



# Value Based Reimbursement Smoking Cessation Toolkit





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# Smoking Data Dictionary

## Variables and Definitions

### Definitions

**Event:** hospitalization, procedure, visit, or diagnosis resulting in connection to CQI initiative; for procedures or surgeries this includes the pre-operative visit and window

**Healthcare worker:** physicians, nurse practitioners, nurses, physician assistants, medical assistants, or other individual trained to support healthcare and health behaviors within a medical practice

**Smoking and Cigarettes:** both terms refer to tobacco

### Baseline Population Assessment

#### Smok\_30prior

**Intent of variable:** To capture smoking status of patients in the 30 days prior to their **event** to allow for baseline understanding of smoking status among the patient population

**Definition:** Cigarette use within 30 days prior to **event**

**Response options:**

- o **Yes:** patient has smoked cigarettes in the 30 days prior
- o **No:** patient has not smoked cigarettes in the 30 days prior
  - Includes patients who did not smoke cigarettes, but did smoke electronic cigarettes, marijuana, cigars, hookah, chew, or vape
  - Includes patients identified as former smokers; see **SmokFormer\_30prior**

#### SmokFormer\_30prior

**Intent of variable:** To capture smoking history of patients who are not currently smokers but may have previously smoked to allow for baseline understanding of smoking status among the patient population

**Definition:** Cigarette use at a timepoint greater than 30 days prior to **event**

**Response options:**

- o **Yes:** patient is a former smoker but has not smoked cigarettes in the 30 days prior to their **event**
- o **No:** patient has never been a cigarette smoker
  - Includes patients who did not smoke cigarettes, but did smoke electronic cigarettes, marijuana, cigars, hookah, chew, or vape

### QuitDate\_30prior

**Intent of variable:** To capture smoking history of patients who are not currently smokers but previously smoked

**Definition:** Quit date for cigarette use if no use in 30 days prior to the *event*

**Response options:** Date value (approximate month and year if needed) indicating smoking quit date prior to *event*

### CigDay\_30prior

**Intent of variable:** To capture average cigarette use for patients who are either former smokers or current smokers based on assessment at 30 days prior to *event*

**Definition:** Average number of cigarettes smoked per day (at 30 days prior for current smokers; overall for former smokers)

**Response options:** Numerical value indicating number of cigarettes or packs of cigarettes

### CigYear\_30prior

**Intent of variable:** To capture years of cigarette use for patients who are either former smokers or current smokers based on assessment at 30 days prior to *event*

**Definition:** Number of years of cigarettes smoked prior to *event*

**Response options:** Numerical value indicating years of cigarette smoking

## Intervention Assessment

Only applies to patients who were current smokers at the time of their event

### Counsel

**Intent of variable:** To capture the occurrence of ANY smoking cessation counseling occurring during the *event* including simple discussion of cessation with the provider

**Definition:** Healthcare worker provision of smoking cessation counseling during *event*

**Response options:**

- o **Yes:** patient received counseling during *event*
- o **No:** patient did not receive counseling during *event*

### Counsel\_offer

**Intent of variable:** To capture the occurrence of provision or offering of specific services like medications or referrals to support smoking cessation in addition to any general discussion or counseling occurring as documented in Counsel

**Definition:** Healthcare worker offer or provision of a prescription or referral for smoking cessation services during *event*

**Response options:**

- o **Yes:** patient was offered or received nicotine replacement therapy, medication to help reduce cravings or referral to smoking cessation programs
- o **No:** patient was not offered or did not receive any medications or referral to smoking cessation support

### Counsel\_type

**Intent of variable:** To capture the provision or offering of different types of smoking cessation support; nicotine replacement therapy vs. medications to reduce cravings vs. referral to smoking cessation programs

**Definition:** Healthcare worker offer or provision of smoking cessation support during event with specified type of support documented

**Response options (select all that apply):**

- o **Nicotine replacement therapy:** patient was offered or received nicotine replacement therapy during *event*
- o **Medications to reduce cravings:** patient was offered or received medications

to reduce cravings during **event**

o **Referral to smoking cessation program**: patient was offered or received a referral to a smoking cessation program during **event**

## Outcome Assessment

Only applies to patients who smoked before their event (either former or current at time of event)

## Outcomes at 30 days

### Smok\_30post

**Intent of variable:** To capture smoking status of patients at 30 days after their **event** to assess short term outcomes

**Definition:** Cigarette use at 30 days post **event**

**Response options:**

- o **Yes:** patient is still smoking cigarettes at 30 days after their **event**
- o **No:** patient is not smoking cigarettes at 30 days after their **event**
  - Includes patients who did not smoke cigarettes, but did smoke electronic cigarettes, marijuana, cigars, hookah, chew, or vape
  - Includes patients identified as former smokers; see **QuitDate\_30post** and **QuitHelp\_30post**

