**Age and the association between Apolipoprotein E genotype and Alzheimer’s disease: a cerebrospinal fluid biomarker-based case-control study on white older adults.**

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|   | **Item No** | **Recommendation** | **Section** | **Paragraph No** |
| **Title and abstract** | 1 | (*a*) Indicate the study’s design with a commonly used term in the title or the abstract | Title | 1 |
| (*b*) Provide in the abstract an informative and balanced summary of what was done and what was found | Abstract | 2 |
| **Introduction** |   |   |
| Background/rationale | 2 | Explain the scientific background and rationale for the investigation being reported | Introduction | 2 |
| Objectives | 3 | State specific objectives, including any prespecified hypotheses | Introduction | 3 |
| **Methods** |   |   |
| Study design | 4 | Present key elements of study design early in the paper | Methods | 2, 3 |
| Setting | 5 | Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection | Methods | 2, 3 |
| Participants | 6 | (*a*) Give the eligibility criteria, and the sources and methods of case ascertainment and control selection. Give the rationale for the choice of cases and controls | Methods | 2, 3 |
| (*b*)For matched studies, give matching criteria and the number of controls per case |   |   |
| Variables | 7 | Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable | Methods | 5-7 |
| Data sources/ measurement | 8\* | For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there is more than one group | Methods | 5-7 |
| Bias | 9 | Describe any efforts to address potential sources of bias | Methods | 8 |
| Study size | 10 | Explain how the study size was arrived at | Methods | 2,3 |
| Quantitative variables | 11 | Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why | Methods | 8 |
| Statistical methods | 12 | (*a*) Describe all statistical methods, including those used to control for confounding | Methods | 8 |
| (*b*) Describe any methods used to examine subgroups and interactions | Methods | 8 |
| (*c*) Explain how missing data were addressed | Methods | 8 |
| (*d*) If applicable, explain how matching of cases and controls was addressed |   |   |
| (*e*) Describe any sensitivity analyses | Methods | 8 |
| **Results** |   |   |
| Participants | 13\* | (a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed | Results | 1 |
| (b) Give reasons for non-participation at each stage |   |   |
| (c) Consider use of a flow diagram |   |   |
| Descriptive data | 14\* | (a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders | Results | 1, table 1 |
| (b) Indicate number of participants with missing data for each variable of interest | Results | table 1 |
| Outcome data | 15\* | Report numbers in each exposure category, or summary measures of exposure | Results | 1, table , figure 2 |
| Main results | 16 | (*a*) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were included | Results | 3, Table 2, Figure 3 |
| (*b*) Report category boundaries when continuous variables were categorized |   |   |
| (*c*) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period |  |  |
| Other analyses | 17 | Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses | Results | 6, Figure 5 |
|   |   |
| **Discussion** |   |   |
| Key results | 18 | Summarise key results with reference to study objectives | Discussion | 1 |
| Limitations | 19 | Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias | Discussion | 7 |
| Interpretation | 20 | Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence | Discussion | 7 |
| Generalisability | 21 | Discuss the generalisability (external validity) of the study results | Discussion | 7 |
| **Other information** |   |   |
| Funding | 22 | Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on which the present article is based | Acknowledgment | 1 |