



# Rapid Whole Genome Sequencing (rWGS): Improves Patient Outcomes; Generates an ROI for Children's Hospitals; Increasing Coverage by Payors and Medicaid

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**Michael Vishnevetsky**  
SVP, Business Development,  
Fabric Genomics,  
Oakland, CA



# Today's Agenda

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- Introduction to Fabric Genomics
- Whole Genome Sequencing (WGS) review
- Impact of WGS in the NICU
- How can Fabric AI help me?
- Ultra Rapid WGS case study
- Reimbursement landscape

# Fabric Genomics

## Our mission

To make genomics-driven medicine a reality by leveraging AI to

- Facilitate scalability of testing
- Enhance accuracy and turn-around times
- Provide affordable solutions

 Bay-area based in Oakland, CA



# Mendelian diseases are a leading cause of NICU admission, mortality, & healthcare costs

## Rare Disease



- ~10,000 currently known single locus genetic diseases
- >50% rare diseases impact children

## NICU



- ~400,000 US NICU admissions per annum, costing >\$17B per annum
- 30% of admission to NICU are due to genetic conditions
- ~40% infant death in ICU are associated with single locus variants

## Treatment



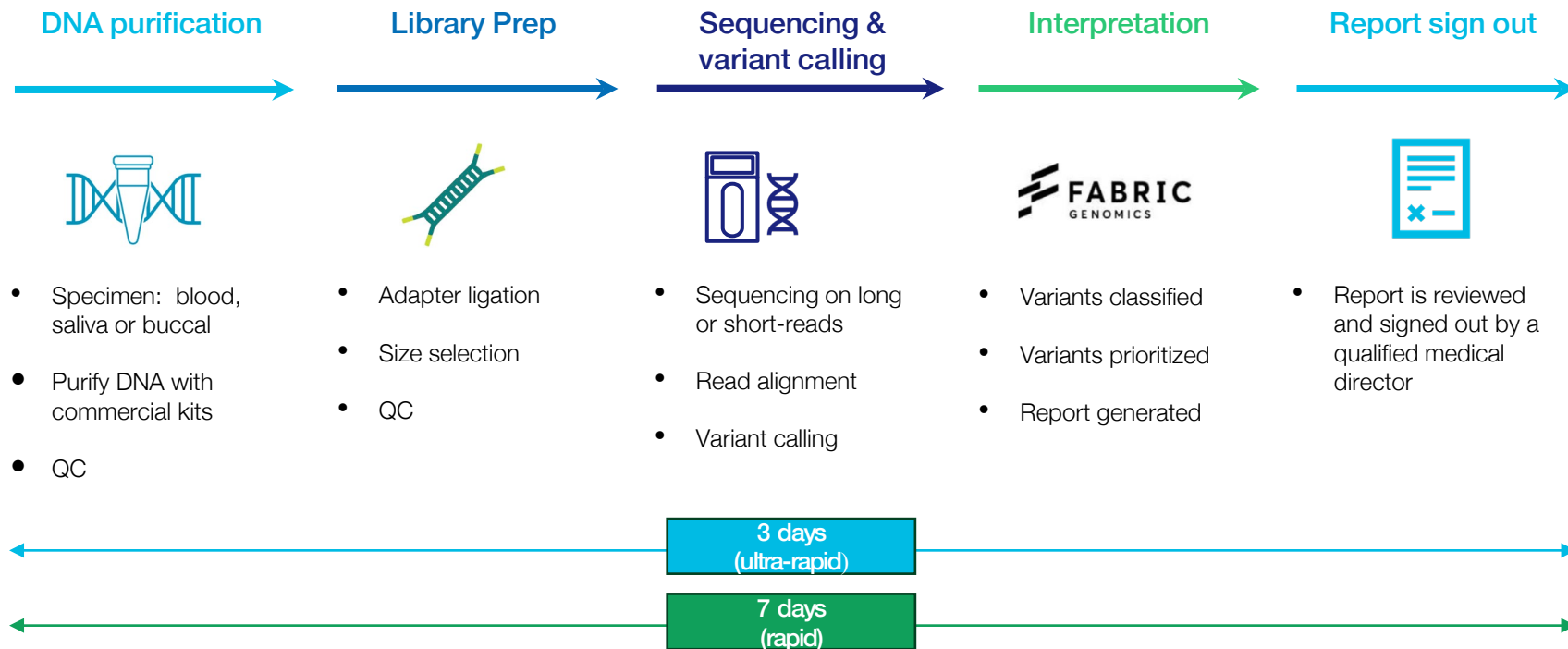
- Nearly 900 disorders caused by a single gene are known to be treatable

# Need for Rapid WGS Diagnosis in the NICU

- Genetic diseases are common the NICU setting
  - Structural birth defects (3-5%)
  - Inborn errors of metabolism (0.5%)
  - Neurodevelopmental disorders (3%)
  - Aneuploidy (0.3%)
- Leading cause of mortality in NICU and PICU\*
- Disease progression can be rapid in infants
  - Fast turnaround essential to impact management
  - *Speed matters*



# Whole Genome Sequencing (WGS) workflow

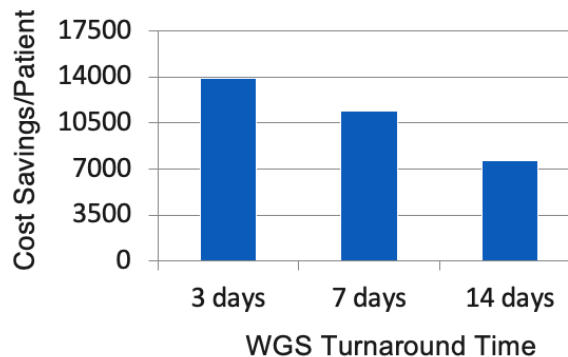


# Faster WGS equates to better care and cost savings in NICU

- **Diagnosis is critical for understanding prognosis, optimizing treatment, and estimating recurrence risks**