### CigDay\_30post

**Intent of variable:** To capture average cigarette use for patients who are current smokers based on assessment at 30 days after **event**

**Definition:** Average number of cigarettes smoked per day at 30 days after **event**

**Response options:** Numerical value indicating number of cigarettes or packs of cigarettes

### CigYear\_30post

**Intent of variable:** To capture years of cigarette use for patients who are current smokers based on assessment at 30 days after **event**

**Definition:** Number of years of cigarettes smoked at 30 days after **event**

**Response options:** Numerical value indicating years of cigarette smoking. Value can be calculated from previous timepoint data as available

## QuitDate\_30post

**Intent of variable:** To capture smoking history of patients who are not currently smokers but previously smoked to evaluate for potential intervention impact through quit date assessment

**Definition:** Quit date for cigarette use if no use at 30 days after *event*

**Response options:** Date value (approximate month and year if needed) indicating smoking quit date either within the 30 days prior to *event* (if not previously documented) or within the first 30 days after *event*

## QuitHelp\_30post

**Intent of variable:** To capture patient perceived impact of smoking cessation support received during *event* on quit status

**Definition:** Impact of healthcare worker support on smoking cessation

**Response options:**

- o **Yes:** Patient reports smoking cessation counseling or support received from healthcare worker helped them to quit smoking
- o **No:** Patient reports smoking cessation counseling or support received from healthcare worker did not help them to quit smoking
- o **NA:** Patient reports no smoking cessation counseling or support received
  - Includes patients who quit prior to visits related to *event* (must already be a former smoker at baseline assessment)

## Outcomes at 90 days

### Smok\_90post

**Intent of variable:** To capture smoking status of patients at 90 days after their *event* to assess intermediate length outcomes

**Definition:** Cigarette use at 90 days post *event*

**Response options:**

- o **Yes:** patient is still smoking cigarettes at 90 days after their *event*
- o **No:** patient is not smoking cigarettes at 90 days after their *event*
  - Includes patients who did not smoke cigarettes, but did smoke electronic cigarettes, marijuana, cigars, hookah, chew, or vape
  - Includes patients identified as former smokers; see *QuitDate\_90post* and *QuitHelp\_90post*

- Skip all remaining questions for 90 days assessment if they reported quitting at the 30-day timepoint and are still not smoking at 90 days

### **CigDay\_90post**

**Intent of variable:** To capture average cigarette use for patients who are current smokers based on assessment at 90 days after **event**

**Definition:** Average number of cigarettes smoked per day at 90 days after **event**

**Response options:** Numerical value indicating number of cigarettes or packs of cigarettes

### **CigYear\_90post**

**Intent of variable:** To capture years of cigarette use for patients who are current smokers based on assessment at 90 days after **event**

**Definition:** Number of years of cigarettes smoked at 90 days after **event**

**Response options:** Numerical value indicating years of cigarette smoking. Value can be calculated from previous timepoint data as available

### **QuitDate\_90post**

**Intent of variable:** To capture smoking history of patients who are not currently smokers but previously smoked to evaluate for potential intervention impact through quit date assessment

**Definition:** Quit date for cigarette use if no use at 90 days after **event**

**Response options:** Date value (approximate month and year if needed) indicating smoking quit date within the first 90 days after **event**

### **QuitHelp\_90post**

**Intent of variable:** To capture patient perceived impact of smoking cessation support received during event on quit status

**Definition:** Impact of healthcare worker support on smoking cessation

**Response options:**

- o **Yes:** Patient reports smoking cessation counseling or support received from healthcare worker helped them to quit smoking

- o **No:** Patient reports smoking cessation counseling or support received from healthcare worker did not help them to quit smoking
- o **NA:** Patient reports no smoking cessation counseling or support received

## Outcomes at 1 year

### Smok\_YearPost

**Intent of variable:** To capture smoking status of patients at 1 year after their **event** to assess intermediate length outcomes

**Definition:** Cigarette use at 1 year post **event**

**Response options:**

- o **Yes:** patient has smoked cigarettes at 1 year after their **event**
- o **No:** patient has not smoked cigarettes at 1 year after their **event**
  - Includes patients who did not smoke cigarettes, but did smoke electronic cigarettes, marijuana, cigars, hookah, chew, or vape
  - Includes patients identified as former smokers; see **QuitDate\_YearPost** and **QuitHelp\_YearPost**
  - Skip all remaining questions for 1 year assessment if they reported quitting at earlier timepoint and are still not smoking at 1 year

### CigDay\_YearPost

**Intent of variable:** To capture average cigarette use for patients who are current smokers based on assessment at 1 year after **event**

