Appendix A1. General Characteristics of Sponsoring Institutions (SIs)

A1.1. Sponsoring Institution Distribution by Region and Type

	SIs with CLER Visits %	All SIs %
Total	n=297	N=696
Region		
Northeast	29.6	24.4
Midwest	25.9	23.3
South	29.3	29.9
West	14.1	20.8
Territory ^a	1.0	1.6
Type of SI		
General/teaching hospital	60.9	57.8
Medical school or health science center	26.6	14.8
Educational consortium	3.4	3.0
Children's hospital	4.0	2.4
Other	5.1	22.0

A1.2. Sponsoring Institution Distribution by Number of ACGME-Accredited Residency and Fellowship Programs, and Participating Sites

	SIs with CLER Visits %	All SIs %
Total	n=297	N=696
Number of Programs		
<8 programs	26.9	67.7
8-17 programs	23.2	11.1
18-48 programs	24.9	10.5
>48 programs	24.9	10.8
Number of Core Programs		
<5 core programs	30.0	65.2
5-8 core programs	20.2	10.6
9-21 core programs	26.6	12.8
>21 core programs	23.2	11.4
Number of Participating Sites		
<9 sites	25.9	61.6
9-16 sites	25.3	15.8
17-29 sites	25.6	12.4
>29 sites	23.2	10.2

Note. ^aLimited to three SIs in Puerto Rico.

A1.3. Number and Distribution of Core Faculty Members at Sponsoring Institutions by Specialty Grouping

	SIs with CLER Visits	All SIs
Total	% n=55,367	% N=59,949
	•	•
Medical	32.3	35.5
Surgical	39.5	37.3
Hospital-based	28.2	27.2

A1.4. Number and Distribution of Residents and Fellows at Sponsoring Institutions by Gender, Level of Training, and Specialty Grouping

	SIs with CLER Visits %	All SIs %
Total	n=111,482	N=123,387
Gender		
Male	52.4	52.2
Female	43.9	44.3
Unknown	3.7	3.6
Level of Training		
PGY-1	36.3	36.6
PGY-2	27.8	28.0
PGY-3	25.0	25.3
PGY-4+	10.9	10.1
Specialty Group		
Medical	57.4	60.1
Surgical	21.8	20.3
Hospital-based	20.8	19.5

Appendix A2. General Characteristics of Clinical Learning Environments^a

A2.1. Clinical Learning Environment Distribution by Type of Ownership and Services

	SIs with CLER Visits %	Teaching Hospitals ^b %	All Hospitals %
Total	n=297	n=323	N=6,295
Type of Ownership			
Nongovernment, not-for-profit	69.4	65.3	50.0
Investor-owned, for-profit	5.4	3.1	26.1
Government, federal	3.7	14.2	3.4
Government, nonfederal	21.5	17.3	20.5
Service for Majority of Patients			
General medical and surgical	94.6	91.6	75.8
Other ^c	5.4	8.4	24.2

Note. SIs=Sponsoring Institutions.

A2.2. Clinical Learning Environment Distribution by Beds and Staffing

	CLER Program Median (IQR)	Teaching Hospitals Median (IQR)	All Hospitals Median (IQR)
Total number of licensed beds	610 (456-832)	600 (407-798)	101 (40-254)
Total number of staffed beds	520 (343-700)	496 (327-686)	83 (33-200)
Staff ^{de}			
Registered nurses	1,348 (781-2,000)	1,324 (744-1,977)	102 (44-327)
Clinical staff	749 (749-1,242)	703 (422-1,164)	93 (47-227)
All other personnel	2,107 (1,200-3,051)	2,064 (1,300-3,117)	211 (89-558)

Note. IQR=Interquartile range.

Note. ^aBased on the 2013 American Hospital Association Annual Survey. ^bMember of Council of Teaching Hospital of the Association of American Medical Colleges. ^cIncludes psychiatric, rehabilitation, acute long-term care hospital, children's general medical and surgical, and other types of services. ^dPhysicians, residents, interns, and other trainees omitted from staff count. ^eFull-time and part-time personnel only; excludes full-time and part-time equivalent personnel.

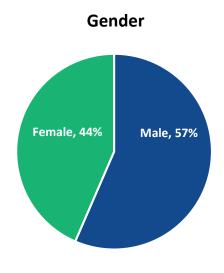
Appendix A3. Clinical Learning Environments Visited: Number of Programs at Site^a

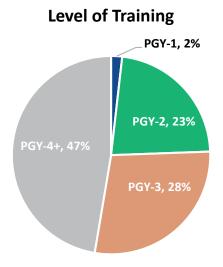
	SIs with CLER Visits %
Total	n=297
Number of Programs at Site	
<7 programs	25.3
7-15 programs	24.9
16-43 programs	25.6
>43 programs	24.2
Number of Core Programs at Site	
<5 core programs	33.0
5-8 core programs	19.2
9-19 core programs	23.2
>19 core programs	24.6

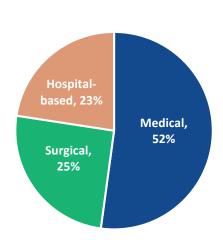
Appendix A4. CLER Visits: Characteristics of Groups Interviewed^a

A4.1. Selected Characteristics of Residents and Fellows in the Group Interviews

	%
Total	N=8,755
Gender*	
Male	56.5
Female	43.5
Level of Training*	
PGY-1	1.8
PGY-2	22.6
PGY-3	28.2
PGY-4+	47.3
Specialty Group*	
Medical	52.2
Surgical	25.3
Hospital-based	22.6





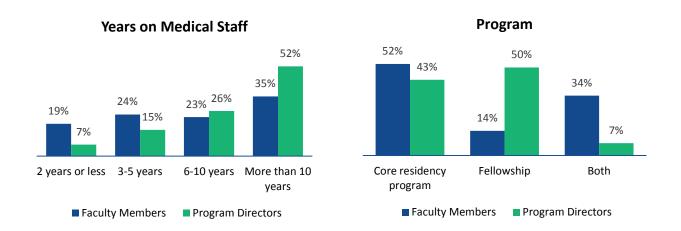


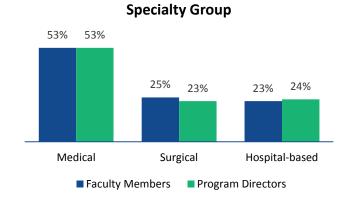
Specialty Group

Note. ^aBased on audience response system data. *Missing data (<2.0%) has been omitted; percentages based on valid percent.