- The faster the molecular Dx, the greater impact on care / costs
- The time to act is short: NICU stays average 14-21 day
- Maximal cost savings of \$14,000 per child if rapid WGS is completed within 3 days

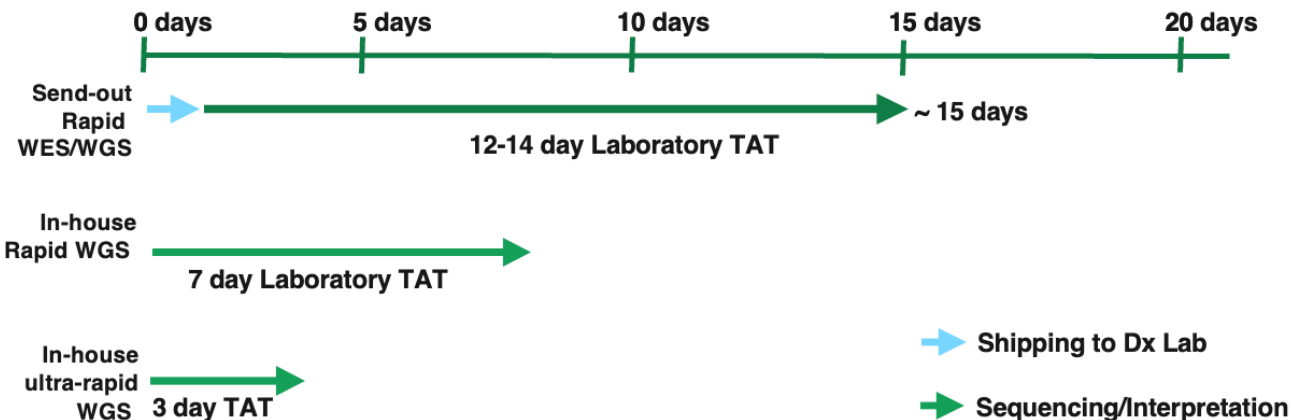
Test	Study Size	Dx Rate	Change in Management
<u>15 day WES/WGS</u>	894	37%	38%
<u>3.6 day WGS</u>	35	49%	58%



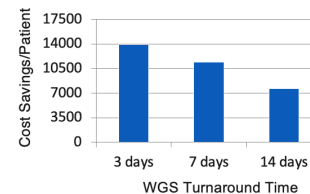
Dimmock,  
et al.  
AJHG  
2020,2021

# In-house (*on-site*) testing offers increased benefits

## Estimated time to initial WGS report (In house vs Send-out)



Test	Study Size	Dx Rate	Change in Management
15 day WES/WGS	894	37%	38%
3.6 day WGS	35	49%	58%



Dimmock, et al. AJHG 2020,2021

Both send out and In house testing result in change in management and reduced costs, but faster is better

Figure credit, S. Meyn, U. Wisconsin, ACMG Presentation 2024



# Benefits to bringing whole genome testing in-house



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## Patients

- ❖ Control of turn around time
- ❖ Especially for NICU cases
- ❖ Improved diagnostic yields than send outs with dynamic analysis/reporting
- ❖ Iterative phenotyping
- ❖ Periodic reanalysis

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## Hospital/healthcare system

- ❖ Lower cost
- ❖ Track test utilization
- ❖ 'Own' patient data for research

# Fabric Genomics products and services for whole genome sequencing (WGS)



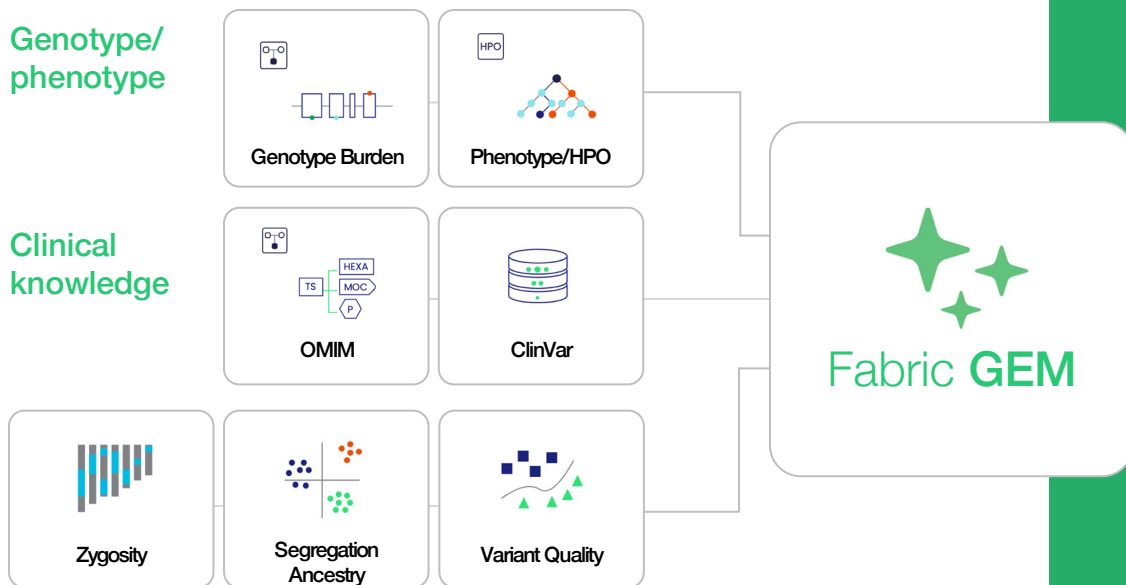
## Fabric Enterprise Software

AI-driven Clinical Software that transforms raw genome sequence data into high-quality, clinically meaningful insights

## Fabric Clinical Services

Expert interpretation services using Fabric Enterprise software  
CLIA CAP accredited

# Fabric GEM is an AI-based gene prioritization algorithm that considers multiple data sources



- ✓ Prioritizes putative causal variants
- ✓ Integrated analysis includes SNVs, indels, CNVs, SVs
- ✓ Explainable AI for genomes or exomes



Time saved can be spent on scaling samples and harder cases

# Fabric prioritizes variants including SNVs and CNVs from WGS data



The interface displays a pedigree chart on the left, followed by HPO terms and case information. The main panel shows a list of variants, with the top entry highlighted in green. Green callouts point to specific features: 'Deletion' points to the variant type, 'Link to CNV viewer' points to the 'VISUALIZE' button, 'Link to OMIM' points to the OMIM button, 'Size' points to the variant size information, and 'Ploidy' points to the ploidy information.

