Gene Expression Profile Testing for Multiple Myeloma

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Definitions

| Gene expression | The process of transcribing DNA into messenger RNA (mRNA) and subsequent translation into proteins. |
| Gene expression profile assay (GEP) | Examines gene patterns in a tissue sample for actively producing mRNA and protein production and simultaneously measures the cellular levels of mRNA of a large number of genes. |
| Microarray-based gene expression profile (MyPRS) | A proposed method used to evaluate and manage individuals with multiple myeloma by risk stratifying individuals with newly diagnosed and relapsed multiple myeloma to guide treatment decisions. The ability to measure and analyze thousands of genes simultaneously in a single RNA sample; also referred to as gene expression microarray (GEM). |
| Multiple myeloma | A systemic malignancy characterized by accumulation of antibody secreting plasma cells derived from B cells in the bone marrow, leading to destruction of bone and failure of the bone marrow. Clinical manifestations of the disease include lytic bone lesions, hypercalcemia, anemia, immunodeficiency and renal insufficiency/failure. |

Related Medical Guidelines
- Genetic Counseling and Testing
- Gene Expression Profiling

Guideline

Gene expression profile testing for multiple myeloma is considered investigational and not medically necessary for all indications, including:

1. Risk stratification in individuals with newly diagnosed multiple myeloma
2. Determination of prognosis in individuals with relapsed multiple myeloma
Applicable Procedure Codes

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References


