

One test. Big picture. Brighter futures.

GeneDx (Nasdaq: WGS) 3Q 2024 Earnings Presentation

October 29, 2024



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WGS Q3 2024 Results



Third quarter 2024 revenue from continuing operations¹ of \$76.6M with 77% year-over-year revenue growth for exome and genome test revenue



Expanded third quarter 2024 adjusted gross margin^{1,2} to 64%



Achieved profitability milestone with third quarter adjusted net income^{1,2} of \$1.2M



Third quarter 2024 total cash burn of \$5M; ending September 30, 2024 with cash, cash equivalents, marketable securities and restricted cash of \$117.4M



^{1.} Results from continuing operations, which representatives our ongoing business strategy, exclude any revenue and cost of goods sold of the exited Legacy Sema4 diagnostic testing business for the current and all comparative periods. Total company results include GeneDx's continuing operations and the financial impacts of exited Legacy Sema4 business activities.

^{2.} Adjusted gross margin and adjusted net income are non-GAAP financial measure. For a reconciliation of GAAP and non-GAAP results, please refer to the reconciliation contained at the end of this earnings presentation.

Revenue – strong growth driven by high value whole exome and genome

Increase in 3Q24 exome/genome revenue year-over-year; +18% sequentially

Revenue ¹	Q3 2024
Revenue from continuing operations	\$76.6M
Growth year-over-year	52 %
Growth sequentially	11%

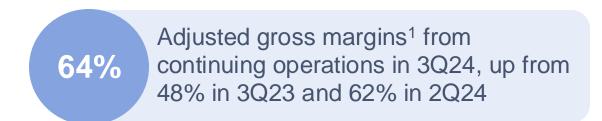
Exome and genome test revenue	\$60.0M
Growth year-over-year	77%
Growth sequentially	18%

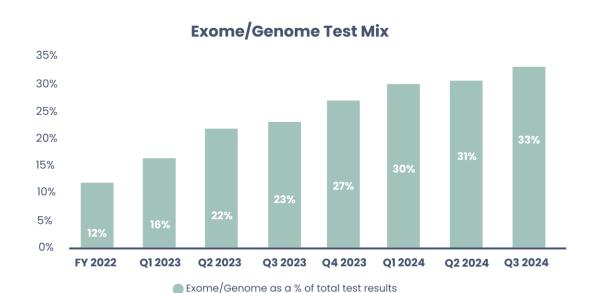


Gross profit – expansion driven by mix shift, cost per test reductions and improved reimbursement

Exome/genome can be the best test for patients. They are also best for our business.







Gross Profit ¹	3Q24	QoQ Sequential	YoY
Adj. Gross Profit ²	\$49.3M	16%	103%
Adj. Gross Margin %2	64%	+276bps	+1,607bps

^{1.} Total company gross profit was \$47.8M for the third quarter of 2024, and total company gross margin was 62%. Adjusted gross profit from continuing operations and adjusted gross margin for continuing operations exclude the results of the exited Legacy Sema4 diagnostic testing business as well as depreciation, amortization and stock-based compensation. Total company gross profit and company gross margin include GeneDx's continuing operations and the financial impacts of exited Legacy Sema4 business activities.





Cash – balance sheet bolstered to execute growth strategy



Cash, cash equivalents, marketable securities and restricted cash on hand at September 30, 2024



Net use of cash for the total company in Q3



Improvement in total company net cash burn rate year-over-year; improved 17% sequentially



Consecutive quarters of cash burn reduction since acquiring GeneDx



2024 Guidance Update

- Drive full year 2024 revenues¹ between \$284 to \$290 million (previous guidance was between \$255 to \$265 million)
- Expand full year 2024 adjusted gross margin² profile to at least 62% (previous guidance was at least 60%)
- Use between \$60 to \$65 million of net cash for full year 2024 (previous guidance was between \$65 to \$70 million)



^{1.} Revenue from continuing operations, which representatives our ongoing business strategy, exclude any revenue of the exited Legacy Sema4 diagnostic testing business for the current and all comparative periods. Total company results include GeneDx's continuing operations and the financial impacts of exited Legacy Sema4 business activities.

