

Medicare Clinical Laboratory Fee Schedule Private Payer Rates and Volumes

Sample data gathered from the Fee for Service Data Collection System (FFSDCS)

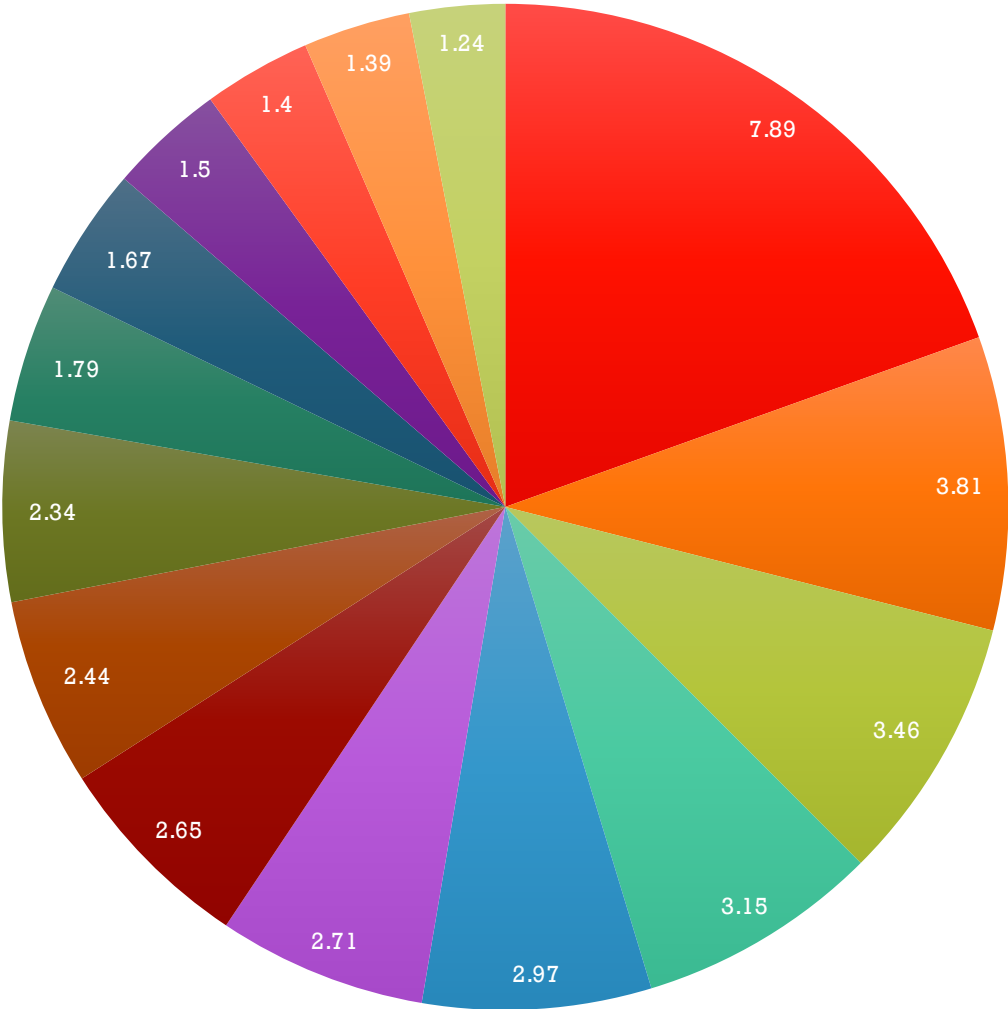
Tera Thomas

The background features a series of concentric circles and arcs in light gray, some solid and some dashed, creating a sense of depth and movement. A bright red callout box is positioned in the center, containing white text. The box has a rectangular body and a triangular pointer at the bottom.

