

# Going Beyond EMRAM-The Value Score

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**himss** North America

# EMRAM

## US EMR Adoption Model<sup>SM</sup>

Stage	Cumulative Capabilities	2010 Q1	2015 Q1
<b>Stage 7</b>	Complete EMR, CCD transactions to share data; Data warehousing; Data continuity with ED, ambulatory, OP	0.7%	3.7%
<b>Stage 6</b>	Physician documentation (structured templates), full CDSS (variance & compliance), full R-PACS	1.8%	22.2%
<b>Stage 5</b>	Closed loop medication administration	5.0%	30.8%
<b>Stage 4</b>	CPOE, Clinical Decision Support (clinical protocols)	7.7%	13.6%
<b>Stage 3</b>	Nursing/clinical documentation (flow sheets), CDSS (error checking), PACS available outside Radiology	50.0%	19.7%
<b>Stage 2</b>	CDR, Controlled Medical Vocabulary, CDS, may have Document Imaging; HIE capable	16.5%	4.3%
<b>Stage 1</b>	Ancillaries - Lab, Rad, Pharmacy - All Installed	6.9%	2.2%
<b>Stage 0</b>	All Three Ancillaries Not Installed	11.4%	3.5%

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N = 5223

N = 5462

## US EMR Adoption Model<sup>SM</sup>

Stage	Cumulative Capabilities	2014 Q4	2015 Q1
<b>Stage 7</b>	Complete EMR, CCD transactions to share data; Data warehousing; Data continuity with ED, ambulatory, OP	3.6%	3.7%
<b>Stage 6</b>	Physician documentation (structured templates), full CDSS (variance & compliance), full R-PACS	17.9%	22.2%
<b>Stage 5</b>	Closed loop medication administration	32.8%	30.8%
<b>Stage 4</b>	CPOE, Clinical Decision Support (clinical protocols)	14.0%	13.6%
<b>Stage 3</b>	Nursing/clinical documentation (flow sheets), CDSS (error checking), PACS available outside Radiology	21.0%	19.7%
<b>Stage 2</b>	CDR, Controlled Medical Vocabulary, CDS, may have Document Imaging; HIE capable	5.1%	4.3%
<b>Stage 1</b>	Ancillaries - Lab, Rad, Pharmacy - All Installed	2.0%	2.2%
<b>Stage 0</b>	All Three Ancillaries Not Installed	3.7%	3.5%

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N = 5467

N = 5462

## US EMR Adoption Model<sup>SM</sup>

Stage	Cumulative Capabilities	2014 Q4	2015 Q1	
<b>Stage 7</b>	Complete EMR, CCD transactions to share data; Data warehousing; Data continuity with ED, ambulatory, OP	3.6%	3.7%	← MU Stage 3
<b>Stage 6</b>	Physician documentation (structured templates), full CDSS (variance & compliance), full R-PACS	17.9%	22.2%	
<b>Stage 5</b>	Closed loop medication administration	32.8%	30.8%	← MU Stage 2
<b>Stage 4</b>	CPOE, Clinical Decision Support (clinical protocols)	14.0%	13.6%	← MU Stage 1
<b>Stage 3</b>	Nursing/clinical documentation (flow sheets), CDSS (error checking), PACS available outside Radiology	21.0%	19.7%	
<b>Stage 2</b>	CDR, Controlled Medical Vocabulary, CDS, may have Document Imaging; HIE capable	5.1%	4.3%	
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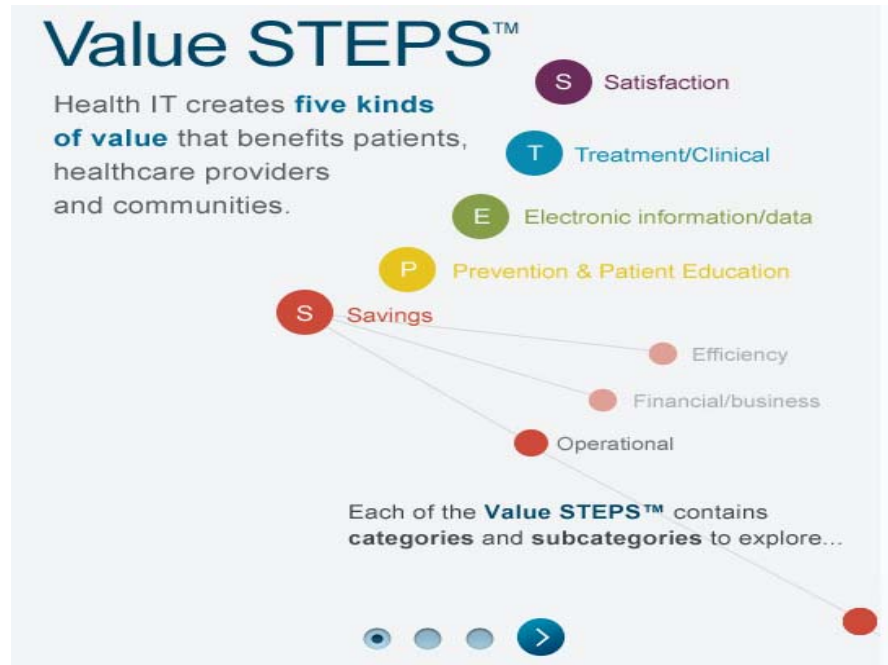
# Value Suite