^{2.} Adjusted gross profit is a non-GAAP financial measures. For a reconciliation of GAAP and non-GAAP results, please refer to the reconciliation contained at the end of this earnings presentation.

Appendix



GeneDx is a leader in improving health outcomes through genomic insights.

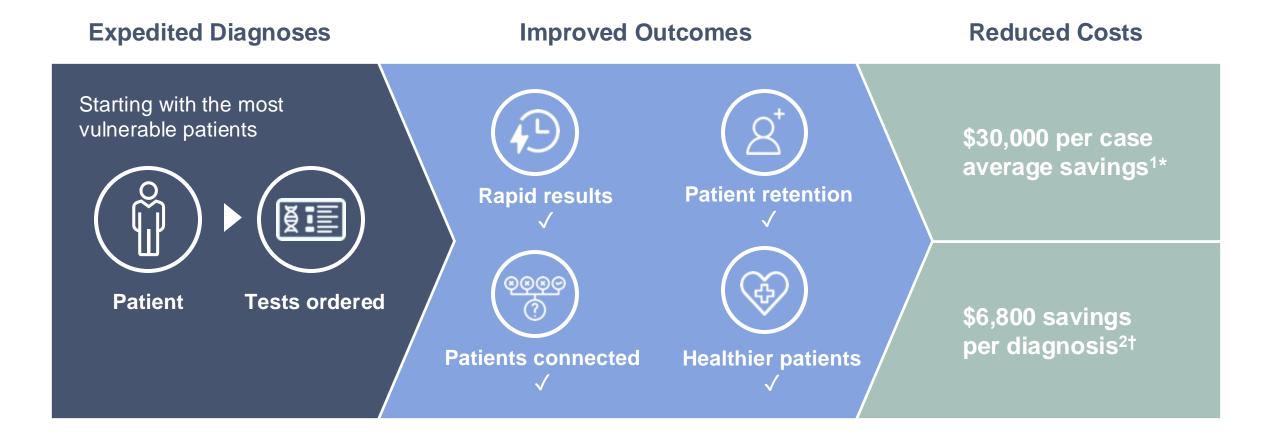


We address the costly and prolonged path to diagnosis

The diagnostic odyssey: Endless specialist visits, ongoing mismanagement of undiagnosed disease, and expensive, ineffective and often invasive diagnostic testing **Outcomes** Years of avoidable expenses and still no diagnosis 1. Pre-exome standard of care A diagnosis after a long and **Exome** expensive journey 2. Exome as last resort Undiagnosed, sick child A fast and cost-effective Exome diagnosis 3. Exome-first model



Exome sequencing can break the cycle of misdiagnosis and uncertainty





^{*}In the NICU from reduced length of stay, unnecessary care (inpatient).

[†]When tested at first tertiary presentation for Pediatric Delay Disorder (outpatient).

Exome sequencing is a cost-effective solution to avoid the diagnostic odyssey

A look at the average diagnostic odyssey

3 misdiagnoses¹

5 uninformative tests³

years to an accurate diagnosis²

>\$10k in additional healthcare costs³

have a change in management with a genetic diagnosis⁴



^{2.} Global Genes. RARE Disease Facts. Retrieved from: www.globalgenes.org/rare-disease-facts/ on June 4, 2024

Fung JLF, Yu MHC, et al. A three-year follow-up study evaluating clinical utility of exome sequencing and diagnostic potential of reanalysis. NPJ Genom Med. 2020 Sep 10;5(1):37. doi: 10.1038/s41525-020-00144-x. PMID: 32063807



