

## Emerging Healthcare Plan Coverage for Rapid Whole Genome Sequencing™



### The New Standard of Care

Multiple studies have shown that rapid Whole Genome Sequencing™ (rWGS®) can empower clinicians to make timely, precise diagnoses and treatment decisions for critically ill children with genetic diseases. For infants with rare conditions of unknown etiology, rWGS® can provide actionable, molecular diagnoses, enabling cost-effective patient care. Demonstrated benefits of rWGS® include expedited reporting of critical results, clinical certainty, improved outcomes, reduced costs and peace of mind for patient families.

### Rising Reimbursement

Opportunities are emerging for reimbursement of rWGS®. Already, Blue Cross Blue Shield in nine states (California, Florida, Idaho, Hawaii, New Jersey, Louisiana, Michigan, Mississippi and New York-Northeastern and Western plans) have adopted policies determining that rWGS® is medically necessary for critically ill children in Intensive Care Units with disorders of unknown etiology (Table 1).<sup>1</sup> In addition, several state Medicaid programs have declared rWGS a covered benefit. As of October 2022, those include Michigan, California, Minnesota, Louisiana, Maryland, and Oregon with some offering separate payment for rWGS (see next page).

## Public Insurance Coverage of rWGS

rWGS is a covered benefit in several State Medicaid Programs:

- Michigan Medicaid (Per [Lab Policy MSA 21-33](#), State Plan Amendment # [MI-21-0010](#)) – Effective September 1, 2021
- California Medi-Cal (Per [AB133](#) and reflected in [Provider Bulletin 573](#)) – Effective January 1, 2022
- Oregon Medicaid (Per [Prioritized Health Services List](#)) – Effective January 1, 2022
- Maryland Medicaid (Per [Lab Testing Policy](#)) – Effective January 1, 2022
- Minnesota Medicaid (Per [Lab & Pathology Services Provider Manual](#)) – Effective April 1, 2022
- Louisiana Medicaid (Per [SB 154](#)) – Effective August 1, 2022

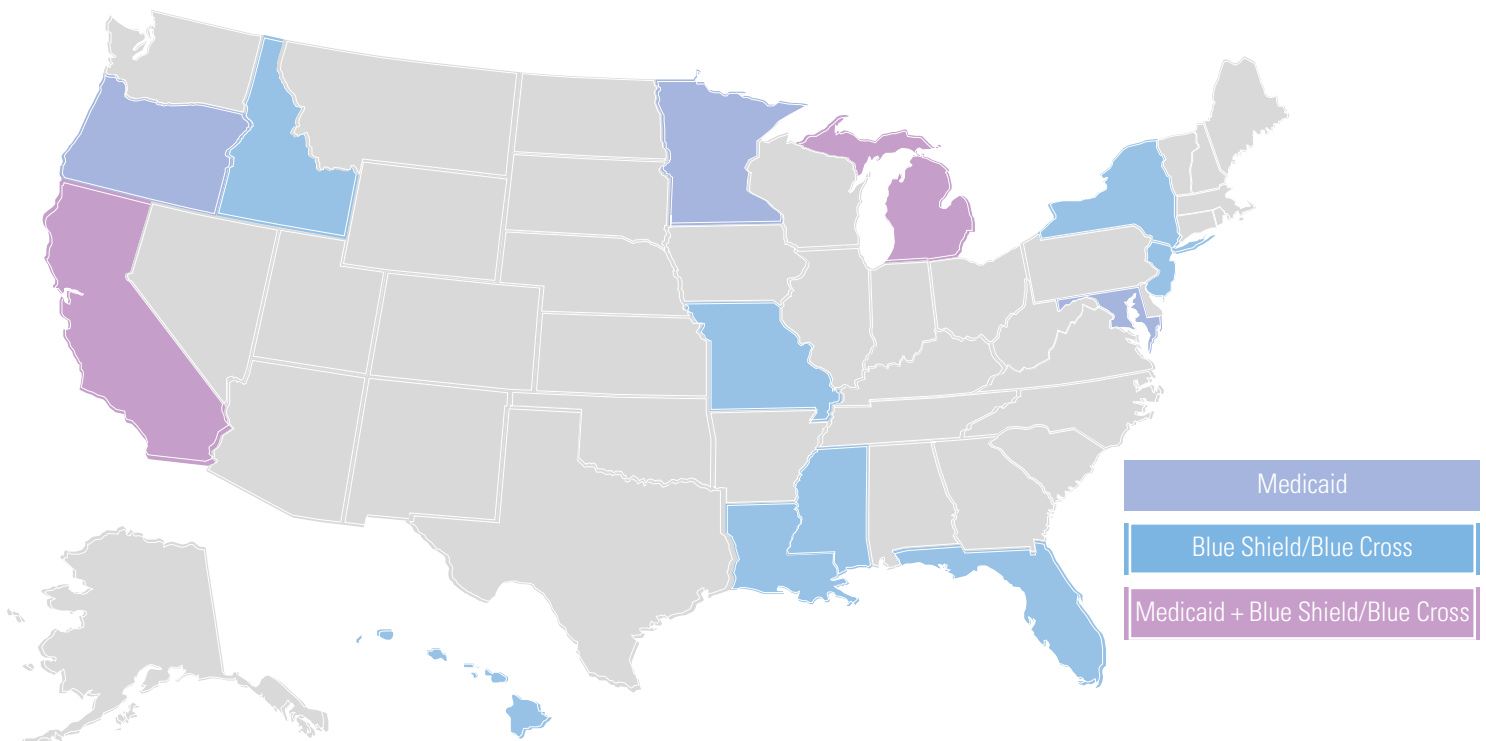
Separate payment outside of the inpatient bundled rate is indicated by Michigan Medicaid, Minnesota Medicaid MCHPs, and Louisiana Medicaid.