# Value Suite

- Initiated 2 years ago resulting in a collection, a framework and a value score
- International; 2,000 of 11,000 examples from other than US
- Value Vocabulary
  - STEPS = *framework* for discussing, attributing value
  - Value Suite = *collection* of 11,000+ statements of derived value sorted into the STEPS framework
    - Organized by Level of Evidence (1-4) (Peer Review-> Vendor Submission)
  - Value Score = *numeric score* from 0-10

# Value STEPS

- Value Suite Collection
  - Organized into STEPS Framework

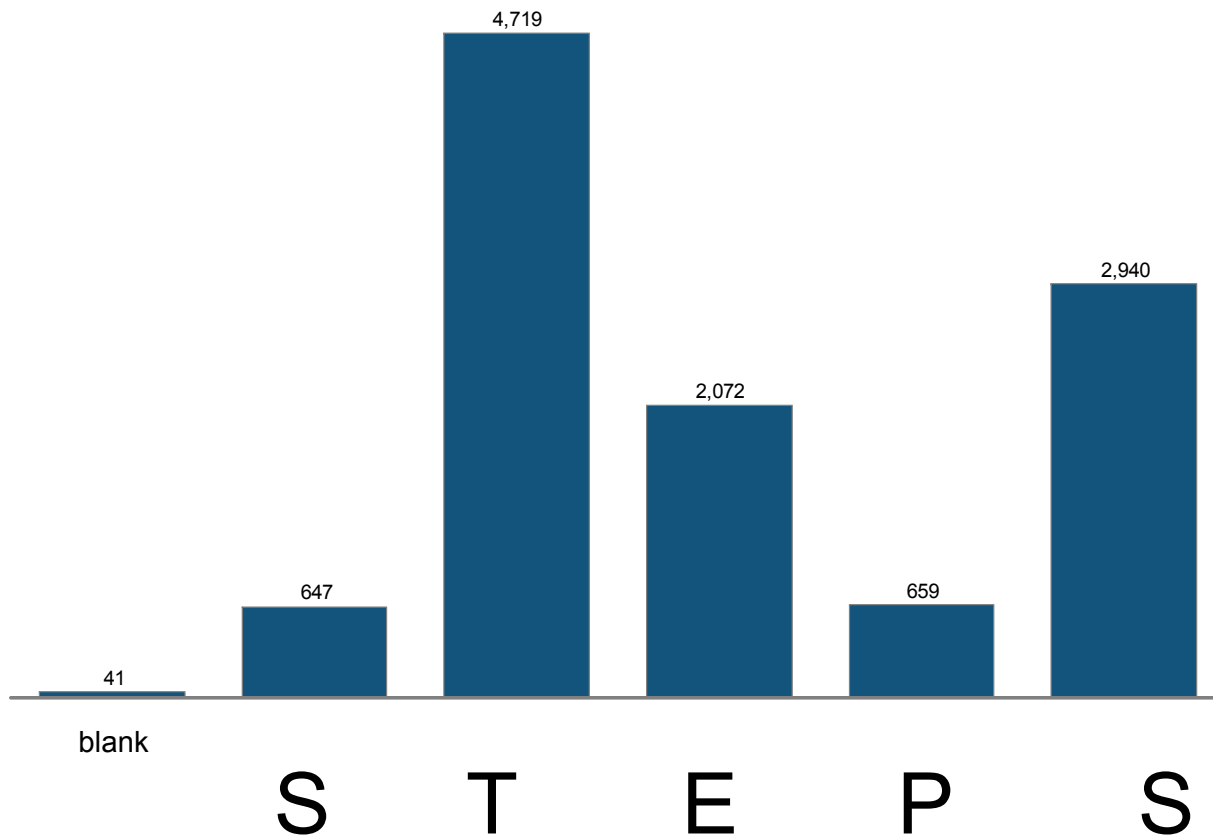




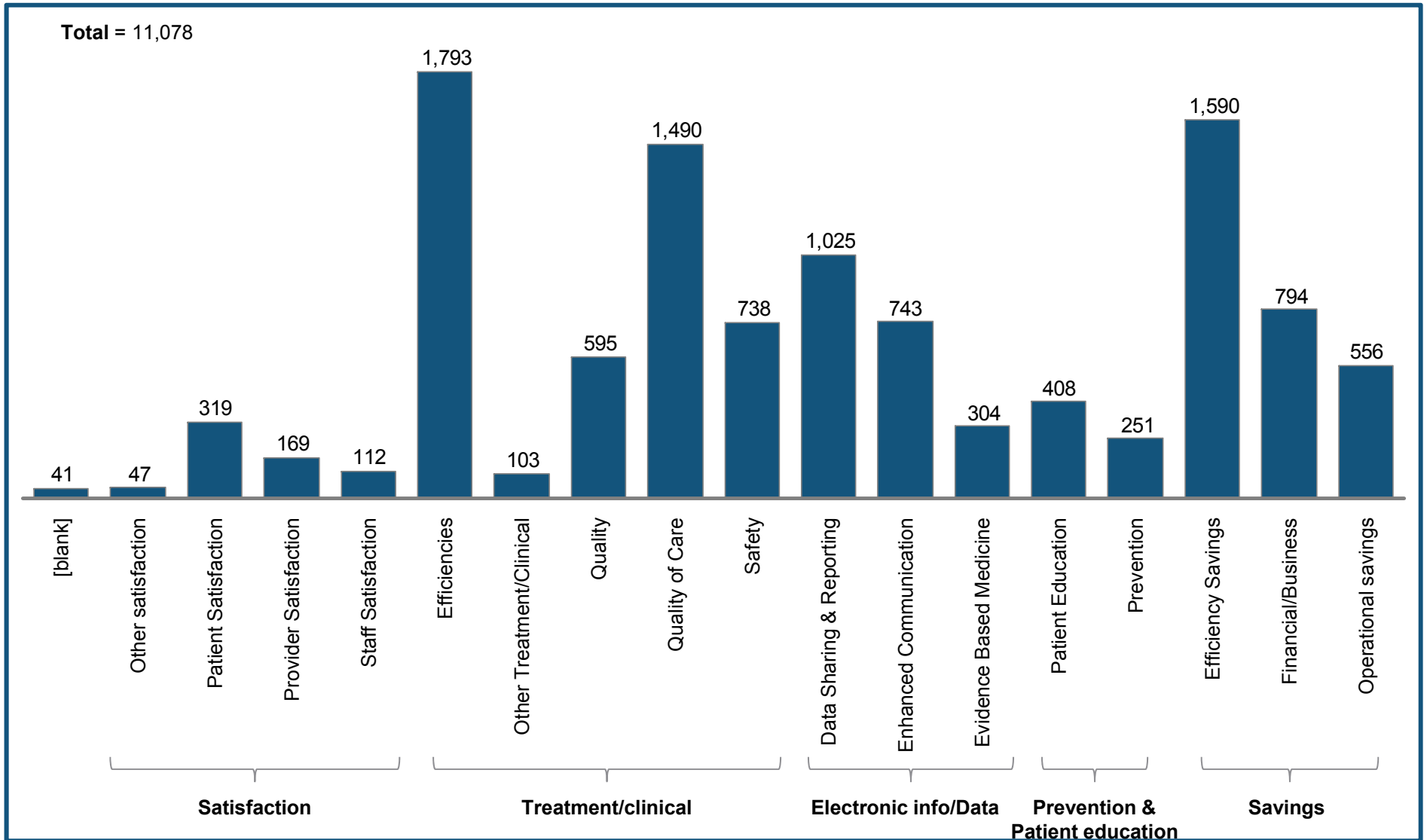
# Value Score

- Value Vocabulary
  - STEPS = *framework* for discussing, attributing value
  - Value Suite = *collection* of 11,000+ statements of derived value sorted into the STEPS framework
  - Value Realization Model = *model* based on value attainment; basis for advisory services
  - Value Score = *numeric score* from 0-10 (score can be calculated to hundredths (4.35, 5.60))