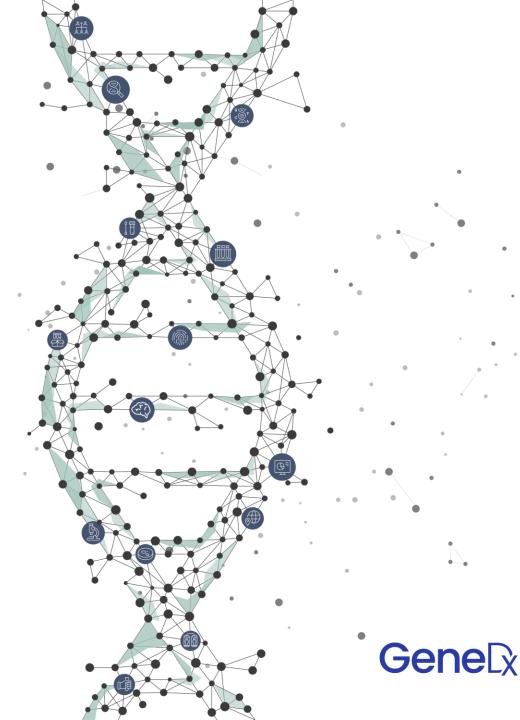
>70%

^{3.} Soden SE, Saunders CJ, et al. Effectiveness of exome and genome sequencing guided by acuity of illness for diagnosis of neurodevelopmental disorders. Sci Transl Med. 2014 Dec 3;6(265):265ra168. doi: 10.1126/scitranslmed.3010076.

GeneDx offers leading exome and genome products

Translating complex genomic data into definitive diagnoses for patients

- Genome sequencing Analyzes the entirety of an individual's DNA, which is known as the genome. The genome includes ~20,000 genes.
- **Exome sequencing** Analyzes the protein coding regions of the ~20,000 genes in an individual's genome, which is known as the exome. The exome is thought to contain a majority of disease-causing genetic variants.



Changing the perception of exome and genome sequencing

GeneDx has spent over a decade solving for limitations of the past and differentiating our products

Then GeneDx Now "These tests take months to get results" "I can get results in days to weeks" Turnaround time "Tests are affordable and widely covered" "These tests are wildly expensive" Cost "Results are confusing and filled "My patient can get a definitive diagnosis" with useless information" Interpretation



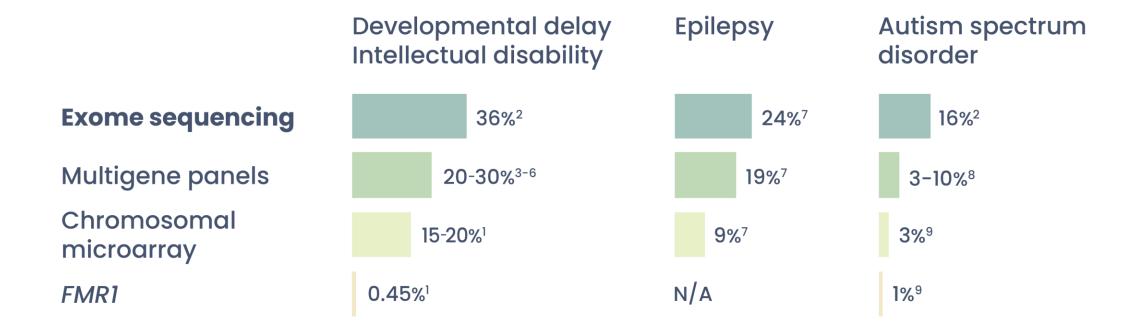
Patients we serve today are difficult to diagnose and have complex needs

Patients typically have 2+ of the indications below

- Congenital abnormalities (birth defects)
- Significant Intellectual disability
- Global developmental delay
- Seizures/epilepsy
- Failure to thrive or other growth concerns
- Autism spectrum disorder
- Complex neurodevelopmental disorder
- Severe neuropsychiatric condition
- Cerebral palsy
- Dysmorphic features
- Significant hearing or visual impairment
- Period of unexplained developmental regression
- Biochemical findings suggesting inborn error of metabolism
- Family history strongly suggestive of a genetic etiology



Exome sequencing offers greater diagnostic yields vs. other technologies





GeneDx is positioned to enable a data-informed future for healthcare.