Variant Type	Gene	ENST ID	Condition	OMIM
Deletion	BMP2	ENST00000374580	PULMONARY HYPERTENSION, PRIMARY, DEXFENFLURAMINE-ASSOCIATED	OMIM
	PRSS56	ENST00000449534	MICROPHthalmia, Isolated 6	OMIM
	VWF	ENST00000261405	VON WILLEBRAND DISEASE, TYPE 1	OMIM
	KRT8	ENST00000552150	OMIM:118900	OMIM

**Deletion** | **Link to CNV viewer** | **Link to OMIM** | **Size** | **Ploidy**

DELETION chr2:203331706-203333064 VISUALIZE Length: 1359 Sites: 1 Ploidy: 1

**1** **BMP2** **ENST00000374580** **Condition:** PULMONARY HYPERTENSION, PRIMARY, DEXFENFLURAMINE-ASSOCIATED | + 1 MORE **OMIM**  
Autosomal Dominant

**0.9** **PRSS56** **ENST00000449534** **Condition:** MICROPHthalmia, Isolated 6 **OMIM**  
Autosomal Dominant

**0.7** **VWF** **ENST00000261405** **Condition:** VON WILLEBRAND DISEASE, TYPE 1 | + 2 MORE **OMIM**  
Autosomal Dominant

**0.5** **KRT8** **ENST00000552150** **Condition:** OMIM:118900 | + 1 MORE **OMIM**  
Autosomal Dominant

**HPO TERMS** **CASE INFO**

Epistaxis, Cardiomegaly, Right ventricular failure, Hemoptysis, Hepatomegaly, Tachypnea, Exertional dyspnea, Tricuspid regurgitation, Reduced systolic function, Fatigue, Wheezing, Pulmonary venous hypertension, Expiratory crackles, Pulmonary edema

# Fabric provides physician-ready clinical reports from WGS data

Fabric can generate comprehensive patient reports across multiple assays

Personalize reports with patient guides

Display detailed clinical curation results

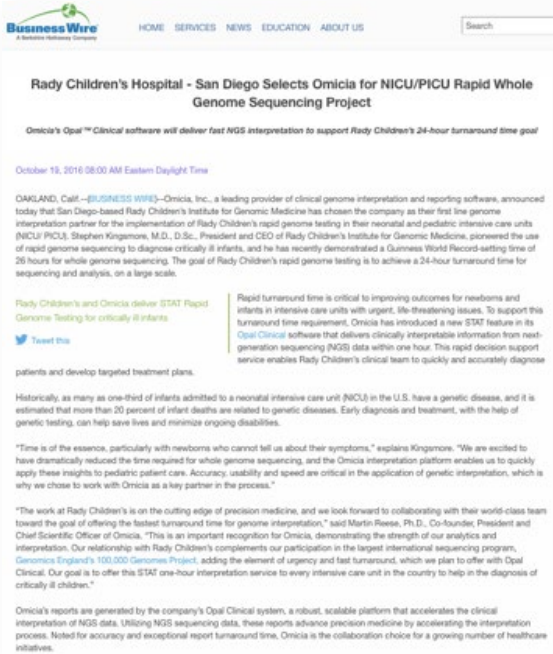
Generate comprehensive reports

Flexible delivery options

The image displays three examples of clinical reports generated by Fabric Genomics, illustrating the variety of assays and the comprehensive nature of the reports.

- My Lab Report (Left):** A report for a Hereditary Breast Cancer panel. It includes patient information, a test result indicating a pathogenic variant in the BRCA1 gene, and a primary findings summary.
- Interim Precision Report (Middle):** A report for a HereditGene™ Breast Cancer panel. It includes patient information, a test result indicating a positive result for a pathogenic variant in the CHEK2 gene, and a primary findings summary.
- WES Trio Report (Right):** A report for a WES Trio panel. It includes patient information, a test result indicating a positive result for a pathogenic variant in the CHEK2 gene, and a primary findings summary.

# Case study: Rady Children's Hospital STAT pediatric clinical genome



**Business Wire** HOME SERVICES NEWS EDUCATION ABOUT US Search

## Rady Children's Hospital - San Diego Selects Omica for NICU/PICU Rapid Whole Genome Sequencing Project

Omica's Opal™ Clinical software will deliver fast NGS interpretation to support Rady Children's 24-hour turnaround time goal

October 18, 2016 06:00 AM Eastern Daylight Time

OMLAND, Calif.—(BUSINESS WIRE)—Omica, Inc., a leading provider of clinical genome interpretation and reporting software, announced today that San Diego-based Rady Children's Institute for Genomic Medicine has chosen the company as their first line genome interpretation partner for the implementation of Rady Children's rapid genome testing in their neonatal and pediatric intensive care units (NICU/PICU). Stephen Kingsmore, M.D., D.Sc., President and CEO of Rady Children's Institute for Genomic Medicine, pioneered the use of rapid genome sequencing to diagnose critically ill infants, and he has recently demonstrated a Guinness World Record-setting time of 26 hours for whole genome sequencing. The goal of Rady Children's rapid genome testing is to achieve a 24-hour turnaround time for sequencing and analysis, on a large scale.

