



HEALTH ANALYSIS

FY2013 Navy Medicine Tobacco Cessation Metrics

Last updated in September 2013



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Navy Medicine Tobacco Cessation Metrics

METRIC OVERVIEW



Clinical Practice Guideline Recommendations

Clinical Practice Guideline: Treating Tobacco Use and Dependence: 2008 Update. U.S Department of Health and Human Services. 2008. Available at <http://www.surgeongeneral.gov/tobacco/>.

Screen and Assessment for Tobacco Use: All patients should be asked if they use tobacco and should have their tobacco use status documented on a regular basis. Evidence has shown that clinic screening systems, such as expanding the vital signs to include tobacco use status or the use of other reminder systems such as chart stickers or computer prompts, significantly increase rates of clinician intervention. (Strength of Evidence =A)

Treatment/Intervention for Tobacco Use: Recommendations: All physicians should strongly advise every patient who smokes to quit because evidence shows that physician advice to quit smoking increases abstinence rates. (Strength of Evidence = A) Minimal interventions lasting at least 3 minutes increase overall tobacco abstinence rates. (Strength of Evidence = A) Treatment delivered by a variety of clinician types increases abstinence rates. Therefore, all clinicians should provide smoking cessation interventions. (Strength of Evidence = A) Clinicians should encourage all patients attempting to quit to use effective medications for tobacco dependence treatment. (Strength of Evidence = A)



Metric Summary

Screen and Assessment for Tobacco Use

- Tobacco Cessation Metric #1: Tobacco Use Screening
 - Measure: % of outpatient visits with vitals entered in AHLTA, in which tobacco use status was documented (yes/no)
- Tobacco Cessation Metric #2: Tobacco Use Diagnosis
 - Measure: % of documented tobacco users diagnosed with tobacco related ICD-9 code

Treatment/Intervention for Tobacco Use

- Tobacco Cessation Metric #3: Tobacco Use Intervention
 - Measure: % of diagnosed tobacco users counseled or prescribed a tobacco cessation medication



Metric #1 - Tobacco Use Screening

- **Goal:** Increase screening and recording of tobacco use status among all patient encounters at each Navy MTFs.
- **Definition:** This metric measures the percentage of adult encounters in which the vitals module was opened and tobacco-use status was recorded over a 12 month period.
- **Denominator*:** # of visits with vitals for patients ≥ 18 years old, 12 month period
- **Numerator:** # of visits with vitals with tobacco screening for patients ≥ 18 years old, 12 month period

*September 2013 Update: Current metric methods require tobacco status to be entered every time vitals module is used during an encounter. The intent is that one tobacco status entry per encounter will satisfy this metric. This issue is currently being corrected by NMCPHC Health Analysis Department.



Metric #2 - Tobacco Use Diagnosis

- **Goal:** Increase tobacco cessation interventions in Navy Military Treatment Facilities (MTFs).
- **Definition:** This metric measures the percentage of adult encounters in which the vitals module was opened and tobacco-use status was recorded over a 12 month period.
- **Denominator:** # of unique tobacco users \geq 18 years old, 12 month period
- **Numerator:** # of unique tobacco users diagnosed with tobacco use \geq 18 years old, 12 month period



Metric #3 - Tobacco Use Intervention

- **Goal:** Increase tobacco cessation interventions in Navy MTFs.
- **Definition:** Percentage of unique diagnosed tobacco users presenting in an outpatient clinic in one month and received a tobacco cessation intervention within twelve months after being diagnosed.
- **Denominator:** # of unique diagnosed tobacco users \geq 18 years old, 1 month period
- **Numerator:** # of unique diagnosed tobacco users with tobacco cessation intervention in the form of education, counseling, or medication \geq 18 years old, 12 month period after diagnosis month



