Research Centre in Białystok (KNOW), Medical University of Białystok, Białystok, Poland
 142 ^{pp}Department of Neurology, Research Block-A, Chandigarh, India
 143 ^{qq}Department of Psychiatry and Psychotherapy, Charité Berlin, German Center for Neurodegenerative Diseases (DZNE), Berlin, Germany
 144 ^{rr}Neurology Service, Universitary Hospital Marqués de Valdecilla, CIBERNED, IDIVAL, Santander, Spain
 145 ^{ss}Department of Psychiatry and Psychotherapy, University Medical Center, Georg-August University, Göttingen, Germany
 146 ^{tt}Sektion Gerontopsychiatrie, Universität Heidelberg, Heidelberg, Germany
 147 ^{uu}Department of Neurology, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, South Korea
 148 ^{vv}Department of Geriatrics-Gerontology-Gerontopsychiatry, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania
 149 ^{ww}Neurochemistry Laboratory and Biobank, Department of Clinical Chemistry, Amsterdam Neuroscience, VU University Medical Center, Amsterdam,
 150 the Netherlands
 151 ^{xx}Department of Neurology, Donders Institute for Brain, Cognition and Behaviour, Radboud Alzheimer Center, Radboud University Medical Center, Nijmegen,
 152 the Netherlands
 153 ^{yy}Department of Laboratory Medicine, Donders Institute for Brain, Cognition and Behaviour, Radboud Alzheimer Center, Radboud University Medical Center,
 154 Nijmegen, the Netherlands
 155 ^{zz}Department of Psychiatry and Psychotherapy, University Medical Center, Georg-August University, Göttingen, Germany
 156 ^{aaa}Laboratory for Cognitive Neurology and Alzheimer Research Centre KU Leuven, Catholic University Leuven, Leuven, Belgium
 157 ^{bbb}Division of Neuroscience, Medical Research Council Clinical Sciences Centre, Imperial College London, London, UK
 158 ^{ccc}Department of Nuclear Medicine, University of Cologne, Cologne, Germany
 159 ^{ddd}Neurologie de la Mémoire et du Langage, Centre Hospitalier Sainte-Anne, Université Paris Descartes, Sorbonne Paris Cité, Paris, France
 160 ^{eee}Department of Neurology, University of Pennsylvania, Philadelphia, PA, USA
 161 ^{fff}Eli Lilly, Indianapolis, IN, USA
 162 ^{ggg}Department of Neurosciences, University of California, San Diego, CA, USA
 163 ^{hhh}Department of Neuropsychiatry, Seoul National University, College of Medicine, Seoul, South Korea
 164 ⁱⁱⁱDepartment NVS, Center for Alzheimer Research, Translational Alzheimer Neurobiology, Karolinska Institutet and Geriatric Medicine, Karolinska University
 165 Hospital, Stockholm, Sweden
 166 ^{jjj}CHRU de Tours, CIC INSERM 1415, INSERM U930, Université François Rabelais de Tours, Tours, France
 167 ^{kkk}Turku PET Centre and Division of Clinical Neurosciences Turku, University of Turku and Turku University Hospital, Turku, Finland
 168 ^{lll}Department of Molecular Neuroscience, UCL Institute of Neurology, Queen Square, London, UK
 169 ^{mmmm}UK Dementia Research Institute, London, UK
 170 ⁿⁿⁿⁿInstitute of Neuroscience and Physiology, Department of Psychiatry and Neurochemistry, The Sahlgrenska Academy at University of Gothenburg, Mölndal,
 171 Sweden
 172 ^{ooo}Sweden and Clinical Neurochemistry Laboratory, Sahlgrenska University Hospital, Mölndal, Sweden
 173 ^{ppp}Department of Neurology, Memory and Aging Center, University of California, San Francisco, CA, USA
 174 ^{qqq}Department of Radiology and Nuclear Medicine, VU University Medical Center, Neuroscience Campus Amsterdam, Amsterdam, the Netherlands
 175 ^{rrr}Department of Epidemiology and Biostatistics, VU University Medical Center, Amsterdam, the Netherlands
 176

Download English Version:

<https://daneshyari.com/en/article/8679901>

Download Persian Version:

<https://daneshyari.com/article/8679901>

[Daneshyari.com](https://daneshyari.com)