**Definition:** Average number of cigarettes smoked per day at 1 year after **event**

**Response options:** Numerical value indicating number of cigarettes or packs of cigarettes

### CigYear\_YearPost

**Intent of variable:** To capture years of cigarette use for patients who are current smokers based on assessment at 1 year after **event**

**Definition:** Number of years of cigarettes smoked at 1 year after **event**

**Response options:** Numerical value indicating years of cigarette smoking. Value can be calculated from previous timepoint data as available

## QuitDate\_YearPost

**Intent of variable:** To capture smoking history of patients who are not currently smokers but previously smoked to evaluate for potential intervention impact through quit date assessment

**Definition:** Quit date for cigarette use if no use at 1 year after *event*

**Response options:** Date value (approximate month and year if needed) indicating smoking quit date within the first 1 year after *event*

## QuitHelp\_YearPost

**Intent of variable:** To capture patient perceived impact of smoking cessation support received during event on quit status

**Definition:** Impact of healthcare worker support on smoking cessation

**Response options:**

- o **Yes:** Patient reports smoking cessation counseling or support received from healthcare worker helped them to quit smoking
- o **No:** Patient reports smoking cessation counseling or support received from healthcare worker did not help them to quit smoking
- o **NA:** Patient reports no smoking cessation counseling or support received

# Metrics Overview

## Options Table



	Metric Description	Minimum	Intermediate	Gold Standard
<b>Baseline</b>	Smoking status in 30 days prior to hospitalization / procedure (y/n)	✓	✓	✓
	Cigarettes per/day (current and former)		Include One	✓
	Years of smoking (current and former)			✓
<b>Intervention</b>	Counseled to quit (y/n)	✓	✓	✓
	Any service offered (y/n)		✓	✓
	Type of service offered (nicotine replacement therapy, referrals, etc.)			✓
<b>Outcomes</b>	Smoking status at 30 days (y/n)	✓	✓	✓
	Smoking status at 90 days (y/n)		✓	✓
	Smoking status at 1 year (y/n)			✓
	Cigarettes per day and years			✓
	Healthcare/provider assistance in quitting (y/n)			✓

# Smoking Measures - Abstraction

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# Smoking Measures - Abstraction

## Document Overview

The purpose of this document is to provide smoking metric language for use in EHR review or by clinical data abstractors. This document is intended for use in conjunction with the **Smoking Data Dictionary** which has additional detail on our recommendations for variable categorizations and definitions.

Below you will find three sections (baseline, intervention, and outcome) with three levels of metrics (**gold standard**, **intermediate**, and **minimum**). We recommend using these to guide your own measure development related to understanding your population at baseline and any future improvement assessments.

**Note:** achieving all **intermediate** and **gold standard** metrics may not be possible using EHR or abstraction data as it may be limited in the granularity of details on items like cigarettes/day or year and quit dates.

## Baseline Population Assessment

**Gold standard:** Smoking status at 30 days prior to hospitalization/procedure, cigarettes/day (former and current) and years (former and current)

**1.** In the 30 days prior to the hospitalization at [location] on [date] did the patient smoke cigarettes? (y/n)

**1.1.** If yes, how many cigarettes a day did were smoked on average?  
AND For how many years did they smoke?

**1.2.** If no, have they ever smoked? (y/n)

**1.2.1.** If yes, when did they stop [date]?

**1.2.2.** If yes, how many cigarettes did they smoke a day on average?  
AND For how many years did they smoke?

**Intermediate:** Smoking status at 30 days prior, cigarettes/day or years

**1.** In the 30 days prior to the hospitalization at [location] on [date] did the patient smoke cigarettes? (y/n)

**1.1.** If yes, how many cigarettes a day did were smoked on average?  
OR For how many years did they smoke?

**1.2.** If no, have they ever smoked? (y/n)

**1.2.1.** If yes, when did they stop [date]?

**1.2.2.** If yes, how many cigarettes did they smoke a day on average?  
OR For how many years did they smoke?

**Minimum:** Smoking status at 30 days prior

**1.** In the 30 days prior to the hospitalization at [location] on [date] did the patient smoke cigarettes? (y/n)

**1.1.** If no, have they ever smoked? (y/n)

## Intervention Assessment

**Gold standard:** y/n counseling, type of service offered (nicotine replacement therapy, referrals, etc.)

**1.** During the hospitalization [or pre-op] did a doctor or other healthcare worker counsel the patient about quitting cigarettes? (y/n)

**1.1.** If yes, did a doctor or healthcare worker offer nicotine replacement therapy, medication to help reduce cravings (e.g. Bupropion or Chantix), or a referral to a smoking cessation program? (y/n)

**1.1.1.** If yes, what did they offer?

**1.1.1.1.** Nicotine replacement therapy

**1.1.1.2.** Medications to help reduce cravings

**1.1.1.3.** Referral to a smoking cessation program

**Intermediate:** y/n counseling, y/n any service offered

**1.** During your hospitalization [or pre-op] did a doctor or other healthcare worker counsel the patient about quitting cigarettes? (y/n)