New market expansion enables us to serve more patients

GeneDx is starting with a focus on rare disease and pediatrics and then expanding into larger markets



Rare Disease & Pediatrics: \$3B

Rapidly growing patient opportunity and substantial cost savings via early screening



Newborn Screening: \$10B

Currently participating in studies to evaluate exome and genome sequencing at birth



Adults: \$16B

Expanding into adult markets to replace multi-gene panel and individual gene tests

Conservatively, our total addressable market is ~\$30 billion.*



We're focused on the Rare Disease & Pediatrics market today



Rare Disease & Pediatrics: \$3B

Rapidly growing patient opportunity and substantial cost savings via early screening

Inpatient

Target Clinicians:

- Geneticists
- Neonatologists

Products:

 Primarily rapid whole genome sequencing

Primary Clinical Indications:

- Unexplained critical illness
- o Congenital anomalies

Inpatient ~1/3 of TAM

Outpatient

Target Clinicians:

- Geneticists
- Pediatric Neurologists
- Developmental Pediatricians
- Pediatricians (long-term)

Products:

Primarily exome and growing genome

Primary Clinical Indications:

Epilepsy

Outpatient

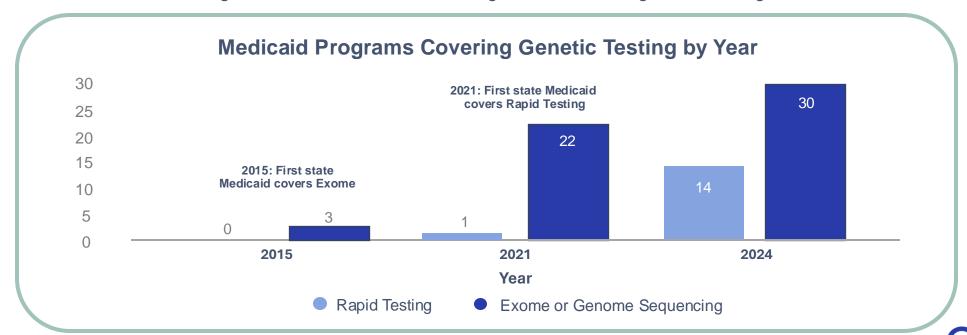
~2/3 of TAM

- Intellectual disability
- Developmental delay

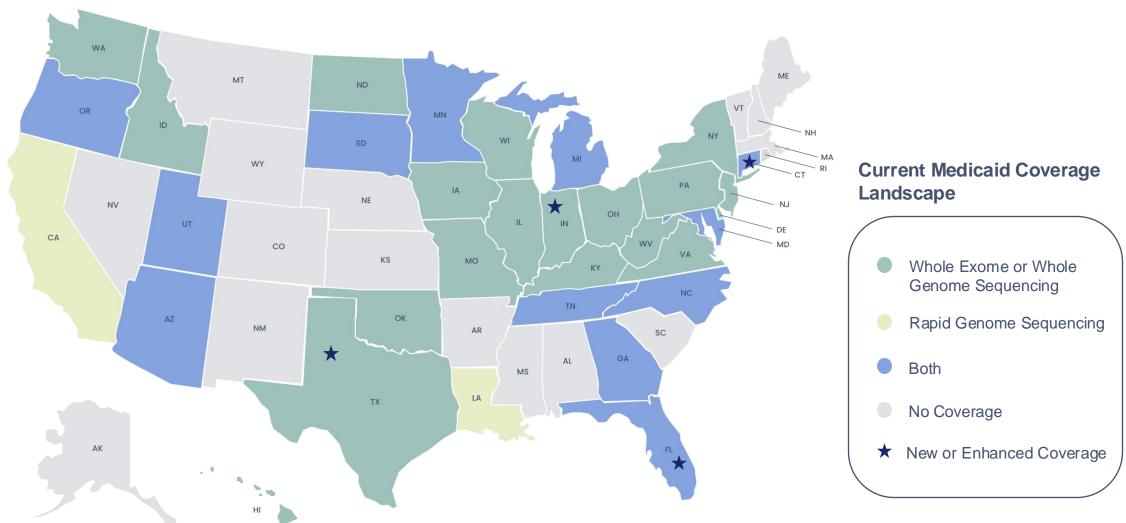


Payor coverage for exome and genome sequencing is expanding

- GeneDx is contracted with over 80% of covered lives, including all large national commercial payers
- Medicaid and commercial insurance coverage continues to grow for exome and genome
 - 30 states cover exome or genome sequencing
 - In Q3, Indiana, Texas, Connecticut, and Florida added or enhanced coverage for exome and/or genome sequencing