A4.2. Selected Characteristics of Faculty Members and Program Directors in the Group Interviews

	Faculty Members %	Program Directors %
Total	N=7,740	N=5,599
Number of Years at Hospital or Medical Center*		
2 years or less	18.7	6.7
3-5 years	24.1	15.2
6-10 years	22.6	26.1
More than 10 years	34.6	52.0
Program*		
Core residency program	51.8	43.1
Fellowship	14.2	49.8
Both	34.0	7.1
Specialty Group*		
Medical	52.9	52.8
Surgical	24.5	23.1
Hospital-based	22.6	24.1





Note. *Missing data (<2.0%) has been omitted; percentages based on valid percent.

Appendix B. Selected Results from Resident and Fellow Group Interviews^a

B1. Percentage of residents and fellows who reported knowing the clinical site's priorities in the area of patient safety

Percent of Total Surveyed^b (n=8,663)

74

Percent by Resident and Fellow Characteristics and CLE Characteristics (n=8,663)

Resident and Fellow Gender, Level		
of Training, and Specialty Grouping		
Gender*		
Male	73	
Female	76	
Level of Training		
PGY-1	80	
PGY-2	75	
PGY-3	74	
PGY-4+	74	
Specialty Group*		
Medical	73	
Surgical	76	
Hospital-based	76	
CLE Region, Bed Size, and Type of		
Ownership		
<u> </u>		
Region ^{c*}		
Region ^c * Northeast	76	
Region ^{c*} Northeast Midwest	75	
Region ^{c*} Northeast Midwest South	75 72	
Region ^{c*} Northeast Midwest South West	75	
Regionc* Northeast Midwest South West Bed Size**	75 72 72	
Regionc* Northeast Midwest South West Bed Size** <200 beds	75 72 72 79	
Regionc* Northeast Midwest South West Bed Size** <200 beds 200-299 beds	75 72 72 79 83	
Regionc* Northeast Midwest South West Bed Size** <200 beds 200-299 beds 300-399 beds	75 72 72 79 83 77	
Regionc* Northeast Midwest South West Bed Size** <200 beds 200-299 beds 300-399 beds 400-499 beds	75 72 72 79 83 77 73	
Regionc* Northeast Midwest South West Bed Size** <200 beds 200-299 beds 300-399 beds 400-499 beds 500 or more beds	75 72 72 79 83 77	
Regionc* Northeast Midwest South West Bed Size** <200 beds 200-299 beds 300-399 beds 400-499 beds 500 or more beds Type of Ownership*	75 72 72 79 83 77 73	
Regionc* Northeast Midwest South West Bed Size** <200 beds 200-299 beds 300-399 beds 400-499 beds 500 or more beds Type of Ownership* Nongovernment, not-for-profit	75 72 72 79 83 77 73 73	
Regionc* Northeast Midwest South West Bed Size** <200 beds 200-299 beds 300-399 beds 400-499 beds 500 or more beds Type of Ownership* Nongovernment, not-for-profit Investor-owned, for-profit	75 72 72 79 83 77 73 73 74	
Regionc* Northeast Midwest South West Bed Size** <200 beds 200-299 beds 300-399 beds 400-499 beds 500 or more beds Type of Ownership* Nongovernment, not-for-profit	75 72 72 79 83 77 73 73	

Distribution across CLEsd Median=78 IQR=67-91 Percent of Residents and Fellows

Note. ^aAll percentages are rounded to whole numbers (values of .50 or above are rounded to the next highest whole number). ^bMissing data=92. ^cResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. ^dDistribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.01. **Statistically significant at p<.001.

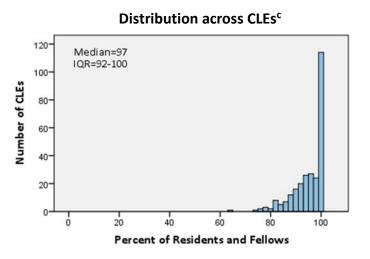
B2. Percentage of residents and fellows who reported knowing the clinical site's process for reporting an adverse event, near miss/close call, or unsafe condition in patient care

Percent of Total Surveyeda (n=8,616)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=8,616)

Resident and Fellow Gender, Level		
of Training, and Specialty Grouping	I	
Gender		
Male	94	
Female	95	
Level of Training*		
PGY-1	91	
PGY-2	95	
PGY-3	95	
PGY-4+	94	
Specialty Group		
Medical	95	
Surgical	94	
Hospital-based	94	
CLE Region, Bed Size, and Type of		
Ownership		
Region ^{b*}		
Northeast	95	
Midwest		
	95	
South	95 94	
South West		
	94	
West	94	
West Bed Size**	94 93	
West Bed Size** <200 beds	94 93 98	
West Bed Size** <200 beds 200-299 beds	94 93 98 97	
West Bed Size** <200 beds 200-299 beds 300-399 beds	94 93 98 97 96	
West Bed Size** <200 beds 200-299 beds 300-399 beds 400-499 beds	94 93 98 97 96 93	
West Bed Size** <200 beds 200-299 beds 300-399 beds 400-499 beds 500 or more beds	94 93 98 97 96 93	
West Bed Size** <200 beds 200-299 beds 300-399 beds 400-499 beds 500 or more beds Type of Ownership*	94 93 98 97 96 93 94	
West Bed Size** <200 beds 200-299 beds 300-399 beds 400-499 beds 500 or more beds Type of Ownership* Nongovernment, not-for-profit	94 93 98 97 96 93 94	



Note. ^aMissing data=139. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. ^cDistribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.05. **Statistically significant at p<.0001.