**1.1.** If yes, did a doctor or healthcare worker offer nicotine replacement therapy, medication to help reduce cravings (e.g. Bupropion or Chantix), or a referral to a smoking cessation program? (y/n)

**Minimum:** y/n counseling

**1.** During the hospitalization [or pre-op] did a doctor or other healthcare worker counsel the patient about quitting cigarettes? (y/n)

## Outcome Assessment

**Gold standard:** Smoking status at 30 days, 90 days, and 1 year, cigarettes/day and years; **repeat evaluation below at 30, 90, and 1 year**

1. Does the patient currently smoke cigarettes? (y/n)

1.1. If yes, how many cigarettes a day do they smoke on average?

AND For how many years have they smoked?

1.2. If no, when did they stop [date]?

1. *If assessing 30-day smoking at 90-day timepoint:* In the first 30 days after the hospitalization [or procedure] did the patient smoke cigarettes? (y/n)

1.1. If yes, how many cigarettes a day did they smoke on average?

AND For how many years have they smoked?

1.2. If no, when did they stop [date]?

**Intermediate:** Smoking status at 30 and 90 days; **repeat evaluation below at 30 and 90 days**

1. Does the patient currently smoke cigarettes? (y/n)

1.1. If no, when did they stop [date]?

1. *If assessing 30-day smoking at 90-day timepoint:* In the first 30 days after the hospitalization [or procedure] did the patient smoke cigarettes? (y/n)

1.1. If no, when did they stop [date]?

**Minimum:** Smoking status at 30 days

1. Does the patient currently smoke cigarettes? (y/n)

1.1. If no, when did they stop [date]?

# Smoking Measures - Claims

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# Smoking Measures - Claims

## Document Overview

The purpose of this document is to provide claims code information to CQIs who are interested in using claims data as their source of smoking metric data collection. This document is intended for use in conjunction with the **Smoking Data Dictionary** which has additional detail on our recommendations for variable categorizations and definitions.

The following document outlines the options for use of claims data to understand smoking and counseling behaviors within your patient population. These lists of claim codes can also be found in the Excel file linked on page 46: **Data Collection - Claims Codes**. Claims codes included here were identified in collaboration with MVC and we recommend connecting with their team about these code sets to get data for your CQI population. Below you will find three sections (baseline, intervention, and outcome) with three levels of metrics (**gold standard**, **intermediate**, and **minimum**). We recommend using these to guide your own measure development related to understanding your population at baseline and any future improvement assessments.

**Note:** achieving all **intermediate** and **gold standard** metrics may not be possible using claims data as it is limited in the granularity of details on items like cigarettes/day or year and quit dates. Claims data should allow for status and treatment assessments at different timepoints when used in combination with dates and claims for target health event.

## Baseline Population Assessment

**Gold standard:** Smoking status at 30 days prior to hospitalization/procedure, cigarettes/day (former and current), and years (former and current); cessation dates for former smokers

**Intermediate:** Smoking status at 30 days prior, cigarettes/day or years

**Minimum:** Smoking status at 30 days prior

### Diagnosis Codes for Smoking

The following claim codes can be used to identify if a patient is a smoker or non-smoker.

Code	Code Definition
<b>Z72.0</b>	<b>Diagnosis code used to specify a diagnosis of tobacco use</b>
<b>F17.210</b>	<b>Diagnosis code for nicotine dependence, cigarettes</b>
F17.211	Diagnosis code for nicotine dependence, cigarettes
F17.213	Diagnosis code for nicotine dependence, cigarettes
F17.218	Diagnosis code for nicotine dependence, cigarettes
F17.219	Diagnosis code for nicotine dependence, cigarettes
O99.330	Diagnosis code for smoking (tobacco) complicating pregnancy
O99.331	Diagnosis code for smoking (tobacco) complicating pregnancy
O99.332	Diagnosis code for smoking (tobacco) complicating pregnancy
O99.333	Diagnosis code for smoking (tobacco) complicating pregnancy
O99.334	Diagnosis code for smoking (tobacco) complicating pregnancy
O99.335	Diagnosis code for smoking (tobacco) complicating pregnancy
<b>Z87.891</b>	<b>Diagnosis used to specify a diagnosis of personal history of nicotine dependence</b>
1032F	CPT code for current tobacco smoker or currently exposed to secondhand smoke (Asthma)
1033F	CPT code for current tobacco non-smoker and not currently exposed to secondhand smoke (Asthma)
1034F	CPT code for current tobacco smoker (CAD, CAP, COPD, PV) (DM)
1036F	CPT code for current tobacco non-user (CAD, CAP, COPD, PV) (DM) (IBD)