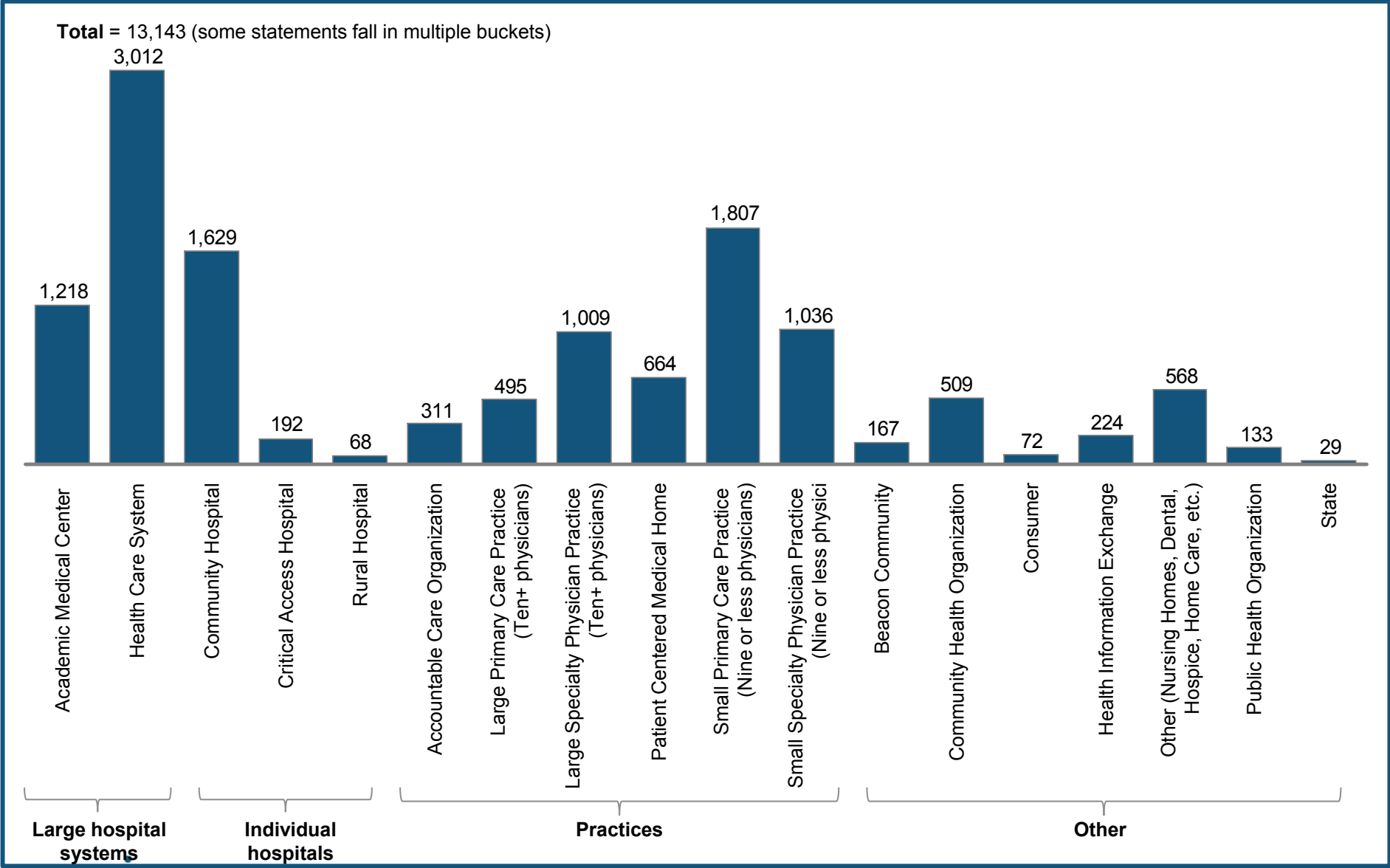
# Value Score by S-T-E-P-S



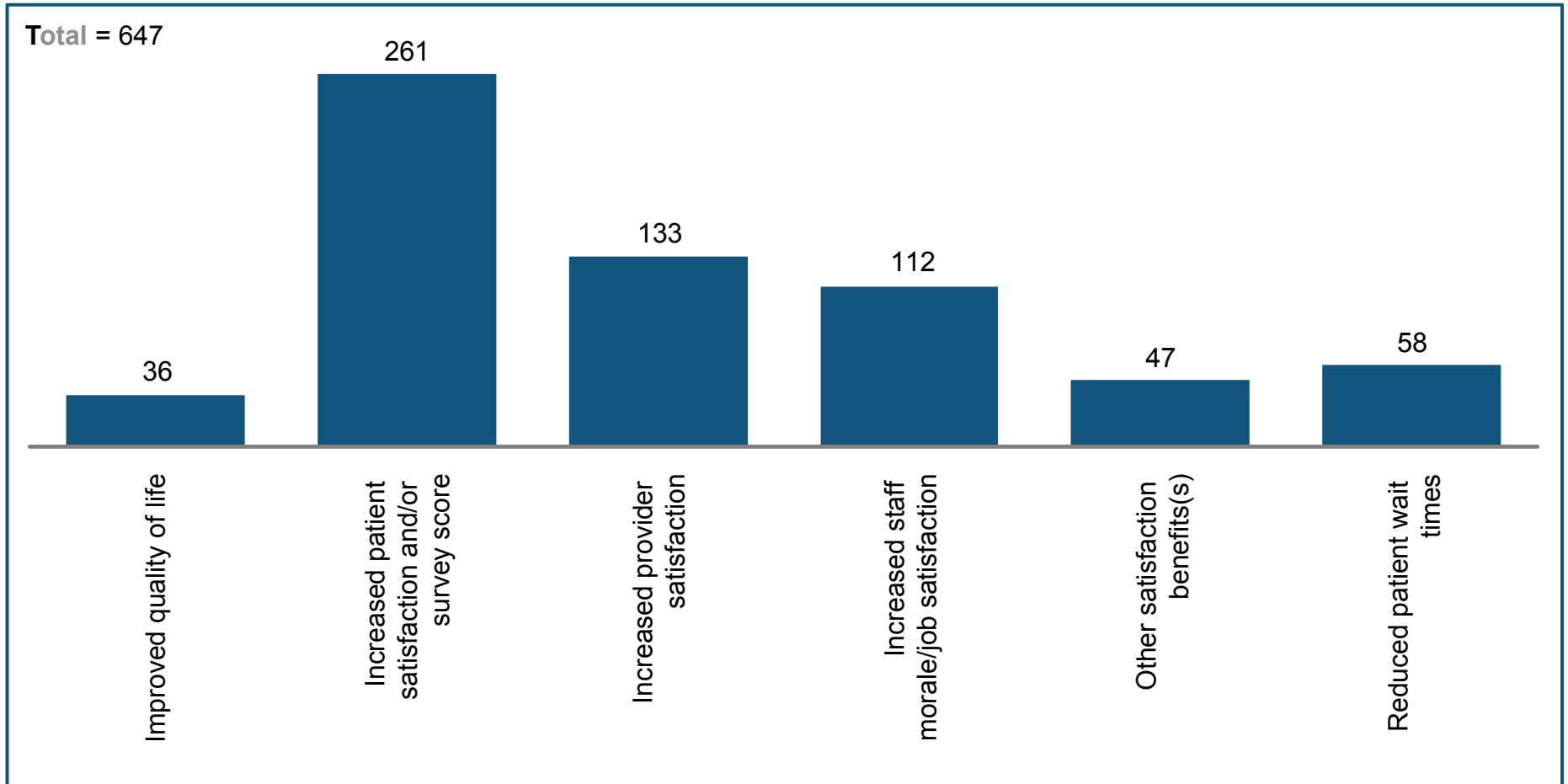
# Count of Value Statements by STEPS



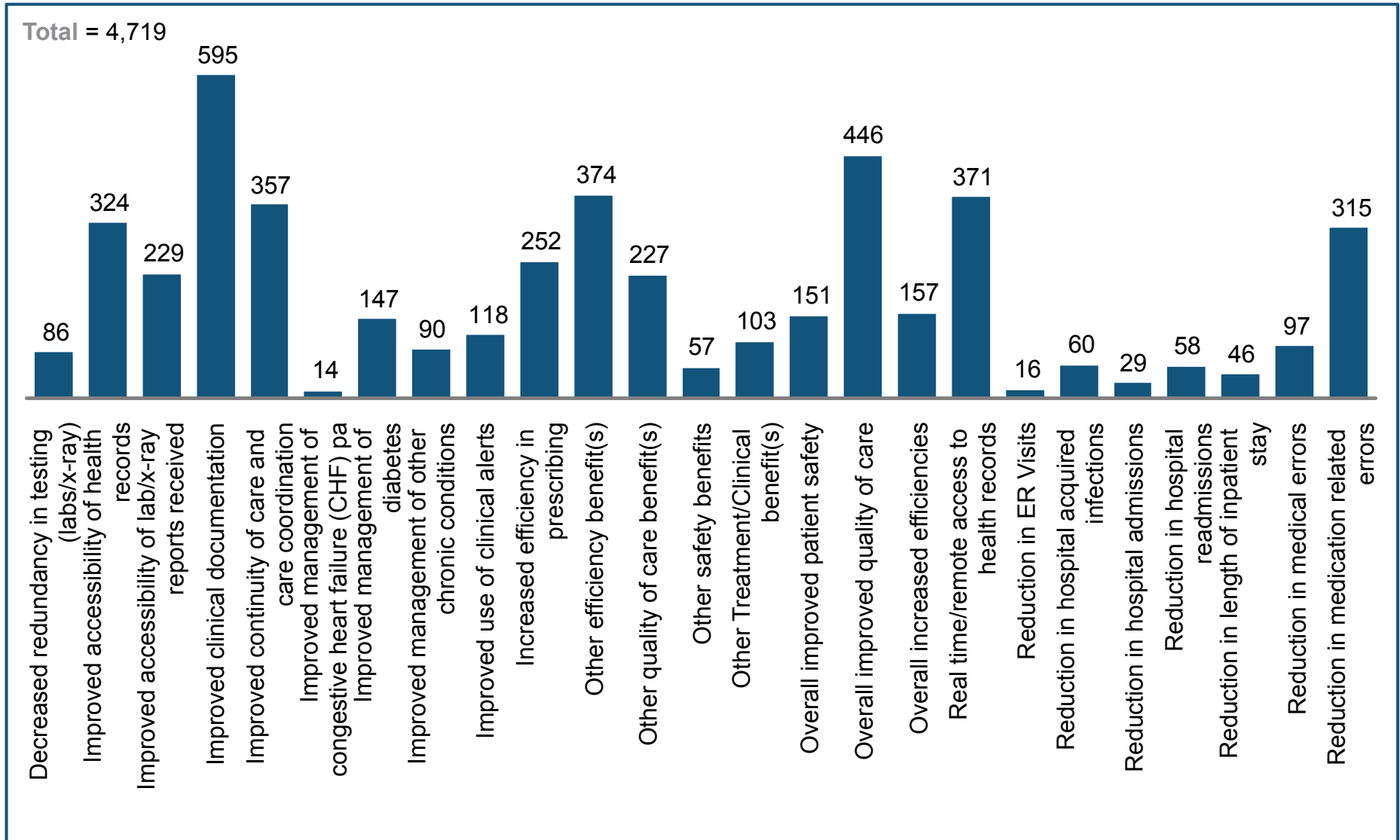
# Value Statements by provider type



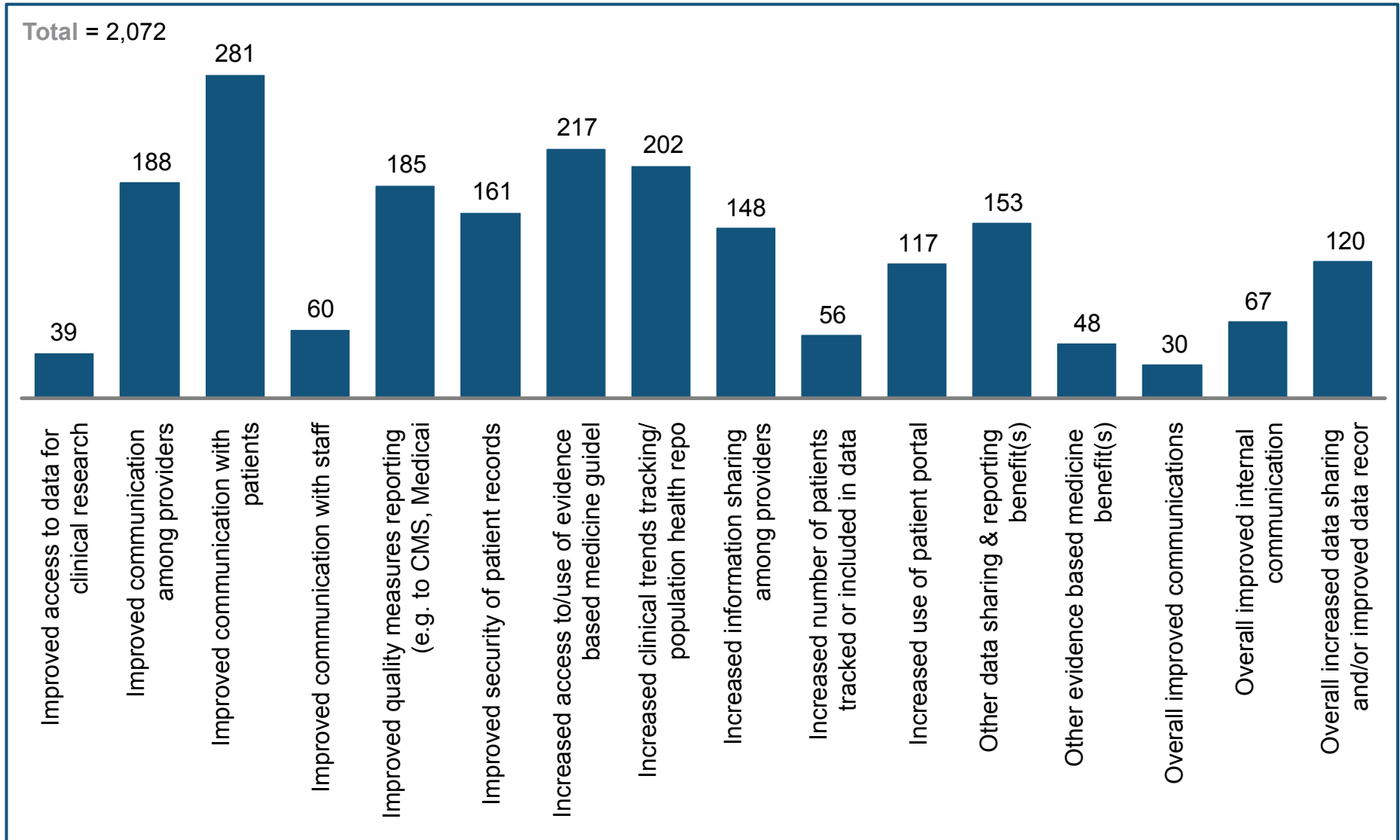