100

B3. Percentage of residents and fellows who reported experiencing an adverse event, near miss/close call, or unsafe condition

Number of CLEs

10-

Percent of Total Surveyeda (n=8,629)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=8,629)

Resident and Fellow Gender, Level		
of Training, and Specialty Grouping		
Gender*		
Male	67	
Female	70	
Level of Training**		
PGY-1	50	
PGY-2	68	
PGY-3	74	
PGY-4+	66	
Specialty Group**		
Medical	68	
Surgical	71	
Hospital-based	64	
CLE Region, Bed Size, and Type of		
Ownership		
Region ^b		
Northeast	68	
Midwest	68	
South	68	
West	67	
Bed Size		
<200 beds	62	
200-299 beds	68	
300-399 beds	70	
400-499 beds	67	
500 or more beds	68	
Type of Ownership		
Nongovernment, not-for-profit	68	
Investor-owned, for-profit	66	
Government, federal	71	
Government, nonfederal	68	

50- Median=68 IQR=57-76 40- 30- 20-

Percent of Residents and Fellows

Distribution across CLEs^c

Note. ^aMissing data=126. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. ^cDistribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.01. **Statistically significant at p<.001.

B4. Percentage of residents and fellows who reported experiencing an adverse event, near miss/close call, or unsafe condition and submitted a report through the clinical site's reporting system

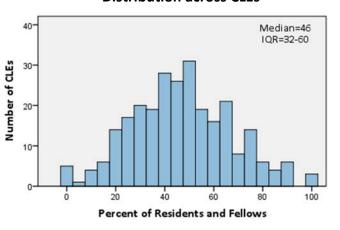
Percent of Total Surveyed^a (n=5,768)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=5,768)

Resident and Fellow Gender, Level of Training, and Specialty Grouping	
Gender	
Male	47
Female	47
Level of Training*	
PGY-1	36
PGY-2	47
PGY-3	48
PGY-4+	46
Specialty Group*	
Medical	51
Surgical	46
Hospital-based	37
CLE Region, Bed Size, and Type of	
Ownership	
Region ^{b*}	
Northeast	50
Midwest	48
South	44
West	42
Bed Size*	
<200 beds	48
200-299 beds	61
300-399 beds	49
400-499 beds	45
500 or more beds	45
Type of Ownership*	
Nongovernment, not-for-profit	48
Investor-owned, for-profit	38
Government, federal	57
Government, nonfederal	45

Distribution across CLEs^c



Note. ^aMissing data=98. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. ^cDistribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.0001.

B5. Percentage of residents and fellows who reported a near miss/close call event

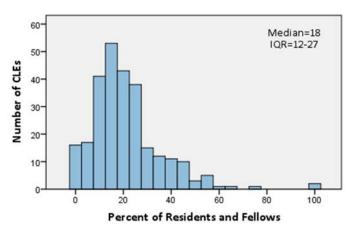
Percent of Total Surveyeda (n=8,665)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=8,665)

Resident and Fellow Gender, Level of Training, and Specialty Grouping	
Gender	
Male	20
Female	21
Level of Training**	
PGY-1	12
PGY-2	20
PGY-3	23
PGY-4+	19
Specialty Group**	
Medical	22
Surgical	19
Hospital-based	17
CLE Region, Bed Size, and Type of Ownership	
Region ^{b**}	
Northeast	23
Midwest	19
South	19
West	17
Bed Size**	
<200 beds	16
200-299 beds	26
300-399 beds	21
400-499 beds	18
500 or more beds	20
Type of Ownership*	
Nongovernment, not-for-profit	21
Investor-owned, for-profit	20
Government, federal	23
Government, nonfederal	18

Distribution across CLEs^c



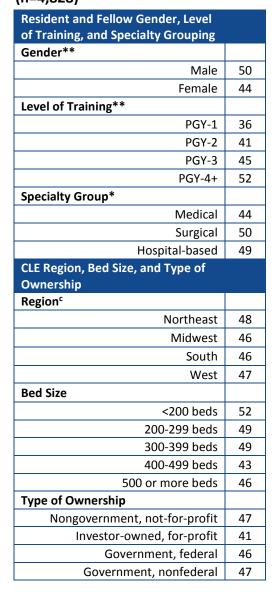
Note. ^aMissing data=90. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. ^cDistribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.01. **Statistically significant at p<.0001.

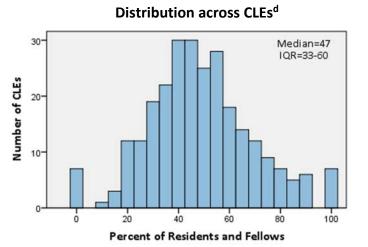
B6. Percentage of residents and fellows who reported receiving feedback on the outcome of a report submitted through the clinical site's reporting system

Percent of Total Surveyed^b (n=4,828)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=4,828)





Note. ^aReport submitted by resident or fellow or through a nurse or supervisor. ^bMissing data=426. ^cResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. ^dDistribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.001. **Statistically significant at p<.0001.

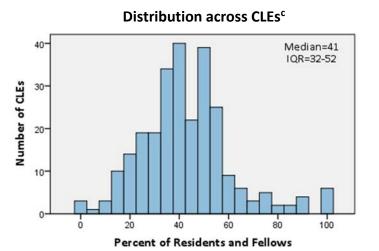
B7. Percentage of residents and fellows (PGY-3 and above) who reported participating in an interprofessional (physicians, nurses, administrators, others) investigation of a patient event (e.g., root cause analysis)

Percent of Total Surveyed^a (n=6,369)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=6,369)

Resident and Fellow Gender, Level	
of Training, and Specialty Grouping	
Gender	
Male	40
Female	42
Level of Training	
PGY-3	42
PGY-4+	40
Specialty Group**	
Medical	40
Surgical	45
Hospital-based	37
CLE Region, Bed Size, and Type of	
Ownership	
Region ^{b**}	
Northeast	44
Midwest	40
South	37
West	42
Bed Size	
<200 beds	41
200-299 beds	41
300-399 beds	38
400-499 beds	39
500 or more beds	42
Type of Ownership*	
Nongovernment, not-for-profit	42
Investor-owned, for-profit	35
Government, federal	41
Government, nonfederal	38



Note. ^aMissing data=120. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. ^cDistribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.01. **Statistically significant at p<.0001.