Rady Children's and Omica deliver STAT Rapid Genome Testing for critically ill infants

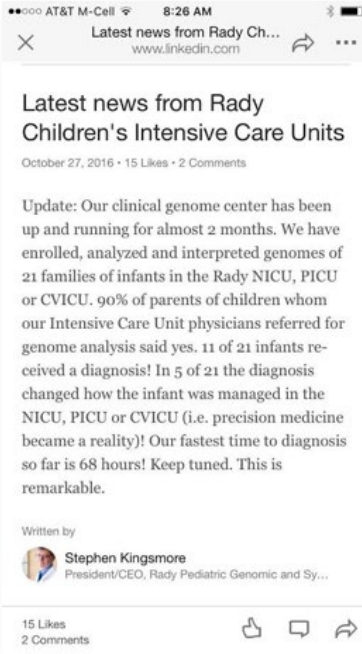
Rapid turnaround time is critical to improving outcomes for newborns and infants in intensive care units with urgent, life-threatening issues. To support this turnaround time requirement, Omica has introduced a new STAT feature in its Opal Clinical software that delivers clinically interpretable information from next-generation sequencing (NGS) data within one hour. This rapid decision support service enables Rady Children's clinical team to quickly and accurately diagnose patients and develop targeted treatment plans.

Historically, as many as one-third of infants admitted to a neonatal intensive care unit (NICU) in the U.S. have a genetic disease, and it is estimated that more than 20 percent of infant deaths are related to genetic diseases. Early diagnosis and treatment, with the help of genetic testing, can help save lives and minimize ongoing disabilities.

"Time is of the essence, particularly with newborns who cannot tell us about their symptoms," explains Kingsmore. "We are excited to have dramatically reduced the time required for whole genome sequencing, and the Omica interpretation platform enables us to quickly apply these insights to pediatric patient care. Accuracy, usability and speed are critical in the application of genetic interpretation, which is why we chose to work with Omica as a key partner in the process."

"The work at Rady Children's is on the cutting edge of precision medicine, and we look forward to collaborating with their world-class team toward the goal of offering the fastest turnaround time for genome interpretation," said Martin Reese, Ph.D., Co-founder, President and Chief Scientific Officer of Omica. "This is an important recognition for Omica, demonstrating the strength of our analytics and interpretation. Our relationship with Rady Children's complements our participation in the largest international sequencing program, Genomics England's 100,000 Genomes Project, adding the element of urgency and fast turnaround, which we plan to offer with Opal Clinical. Our goal is to offer this STAT one-hour interpretation service to every intensive care unit in the country to help in the diagnosis of critically ill children."

Omica's reports are generated by the company's Opal Clinical system, a robust, scalable platform that accelerates the clinical interpretation of NGS data. Utilizing NGS sequencing data, these reports advance precision medicine by accelerating the interpretation process. Noted for accuracy and exceptional report turnaround time, Omica is the collaboration choice for a growing number of healthcare initiatives.



AT&T M-Cell 8:26 AM


Latest news from Rady Ch...  
www.linkedin.com

## Latest news from Rady Children's Intensive Care Units

October 27, 2016 • 15 Likes • 2 Comments

Update: Our clinical genome center has been up and running for almost 2 months. We have enrolled, analyzed and interpreted genomes of 21 families of infants in the Rady NICU, PICU or CVICU. 90% of parents of children whom our Intensive Care Unit physicians referred for genome analysis said yes. 11 of 21 infants received a diagnosis! In 5 of 21 the diagnosis changed how the infant was managed in the NICU, PICU or CVICU (i.e. precision medicine became a reality)! Our fastest time to diagnosis so far is 68 hours! Keep tuned. This is remarkable.

Written by

 **Stephen Kingsmore**  
President/CEO, Rady Pediatric Genomic and Sys...

15 Likes  
2 Comments



## 40-52% Diagnosis rate

THE JOURNAL OF THE PRECISION MEDICINE SOCIETY OF AMERICA

**Dr. Stephen Kingsmore - A Vision for Transforming Medicine with Rapid Genome Sequencing (Part 1)**

Dr. Stephen Kingsmore, M.D., D.Sc., is the President and CEO of the Rady Pediatric Genomic and Systems Medicine Institute. Dr. Kingsmore is also the Precision and OPD of the Rady Pediatric Genomic and Systems Medicine Institute. Dr. Kingsmore is also the...  
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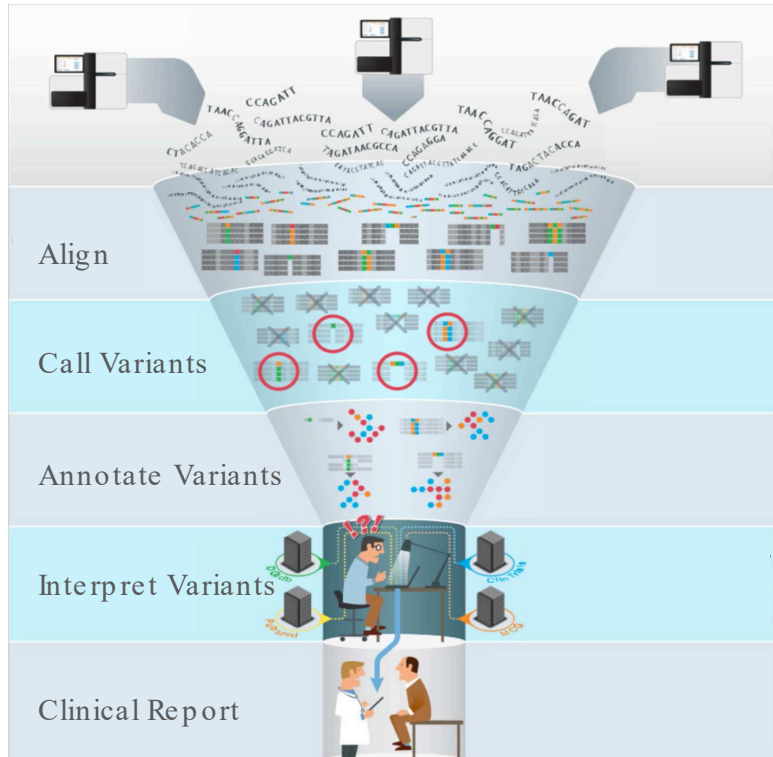
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**Save the Date**

