

AMYPAD Deliverable 6.14 Report on the Amyloid PET result disclosure study on SCD+ patients (M72)

Publishable Summary

Background. Individuals with subjective cognitive decline and clinical features increasing the likelihood of preclinical AD (SCD+) are at higher risk of developing dementia, and this risk is even more increased in amyloid-positive individuals. Some SCD+ individuals undergo amyloid-PET as part of research studies and frequently wish to know their amyloid status. However, the disclosure of a positive amyloid-PET result might have a negative impact on these individuals.

Aim. To assess the psychological impact of the amyloid-PET result disclosure in SCD+, and explore which variables are associated with a safer disclosure in amyloid-positive individuals. Methods. Participants were memory clinic patients with SCD+, recruited from 5 European memory clinics, and who underwent amyloid-PET as part of AMYPAD-DPMS. To investigate the psychological impact of the amyloid-PET result disclosure, we assessed disclosure related-distress using the Impact of Event Scale—Revised (IES-R, scores ≥33 indicate probable presence of a post-traumatic stress disorder (PTSD)), and anxiety and depression using the Hospital Anxiety and Depression scale (HADS, scores ≥15 indicate probable presence of severe mood disorder symptoms).

Results. Amyloid-positive SCD+ participants (n=27, age 70±8 years, 52% males, education 15±4 years, MMSE = 29±2) had higher IES-R total scores (median±lQR, 10±12 vs 0±2, p<0.001) and sub-scores (p<0.001) than amyloid-negative individuals (n=79, age 67±10 years, 58% males, education 15±5 years, MMSE = 29±2). We observed no differences between amyloid-positive and amyloid-negative patients in the HADS Anxiety (-1.0±4.8 vs - 2.0±3.5, p=0.058) and Depression -1.0±2.0 vs -1.0±3.0, p=0.461) deltas (score after disclosure – scores at baseline). In amyloid-positive SCD+, despite the small sample size, we observed that higher education was associated with lower disclosure-related distress (p=0.024) while the presence of study partner was associated with higher disclosure-related distress (p=0.030). No amyloid-positive SCD+ participants showed probable presence of PTSD or severe anxiety or depression symptoms at follow-up.

Conclusion. The disclosure of a positive amyloid-PET result to SCD+ was associated with a greater psychological impact, yet such impact did not reach the threshold for clinical concern.



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