G9791	HCPCS code for most recent tobacco status is tobacco free
G9792	HCPCS code for most recent tobacco status is not tobacco free
G9276	HCPCS code for documentation that patient is a current tobacco user
G9458	HCPCS code for patient documented as tobacco user and received tobacco cessation intervention
G9902	HCPCS code for patient screened for tobacco use and identified as a tobacco user
G9903	HCPCS code for patient screened for tobacco use and identified as a tobacco non-user
G9905	HCPCS code for patient not screened for tobacco use, reason not given

## Intervention Assessment

**Gold standard:** y/n counseling, type of service offered (nicotine replacement therapy, referrals, etc.)

**Intermediate:** y/n counseling, y/n any service offered

**Minimum:** y/n counseling

## Referrals and Counseling Codes for Smoking

The following claim codes can be used to identify if a patient received smoking cessation counseling or referral. These codes should be pulled for all CQI patients and not just those identified as smokers at baseline as counseling codes may be appropriately used even for patients that were not marked as smokers.

Code	Code Definition
99406	CPT code for smoking and tobacco use cessation counseling visit; intensive, more than 3 minutes, up to 10 minutes
99407	CPT code for smoking and tobacco use cessation counseling visit; intensive, greater than 10 minutes
Z71.6	Diagnosis code used to specify a diagnosis of tobacco abuse counseling
4004F	CPT code for patient screened for tobacco use and received tobacco cessation intervention (counseling, pharmacotherapy, or both), if identified as a tobacco user (PV, CAD)
G0437	HCPCS code for smoking and tobacco cessation counseling visit for the asymptomatic patient; intensive, greater than 10 minutes
G9458	HCPCS code for patient documented as tobacco user and received tobacco cessation intervention (must include at least one of the following: advice given to quit smoking or tobacco use, counseling on the benefits of quitting smoking or tobacco use, assistance with or referral to external smoking or tobacco cessation support programs, or current enrollment in smoking or tobacco use cessation program) if identified as a tobacco user

G9460	HCPCS code for tobacco assessment or tobacco cessation intervention not performed, reason not given
G9906	HCPCS code for patient identified as a tobacco user received tobacco cessation intervention (counseling and/or pharmacotherapy)
G9908	HCPCS code for patient identified as tobacco user did not receive tobacco cessation intervention (counseling and/or pharmacotherapy), reason not given
G9909	HCPCS code for documentation of medical reason(s) for not providing tobacco cessation intervention if identified as a tobacco user (e.g., limited life expectancy, other medical reason)

### Prescription Codes for Smoking

The following claim codes can be used to identify if a patient received a prescription medication to aid in smoking cessation. These claims include medications to reduce craving and nicotine replacement therapy. Except where otherwise noted, these prescription codes are exclusively used in smoking cessation.

**Note:** data available from these codes may be more limited compared to other claim codes as many insurance plans have separate pharmacy benefits.

#### Anti-Craving Medications: **Varenicline (RX only)**



National Drug Code (NDC)	Proprietary Name
0069-0468	Chantix
0069-0469	Chantix
0069-0471	Chantix
21695-633	Chantix
21695-945	Chantix
21695-946	Chantix
43353-899	Chantix
50090-0995	Chantix
50090-0998	Chantix
50090-4481	Chantix
50090-4482	Chantix
54868-5664	Chantix
54868-5674	Chantix

63187-618	Chantix
63539-473	Chantix
68151-4952	Chantix
68151-4953	Chantix
69189-0492	Chantix
71205-381	Chantix



### Anti-Craving Medications: **Zyban (RX only)**

NDC	Proprietary Name
0173-0556	Zyban



### Anti-Craving Medications: **Bupropion (RX only)**

The following list of codes can only be used to identify receipt of smoking cessation prescription if excluding all co-occurring diagnosis of mental health conditions. Bupropion in any form other than Zyban is commonly used to treat mental health conditions like depression and anxiety so exclusion of all mental health diagnoses minimizes the overestimation of their use in smoking cessation.

NDC	Proprietary Name	NDC	Proprietary Name
0115-5445	Bupropion Hydrochloride	0591-3331	Bupropion Hydrochloride XL
0115-6811	Bupropion Hydrochloride	0591-3540	Bupropion Hydrochloride SR
0173-0135	Wellbutrin SR	0591-3541	Bupropion Hydrochloride SR
0173-0722	Wellbutrin SR	0591-3542	Bupropion Hydrochloride SR
0173-0947	Wellbutrin SR	0591-3543	Bupropion Hydrochloride SR
0185-0410	Bupropion Hydrochloride	0615-7631	Bupropion Hydrochloride
0185-0415	Bupropion Hydrochloride	0615-7632	Bupropion Hydrochloride
0185-1111	Bupropion Hydrochloride	0615-8179	Bupropion Hydrochloride (XL)
0187-0730	Wellbutrin XL	0615-8241	Bupropion Hydrochloride (XL)
0187-0731	Wellbutrin XL	0615-8261	Bupropion Hydrochloride
0187-5810	Aplenzin	0615-8262	Bupropion
0187-5811	Aplenzin	0615-8296	Bupropion Hydrochloride
0187-5812	Aplenzin	0781-5528	Bupropion Hydrochloride (xl)
0378-0433	Bupropion Hydrochloride	0781-5529	Bupropion Hydrochloride (xl)
0378-0435	Bupropion Hydrochloride	0904-6573	Bupropion Hydrochloride
0440-7200	Bupropion Hydrochloride	0904-6585	Bupropion Hydrochloride
		0904-6635	Bupropion Hydrochloride