2017 ANNUAL PRECISION MEDICINE SOCIETY OF AMERICA LEADERS SUMMIT  
AUGUST 31-SEPTEMBER 1, 2017  
MILWAUKEE, WISCONSIN

# Ultra Rapid genome interpretation workflow



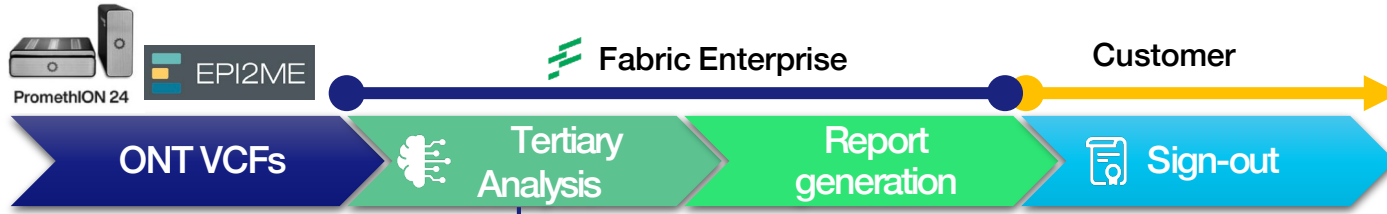
## Turn Around Time

Industry Std.	Fabric/Rady rWGS
26-72 h	16-24 h
2-8 h	0.5 h
>1 h	0.25 h
>2 h	<1 h
10-48 h	<1 h      Days → Minutes
3-6 h	<2 h
Total: 2-6+ days	21-33 h

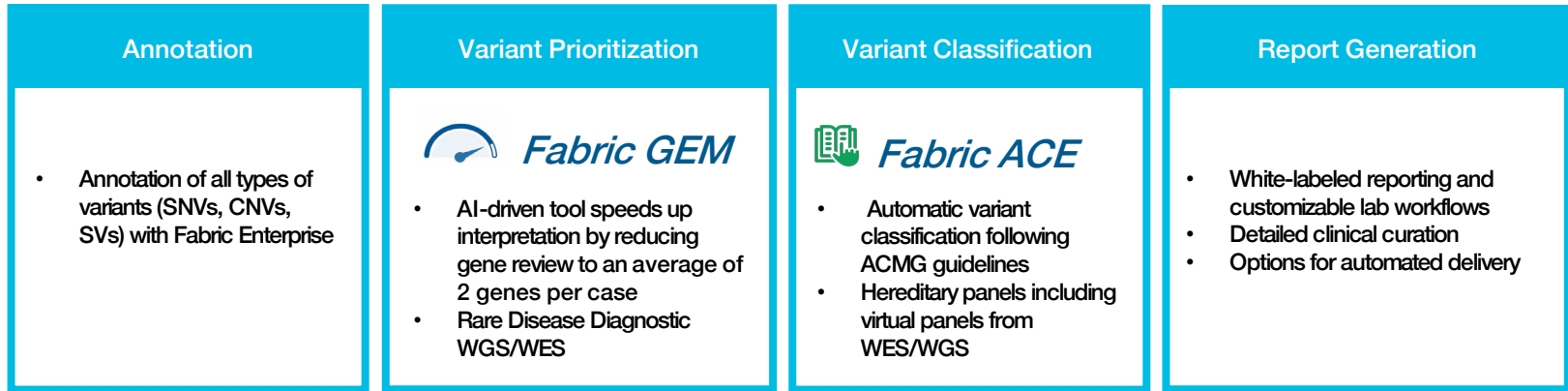


Adapted from: Good, B. M., Ainscough, B. J., McMichael, J. F., Su, A. I. & Griffith, O. L. Organizing knowledge to enable personalization of medicine in cancer. Genome Biology 15, 438 (2014).

# Fabric Genomics and ONT: A new decentralized AI-driven solution for rapid NICU testing



## Fabric Enterprise Software performs



<2 hrs



# A complete and accessible long-read solution for rWGS



ONT PromethION

EPI2ME

Fabric Enterprise software HIPAA and ISO 27001 certified



## Sequencing

- Sample prep
- Sequencing

## Variant Calling

- Variant alignment
- Variant calling

## Variant Prioritization and Classification

- Fabric GEM AI
- Fabric ACE: automated variant classifications

## Custom Reports

- Custom Reports per Customer Specifications
- Integration with customer systems



PromethION Project Packs are structured as a reagent purchase with an instrument included. This enables users wishing to get started with PromethION to do so with minimal commitment.

# Long-Read rWGS results from ACMG 2024



Clinical cohort: 9 trios from the UW UDP ( 3 “positive controls” + 6 undiagnosed after NGS WES/WGS)

## Results:

All positive controls detected

Variants types

tested:

2 point mutations

1 large deletion



Case	Result	Variants	Associated condition
11	Positive	15q11-q13 del	Prader-Willi syndrome
10	Inconclusive	NDUFAF6 p.Asn162IlefsTer27 DARS2 c.492+2T>C	Mitochondrial complex I deficiency Leukoencephalopathy
9	Positive	PMM2 p.Phe119Leu PMM2 p.Phe157Ser	Congenital disorder of glycosylation
8	Positive	EMC1 p.Pro582Arg	Cerebellar atrophy, visual impairment, and psychomotor delay
7	Inconclusive	BLM p.Leu394GlyfsTer23	Bloom syndrome
6	Negative	Negative	
5	Negative	Negative	
4	Negative	Negative	
3	Inconclusive	ADGRV1 p.Asn319LysfsTer6 ARSA p.Pro428Leu	Usher syndrome Metachromatic leukodystrophy