FROM A SAMPLE OF
967,129 LAB ORDERS

TOP 15 CODES MAKE UP **32%** OF TOTAL ORDERS

TOP 15 MEDICARE LAB HCPCS CODES USED (%)



	Description DESC:
G0483	Drug test def 22+ classes
80061	Lipid panel [only when billed with ICD-10-CM code Z13.6]
84443	TSH
82306	Vitamin D
80053	Comprehensive metabolic panel
88175	Cervical or vaginal cytopathology
G0479	Presumptive drug test (deleted code 2017-01-01)
G0482	Drug test
85025	Complete blood count
83036	A1C
87624	HPV
81211	Genetic analysis procedure (deleted code 2019-01-01)
87591	Neisseria gonorrhoeae (GC)
87491	Chlamydia trachomatis
84153	Prostate specific antigen (PSA)

TOP 15 CODES MAKE UP 32% OF TOTAL ORDERED LABS

The background features a series of concentric circles and curved lines in a light gray color, creating a sense of depth and movement. A solid red rectangular box is positioned in the center, with a small triangular pointer extending downwards from its bottom edge. Inside this red box, the text is written in a clean, white, sans-serif font, arranged in four lines.

13 OF THESE CODES
ARE IN THE TOP 15
CODES FOR REVENUE

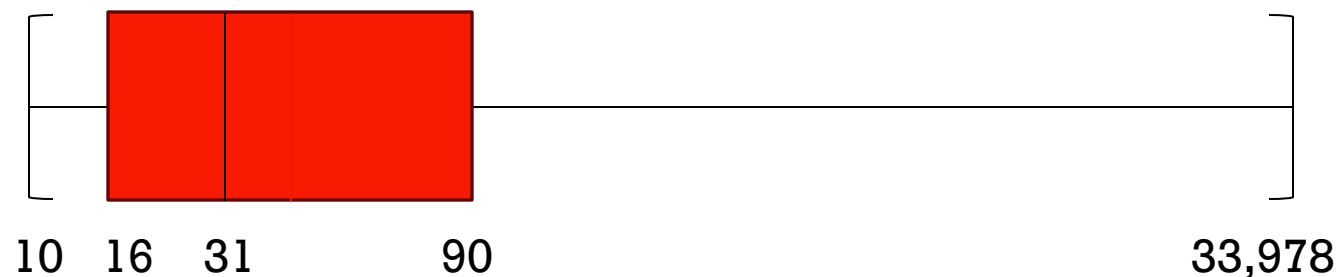
15 Highest Total Revenue Ordered Labs

ORDERED	HCPCS	Description	REV.
		Lipid panel [only when billed with ICD-10-CM code	
#2	80061	Z13.6]	#1
#5	80053	Comprehensive metabolic panel	#2
#3	84443	TSH	#3
#9	85025	Complete blood count	#4
#6	88175	Cervical or vaginal cytopathology	#5
#4	82306	Vitamin D	#6
#10	83036	A1C	#7
#1	G0483	Drug test def 22+ classes	#8
#28	87880	Group A streptococcus	#9
#11	87624	HPV	#10
#7	G0479	Presumptive drug test (deleted code 2017-01-01)	#11
#15	84153	Prostate specific antigen (PSA)	#12
#40	85610	prothrombin time (PT) test	#13
#18	80048	Basic metabolic panel	#14
#14	87491	Chlamydia trachomatis	#15
#13	87591	Neisseria gonorrhoeae (GC)	#16
...
#8	G0482	Drug test	#20
#12	81211	Genetic analysis procedure (deleted code 2019-01-01)	#22

THESE TOP 15 CODES MAKE UP 73% OF TOTAL REVENUE

G0483: Drug test def 22+ classes

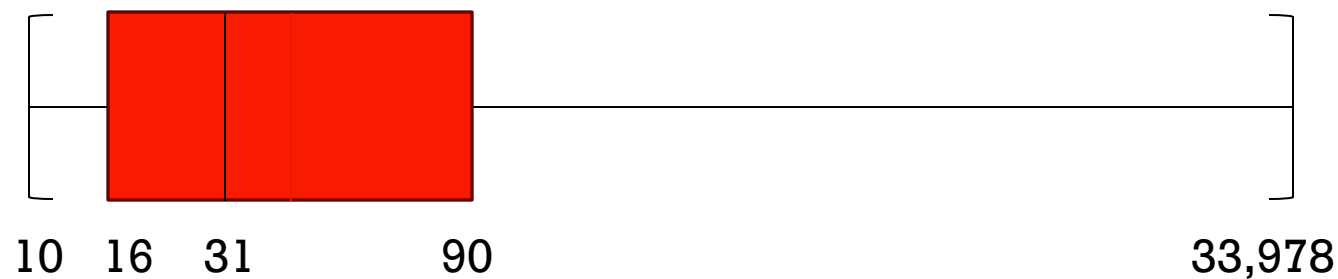
Price Variability
for the Most
Frequently
Ordered Lab