 - 14 states cover rapid genome sequencing
 - o Biomarker bills are driving momentum in Medicaid coverage for exome and genome testing



Medicaid programs across the country are expanding access





Medical practice guidelines recommend exome and genome sequencing for patients



ACMG Practice Guideline¹:

"Strong recommendation based on the available evidence to support the use of ES/GS as either a first- (or second-) line test in patients ES/ GS demonstrates clinical utility for the patients and their families with limited evidence for negative outcomes and the ever-increasing emerging evidence of therapeutic benefit."



NSGC Guideline²:

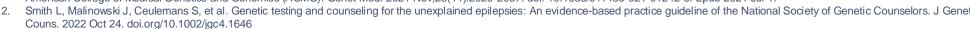
"Recommending Exome Sequencing as a First-Tier Genetic Test for Unexplained Epilepsies"



American Epilepsy Society:

"Exome or genome sequencing are favored for most scenarios, as they are more likely to provide a diagnosis."

^{1.} Manickam K, McClain MR, Demmer LA, et al. Exome and genome sequencing for pediatric patients with congenital anomalies or intellectual disability: an evidence-based clinical guideline of the American College of Medical Genetics and Genomics (ACMG). Genet Med. 2021 Nov;23(11):2029-2037. doi: 10.1038/s41436-021-01242-6. Epub 2021 Jul 1.







Pay-it-forward data strategy

For every patient that we test, our underlying interpretation platform gets smarter, and we can offer more answers to more patients.

The impact scales as we capture more and more of the market.



Data is at the center of our business

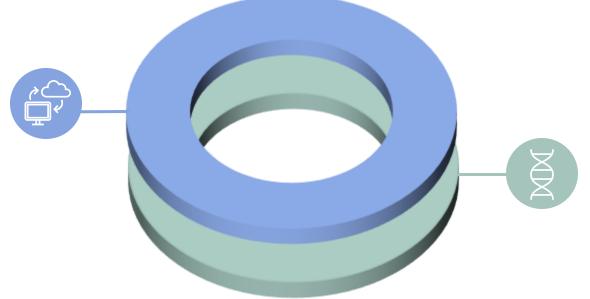
Our huge dataset and intelligent interpretation platform set us apart and fuel innovation