# STEPS: Satisfaction



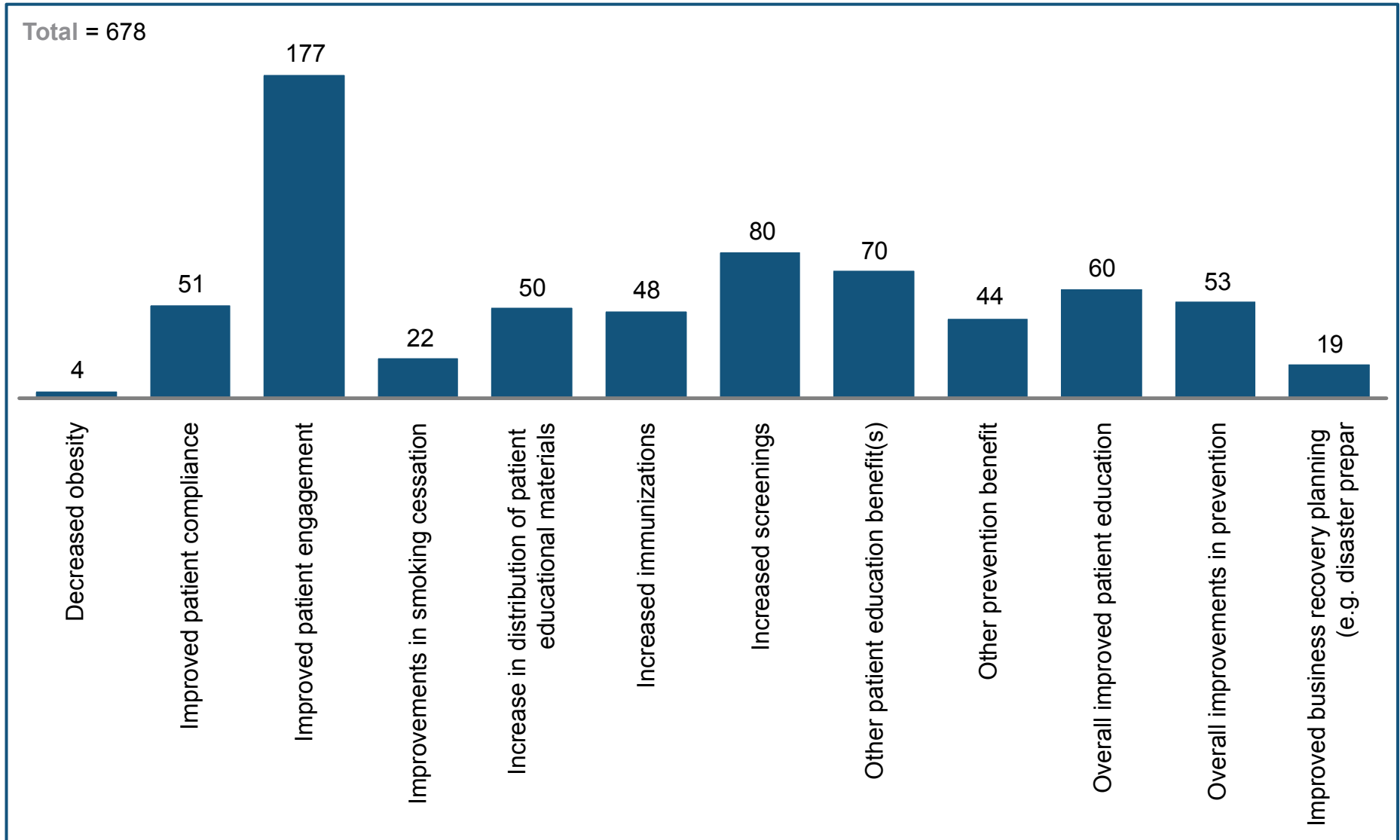
# STEPS: Treatment/clinical



# STEPS: Electronic info/Data

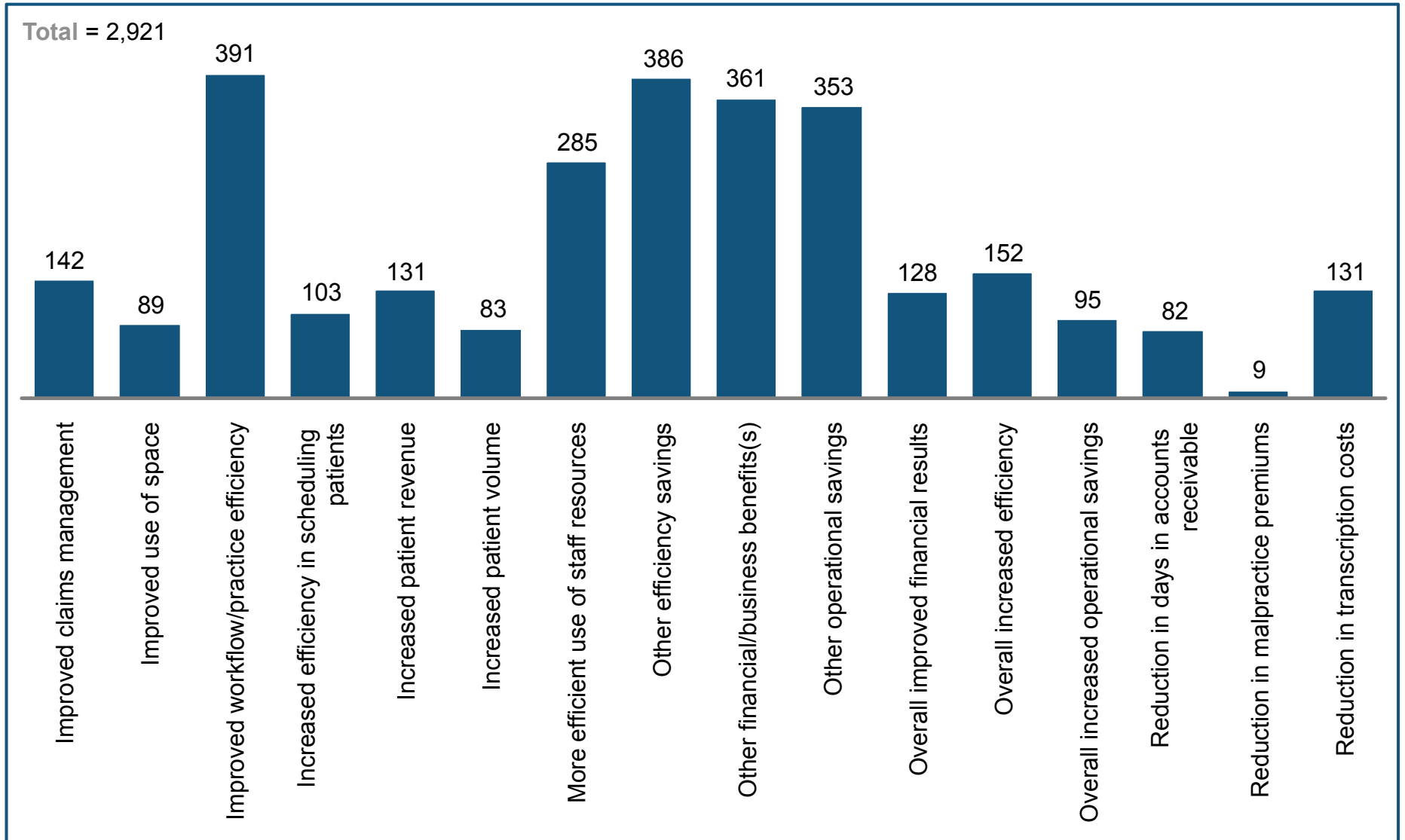


# STEPS: Patient education/Prevention





# STEPS: Savings



# Value Score

Review of the Value Suite Collection led to the concept of a Value Score

- Value Score + Analysis
- Value Score + Analysis+ Advisory Services

# SATISFACTION

## Satisfaction Score: Sample Areas

### Provider Satisfaction

- |   |  |  |  |
|---|--|--|--|
| • Do you have a formalized program for getting feedback from your physicians re: your EHR?                    |  |  |  |
| • Does this measurement program allow you to benchmark your performance against other provider organizations? |  |  |  |
| • How does physician satisfaction with the EHR at your organization compare to other organizations?           |  |  |  |

