Genetic Testing for Alzheimer's disease

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Definitions

Alzheimer's disease (AD) is a progressive and fatal form of dementia. AD can be idiopathic but is commonly associated with a family history as 40% of patients with AD have at least one other affected first-degree relative. Genes associated with AD include Amyloid AB precursor gene, apolipoprotein E gene, Presenilin 1 gene and Presenilin 2 gene. Genetic mutations are rare causes of AD and majority of cases present as late-onset. AD is clinically diagnosed by excluding other causes of senile dementia.

Guideline

Genetic testing for Alzheimer’s disease is considered investigational and not medically necessary for all indications of the disease.

Applicable Procedure Codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>81401</td>
<td>Molecular pathology procedure, Level 2 (eg, 2-10 SNPs, 1 methylated variant, or 1 somatic variant [typically using nonsequencing target variant analysis], or detection of a dynamic mutation disorder/triplet repeat)</td>
</tr>
<tr>
<td>81405</td>
<td>Molecular pathology procedure, Level 6 (eg, analysis of 6-10 exons by DNA sequence analysis, mutation scanning or duplication/deletion variants of 11-25 exons, regionally targeted cytogenomic array analysis)</td>
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<tr>
<td>81406</td>
<td>Molecular pathology procedure, Level 7 (eg, analysis of 11-25 exons by DNA sequence analysis, mutation scanning or duplication/deletion variants of 26-50 exons, cytogenomic array analysis for neoplasia)</td>
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<tr>
<td>83520</td>
<td>Immunoassay for analyte other than infectious agent antibody or infectious agent antigen; quantitative, not otherwise specified</td>
</tr>
<tr>
<td>84999</td>
<td>Unlisted chemistry procedure</td>
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<tr>
<td>53852</td>
<td>DNA analysis for APOE epsilon 4 allele for susceptibility to Alzheimer's disease</td>
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</tbody>
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 References