Simplifies complex genomic data

Reduces variants of unknown significance

Increases diagnostic yield



>700K sequenced exomes

Significant clinical and genomic data

Fuels improved testing accuracy

Advances science and powering future discoveries

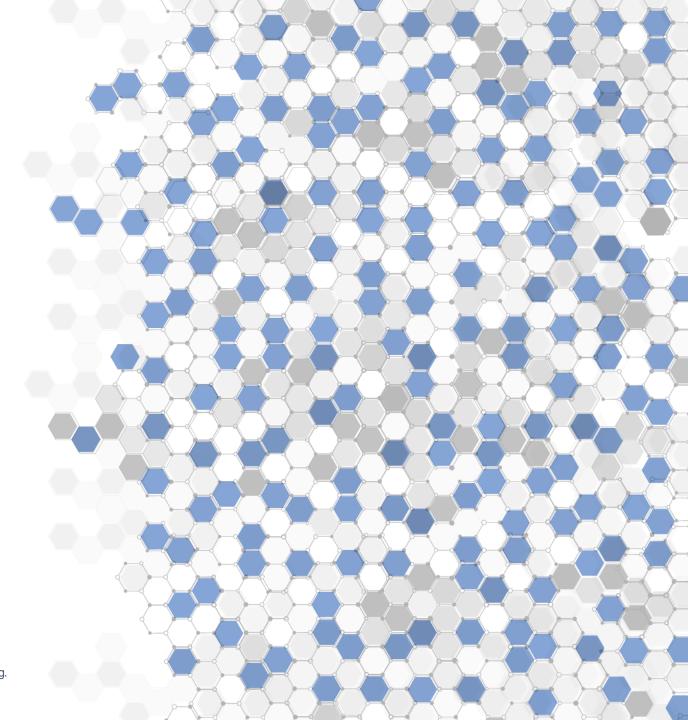


Common diseases are in fact a constellation of genetic diagnoses

One example is epilepsy. At least 768 different genes are related to seizures.



Only 43% are tested on many commercial epilepsy panels



Common diseases are in fact a constellation of genetic diagnoses

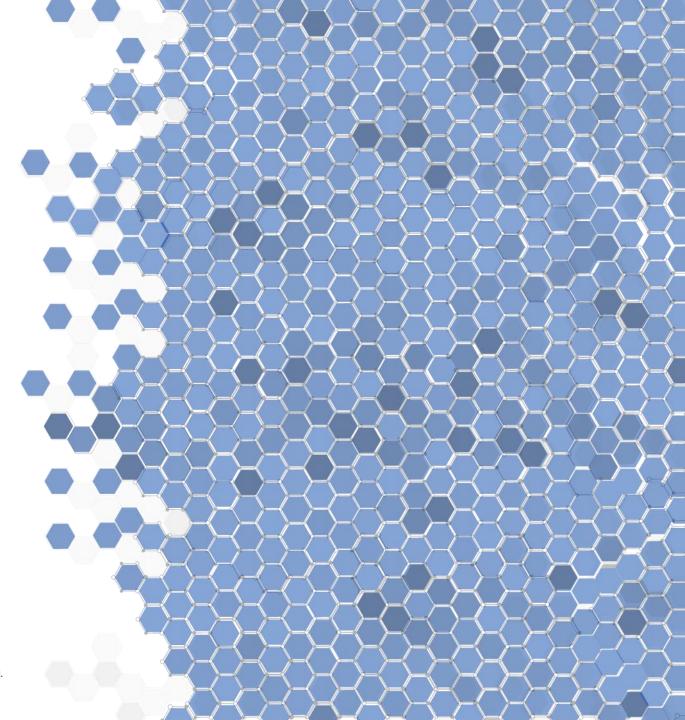
One example is epilepsy. At least 768 different genes are related to seizures.



Only 43% are tested on many commercial epilepsy panels



Exome sequencing checks all 768 genes



We are translating our leadership in exome and investing in a genome future

We've improved solutions for our providers to deliver the best patient care

Integrating with Epic Aura (2025)

Expanding access by integrating into existing health system and provider workflows



Improving WGS products

Adding repeat expansions to increase diagnostic yield and decrease the need for follow-up testing



Reducing rWGS turnaround time

Written results in as soon as 5 days



Expanding sample collection options

Improving WGS accessibility with cheek swabs





1 in 3 babies in the NICU is likely to have a genetic condition that could be diagnosed with rWGS1

Cost associated with NICU/PICU care for these babies with genetic disease is over 50% of the US pediatric inpatient health spend^{2,3}

We are demonstrating the clinical and economic utility of rWGS through the SeqFirst study. In phase one of the SeqFirst study:



63% of infants had abnormal rapid WGS results, and 88% of these cases resulted in a change in management



90% of diagnoses made by WGS would not have been predicted by clinical features







^{1.} NICUSeq Study Group, Krantz ID, Medne L, et al. Effect of whole-genome sequencing on the clinical management of acutely ill infants with suspected genetic disease: a randomized clinical trial. JAMA Pediatr. 2021 Dec 1;175(12):1218-1226. doi: 10.1001/jamapediatrics.2021.3496

Dukhovny D and Zupanci JAF. Economic Evaluation With Clinical Trials in Neonatology. Neoreviews (2011) 12 (2): e69–e75

Gonzaludo N. Belmont JW. Gainullin VG, et al. Estimating the burden and economic impact of pediatric genetic disease. Genet Med. 2019 Aug;21(8):1781-1789. doi: 10.1038/s41436-018-0398-5

Today, we shorten the diagnostic journey. Tomorrow, we hope to prevent it.