B8. Percentage of residents and fellows (PGY-2 and above) who reported knowing the clinical site's priorities in the area of quality improvement

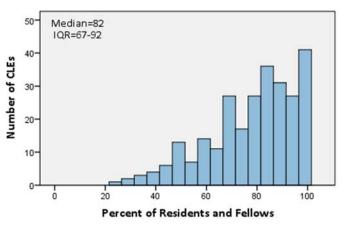
Percent of Total Surveyed^a (n=8,315)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=8,315)

Resident and Fellow Gender, Level of Training, and Specialty Grouping	
Gender	
Male	74
Female	75
Level of Training**	
PGY-2	77
PGY-3	75
PGY-4+	73
Specialty Group***	
Medical	75
Surgical	78
Hospital-based	69
CLE Region, Bed Size, and Type of	
Ownership	
Region ^{b*}	
Northeast	76
Midwest	74
South	74
West	73
Bed Size***	
<200 beds	76
200-299 beds	86
300-399 beds	76
400-499 beds	73
500 or more beds	73
Type of Ownership***	
Nongovernment, not-for-profit	75
Investor-owned, for-profit	83
Government, federal	75
Government, nonfederal	71

Distribution across CLEs^c



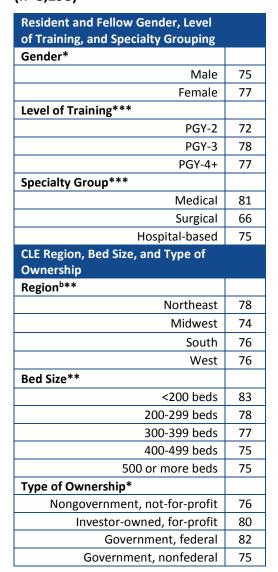
Note. ^aMissing data=112. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. ^cDistribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.05. **Statistically significant at p<.01. ***Statistically significant at p<.001.

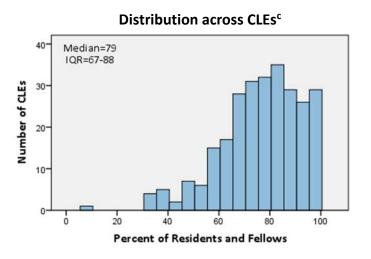
B9. Percentage of residents and fellows (PGY-2 and above) who reported participating in a quality improvement project of their own design or one designed by their program or department

Percent of Total Surveyeda (n=8,298)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=8,298)





Note. ^aMissing data=129. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. ^cDistribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.05. **Statistically significant at p<.01. ***Statistically significant at p<.001.

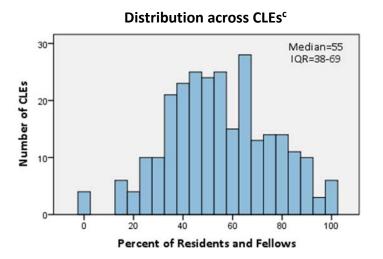
B10. Percentage of residents and fellows who reported participating in a quality improvement project linked to one or more of the clinical site's quality improvement goals

Percent of Total Surveyeda (n=6,154)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=6,154)

Resident and Fellow Gender, Level	
of Training, and Specialty Grouping	ı
Gender	
Male	52
Female	53
Level of Training**	
PGY-2	57
PGY-3	52
PGY-4+	50
Specialty Group**	
Medical	52
Surgical	59
Hospital-based	45
CLE Region, Bed Size, and Type of	
Ownership	
Region ^{b**}	
Northeast	56
Midwest	49
South	51
West	52
Bed Size**	
<200 beds	55
200-299 beds	66
300-399 beds	50
400-499 beds	55
500 or more beds	50
Type of Ownership*	
Nongovernment, not-for-profit	53
Investor-owned, for-profit	46
Government, federal	58
Government, nonfederal	50



Note. ^aMissing data=135. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. ^cDistribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.05. **Statistically significant at p<.0001.

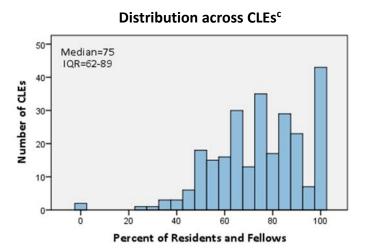
B11. Percentage of residents and fellows who reported being engaged in interprofessional quality improvement teams (e.g., nurses, administrators, pharmacists, etc.) while participating in a quality improvement project directly linked to one or more of the clinical site's quality improvement goals

Percent of Total Surveyed^a (n=3,133)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=3,133)

Resident and Fellow Gender, Level	
of Training, and Specialty Grouping	
Gender	
Male	75
Female	74
Level of Training	
PGY-2	75
PGY-3	73
PGY-4+	75
Specialty Group*	
Medical	74
Surgical	78
Hospital-based	70
CLE Region, Bed Size, and Type of	
Ownership	
Region ^{b**}	
Northeast	74
Midwest	79
South	73
West	70
Bed Size*	
<200 beds	70
200-299 beds	80
300-399 beds	71
400-499 beds	71
500 or more beds	75
Type of Ownership	
Nongovernment, not-for-profit	75
Investor-owned, for-profit	67
Government, federal	73
Government, nonfederal	75



Note. ^aMissing data=88. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. ^cDistribution includes 88% or more of the 297 CLEs. *Statistically significant at p<.01. **Statistically significant at p<.0001.

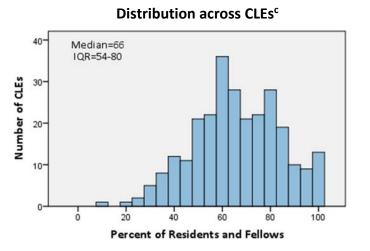
B12. Percentage of residents and fellows who reported having ready access to organized systems for collecting and analyzing data for the purpose of quality improvement

Percent of Total Surveyed^a (n=8,549)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=8,549)

Resident and Fellow Gender, Level	
of Training, and Specialty Grouping	
Gender	
Male	62
Female	63
Level of Training	
PGY-1	58
PGY-2	61
PGY-3	62
PGY-4+	64
Specialty Group	
Medical	62
Surgical	62
Hospital-based	65
CLE Region, Bed Size, and Type of	
Ownership	
Region ^b	
Northeast	64
Midwest	62
South	63
West	63
Bed Size**	
<200 beds	70
200-299 beds	67
300-399 beds	63
400-499 beds	62
500 or more beds	62
Type of Ownership*	
Nongovernment, not-for-profit	64
-	58
Investor-owned, for-profit Government, federal	58 66



Note. a Missing data=206. b Results from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. c Distribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.05. **Statistically significant at p<.01.