Metric Parameters

Navy Medicine Tobacco Cessation Metric Defintions	
Variables	Definition of Variables
Visits with Vitals:	The number of adult encounters in which the vitals module was used within the reporting period selected
Visits w/Tobacco Screening:	The number of adult enounters in which the vitals module was used and tobacco-use staus was recorded as a yes or no within the reporting period selected.
Unique Tobacco Users:	The number of unique adults who had the "yes" box checked for the tobacco-use status screening within the reporting period, even if they had a "no" recorded within the same time period.
Unique Diagnosed Tobacco Users:	The number of unique adults who had a documented tobacco related ICD-9 diagnosis code.
Tobacco Cessation Intervention:	The number of unique adult who had a documented diagnosis with a tobacco related ICD-9 code and had documentation of receiving tobacco cessation interventions such as education, counseling, or pharmacotherapy within 12 months following the tobacco-use diagnosis month.
Metrics	Definition of Metric
#1: Tobacco Screening:	$\% = [(\#Visits\ w/Tobacco\ Screening) / (\#Visits\ with\ Vitals)] * 100$
#2 Tobacco Diangosis:	$\% = [(\#Adults\ Diagnosed\ w/\ Tobacco\ Use) / (\#Adults\ Tobacco\ Users)] * 100$
#3 Tobacco Intervention:	$\% = [(\#Adults\ w/\ Tobacco\ Cessation\ Intervention) / (\#Adults\ Diagnosed\ w/\ Tobacco\ Use)] * 100$



Metric Parameters (Cont'd)

Tobacco Cessation Metric #3: Case Definition		
Tobacco Cessation Intervention		
ICD-9 Code	V65.49 4	Tobacco Cessation Education
CPT	99406	Smoking/Tobacco Cessation Counseling provided to an individual by privileged / non-priv provider, 3-10 mins
	99407	Smoking/Tobacco Cessation Counseling provided to an individual by privileged / non-priv provider, 10+ mins
	99411-99412	Tobacco Cessation Counseling/risk factor reduction interventions provided to a group by privileged provider
CPT II	4000F	Tobacco Use Cessation Intervention, counseling (COPD, CAP, CAD, DM, PV)
	4001F	Tobacco Use Cessation Intervention, pharmacologic therapy (COPD, CAP, CAD, DM, PV)
HCPCS	G0436	Smoking and tobacco cessation counseling visit for the asymptomatic patient; intermediate, greater than 3 minutes, up
	G0437	Smoking and tobacco cessation counseling visit for the asymptomatic patient; intermediate, greater than 10 minutes
	S9453	Smoking Cessation Classes, non-physician provider, per session
Pharmacotherapy Order	Nicotine Replacement Therapy (NRT) [Nicotine Gum, Nicotine Lozenge, Nicotine Patch, Nicotine Polacrilex, Thrive Nicotine, Nicoderm CQ, Nicorelief, Nicorette, Nicorol, Nictrol NS, Habitrol, Commit], Chantix, Varenicline, Bupropion, Wellbutrin, Zyban	
Tobacco Use Disorder Diagnosis		
ICD-9 Code	305.1	Tobacco use disorder
	649.0-649.04	Tobacco use disorder complicating pregnancy



Navy Medicine Tobacco Cessation Metrics

METRIC PERFORMANCE



HEALTH ANALYSIS

FY13 Benchmarks

- Benchmarks: Weighted percentiles based on FY12 performance
 - Navy Medicine facilities were placed in ascending order of performance for FY12
 - Percentile was weighted on the facility denominators, not the number of facilities being graded.

FY2013 Benchmarks			
Metric	50th Percentile	75th Percentile	90th Percentile
Metric #1	83.7%	90.3%	91.4%
Metric #2	26.9%	32.1%	52.1%
Metric #3	42.1%	47.6%	58.8%



Metric Grading

- All metrics are retrospective and cover a 12 month period.
- Performance is allocated to the last month in the measurement period.
- Metric #1 and #2 are at the visit level and performance can be stratified by Child MTF.
- Metric #3 can be graded by Parent MTF only to ensure due credit is given for diagnosis and treatment that may not occur at the same Child MTF.



Metric Improvement Tools

- The metrics are posted on the NMCPHC Population Health Navigator Dashboard to allow MTFs to measure performance and process improvement in tobacco screening, documentation, and intervention compared to established performance benchmarks.
- www.med.navy.mil/sites/nmcphc/health-analysis/clinical-performance-measurement/carepoint-mhsphp



Contact NMCPHC Health Analysis Department

- These metrics were developed by the NMCPHC Health Analysis Department in conjunction with BUMED M3 and M8 subject matter experts.
- Methods and supporting documentation are available at: www.med.navy.mil/sites/nmcphc/health-analysis/clinical-performance-measurement/Pages/case-in-brief-tobacco-cessation-metrics.aspx
- For questions regarding these metrics or to propose additional project ideas, please email: health-analysis@nmcphc.med.navy.mil.

