

Table 1
Rates of depression screening across different years

Year	Depression screening (Wt. N)	Total study sample (Wt. N)	Rate (%)	SE	95% CI
2005	9.43	691.88	1.36	0.35	.67-2.05
2006	8.84	646.62	1.37	0.31	.76-1.97
2007	7.23	706.97	1.02	0.34	.35-1.69
2008	4.53	700.09	0.65	0.15	.35-.95
2009	4.89	746.85	0.66	0.18	.31-1.01
2010	7.62	726.92	1.05	0.28	.49-1.60
2011	6.68	671.16	0.99	0.19	.62-1.37
2012	6.51	679.24	0.96	0.15	.66-1.26
2013	9.72	672.70	1.44	0.25	.96-1.93
2014	18.05	645.74	2.80	0.39	2.03-3.56
2015	21.88	729.73	3.00	0.54	1.93-4.07

Note: **Depression screening** - represents the nationally representative sample (weighted) of ambulatory care visits that received depression screening in that year (visit frequencies reported in millions);

Total study sample - represents the nationally representative sample (weighted) of ambulatory care visits that met all our study inclusion/exclusion criteria in that year (visit frequencies reported in millions);

Rate - represents the weighted percentage of depression screening rate in each year;

SE: Standard Error of rate

95% CI: Confidence Intervals of rate (%)

Table 2
Characteristics of outpatient visits by adults (age ≥ 18 years)
without diagnosis of depression and predictors of depression screening
NAMCS 2005-2015

Characteristics	Overall Weighted %	Depression Screening Weighted %	No Depression Screening Weighted %	p-value
Age				.67
18-64 years	65.54	65.64	65.54	
65,+ years	34.46	34.36	34.46	
Gender*				.001
Male	40.22	35.87	40.28	
Female	59.78	64.13	59.72	
Race/Ethnicity				.80
White Only, Non-Hispanic	73.32	70.70	73.35	
Black Only, Non-Hispanic	10.42	11.05	10.41	
Hispanic	10.93	12.58	10.90	
Others	5.33	5.67	5.33	
Physician Specialty*				<.001
General/Family/Internal	40.81	62.17	40.51	
Neurologist	1.64	1.25	1.64	
Others	57.55	36.59	57.85	
Metropolitan				.05
Metropolitan	89.37	91.87	89.33	
Non-metropolitan	10.63	8.13	10.67	
Source of Payment				.70
Private	50.44	48.75	50.47	
Government-Medicare & Medicaid	37.43	37.29	37.44	
Others	12.12	13.96	12.10	
Geographic Region*				.005
West	22.29	14.83	22.40	
Northeast	19.40	24.95	19.32	
Mid-West	19.79	24.32	19.73	
South	38.52	35.90	38.56	
Reason Visit				.48
Chronic problem, routine	32.76	30.00	32.80	
Others	67.24	70.00	67.20	
New Prescription				.90
No new meds	66.44	61.18	66.51	
1 new med	20.26	22.23	20.23	
>=2 new meds	13.30	16.60	13.25	
Past visit				
None	57.67	58.70	57.65	
1 to 2	17.21	17.18	17.21	
3 to 5	14.33	13.67	14.34	
6 +	10.79	10.45	10.80	
Time Patient*				<.001
< 15 minutes	19.60	11.39	19.71	

Table 2
Characteristics of outpatient visits by adults (age ≥ 18 years)
without diagnosis of depression and predictors of depression screening
NAMCS 2005-2015

Characteristics	Overall Weighted %	Depression Screening Weighted %	No Depression Screening Weighted %	p-value
15-29 minutes	58.01	55.92	58.04	
30-44 minutes	16.95	23.13	16.87	
45-59 minutes	3.23	6.23	3.18	
≥60 minutes	2.21	3.33	2.19	

Note: Based on 298,896 (nationally representative weighted N = 7,608,906,000) ambulatory visits of adults (age ≥ 18 years) without a diagnosis of depression using NAMCS 2005-2015 data.

**Statistically significant at p < 0.05.*

Table 3
Predictors of Depression Screening among Adults (age ≥ 18 years) without
Depression Diagnosis
NAMCS 2005-2015

Characteristics	Odds Ratio	95% CI	p-value
Survey Year*	1.12	1.06-1.18	<.001
Predisposing factors			
Age			.67
18-64	Ref		
65,+	1.05	.85-1.29	
Gender*			.001
Male	Ref		
Female	1.27	1.10-1.47	
Race/Ethnicity			
White Only, Non-Hispanic	Ref		
Black Only, Non-Hispanic	.94	.67-1.31	.71
Hispanic	1.13	.83-1.54	.45
Other	1.16	.58-2.33	.68
Enabling factors			
Physician Specialty			
General/Family/Internal*	2.54	1.89-3.40	<.001
Neurologist	1.03	.51-2.09	.94
Others	Ref		
Metro			.05
Metro	1.54	.99-2.38	
Non-metro	Ref		
Source of Payment			
Private	.83	.53-1.28	.39
Government-Medicare	.83	.52-1.34	.45
Others	Ref		
Geographic Region*			
Northeast	Ref		
West	.49	.31-.79	.003
Mid-West	1.03	.68-1.56	.89
South	.77	.51-1.16	.22
Need factors			
Reason Visit			.48
Chronic problem, routine	.93	.77-1.13	
Others	Ref		
New Prescription			
No new meds	Ref		
1 new med	1.01	.88-1.15	.90
>= 2 new meds	1.05	.85-1.30	.65
Past Visit			
6 or more	Ref		
None	.96	.73-1.27	.79
1 to 2	1.08	.80-1.45	.62

Table 3
Predictors of Depression Screening among Adults (age ≥ 18 years) without
Depression Diagnosis
NAMCS 2005-2015

Characteristics	Odds Ratio	95% CI	p-value
3 to 5	1.00	.74-1.34	.97
Time Patient*			
< 15 minutes	Ref		
15-29 minutes	1.55	1.12-2.14	.01
30-44 minutes	2.09	1.45-3.03	<.001
45-59 minutes	3.26	1.73-6.14	.003
≥60 minutes	2.78	1.72-4.49	<.001

Note: Based on 298,896 (nationally representative weighted N = 7,608,906,000) ambulatory visits of adults (age ≥ 18 years) without a diagnosis of depression using NAMCS 2005-2015 data.

Abbreviations Ref: reference group; CI: confidence interval; Sig: significance.

*Statistically significant at $p < .05$.

Table 4
Odds Ratios and 95% CI from Piecewise Regression to assess
the trend in Depression Screening before and after USPSTF
Depression screening recommendation in 2009

	Odds ratio	95% CI	p-value
Pre-recommendation period (2005-2008) *	.78	.65-.91	.002
Post- recommendation period (immediate 2010-2011) *	1.46	1.07-1.98	.016
Post- recommendation period (late 2012-2015) *	1.34	1.21-1.49	<.001

Note: Based on 298,896 (nationally representative weighted N = 7,608,906,000) ambulatory visits of adults (age ≥ 18 years) without a diagnosis of depression using NAMCS 2005-2015 data.

Abbreviations CI: confidence interval.

*Statistically significant at $p < .05$.