

# Reimbursement for Molecular Cytogenomic Testing in the United States

A review of coverage, coding, and payment for molecular cytogenomic testing.

## Introduction

In 2012 the American Medical Association (AMA) established a new set of analyte-specific molecular pathology (MoPath) codes for laboratories to use in billing. Here, we review the current coverage, coding, and payment landscape for molecular cytogenomic testing.

## Coverage

Payer coverage of molecular cytogenomic testing is growing, but not yet widespread. A 2012 survey showed that 51% of private payer covered lives are associated with payers that have positive coverage policies for molecular cytogenomic testing, whereas 26% are insured by payers that have negative policies for this service (Figure 1). The remaining 23% are covered by payers that have not issued any formal policies for molecular cytogenomic testing. However, the absence of a coverage policy does not necessarily indicate non-coverage, but implies that the procedure may be covered if medical necessity can be justified.

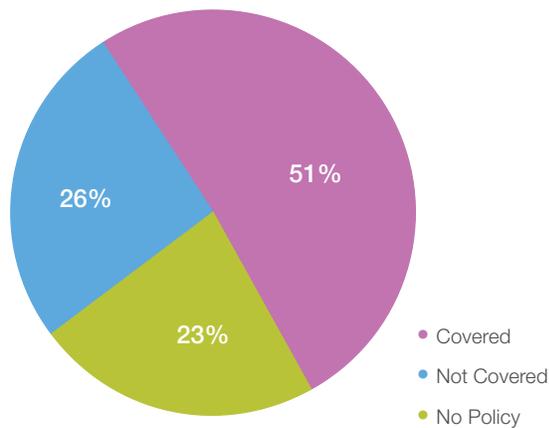
Based on private payer coverage guidelines, molecular cytogenomic testing to diagnose unexplained developmental delay, autism spectrum disorder (ASD), intellectual disability, or congenital anomalies, is generally covered for individuals who meet any of the following criteria:

- Children with apparent nonsyndromic cognitive delay
- Persons who have had inconclusive biochemical tests for metabolic disease
- *FMR1* gene analysis, when clinically indicated, is negative
- Children with certain malformations
- Results of the test will impact clinical management of the patients

The majority of state Medicaid agencies do not have policies specifically addressing coverage for molecular cytogenomic testing, but have general policies that cover laboratory services performed by CLIA-approved labs.

Local Medicare Administrative Contractors (MACs) have generally issued negative coverage policies for molecular cytogenomic testing, citing in their determination that it is statutorily excluded as a Medicare benefit.

**Figure 1: Private Payer Coverage by Number of Covered Lives**



Based on an analysis of n = 170,665,015 payers performed by Quorum Consulting in December 2012.

## Coding

There are two Current Procedural Terminology (CPT®)<sup>1</sup> codes for molecular cytogenomic testing, which are segmented by the types of genetic variants interrogated (Table 1). The following CPT codes are available for laboratories to use if they accurately describe the services performed for molecular cytogenomic testing. It is the responsibility of each laboratory to determine the most appropriate CPT codes to use when billing for their services.

**Table 1: MoPath Codes for Molecular Cytogenomic Testing**

CPT Code	Descriptor
81228	Cytogenomic constitutional (genome-wide) microarray analysis; interrogation of genomic regions for copy number variants (e.g., Bacterial Artificial Chromosome [BAC] or oligo-based comparative genomic hybridization [CGH] microarray analysis)
81229	Interrogation of genomic regions for copy number and single nucleotide polymorphism (SNP) variants for chromosomal abnormalities