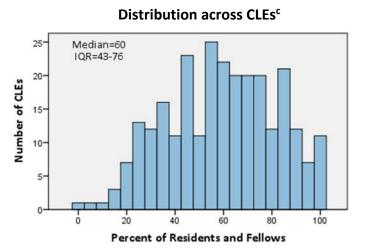
B13. Percentage of residents and fellows who reported knowing the clinical site's priorities with regard to addressing health care disparities

Percent of Total Surveyeda (n=8,607)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=8,607)

Resident and Fellow Gender, Level of Training, and Specialty Grouping	
Gender	
Male	55
Female	56
Level of Training**	
PGY-1	63
PGY-2	59
PGY-3	55
PGY-4+	53
Specialty Group*	
Medical	55
Surgical	57
Hospital-based	52
CLE Region, Bed Size, and Type of Ownership	
Region ^{b**}	
Northeast	57
Midwest	56
South	53
West	53
Bed Size**	
<200 beds	62
200-299 beds	64
300-399 beds	58
400-499 beds	55
500 or more beds	53
Type of Ownership	
Nongovernment, not-for-profit	55
Investor-owned, for-profit	55
Government, federal	54
Government, nonfederal	56



Note. $^{\rm a}$ Missing data=148. $^{\rm b}$ Results from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. $^{\rm c}$ Distribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.05. **Statistically significant at p<.0001.

B14. Percentage of residents and fellows who reported following a standardized process for handling transitions of care during hand-offs between shifts

Percent of Total Surveyed^a (n=8,471)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=8,471)

Resident and Fellow Gender, Level	
of Training, and Specialty Grouping	
Gender*	
Male	87
Female	89
Level of Training***	
PGY-1	94
PGY-2	91
PGY-3	91
PGY-4+	84
Specialty Group***	
Medical	90
Surgical	90
Hospital-based	80
CLE Region, Bed Size, and Type of	
Ownership	
Region ^{b**}	
Northeast	89
Midwest	86
South	88
West	88
Bed Size***	
<200 beds	95
200-299 beds	93
300-399 beds	89
400-499 beds	87
500 or more beds	86
Type of Ownership***	
Nongovernment, not-for-profit	87
Investor-owned, for-profit	89
Government, federal	96
Government, nonfederal	88

Distribution across CLEs^c 80 Median=92 IQR=84-100 Percent of Residents and Fellows

Note. ^aMissing data=284. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. ^cDistribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.05. **Statistically significant at p<.01. ***Statistically significant at p<.001.

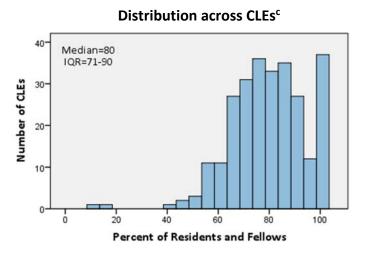
B15. Percentage of residents and fellows who reported following a standardized process that included a standardized written template for communication for handling transitions of care during hand-offs between shifts

Percent of Total Surveyed^a (n=7,262)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=7,262)

Resident and Fellow Gender, Level	
of Training, and Specialty Grouping	
Gender*	
Male	75
Female	82
Level of Training*	
PGY-1	86
PGY-2	84
PGY-3	83
PGY-4+	71
Specialty Group*	
Medical	84
Surgical	76
Hospital-based	63
CLE Region, Bed Size, and Type of	
Ownership	
Region ^{b*}	
Northeast	80
Midwest	76
South	77
West	76
Bed Size*	
<200 beds	82
200-299 beds	85
300-399 beds	80
400-499 beds	75
500 or more beds	77
Type of Ownership	
Nongovernment, not-for-profit	78
Investor-owned, for-profit	76
Government, federal	84
Government, nonfederal	78



Note. ^aMissing data=163. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. ^cDistribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.0001.

B16. Percentage of residents and fellows who reported having been placed, or witnessing one of their peers placed, in a situation where they believed there was inadequate supervision at the clinical site (e.g., the attending wasn't available)

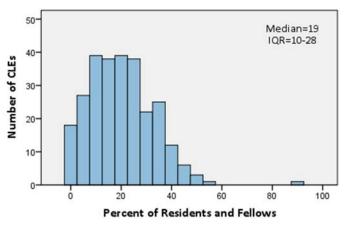
Percent of Total Surveyed^a (n=8,542)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=8,542)

Resident and Fellow Gender, Level of Training, and Specialty Grouping	
Gender**	
Male	20
Female	24
Level of Training*	
PGY-1	17
PGY-2	23
PGY-3	24
PGY-4+	20
Specialty Group**	
Medical	21
Surgical	20
Hospital-based	26
CLE Region, Bed Size, and Type of Ownership	
Region ^b	
Northeast	21
Midwest	21
South	22
West	
	23
Bed Size	23
Bed Size <200 beds	23 17
<200 beds	17
<200 beds 200-299 beds	17 20
<200 beds 200-299 beds 300-399 beds	17 20 23
<200 beds 200-299 beds 300-399 beds 400-499 beds	17 20 23 23
<200 beds 200-299 beds 300-399 beds 400-499 beds 500 or more beds	17 20 23 23
<200 beds 200-299 beds 300-399 beds 400-499 beds 500 or more beds Type of Ownership	17 20 23 23 22
<200 beds 200-299 beds 300-399 beds 400-499 beds 500 or more beds Type of Ownership Nongovernment, not-for-profit	17 20 23 23 22 21

Distribution across CLEs^c



Note. ^aMissing data=213. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. ^cDistribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.01. **Statistically significant at p<.001.