0904-6636	Bupropion Hydrochloride
10135-703	Bupropion Hydrochloride Extended Release
10135-704	Bupropion Hydrochloride Extended Release
10370-101	Bupropion Hydrochloride
10370-102	Bupropion Hydrochloride
16590-036	Bupropion Hydrochloride
16590-037	Bupropion Hydrochloride
16590-038	Bupropion Hydrochloride
16729-443	Bupropion Hydrochloride
16729-444	Bupropion Hydrochloride
21695-017	Bupropion Hydrochloride
21695-018	Bupropion Hydrochloride
21695-019	Bupropion Hydrochloride
21695-020	Bupropion Hydrochloride
21695-279	Bupropion Hydrochloride XL
21695-295	Bupropion Hydrochloride
21695-578	Bupropion Hydrochloride XL
23155-191	Bupropion Hydrochloride
23155-192	Bupropion Hydrochloride
24979-101	Bupropion Hydrochloride (XL)
24979-102	Bupropion Hydrochloride (XL)
33261-012	Bupropion Hydrochloride
33261-013	Bupropion Hydrochloride
33261-449	Bupropion Hydrochloride Sr (SR)
33261-627	Bupropion Hydrochloride
33261-680	Bupropion Hydrochloride
33261-797	Bupropion Hydrochloride
33358-364	Bupropion Hydrochloride
42254-185	Bupropion Hydrochloride
42571-241	Bupropion Hydrochloride
42571-242	Bupropion Hydrochloride
42806-348	Bupropion Hydrochloride XL
42806-349	Bupropion Hydrochloride XL
43063-284	Bupropion Hydrochloride
43063-387	Bupropion Hydrochloride

43063-388	Bupropion Hydrochloride
43063-744	Bupropion Hydrochloride SR
43063-880	Bupropion Hydrochloride
43063-913	Bupropion Hydrochloride SR
43063-994	Bupropion Hydrochloride
43353-189	Bupropion Hydrochloride
43353-538	Bupropion Hydrochloride
43353-546	Bupropion Hydrochloride
43353-575	Bupropion Hydrochloride
43353-735	Bupropion Hydrochloride
43353-767	Bupropion Hydrochloride
43353-900	Bupropion Hydrochloride
43547-288	Bupropion
43547-289	Bupropion
43547-290	Bupropion
43598-536	Bupropion Hydrochloride SR
43598-537	Bupropion Hydrochloride SR
43598-538	Bupropion Hydrochloride SR
43598-655	Bupropion Hydrochloride (XL)
43598-656	Bupropion Hydrochloride (XL)
43598-751	Bupropion Hydrochloride SR
43598-752	Bupropion Hydrochloride SR
43598-753	Bupropion Hydrochloride SR
43598-863	Bupropion Hydrochloride (sr)
45865-632	Bupropion Hydrochloride
45865-633	Bupropion Hydrochloride (sr)
45865-749	Bupropion Hydrochloride
45865-885	Bupropion Hydrochloride SR
45865-975	Bupropion Hydrochloride
45963-142	Bupropion Hydrochloride
46708-118	Bupropion Hydrochloride
46708-127	Bupropion Hydrochloride
47335-736	Bupropion Hydrochloride
47335-737	Bupropion Hydrochloride
47335-738	Bupropion Hydrochloride
47335-954	Bupropion Hydrochloride
47781-637	Bupropion Hydrochloride

