American College of Medical Genetics and Genomics

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Codes: 81307, 8X003, 8X005, 8X004, 81XX6

81307: PALB2 (partner and localizer of BRCA2) (eg, breast and pancreatic cancer) gene analysis; full gene sequence

Public Comment	Rationale
81317, $676.50	• The methodology, resources, and amount of genetic material sequenced are comparable to that of 81317 (PMS2 full sequence analysis), and both assess germline cancer genes • 81307 (PALB2, full gene) currently has a lower NLA than 81308 (PALB2, known familial variant) even though 81307 requires sequencing of a considerably larger amount of genetic material for the same gene

8X003: TP53 (tumor protein 53) (eg, Li-Fraumeni syndrome) gene analysis; full gene sequence

Public Comment	**Rationale**
81298, $641.85	The methodology, resources, and amount of genetic material sequenced are comparable to that of 81298 (MSH6 full sequence analysis), and both assess germline cancer genes

8X005: TP53 (tumor protein 53) (eg, Li-Fraumeni syndrome) gene analysis; known familial variant

Public Comment	**Rationale**
81299, $308.00	The methodology, resources, and amount of genetic material sequenced are comparable to that of 81299 (MSH6 known familial variant), and both assess germline cancer genes

8X004: TP53 (tumor protein 53) (eg, Li-Fraumeni syndrome) gene analysis; targeted sequence analysis (eg, 4 oncology)

Public Comment	**Rationale**
81334, $329.51	The methodology, resources, and amount of genetic material sequenced are comparable to that of 81334 (RUNX1 targeted sequence analysis), and both assess cancer-related genes

81XX6: Epilepsy genomic sequence analysis panel, must include analyses for ALDH7A1, CACNA1A, CDKL5, CHD2, GABRG2, GRIN2A, KCNQ2, MECP2, PCDH19, POLG, PRRT2, SCN1A, SCN1B, SCN2A, SCN8A, SLC2A1, SLC9A6, STXBP1, SYNGAP1, TCF4, TPP1, TSC1, TSC2, and ZEB2

Public Comment	**Rationale**
81443, $2448.56	• The methodology, resources, and amount of genetic material sequenced are comparable to that of 81443 (severe inherited conditions, at least 15 genes), and both assess numerous genes associated with severe inherited conditions • Some of these genes on 81XX6 have gene-specific treatments