B17. Percentage of residents and fellows who reported knowing what they were allowed to do with and without direct supervision

Percent of Total Surveyed^a (n=8,621)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=8,621)

Resident and Fellow Gender, Level of Training, and Specialty Grouping	
Gender**	
Male	96
Female	97
Level of Training***	
PGY-1	92
PGY-2	96
PGY-3	96
PGY-4+	97
Specialty Group*	
Medical	97
Surgical	97
Hospital-based	96
CLE Region, Bed Size, and Type of Ownership	
Region ^b	
Northeast	97
Midwest	96
South	97
West	97
Bed Size	
<200 beds	98
200-299 beds	98
300-399 beds	97
400-499 beds	96
500 or more beds	96
Type of Ownership	
Nongovernment, not-for-profit	97
Investor-owned, for-profit	96
Government, federal	98
Government, nonfederal	96

Median=100 125- IQR=95-100 75- 50- 25-

Percent of Residents and Fellows

Distribution across CLEs^c

Note. ^aMissing data=134. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. ^cDistribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.05. **Statistically significant at p<.01. ***Statistically significant at p<.001.

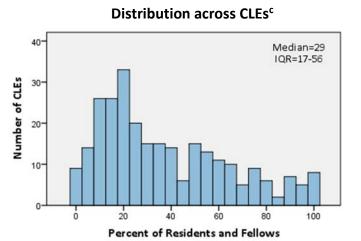
B18. Percentage of residents and fellows who reported having an objective way to know what procedures residents and fellows from other services were allowed to do with and without direct supervision when they consulted on patients

Percent of Total Surveyed^a (n=8,080)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=8,080)

Resident and Fellow Gender, Level	
of Training, and Specialty Grouping	
Gender*	
Male	35
Female	32
Level of Training*	
PGY-1	46
PGY-2	34
PGY-3	32
PGY-4+	33
Specialty Group	
Medical	33
Surgical	35
Hospital-based	33
CLE Region, Bed Size, and Type of	
Ownership	
Region ^{b**}	
Northeast	37
Midwest	31
South	33
West	30
Bed Size**	
<200 beds	42
200-299 beds	52
300-399 beds	34
400-499 beds	30
500 or more beds	31
Type of Ownership**	
Nongovernment, not-for-profit	32
Investor-owned, for-profit	39
Government, federal	52
Government, nonfederal	33



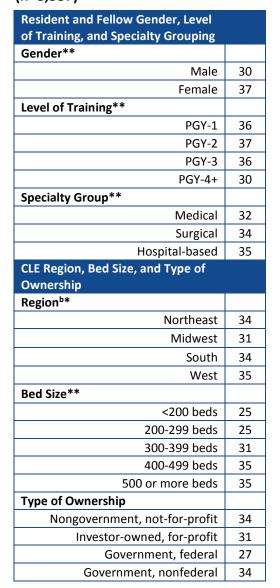
Note. ^aMissing data=675. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. ^cDistribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.01. **Statistically significant at p<.0001.

B19. Percentage of residents and fellows who reported that they would power through to hand-off if placed in a situation in which they were impaired by fatigue, maxed out on caffeine, and a 15 minute nap had no effect

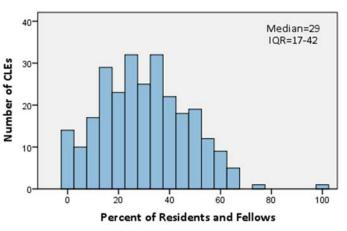
Percent of Total Surveyeda (n=8,387)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=8,387)



Distribution across CLEs^c



Note. ^aMissing data=368. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. ^cDistribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.05. **Statistically significant at p<.0001.

B20. Percentage of residents and fellows who reported having attended institutional training on topics of professionalism and ethics

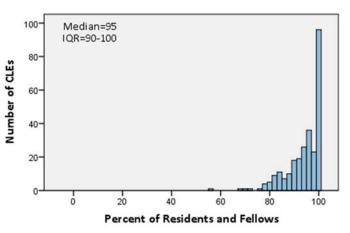
Percent of Total Surveyeda (n=8,631)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=8,631)

Resident and Fellow Gender, Level	
of Training, and Specialty Grouping	
Gender	
Male	93
Female	93
Level of Training*	
PGY-1	95
PGY-2	95
PGY-3	93
PGY-4+	92
Specialty Group	
Medical	93
Surgical	93
Hospital-based	92
CLE Region, Bed Size, and Type of Ownership	
Region ^{b*}	
Northeast	92
Midwest	92
South	93
West	94
Bed Size*	
<200 beds	96
200-299 beds	93
300-399 beds	95
400-499 beds	94
500 or more beds	92
Type of Ownership	
Nongovernment, not-for-profit	93
Investor-owned, for-profit	94
Government, federal	96
Government, nonfederal	93

Distribution across CLEs^c



Note. $^{\rm a}$ Missing data=124. $^{\rm b}$ Results from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. $^{\rm c}$ Distribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.01.

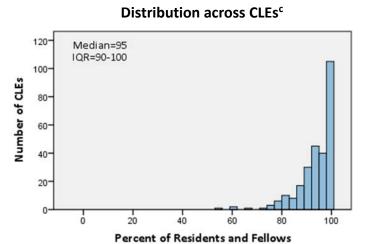
B21. Percentage of residents and fellows who reported that their clinical site provided a supportive, non-punitive environment for coming forward with concerns regarding honesty in reporting (e.g., patient data, duty hours)

Percent of Total Surveyed^a (n=8,592)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=8,592)

Resident and Fellow Gender, Level	
of Training, and Specialty Grouping	
Gender*	
Male	94
Female	92
Level of Training	
PGY-1	94
PGY-2	93
PGY-3	93
PGY-4+	94
Specialty Group	
Medical	93
Surgical	93
Hospital-based	94
CLE Region, Bed Size, and Type of	
Ownership	
Region ^b	
Northeast	93
Midwest	94
South	93
West	93
Bed Size	
<200 beds	94
200-299 beds	91
300-399 beds	94
400-499 beds	93
400-499 beds 500 or more beds	
	93
500 or more beds	93
500 or more beds Type of Ownership	93 94
500 or more beds Type of Ownership Nongovernment, not-for-profit	93 94 94



Note. $^{\rm a}$ Missing data=163. $^{\rm b}$ Results from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. $^{\rm c}$ Distribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.05.

