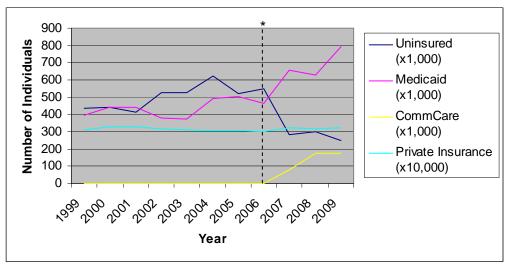
Supplementary Online Content

Loehrer AP, Song Z, Auchincloss HG, Hutter MM. Massachusetts health care reform and reduced racial disparities in minimally invasive surgery. *JAMA Surg*. Published online October 2, 2013. doi:10.1001/jamasurg.2013.2750.

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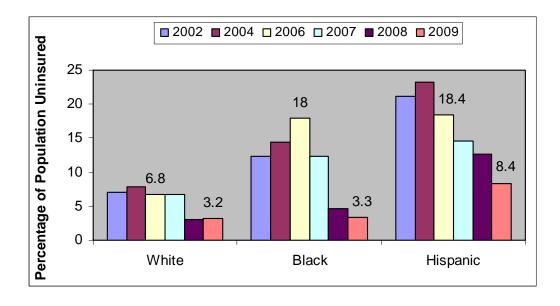
This supplementary material has been provided by the authors to give readers additional information about their work.

eFigure 1. Trend in insurance coverage in Massachusetts

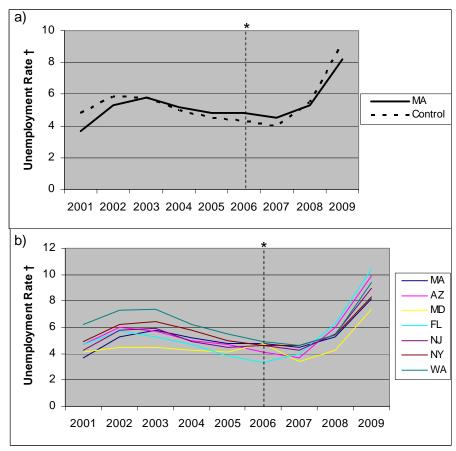


^{* 2006} Massachusetts health care reform

eFigure 2. Trends in uninsurance rates in Massachusetts, by patient race



eFigure 3. Trends in unemployment between a) Massachusetts and collective control group and b) individual control states



*2006 Massachusetts Health Care Reform

eTable 1. Difference-in-differences regression output with corresponding sensitivity analyses for non-white patients (Massachusetts vs control states)

Probability of MIS	Coefficient	Std Err	P-Value
Mass*Intervention	0.0371	0.0149	0.013
Mass	-0.0026	0.0104	0.804
Intervention	0.0199	0.0089	0.025
Age	0.0005	0.0002	0.011
Female	0.2084	0.0043	0
Elixhauser Comorbidity Index	0.0026	0.0023	0.254
Hospital Type			
Private, <100 beds (Reference)	Ref	Ref	Ref
Private, >100 beds compared to reference	0.3694	0.1334	0.006
NFP, Rural, <100 compared to reference	0.19	0.1394	0.173
NFP, Rural, >100 beds compared to reference	0.1558	0.1343	0.246
NFP, Urban, <100 beds compared to reference	0.3348	0.1335	0.012
NFP, Urban, 100-299 beds compared to reference	0.2473	0.1321	0.061
NFP, Urban, >300 beds compared to reference	0.2548	0.1321	0.054
Admission Type			
Emergent (Reference)	Ref	Ref	Ref
Urgent compared to reference	-0.0094	0.0102	0.355
Elective compared to reference	0.0323	0.0127	0.011
Complicated Disease	-0.2336	0.0097	0
Temporal trend (2001 Q1 2009 Q4)	0.0099	0.0004	0

eTable 2. Difference-in-differences regression output with corresponding sensitivity analyses for White Patients (Massachusetts vs control states)