Data from: S. Meyn, U. Wisconsin, ACMG Presentation 2024

# Prader-Willi case study from ACMG 2024

## Fabric Trio #11: Prader-Willi Syndrome

9 year old boy with neonatal hypotonia, failure to thrive, developmental delays, sleep apnea, cryptorchidism, submucous cleft palate, high myopia, prognathia, scoliosis

Fabric GEM analysis: 8.5 Mb pathogenic deletion encompassing the 15q11.2-15q13.1 critical region for Prader Willi syndrome

Report generated

POWERED BY FABRIC ENTERPRISE™

**FABRIC GENOMICS™**

Patient | Specimen | Ordering Physician

Patient Name: \_\_\_\_\_  
Accession ID: \_\_\_\_\_  
UIDP: rapid\_03042024\_11-1  
Sex: Male  
Report Date: Not yet approved

**Test Result**

**⊕ Positive Result** Pathogenic/Likely pathogenic variant(s) detected.

**Result Summary:**  
This individual is heterozygous for a deletion encompassing 15q11.2-q13.1. Disease-causing variants in this gene are associated with Prader-Willi syndrome, which is consistent with this individual's reported clinical features.

**Primary Findings**

GENES	VARIANT	SIZE	ZYGOSITY/CNV COPY NUMBER	CLASSIFICATION
26 Genes	chr15:23500001-32000000	8.5 MB 0,del	Heterozygous	Pathogenic

**8.5 MB DEL chr15:23500001-32000000**

**Variant Description:**  
A Pathogenic 8.5 MB DEL chr15:23500001-32000000 was detected. This single copy loss of a 8.5 Mb genomic fragment spans cytoband 15q11.2-q13.1 (chr5:23500001-32000000) and encompasses many genes including the UBE3A, SNRPN, MAGEL2, MKRN3, and SNURF genes. This variant is not present in gnomAD or DGV databases. This variant has 66% overlap with a 5.6 Mb copy number deletion variant (chr15:22876632-28557186) which is classified as pathogenic and has been associated with 15q11.2-q13.1 deletion syndrome in ClinGen database (Variant ID: nsv1184533). Several similar-sized copy number deletion variants overlapping with 15q11.2-q13.1 have been reported as pathogenic or likely pathogenic in individuals with the clinical features of Prader-Willi syndrome/Angelman syndrome in DECIPHER (Patient ID: 290887, 331916, 288738, 368668) and also in ClinVar (Variation IDs: 57191, 1180527, 411725, 411569, 151256, 56599, 151262, 153993). According to the ClinGen dosage sensitivity calculation, there is sufficient evidence of dosage pathogenicity associated with haploinsufficiency of this region (ClinGen: ISCA-37404). Copy number deletion variants encompassing 15q11-q13 region exhibit parent-of-origin effect. Paternal deletion encompassing this region causes Prader-Willi syndrome, while maternal deletion variants encompassing this region causes Angelman syndrome. These variants are usually de-novo; however, rare familial transmission has also been reported (OMIM: 14993551). These data were assessed using the ACMG/ClinGen copy number variant interpretation guidelines. In summary, there is sufficient evidence to classify this variant as Pathogenic for the autosomal dominant 15q11.2-q13.1 deletion syndrome.

Fabric Genomics  
436 14th St Suite 1300, Oakland, CA 94612  
(510) 595-0800 | fabricgenomics.com

page 1 of 2

# Fabric and Broad Clinical Labs partner to deliver \$1,000 sample to report CLIA whole genome sequencing service



CLIA sequencing at  
Broad Clinical Labs



Interpretation by  
Fabric Clinical



Review and report  
sign-out by Broad  
Clinical Labs



**Dr. Heidi Rehm, Ph.D.**

Institute Member, Co-director of  
the Program in Medical and  
Population Genetics



**Shana White, MS, CGC**

Sr. Director, Fabric Genomics



Elevate your large-scale programs in rare disease and population screening with trusted partners in sequencing and interpretation.



# Reimbursement for rapid WGS is already established in the UK



Pediatricians in the National Health Service (NHS) in England and Wales can order a rapid diagnostic genome for any child that they suspect may benefit.

## News

World-first national genetic testing service to deliver rapid life-saving checks for babies and kids

📅 12 October 2022

Children and young people Genomics

The NHS will be able to diagnose and potentially save the lives of thousands of severely ill children and babies – within days rather than weeks – with a world-first national genetic testing service launching today.



Australia studying a national approach to rapid WGS

## Rapid genome sequencing helps save hundreds of critically ill babies

More than 400 children have taken part in a rapid whole-genome sequencing trial at every children's hospital in Australia. With results in less than three days, many of the participants have quickly been diagnosed with rare genetic conditions and received appropriate treatment

