

The Atherosclerosis Risk in Communities Study

<https://www.neurodegenerationresearch.eu/cohort/the-atherosclerosis-risk-in-communities-study/>

Cohort Acronym

ARIC

Cohort type

General population-based cohort

Disease

Alzheimer's disease, Mild cognitive impairment (MCI), Parkinson's disease, Type of dementia/ND not specified, Vascular dementia

Participant type

No diagnosis

Profile

Recruitment Period 1987-1989

Sample size at start or planned sample size if still recruiting 7,400

Estimated Current Sample Size 5,000 to 9,999

Age at Recruitment 45-64

Gender Male and Female

Abstract

The Atherosclerosis Risk in Communities Study (ARIC) is a prospective epidemiologic study conducted in four U.S. communities. ARIC is designed to investigate the etiology and natural history of atherosclerosis, the etiology of clinical atherosclerotic diseases, and variation in cardiovascular risk factors, medical care and disease by race, gender, location, and date. Since 2011 a large ancillary study, the ARIC Neurocognitive Study (ARIC-NCS) has been assessing neurocognitive status and adjudicating possible cases of dementia.

Four ARIC field centers each randomly selected and recruited a cohort sample of approximately 4,000 individuals aged 45-64 from a defined population in their community. A total of 15,792 participants received an extensive baseline examination (visit 1, 1987-1989), including medical, social, and demographic data collection. Subsequent examinations occurred in 1990-92 (visit 2), 1993-95 (visit 3), 1996-98 (visit 4), 2011-2013 (visit 5) and 2016-2017 (visit 6). Visit 7 (2018-2019) is currently in progress. Follow-up occurs annually (semi-annually since 2012) by telephone to maintain contact with participants and to assess health status of the cohort.

Country USA

Contact details

Institution name University of North Carolina at Chapel Hill

Website <http://www2.csc.unc.edu/aric/>

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Funders (Core support) National Institutes of Health (NIH)

Variables Collected

Brain related measures:

N/A

Functional rating:

Individual psychological

Anthropometric:

Blood pressure, Height, Hip circumference, Waist circumference, Weight

Physical:

N/A

Biological samples:

Cardiovascular, Hearing and vision, Musculoskeletal, Reproductive, Respiratory

Genotyping:

Gene screening

Brain imaging:

Magnetic resonance imaging (MRI), Positron emission tomography (PET) - amyloid

Brain banking:

N/A

Lifestyle:

Alcohol, Dietary habits, Physical activity, Smoking

Socio-economic:

Education, Ethnic group, Family circumstances, Informal support, Marital status, Occupation and employment

Health service utilisation:

Formal health and social care service utilisation including private care