49999-349	Bupropion Hydrochloride	52427-575	Forfivo XL
50090-1059	Bupropion Hydrochloride	52959-655	Bupropion Hydrochloride
50090-1150	Bupropion Hydrochloride SR	52959-806	Bupropion Hydrochloride
50090-1768	Bupropion Hydrochloride	53002-1345	Bupropion Hydrochloride SR
50090-1869	Bupropion Hydrochloride	53002-1495	Bupropion Hydrochloride XL
50090-2584	Bupropion Hydrochloride SR	53002-1508	Bupropion Hydrochloride (xl)
50090-3078	Bupropion Hydrochloride	53002-1509	Bupropion Hydrochloride (sr)
50090-3249	Bupropion Hydrochloride (sr)	53002-2495	Bupropion Hydrochloride (xl)
50090-3453	Bupropion Hydrochloride (sr)	53002-2509	Bupropion Hydrochloride SR
50090-3854	Bupropion	53217-252	Bupropion Hydrochloride
50090-4049	Bupropion Hydrochloride XL	53217-279	Bupropion Hydrochloridexl XL
50090-4169	Bupropion Hydrochloride (xl)	53217-358	Bupropion Hydrochloride
50090-4747	Bupropion Hydrochloride	53808-0213	Bupropion Hydrochloride
50090-4749	Bupropion Hydrochloride	53808-0214	Bupropion Hydrochloride
50090-5101	Bupropion Hydrochloride (sr)	53808-0215	Bupropion Hydrochloride
50090-5163	Bupropion Hydrochloride	53808-0347	Bupropion Hydrochloride
50090-5245	Bupropion Hydrochloride	53808-0908	Bupropion Hydrochloride
50090-5334	Bupropion Hydrochloride (XL)	53808-0910	Bupropion Hydrochloride
50228-144	Bupropion Hydrochloride (XL)	54569-5568	Bupropion Hydrochloride
50228-145	Bupropion Hydrochloride (XL)	54569-5569	Bupropion Hydrochloride
50228-174	Bupropion Hydrochloride SR	54569-5969	Bupropion Hydrochloride
50228-175	Bupropion Hydrochloride SR	54868-4134	Bupropion Hydrochloride
50228-176	Bupropion Hydrochloride SR	54868-4550	Bupropion Hydrochloride
50228-338	Bupropion Hydrochloride (SR)	54868-4892	Bupropion Hydrochloride SR
50268-140	Bupropion Hydrochloride	54868-5377	Bupropion Hydrochloride SR
50268-141	Bupropion Hydrochloride	54868-5736	Bupropion Hydrochloride Extended Release (XL)
50268-142	Bupropion Hydrochloride	54868-5927	Bupropion Hydrochloride Extended Release (XL)
50268-143	Bupropion Hydrochloride	54868-6306	Bupropion Hydrochloride SR
50436-0289	Bupropion	55045-3197	Bupropion Hydrochloride
50436-1570	Bupropion Hydrochloride	55154-7986	Bupropion Hydrochloride
50436-1580	Bupropion Hydrochloride	55154-8180	Bupropion Hydrochloride
50436-3541	Bupropion Hydrochloride SR	55289-733	Bupropion Hydrochloride
50436-9101	Bupropion Hydrochloride	55648-101	Bupropion Hydrochloride (SR)
51407-206	Bupropion Hydrochloride (XL)	55648-102	Bupropion Hydrochloride (XL)
51407-207	Bupropion Hydrochloride (XL)	55648-105	Bupropion Hydrochloride (SR)
51655-003	Bupropion Hydrochloride ER	55648-107	Bupropion Hydrochloride (SR)
51655-357	Bupropion		

55700-644	Bupropion	63187-952	Bupropion Hydrochloride SR
55700-779	Bupropion Hydrochloride	63304-723	Bupropion Hydrochloride
55700-820	Bupropion Hydrochloride	63304-724	Bupropion Hydrochloride
55700-849	Bupropion Hydrochloride	63629-2136	Bupropion Hydrochloride
55700-895	Bupropion Hydrochloride SR	63629-2137	Bupropion Hydrochloride
58118-0191	Bupropion Hydrochloride	63629-2138	Bupropion Hydrochloride
58118-0415	Bupropion Hydrochloride	63629-2139	Bupropion Hydrochloride
60429-217	Bupropion Hydrochloride SR	63629-3316	Bupropion Hydrochloride XL
60429-358	Bupropion Hydrochloride	63629-6072	Bupropion Hydrochloride
60429-746	Bupropion Hydrochloride	63629-6438	Bupropion Hydrochloride SR
60429-747	Bupropion Hydrochloride	63629-7033	Bupropion Hydrochloride
60429-933	Bupropion Hydrochloride XL	63629-7820	Bupropion Hydrochloride XL
60505-0157	Bupropion Hydrochloride	63629-8036	Bupropion
60505-0158	Bupropion Hydrochloride	63629-8228	Bupropion Hydrochloride
60687-312	Bupropion Hydrochloride	63629-8473	Bupropion Hydrochloride SR
60687-340	Bupropion Hydrochloride	63629-8474	Bupropion Hydrochloride (XL)
60687-351	Bupropion Hydrochloride	63629-8475	Bupropion Hydrochloride (XL)
60760-407	Bupropion Hydrochloride	63629-8476	Bupropion Hydrochloride (XL)
61919-037	Bupropion Hydrochloride	64679-101	Bupropion Hydrochloride (SR)
61919-038	Bupropion Hydrochloride	64679-102	Bupropion Hydrochloride (XL)
61919-063	Bupropion Hydrochloride	64679-105	Bupropion Hydrochloride (SR)
61919-063	Bupropion Hydrochloride	64679-107	Bupropion Hydrochloride (SR)
61919-069	Bupropion Hydrochloride (xl)	64679-830	Bupropion Hydrochloride
61919-136	Bupropion Hydrochloride	64725-0736	Bupropion Hydrochloride
61919-589	Bupropion Hydrochloride	64725-0737	Bupropion Hydrochloride
61919-589	Bupropion Hydrochloride	64725-1053	Bupropion Hydrochloride
61919-674	Bupropion Hcl Er XL	64980-201	Bupropion Hydrochloride
63187-052	Bupropion Hydrochloride	64980-202	Bupropion Hydrochloride
63187-124	Bupropion Hydrochloride	65841-780	Bupropion
63187-176	Bupropion Hydrochloride	65841-836	Bupropion
63187-178	Bupropion Hydrochloride	66336-897	Bupropion Hydrochloride
63187-521	Bupropion	67046-044	Bupropion Hydrochloride
63187-566	Bupropion Hydrochloride SR	67046-045	Bupropion Hydrochloride
63187-713	Bupropion Hydrochloride	67046-075	Bupropion Hydrochloride
63187-726	Bupropion Hydrochloride SR	67046-076	Bupropion Hydrochloride
63187-766	Bupropion Hydrochloride XL	67046-077	Bupropion Hydrochloride
63187-819	Bupropion Hydrochloride	67046-078	Bupropion Hydrochloride