# Insurance Landscape for rWGS in the USA

## *Coloring in the map*

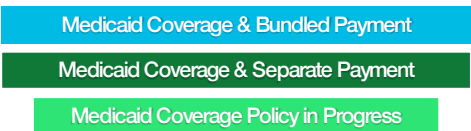
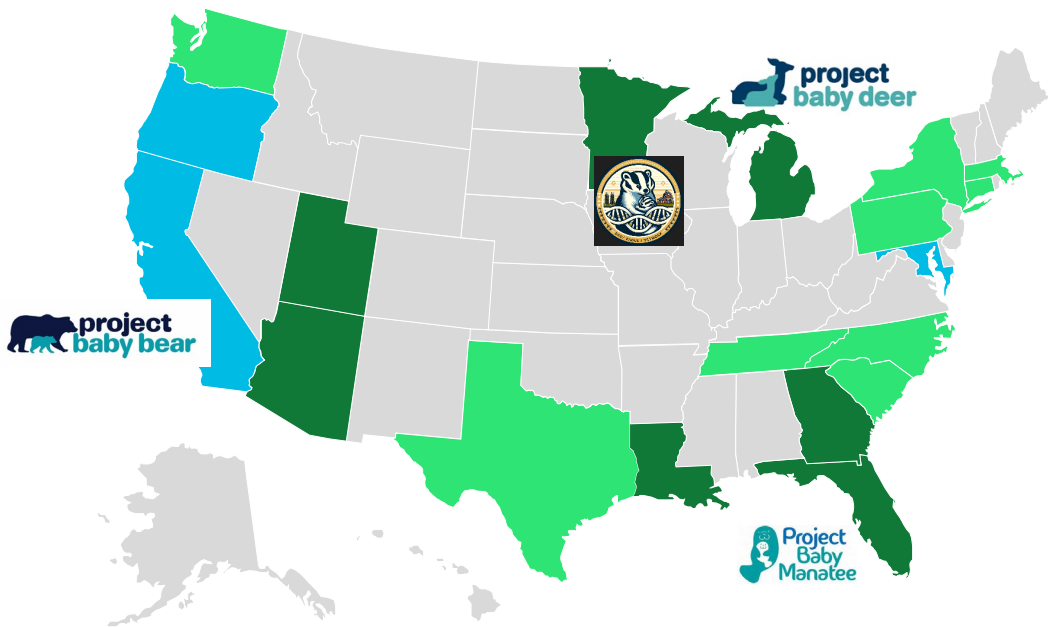
Improving access to rWGS through medical and payment policy

### MEDICAID

- 10 State Medicaid programs now cover rWGS
  - Paid within DRG: CA, MD, OR
  - Separately Payable: AZ (3-year pilot), FL, GA, LA, MI, MN, UT
- Additional state-based advocacy initiatives underway

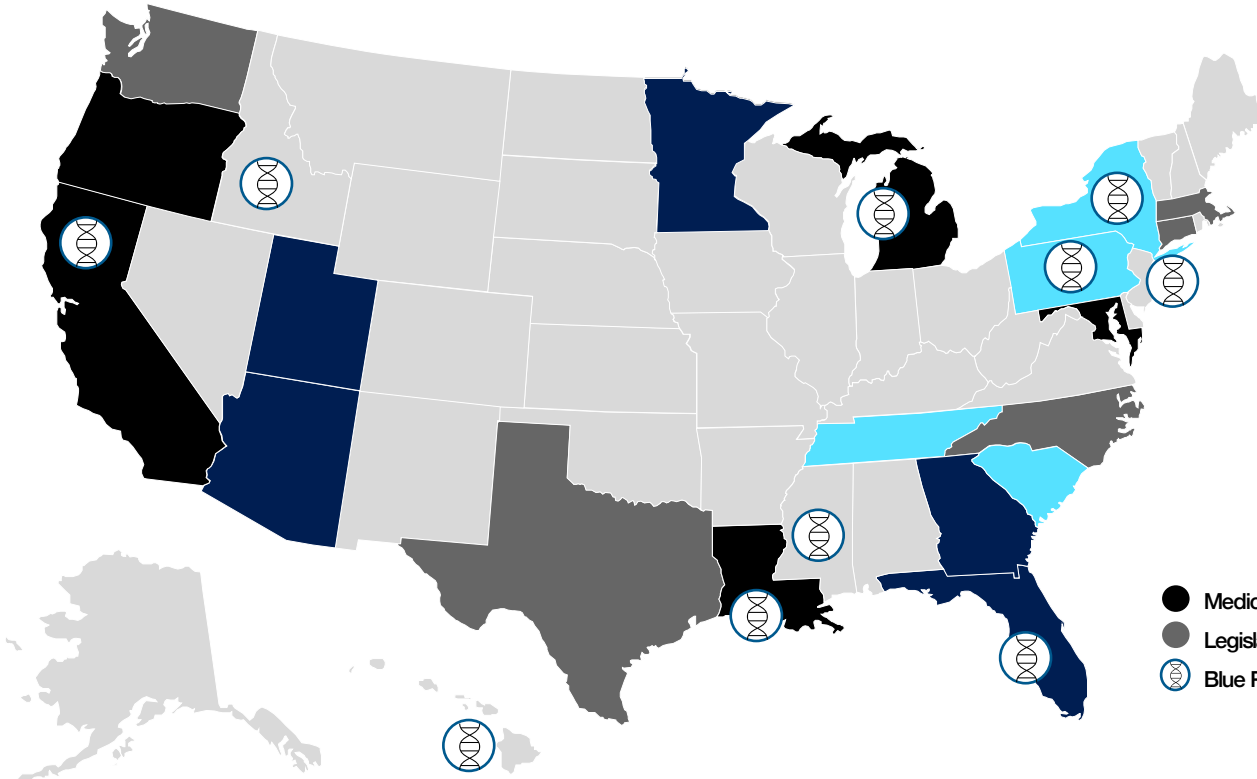
### COMMERCIAL

- Blue Cross Blue Shield: 11 plans in 9 states provide rWGS coverage
- 1 State (Louisiana) mandates all health plans cover rWGS
- Cigna: Coverage of Whole Exome and Whole Genome Sequencing – Patient must meet clinical criteria. (Effective: Jan 15, 2023)
- United HealthCare: Coverage of Whole Exome and Whole Genome – currently only applies to outpatient or post-discharge from hospital. (Effective: April 1, 2023)
- Evicore: updated clinical guidance to declare rWGS medically necessary for certain clinical indications.