100

B22. Percentage of residents and fellows who reported having felt pressured to compromise their honesty or integrity to satisfy an authority figure during their training at the clinical site

30-

Number of CLEs

Percent of Total Surveyed^a (n=8,609)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=8,609)

Resident and Fellow Gender, Level	
of Training, and Specialty Grouping	
Gender	
Male	15
Female	16
Level of Training	
PGY-1	12
PGY-2	16
PGY-3	15
PGY-4+	16
Specialty Group	
Medical	16
Surgical	16
Hospital-based	14
CLE Region, Bed Size, and Type of	
Ownership	
Region ^b	
Northeast	17
Midwest	16
South	15
West	15
Bed Size	
<200 beds	12
200-299 beds	16
300-399 beds	15
400-499 beds	18
500 or more beds	16
Type of Ownership	
Nongovernment, not-for-profit	16
Investor-owned, for-profit	16
Government, federal	16
Government, nonfederal	15

Median=14 IQR=8-20

Distribution across CLEs^c

Percent of Residents and Fellows

Note. ^aMissing data=146. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. ^cDistribution includes 90% or more of the 297 CLEs.

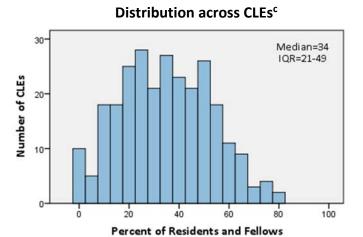
B23. Percentage of residents and fellows who reported they had documented a history or physical finding in a patient chart that they did not personally elicit at the clinical site (e.g., copying and pasting from another note)

Percent of Total Surveyed^a (n=8,488)



Percent by Resident and Fellow Characteristics and CLE Characteristics (n=8,488)

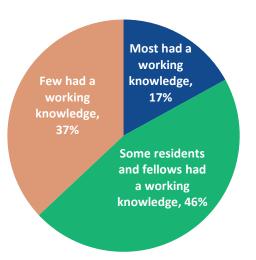
Resident and Fellow Gender, Level	
of Training, and Specialty Grouping	
Gender*	
Male	41
Female	39
Level of Training	
PGY-1	43
PGY-2	39
PGY-3	41
PGY-4+	39
Specialty Group	
Medical	40
Surgical	42
Hospital-based	39
CLE Region, Bed Size, and Type of	
Ownership	
Region ^{b**}	
Northeast	37
Midwest	39
South	41
West	46
Bed Size**	
<200 beds	32
200-299 beds	35
300-399 beds	33
400-499 beds	39
500 or more beds	42
Type of Ownership**	
Nongovernment, not-for-profit	39
Investor-owned, for-profit	27
Government, federal	44
Government, nonfederal	42



Note. ^aMissing data=267. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity. ^cDistribution includes 90% or more of the 297 CLEs. *Statistically significant at p<.05. **Statistically significant at p<.0001.

Appendix C. Selected Qualitative Results from Site Visit Reports^a

C1. Percentage of CLEs by proportion of resident and fellow knowledge of basic patient safety terminology and principles^b

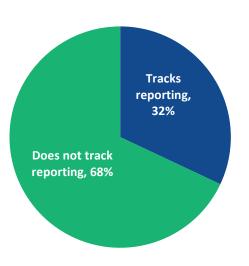


Percent by CLE Region, Bed Size, and Ownership (% Most)

Region ^c	
Northeast	13
Midwest	19
South	21
West	14
Bed Size	
<200 beds	24
200-299 beds	31
300-399 beds	13
400-499 beds	26
500 or more beds	13
Type of Ownership	
Nongovernment, not-for-profit	18
Investor-owned, for-profit	13
Government, federal	22
Government, nonfederal	16

Note. ^aResults based on 297 site visit reports; all percentages are rounded to whole numbers (values of .50 or above are rounded to the next highest whole number). ^bMissing data=73. It should be noted that missing data is largely due to the development and refinement of a formal template of the written site visit report in the early stages of program implementation. ^cResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity.

C2. Percentage of CLEs that tracked the number of patient safety event reports submitted by residents and fellows^a

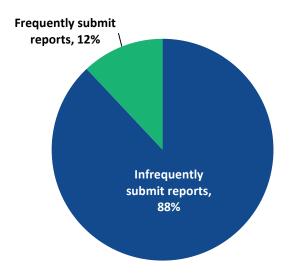


Percent by CLE Region, Bed Size, and Ownership (% Tracks Reporting)

Region ^b	
Northeast	29
Midwest	28
South	29
West	47
Bed Size	
<200 beds	53
200-299 beds	31
300-399 beds	26
400-499 beds	41
500 or more beds	29
Type of Ownership	
Nongovernment, not-for-profit	29
Investor-owned, for-profit	13
Government, federal	20
Government, nonfederal	51

Note. ^aMissing data=53. It should be noted that missing data is largely due to the development and refinement of a formal template of the written site visit report in the early stages of program implementation. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity.

C3. Percentage of CLEs where residents and fellows frequently submitted patient safety event reports^a

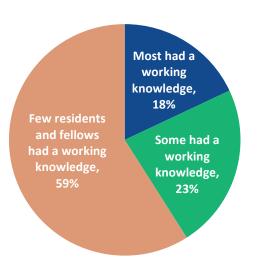


Percent by CLE Region, Bed Size, and Ownership (% Infrequently Submit Reports)

Region ^b	
Northeast	82
Midwest	92
South	92
West	84
Bed Size	
<200 beds	100
200-299 beds	63
300-399 beds	86
400-499 beds	91
500 or more beds	90
Type of Ownership	
Nongovernment, not-for-profit	88
Investor-owned, for-profit	93
Government, federal	56
Government, nonfederal	90

Note. ^aMissing data=29. It should be noted that missing data is largely due to the development and refinement of a formal template of the written site visit report in the early stages of program implementation. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity.