Probability of MIS	Coefficient	Std Err	P-Value
Mass*Intervention	-0.0076	0.013	0.559
Mass	0.0173	0.0089	0.051
Intervention	0.0359	0.0107	0.001
Age	0.0003	0.0002	0.11
Female	0.1549	0.005	0
Elixhauser Comorbidity Index	0.0023	0.0025	0.352
Hospital Type			
Private, <100 beds (Reference)	Ref	Ref	Ref
Private, >100 beds compared to reference	0.474	0.0754	0
NFP, Rural, <100 compared to reference	0.2939	0.0742	0
NFP, Rural, >100 beds compared to reference	0.2376	0.0731	0.001
NFP, Urban, <100 beds compared to reference	0.266	0.0735	0
NFP, Urban, 100-299 beds compared to reference	0.3085	0.0726	0
NFP, Urban, >300 beds compared to reference	0.3252	0.0726	0
Admission Type			
Emergent (Reference)	Ref	Ref	Ref
Urgent compared to reference	0.0246	0.0087	0.005
Elective compared to reference	-0.0325	0.0132	0.014
Complicated Disease	-0.2797	0.0105	0
Temporal trend (2001 Q1 2009 Q4)	0.0094	0.0005	0

eTable 3. Difference-in-differences regression output with corresponding sensitivity analyses for Massachusetts (non-white vs white patients)

Probability of MIS	Coefficient	Std Err	P-Value
Non-White*Intervention	0.0463	0.181	0.011
Non-White	-0.507	0.0124	0
Intervention	0.0154	0.0201	0.442
Age	0.0002	0.0004	0.629
Female	0.1354	0.009	0
Elixhauser Comorbidity Index	0.0072	0.0046	0.122
Hospital Type			
Private, <100 beds (Reference)	Ref	Ref	Ref
Private, >100 beds compared to reference	0.4876	0.0699	0
NFP, Rural, <100 compared to reference	0.0254	0.081	0.754
NFP, Rural, >100 beds compared to reference	0.2589	0.0754	0.001
NFP, Urban, <100 beds compared to reference	0.2431	0.0691	0
NFP, Urban, 100-299 beds compared to reference	0.2939	0.0673	0
NFP, Urban, >300 beds compared to reference	0.2846	0.0673	0
Admission Type			
Emergent (Reference)	Ref	Ref	Ref
Urgent compared to reference	0.0005	0.0109	0.961
Elective compared to reference	-0.0593	0.0318	0.062
Complicated Disease	-0.3111	0.02	0
Temporal trend (2001 Q1 2009 Q4)	0.01	0.0009	0

eTable 4. Difference-in-differences regression output with corresponding sensitivity analyses for control states (non-white vs white patients)

Probability of MIS	Coefficient	Std Err	P-Value
Non-White*Intervention	-0.0051	0.0071	0.478
Non-White	-0.0207	0.0049	0
Intervention	0.0305	0.0085	0
Age	0.0005	0.0002	0.002
Female	0.1933	0.0035	0
Elixhauser Comorbidity Index	0.002	0.0018	0.28
Hospital Type			
Private, <100 beds (Reference)	Ref	Ref	Ref
Private, >100 beds compared to reference	0.5172	0.1743	0.003
NFP, Rural, <100 compared to reference	0.4412	0.1739	0.011
NFP, Rural, >100 beds compared to reference	0.3567	0.1734	0.04
NFP, Urban, <100 beds compared to reference	0.4544	0.1737	0.009
NFP, Urban, 100-299 beds compared to reference	0.4347	0.1732	0.012
NFP, Urban, >300 beds compared to reference	0.4494	0.1732	0.009
Admission Type			
Emergent (Reference)	Ref	Ref	Ref
Urgent compared to reference	0.0155	0.0084	0.064
Elective compared to reference	0.0063	0.0096	0.508
Complicated Disease	-0.247	0.0076	0
Temporal trend (2001 Q1 2009 Q4)	0.0096	0.0003	0