Current as of January 2024

# Insurance Landscape for rWGS



## Separately Payable & Effective Medicaid

Arizona, Florida, Georgia (expected) Michigan, Minnesota, Louisiana, Utah (expected)

## States with Favorable Blues:

- CA, ID, HI, MI, MS, LA, FL, NJ, NY, FEP (national)

## National Carriers with Outpatient WGS Coverage

- United Healthcare Group
- Cigna

- Medicaid Coverage Effective
- Legislation Introduced and/or Medicaid Action in Process
- Blue Plan Coverage

# Medicaid Policies – Rapid Whole Genome Sequencing

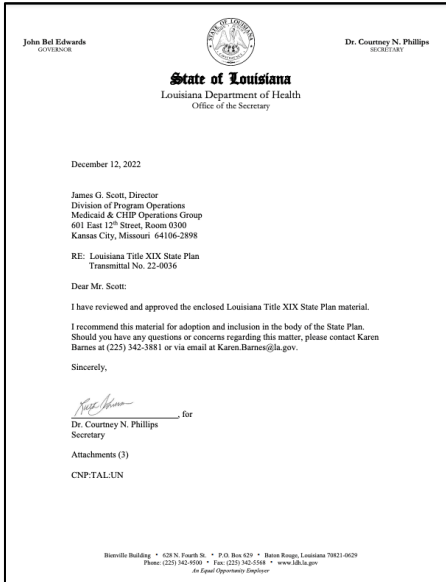
State	Effective Date	Separate Payment	High-Level Clinical Criteria	Detailed Clinical Criteria	Authorization
Arizona	October 31, 2023	Yes	≤ 1 year of age, intensive care unit or high acuity pediatric unit	<a href="#">AHCCCS Reimbursement for Rapid Whole Genome Sequencing (rWGS)</a>	Required. Provider requests expedited review or post-delivery of care retroactive authorization (akin to emergency services)
California	January 1, 2022	No	≤ 1 year of age, intensive care	No additional criteria	None
Florida	January 1, 2024	Yes	≤ 20 years of age, intensive care unit or high acuity pediatric unit	<a href="#">Florida Medicaid Health Care Alert   December 20, 2023 Medicaid Reimbursement for Rapid Whole Genome Sequencing</a>	Not yet specified
Georgia	January 1, 2024	TBD	Not yet specified	Not yet specified	TBD - Working with GA Medicaid
Louisiana	August 1, 2022	Yes	≤ 1 year of age, intensive care unit or pediatric unit	<a href="#">MCO Manual   Rapid Whole Genome Sequencing of Critically Ill Infants</a>	Authorization required to receive reimbursement
Maryland	January 1, 2022	No	≤ 1 year of age, intensive care or recently discharged from NICU	<a href="#">MD Department of Health Whole Genome Sequencing Clinical Criteria</a>	Prior Authorization - Unclear if it can be submitted retroactively
Michigan	September 1, 2021	Yes	≤ 1 year of age, intensive care	<a href="#">MSA 21-33 Coverage of Rapid Whole Genome Sequencing (rWGS) Testing</a>	Authorization may be submitted retroactively
Minnesota	April 1, 2022	Yes	Infant or child, intensive care unit	<a href="#">MN DHS Laboratory and Pathology Services</a>	None for 0094U
Oregon	January 1, 2022	No	≤ 1 year of age, intensive care	<a href="#">Oregon Prioritized List of Health Services</a>	None
Utah	November 1, 2023	Yes	≤ 1 year of age, intensive care unit or other intensive care unit	<a href="#">Section 8-12.10.4 Next Generation Sequencing</a>	Authorization may be submitted retroactively



# Reimbursement for rWGS in Louisiana

Covered by Medicaid<sup>1</sup>

Covered by Blue Cross Blue Shield



## Whole Exome and Whole Genome Sequencing for Diagnosis of Genetic Disorders

Policy # 00389  
Original Effective Date: 11/20/2013  
Current Effective Date: 08/01/2023

*Applies to all products administered or underwritten by Blue Cross and Blue Shield of Louisiana and its subsidiary, HMO Louisiana, Inc. (collectively referred to as the "Company"), unless otherwise provided in the applicable contract. Medical technology is constantly evolving, and we reserve the right to review and update Medical Policy periodically.*

### Genetic Testing of Critically Ill Infants

Effective for dates of service on or after January 1, 2023, hospitals shall receive reimbursement for rapid whole genome sequencing testing, in addition to the hospital per diem payment for the inpatient stay.

<sup>1</sup><https://ldh.la.gov/assets/medicaid/StatePlan/Amend2022/22-0036/22-0036CMSSubmittal.pdf>

# Summary



## NICU

~400,000 US NICU admissions per annum, costing >\$17B per year

~40% infant death in ICU are associated with single locus variants

## rWGS

Both in-house and send out testing equated with increased change in management and cost savings per child

3 day rWGS Can save \$14,000 per child and change management in 56% of cases

## Reimbursement

Private Payors covering rWGS are increasing

7 states have Medicaid coverage policy and reimbursement rate for inpatient RGS separate from the Diagnosis Related Group (DRG) payment

## Long-reads

Oxford Nanopore (ONT) can help you get started with an instrument for rWGS with minimal commitment

## Fabric

Can help you with rapid Whole Genome Sequencing with Interpretation Software or Full-Service Interpretation Services



# Fabric is the **solution of choice** for genomics leaders around the world



“We chose Fabric to develop and implement our clinical WGS offerings because it is the only solution that allows for scalability and is unparalleled in the market.”

**Dr. Heidi Rehm,**

Co-director of the Program in Medical and Population Genetics, Broad Institute of Harvard & MIT

**BROAD**  
CLINICAL LABS 



“Accuracy, usability and speed are critical in the application of genetic interpretation, which is why we chose to work with [Fabric Genomics] as a key partner in the process.”

**Dr. Stephen Kingsmore,**

President and CEO, Rady Children's Institute for Genomic Medicine

Rady  
Children's  
Institute   
Genomic Medicine





# FABRIC

## GENOMICS



Transforming Healthcare through AI-Driven Clinical Genomic Insights