C4. Percentage of CLEs by proportion of resident and fellow knowledge of basic quality improvement concepts^a



Percent by CLE Region, Bed Size, and Ownership (% Most)

Region ^b	
Northeast	19
Midwest	22
South	18
West	6
Bed Size	
<200 beds	15
200-299 beds	33
300-399 beds	8
400-499 beds	15
500 or more beds	18
Type of Ownership	
Nongovernment, not-for-profit	20
Investor-owned, for-profit	21
Government, federal	0
Government, nonfederal	11

Note. ^aMissing data=45. It should be noted that missing data is largely due to the development and refinement of a formal template of the written site visit report in the early stages of program implementation. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity.

C5. Percentage of CLEs with cultural competency training for residents and fellows^a

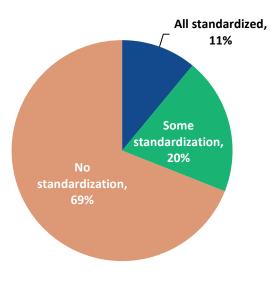


Percent by CLE Region, Bed Size, and Ownership (% Tailored Training)

Region ^b	
Northeast	32
Midwest	27
South	18
West	62
Bed Size	
<200 beds	25
200-299 beds	35
300-399 beds	26
400-499 beds	30
500 or more beds	31
Type of Ownership	
Nongovernment, not-for-profit	29
Investor-owned, for-profit	23
Government, federal	36
Government, nonfederal	36

Note. ^aMissing data=32. It should be noted that missing data is largely due to the development and refinement of a formal template of the written site visit report in the early stages of program implementation. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity.

C6. Percentage of CLEs with hand-off processes that were standardized across programs, based on direct observations^a

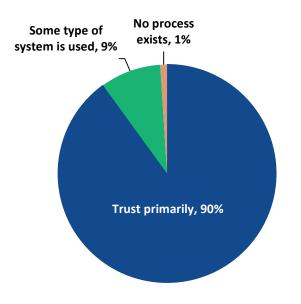


Percent by CLE Region, Bed Size, and Ownership (% All Standardized)

Region ^b	
Northeast	14
Midwest	14
South	8
West	5
Bed Size	
<200 beds	18
200-299 beds	19
300-399 beds	12
400-499 beds	5
500 or more beds	10
Type of Ownership	
Nongovernment, not-for-profit	14
Investor-owned, for-profit	13
Government, federal	0
Government, nonfederal	3

Note. ^aMissing data=18. It should be noted that missing data is largely due to the development and refinement of a formal template of the written site visit report in the early stages of program implementation. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity.

C7. Percentage of CLEs by mechanism used for identification of resident and fellow competency to perform clinical procedures, as reported by nurses^a

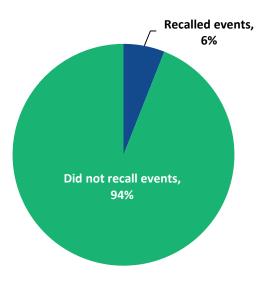


Percent by CLE Region, Bed Size, and Ownership (% Trust Primarily)

Region ^b	
Northeast	86
Midwest	92
South	93
West	90
Bed Size	
<200 beds	91
200-299 beds	88
300-399 beds	93
400-499 beds	95
500 or more beds	89
Type of Ownership	
Nongovernment, not-for-profit	91
Investor-owned, for-profit	88
Government, federal	100
Government, nonfederal	87

Note. ^aMissing data=9. It should be noted that missing data is largely due to the development and refinement of a formal template of the written site visit report in the early stages of program implementation. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity.

C8. Percentage of CLEs where patient safety and quality leaders recalled patient safety events related to resident and fellow fatigue^a

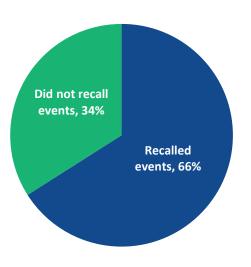


Percent by CLE Region, Bed Size, and Ownership (% Recalled Events)

Region ^b	
Northeast	6
Midwest	9
South	3
West	9
Bed Size	
<200 beds	0
200-299 beds	8
300-399 beds	7
400-499 beds	10
500 or more beds	6
Type of Ownership	
Nongovernment, not-for-profit	8
Investor-owned, for-profit	0
Government, federal	9
Government, nonfederal	2

Note. ^aMissing data=67. It should be noted that missing data is largely due to the development and refinement of a formal template of the written site visit report in the early stages of program implementation. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity.

C9. Percentage of CLEs where executive leadership recalled incidents concerning professionalism^a

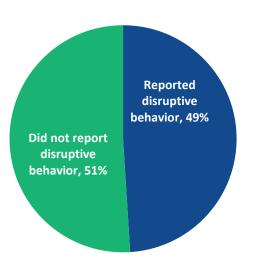


Percent by CLE Region, Bed Size, and Ownership (% Recalled Events)

Region ^b	
Northeast	67
Midwest	68
South	65
West	68
Bed Size	
<200 beds	75
200-299 beds	50
300-399 beds	65
400-499 beds	67
500 or more beds	69
Type of Ownership	
Nongovernment, not-for-profit	64
Investor-owned, for-profit	60
Government, federal	82
Government, nonfederal	75

Note. ^aMissing data=23. It should be noted that missing data is largely due to the development and refinement of a formal template of the written site visit report in the early stages of program implementation. ^bResults from CLEs in Puerto Rico (n=3) have been omitted to protect their anonymity.

C10. Percentage of CLEs where disruptive or disrespectful behavior was reported across more than one clinical unit



Percent by CLE Region, Bed Size, and Ownership (% Reported Disruptive Behavior)

Region ^a	
Northeast	49
Midwest	43
South	48
West	65
Bed Size	
<200 beds	50
200-299 beds	33
300-399 beds	36
400-499 beds	45
500 or more beds	57
Type of Ownership	
Nongovernment, not-for-profit	48
Investor-owned, for-profit	50
Government, federal	55
Government, nonfederal	52