## Commercial Insurance Coverage of rWGS

Licenses of the Blues Association which cover rWGS:

- [BCBS Federal Employee Program](#) (Policy 2.04.102)
- [BCBS of HI - Hawaii Medical Service Association](#) (Policy MM.02.035)
- [BCBS of Louisiana](#) (Policy 00389)
- [BCBS of Michigan](#)
- [BCBS of Mississippi](#) (Policy A.2.04.102)
- [BCBS of Western New York](#) (Policy 204102)
- [Blue Cross of Idaho](#) (Policy MP 2.04.102)
- [Blue Shield of California](#) (Policy 2.04.102)
- [Blue Shield of Northeastern New York](#) (Policy 204102)
- [Florida Blue](#) (Policy 05-82000-28)
- [Horizon Blue New Jersey](#) (Policy 094)

Louisiana Senate Bill 154 ([SB 154](#)) also requires that all private health plans cover rWGS subject to medical necessity criteria.



## Clinical Utility and Cost Savings

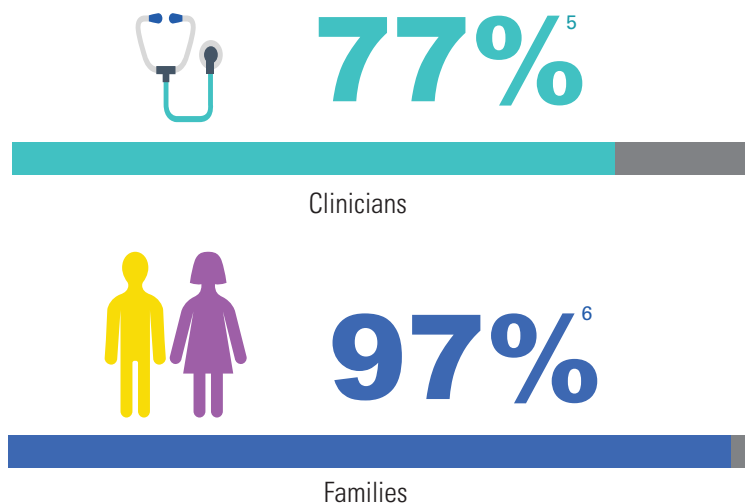
Annually, an estimated 60,000 children who could benefit from rWGS<sup>®</sup> are admitted to neonatal, pediatric or cardiovascular intensive care units.<sup>2</sup> In clinical studies, rWGS<sup>®</sup> has been shown to provide a diagnosis in 35% of cases, change in treatment in 27% and change in outcome for 17%.<sup>3</sup> Additionally, rWGS<sup>®</sup> can yield a substantial reduction in healthcare costs by eliminating the need for unnecessary tests, procedures and surgeries, and allowing for precision care and earlier hospital discharge.

Findings from California's Project Baby Bear<sup>®</sup> were modeled to show that if rWGS<sup>®</sup> were used to identify or rule out genetic disease for the pool of 60,000 children who might benefit, potential savings could total up to \$200M in yearly medical costs.<sup>4</sup>

## Clinicians and Families Both Value rWGS<sup>®</sup>

In a 2020 study, 77% of clinicians and 97% of families felt rWGS was beneficial,<sup>5</sup> despite a diagnostic rate of 23%, demonstrating that even a negative genome result provides useful clinical information (Figure 1).<sup>6</sup> Families reported that if given the opportunity, they would make the same decision and move forward with genome sequencing for their child.<sup>6</sup>

**Figure 1.** Support for the use of rWGS



## Getting Started with rWGS<sup>®</sup>

For most commercial and government payors, providing supplementary reimbursement for an inpatient genetic test is not yet standard. To identify the key infrastructure and resources required to provide rWGS<sup>®</sup> as a reimbursed clinical diagnostic test, RCIGM led a pilot project. We uncovered key elements to be considered with respect to inpatient ordering, authorization, electronic record integration, and billing. Important lessons learned regarding internal authorization and resource allocation processes are detailed below (Table 2). This information is intended to guide clinicians and administrators to navigate the hospital system, enabling access of rWGS<sup>®</sup> for patients.

## Transforming Healthcare Today

The power to improve lives through Rapid Precision Medicine<sup>™</sup> is here. Public and commercial payors are increasingly defining rWGS<sup>®</sup> as medically necessary. Improved patient outcomes and quality of life are now possible through cost-effective, precision care. Let us help you adopt the new standard of care.

## Ready to Get Started?

Contact RCIGM for resources on rWGS<sup>®</sup> to share with decision makers within your institution.

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