The GUARDIAN study is proving we can – and should – implement genomic newborn screening at scale

GUARDIAN is using GeneDx genome sequencing to screen 100,000 newborns for 400+ actionable genetic conditions not currently included in traditional newborn screening

Published in JAMA, the Journal of the American Medical Association, in October 2024, the first phase of the GUARDIAN study:



Analysis of **4,000** healthy infants (ongoing study, >13,000 screened to date)



Nearly 4% positive rate, and 92% of positives would not have been detected with traditional NBS



Average age of diagnosis for these conditions is **7-11** years old



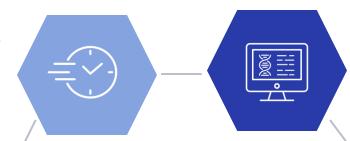




GeneDx's data-driven solutions help to advance new therapies across the drug development pipeline – quickly and more cost-effectively

Optimize clinical trials

Quickly identify and recruit patients, stratify study populations and optimize trial design leading to shorter and less expensive trials



Accelerate drug discovery process

Quickly discover new biomarkers and drug targets for therapeutic development and understand real-world characteristics of patient populations with improved probability of success

Increase genetic diagnoses

Help to shorten the diagnostic odyssey for rare disease patients by facilitating access to genetic testing



Gene

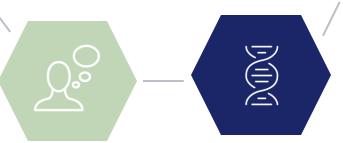


Guide research & development

Utilize data to explore genetic associations, validate hypotheses, and advance scientific knowledge

Expand drug market access

Better understand real-world treatment patterns and efficacy outcomes, connect with patients for postmarket surveillance to analyze drug safety data



Improve understanding of disease

Leverage patient medical records to expedite natural history studies to submit to regulatory agencies quicker with increased likelihood of approval



One test.
Big picture.
Brighter futures.



Reconciliation of Non-GAAP Financial Measures

Adjusted Gross Profit and Adjusted Gross Margin

	Three months ended September 30,									Three months ended June 30,									
	2024					2023								2024					
	G	SeneDx		egacy Sema4		Total		Ge	eneDx Legacy Sema4			Total		GeneDx		Legacy Sema4			Total
Revenue	\$	76,622	\$	252	\$	76,874	,	\$	50,350	\$	2,953	\$	53,303	9	68,924	\$	1,590	\$	70,514
Cost of services		29,045		_		29,045			27,819		225		28,044		27,417		145		27,562
Gross profit	\$	47,577	\$	252	\$	47,829		\$	22,531	\$	2,728	\$	25,259	- 5	41,507	\$	1,445	\$	42,952
Gross margin		62%		100%		62%			45%		92%		47%		60%		91%		61%
Reconciliations:																			
Depreciation and amortization		1,495		_		1,495			1,613		_		1,613		808		_		808
Stock-based compensation		174		_		174			75		_		75		86		_		86
Restructuring charges		6		_		6			52		_		52		_		_		_
Adjusted gross profit	\$	49,252	\$	252	\$	49,504		\$	24,271	\$	2,728	\$	26,999	5	42,401	\$	1,445	\$	43,846
Adjusted gross margin		64%		100%		64%			48%		92%		51%		62%		91%		62%



Reconciliation of Non-GAAP Financial Measures

Adjusted Net Income

	Three months ended		
	Septembe	r 30, 2024	
Net loss	\$	(8,312)	
Reconciliations:			
Depreciation and amortization expense		5,929	
Stock-based compensation expense		3,636	
Restructuring costs		369	
Change in fair value of financial liabilities		880	
Other		(1,327)	
Adjusted net income	\$	1,175	