Record count: 1933
Standard Dev: 1009.9
Avg Price: \$190.96

G0483: Drug test def 22+ classes

Price Variability
for the Most
Frequently
Ordered Lab

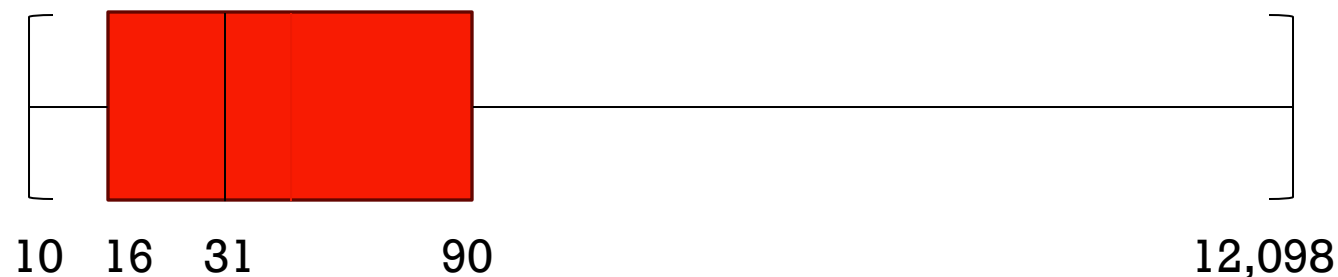


Record count: 1933
Standard Dev: 1009.9
Avg Price: \$190.96

G0483: Drug test def 22+ classes

Price Variability
for the Most
Frequently
Ordered Lab

excluding outlier:



Record count: 1932

Standard Dev: 655.0

Avg Price: \$173.47

Cost Efficiency

hcpcs_cd	cost_efficiency	Description
81455	0.0027	Genomic sequencing DNA/RNA
81450	0.00533	Genomic sequencing ; blood/lymph/cancers
81412	0.00844	Genomic sequencing; Ashkenazi Jewish descent clusters
81162	0.00936	Genomic sequencing; BRCA1, BRCA2
81161	0.01288	Genomic sequencing; Dystrophin gene
81324	0.01395	Genomic sequencing; Peripheral myelin protein 22 (deletion/duplication)
81325	0.01612	Genomic sequencing; Peripheral myelin protein 22 (entire gene)
81445	0.01703	Genomic sequencing; solid organ cancers
81287	0.01719	Genomic sequencing; MGMT promoter methylation analysis
81350	0.01952	Genomic sequencing; UGT1A1



Lower cost efficiency ratio (price:vol) means the test is *more* cost efficient

Cost Efficiency

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81325	0.01612	Genomic sequencing; Peripheral myelin protein 22 (entire gene)
81445	0.01703	Genomic sequencing; solid organ cancers
81287	0.01719	Genomic sequencing; MGMT promoter methylation analysis
81350	0.01952	Genomic sequencing; UGT1A1
...
#44 G0483	0.08644	Drug test def 22+ classes



Recall → This was the most frequently ordered test, and #8 in highest revenue

MORE METRICS:



1013 Unique Codes

\$250.80 is the average price per code

REFERENCE CODE – slides 2-5:

-- Finding top orders used:

--

```
SELECT hcpcs_cd, SUM(vol_txt) AS total_orders
FROM public.medicarelabs
GROUP BY hcpcs_cd
ORDER BY total_orders DESC
```

--

-- Finding proportion from total orders in table:

--

```
SELECT
  hcpcs_cd,
  SUM(Vol_txt) AS total_orders,
  SUM(Vol_txt) * 1.0 / (SELECT SUM(Vol_txt) FROM public.medicarelabs) AS proportion
FROM public.medicarelabs
GROUP BY hcpcs_cd
ORDER BY total_orders DESC;
```

--

-- Amount billed for the top orders, casting vol_txt and price_amt as NUMERIC values:

--

```
SELECT
  hcpcs_cd,
  SUM(CAST(vol_txt AS NUMERIC)) AS total_orders,
  SUM(CAST(vol_txt AS NUMERIC) * CAST(price_amt AS NUMERIC)) AS total_revenue
FROM public.medicarelabs
GROUP BY hcpcs_cd
ORDER BY total_revenue DESC
```

Variability within code - slide 6:

--

-- price variability for 'G0483' --> have to cast as NUMERIC Value!!

--

```
SELECT hcpcs_cd,  
       COUNT(*) AS record_count,  
       MIN(price_amt::NUMERIC) AS min_price,  
       MAX(price_amt::NUMERIC) AS max_price,  
       AVG(price_amt::NUMERIC) AS avg_price,  
       PERCENTILE_CONT(0.25) WITHIN GROUP (ORDER BY price_amt::NUMERIC) AS q1_price,  
       PERCENTILE_CONT(0.50) WITHIN GROUP (ORDER BY price_amt::NUMERIC) AS median_price,  
       PERCENTILE_CONT(0.75) WITHIN GROUP (ORDER BY price_amt::NUMERIC) AS q3_price,  
       STDDEV(price_amt::NUMERIC) AS stddev_price  
FROM public.medicarelabs  
WHERE hcpcs_cd = 'G0483'  
GROUP BY hcpcs_cd
```

--

-- validate

--

```
SELECT hcpcs_cd,  
       vol_txt,  
       price_amt  
FROM public.medicarelabs  
WHERE hcpcs_cd = 'G0483'  
ORDER BY price_amt DESC
```

Variability excluding outlier: slide 8

-- excluding the outlier

--

```
WITH filtered_data AS (  
    SELECT *  
    FROM public.medicarelabs  
    WHERE hcpcs_cd = 'G0483'  
    AND price_amt::NUMERIC < (SELECT MAX(price_amt::NUMERIC) FROM public.medicarelabs WHERE hcpcs_cd = 'G0483')  
)  
SELECT  
    hcpcs_cd,  
    COUNT(*) AS record_count,  
    MIN(price_amt::NUMERIC) AS min_price,  
    MAX(price_amt::NUMERIC) AS max_price, -- New max after removing the outlier  
    AVG(price_amt::NUMERIC) AS avg_price,  
    PERCENTILE_CONT(0.25) WITHIN GROUP (ORDER BY price_amt::NUMERIC) AS q1_price,  
    PERCENTILE_CONT(0.50) WITHIN GROUP (ORDER BY price_amt::NUMERIC) AS median_price,  
    PERCENTILE_CONT(0.75) WITHIN GROUP (ORDER BY price_amt::NUMERIC) AS q3_price,  
    STDDEV(price_amt::NUMERIC) AS stddev_price  
FROM filtered_data  
GROUP BY hcpcs_cd;
```

Testing for cost efficiency ratio – slide 9-10:

-- cost efficiency (inc vol, dec price)

--

```
SELECT
  hcpcs_cd,
  SUM(CAST(price_amt AS NUMERIC)) AS total_price_amt,
  SUM(CAST(vol_txt AS NUMERIC)) AS total_vol_txt,
  CASE
    WHEN SUM(CAST(vol_txt AS NUMERIC)) = 0 THEN NULL
    ELSE SUM(CAST(price_amt AS NUMERIC)) / SUM(CAST(vol_txt AS NUMERIC))
  END AS cost_efficiency
FROM public.medicarelabs
GROUP BY hcpcs_cd
ORDER BY cost_efficiency ASC;
```

Sample data provided by: <https://data.cms.gov/provider-characteristics/hospitals-and-other-facilities/medicare-clinical-laboratory-fee-schedule-private-payer-rates-and-volumes>