

Supplement Digital Table 1

Multivariate Linear Regression Model for Emergency Department Length of Stay for Patient Visits to the Maine Medical Center Emergency Department, January 1, 2005 Through December 31, 2009*

Variable	Estimate	SE	<i>t</i>
(Constant)	5.003	0.007	697.257 [†]
ESI	-0.059	0.002	-37.029 [†]
Quarter	-0.010	0.001	-10.931 [†]
Lab	0.468	0.003	184.724 [†]
X-ray	0.263	0.002	115.926 [†]
Age	0.003	0.000	57.643 [†]
Sex	-0.045	0.002	-21.402 [†]
Race	0.003	0.001	1.777
Trainee	0.096	0.002	40.306 [†]

* Omnibus *F*-test for the model: $F = 15955.952$, $P < .001$. Dependent variable: emergency department length of stay. ESI indicates Emergency Severity Index; quarter, calendar year quarter; lab, laboratory study performed; x-ray, radiographic study performed; age, patient age; sex, patient sex; race, patient race; trainee, seen by medical student or resident under supervision of an attending physician.

[†] Finding is statistically significant ($P < .05$)

Supplemental Digital Table 2

Multivariate Linear Regression Model for Door to Medical Provider Time for Patient Visits to the Maine Medical Center Emergency Department, January 1, 2005 Through December 31, 2009*

Variable	Estimate	SE	<i>t</i>
(Constant)	2.955	0.014	209.007 [†]
ESI	0.330	0.003	104.548 [†]
Quarter	0.039	0.002	21.592 [†]
Lab	0.046	0.005	9.360 [†]
X-ray	-0.038	0.004	-8.722 [†]
Age	0.0001	0.000	1.248
Sex	-0.085	0.004	-20.811 [†]
Race	0.011	0.003	3.967 [†]
Trainee	-0.208	0.005	-44.226 [†]

* Omnibus *F*-test for the model: $F = 3035.508$, $P < .001$. Dependent variable: door to medical provider time. ESI indicates Emergency Severity Index; quarter, calendar year quarter; lab, laboratory test performed; x-ray, radiographic imaging performed; age, patient age; sex, patient sex; race, patient race; trainee, seen by medical student or resident under supervision of an attending physician.

[†] Finding is statistically significant ($P < .05$)

Supplemental Digital Table 3

Multivariate Linear Regression Model for Door to Disposition Time for Patient Visits to the Maine Medical Center Emergency Department, January 1, 2005 Through December 31, 2009*

Variable	Estimate	SE	t
(Constant)	4.445	0.010	424.151 [†]
ESI	0.078	0.002	33.082 [†]
Quarter	-0.008	0.001	-5.776 [†]
Lab	0.335	0.004	90.196 [†]
X-ray	0.191	0.003	57.914 [†]
Age	0.0005	0.000	7.419 [†]
Sex	-0.088	0.003	-28.783 [†]
Race	0.009	0.002	4.477 [†]
Trainee	0.139	0.004	39.226 [†]

* Omnibus *F*-test for the model: $F = 2643.176$, $P < .001$. Dependent variable: door to disposition decision time. ESI indicates Emergency Severity Index; quarter, calendar year quarter; lab, laboratory test performed; x-ray, radiographic imaging performed; age, patient age; sex, patient sex; race, patient race; trainee, seen by medical student or resident under supervision of an attending physician.

[†] Finding is statistically significant ($P < .05$).

Supplemental Digital Figure 1

Selection of Study Sample From All Visits to the Maine Medical Center Emergency Department, January 2005–December 2009

