

## A4 Amyloid PET Eligibility Methods

### Summary

Determinations regarding amyloid eligibility during A4 screening visits were made using an algorithm that incorporated both quantitative and qualitative review of the Amyvid PET scan. Given the novel approach and participant population, some refinements were made over the course of the enrollment period to the algorithm and related processes (e.g. qualitative read procedures and processing pipelines) to ensure that the population of interest for the study was being reliably identified. The most notable change to the algorithm was made towards the end of the first year of enrollment, to automatically include all participants with composite standardized uptake value ratio (SUVR) values greater than or equal to 1.15, regardless of the outcome of the qualitative read.

Because of the adjustments made to the eligibility algorithm over time, two amyloid PET datasets are now available to investigators:

- *imaging\_PET\_VA.csv*: contains the data used for eligibility, including the SUVR, clinical read, and final eligibility outcome.
- *imaging\_SUVR\_amyloid.csv*: contains quantitative results generated in a standard manner for all scans, regardless of what quantitative methods were used at the time of amyloid eligibility evaluation.

The *imaging\_PET\_VA.csv* file contains the following eligibility-related fields:

Field	Description
<i>pmod_suvr</i>	Composite_Summary value
<i>elig_vi_1</i>	Reader 1 eligibility assessment score
<i>elig_vi_2</i>	Reader 2 eligibility assessment score
<i>consensus</i>	Consensus result
<i>overall_score</i>	Indication whether the eligibility scan is positive or negative for betaamyloid. Score of negative indicates subject is not eligible.

See [imaging\\_SUVR\\_methods.pdf](#) for more details about quantitative methods.