### Staff Satisfaction

- |   |  |  |  |
|---|--|--|--|
| • Do you have a formalized program for getting feedback from your staff re: your HIT?                         |  |  |  |
| • Does this measurement program allow you to benchmark your performance against other provider organizations? |  |  |  |
| • How does staff satisfaction with the HIT at your organization compare to other organizations?               |  |  |  |

# TREATMENT/CLINICAL

## Treatment/Clinical Score: Sample Areas

### Efficiencies

- Have you formally evaluated the impact of health information technology on the productivity of your clinical staff?
- What was the outcome of the evaluation?

### Quality of Care

- Have you formally evaluated the impact of health information technology against externally established quality metrics (e.g. The Joint Commission; Leapfrog)?
- What was the outcome of the evaluation?
- Have you formally evaluated the impact of health information technology against internally established measures of care?
- What was the outcome of the evaluation?

# ELECTRONIC SECURE DATA

## Electronic Secure Data Score: Sample Areas

### Security

- |   |  |  |  |
|---|--|--|--|
| <ul style="list-style-type: none"> <li>Does your organization have a formal documented risk analysis program designed to mitigate the threats and vulnerabilities to your electronic personal health information (ePHI)?</li> </ul> |  |  |  |
| <ul style="list-style-type: none"> <li>Does this risk analysis program specifically include networked medical devices?</li> </ul>   |  |  |  |
| <ul style="list-style-type: none"> <li>Does this risk analysis program specifically include mobile health (mHealth) technologies?</li> </ul>  |  |  |  |

### Data Sharing and Reporting

- |   |  |  |  |
|---|--|--|--|
| <ul style="list-style-type: none"> <li>Is your organization able to securely transfer electronic personal health information (ePHI) to providers outside of your organization?</li> </ul> |  |  |  |
|---|--|--|--|

### Analytics

- |  |  |  |  |
|--|--|--|--|
| <ul style="list-style-type: none"> <li>The extent to which predictive analytics are used on an ongoing basis to drive patient care processes.</li> </ul> |  |  |  |
|--|--|--|--|

### EMRAM Score

- |  |  |  |  |  |
|--|--|--|--|--|
| <ul style="list-style-type: none"> <li>What is your HIMSS Analytics EMR Adoption Score?</li> </ul> |  |  |  |  |
|--|--|--|--|--|

# Patient Engagement & Population Health

## Prevention & Patient Education Score: Sample Areas

### Patient Engagement

• Does your organization have a formal documented patient engagement strategy?				
• Do you have a patient portal or API?				
• Have you formally evaluated the impact of your patient portal on patient compliance?				
• What was the outcome of the evaluation?				

### Population Health

• Does your organization have a formal documented population health strategy?				
• What impact is health information technology having on managing your defined population?				

# SAVINGS

## Savings Score: Sample Areas

### Efficiency Savings

- Have you formally evaluated the financial impact of health information technology on the productivity of your clinical staff?

- What was the outcome of the evaluation?

- What savings have you realized through process improvement enabled by HIT?

### Financial/Business

- Have you formally evaluated the impact of health information technology on coding accuracy?

- What was the outcome of the evaluation?

### Operational Savings

- Have you formally evaluated the impact of health information technology on your inventory control?

- What was the outcome of the evaluation?

# Value Score

<b>Completeness</b>	<ul style="list-style-type: none"><li>▪ Hospitals can get credit for a large range of activities that lead to better value</li></ul>
<b>Incremental opportunities</b>	<ul style="list-style-type: none"><li>▪ Additional activities can lead to higher scores in a large variety of ways</li><li>▪ Achieving the highest score possible in any domain should mean that a hospital has done all it can do to achieve value in that domain</li><li>▪ Score can be broken down into segments, with a potential gap analysis possible in each segment</li></ul>
<b>Temporal comparability</b>	<ul style="list-style-type: none"><li>▪ Rating system should allow for hospitals to track their progress over time</li><li>▪ Components would be added and adjusted over time</li><li>▪ Existing components would have limited ability to be changed over time, similar to how EMRAM changes in very minor ways</li></ul>
<b>Organizational comparability</b>	<ul style="list-style-type: none"><li>▪ Over time should allow use of the rating to benchmark hospitals and systems against each other, allowing it to become a method that consumers and payors use to do better "shopping"</li></ul>
<b>Confidential algorithm</b>	<ul style="list-style-type: none"><li>▪ Scoring algorithm should be held privately within HIMSS and be sufficiently complex that external parties cannot re-engineer it</li></ul>



# Value Score/Timeline

Quarter /Year	Task
Solicit from Stage7/Davies - Pilots	FY 15 4 <sup>th</sup> quarter/ FY 16 1 <sup>st</sup> quarter
Conduct Pilots	FY 16 1 <sup>st</sup> quarter
Reevaluate Scoring Based on Pilot Input	FY 16 2 <sup>nd</sup> quarter
Soft Launch	National HIT Week
Launch	HIMSS16

# Value Score

## Questions?