67046-079	Bupropion Hydrochloride	68788-7786	Bupropion Hydrochloride
67046-081	Bupropion Hydrochloride (XL)	68788-7793	Bupropion Hydrochloride SR
67046-082	Bupropion Hydrochloride	68788-7807	Bupropion Hydrochloride SR
67046-699	Bupropion XL	68788-7819	Bupropion Hydrochloride SR
67544-299	Bupropion Hydrochloride	68788-7820	Bupropion Hydrochloride
67544-406	Bupropion Hydrochloride	68788-7863	Bupropion Hydrochloride (XL)
67544-464	Bupropion Hydrochloride	69097-875	Bupropion Hydrochloride (XL)
67544-892	Bupropion Hydrochloride	69097-876	Bupropion Hydrochloride (XL)
67544-897	Bupropion Hydrochloride	69097-877	Bupropion Hydrochloride (sr)
68001-264	Bupropion	69097-878	Bupropion Hydrochloride (sr)
68001-308	Bupropion Hydrochloride	69097-879	Bupropion Hydrochloride (sr)
68001-309	Bupropion Hydrochloride	69097-917	Bupropion Hydrochloride
68001-321	Bupropion Hydrochloride (XL)	69097-918	Bupropion Hydrochloride
68001-322	Bupropion Hydrochloride (XL)	69367-288	Bupropion Hydrochloride XL
68071-2256	Bupropion Hydrochloride	69367-289	Bupropion Hydrochloride XL
68071-4961	Bupropion Hydrochloride	69844-010	Bupropion Hydrochloride
68071-5213	Bupropion Hydrochloride	69844-011	Bupropion Hydrochloride
68071-5214	Bupropion	70377-034	Bupropion Hydrochloride
68084-252	Bupropion Hydrochloride	70377-035	Bupropion Hydrochloride
68084-697	Bupropion Hydrochloride	70436-010	Bupropion Hydrochloride XL
68084-708	Bupropion Hydrochloride	70436-011	Bupropion Hydrochloride XL
68180-319	Bupropion Hydrochloride	70436-058	Bupropion Hydrochloride SR
68180-320	Bupropion Hydrochloride	70436-059	Bupropion Hydrochloride SR
68258-7001	Bupropion Hydrochloride	70436-060	Bupropion Hydrochloride SR
68258-7067	Bupropion Hydrochloride XL	70518-0859	Bupropion Hydrochloride
68258-7126	Bupropion Hydrochloride XL	70518-0897	Bupropion Hydrochloride
68258-7157	Bupropion Hydrochloride	70518-1229	Bupropion Hydrochloride (xl)
68382-353	Bupropion	70518-1468	Bupropion Hydrochloride
68382-354	Bupropion	70518-1566	Bupropion Hydrochloride
68788-7121	Bupropion Hydrochloride	70518-1584	Bupropion Hydrochloride
68788-7170	Bupropion Hydrochloride	70518-1711	Bupropion Hydrochloride
68788-7249	Bupropion	70518-2051	Bupropion Hydrochloride
68788-7283	Bupropion	70518-2332	Bupropion Hydrochloride XL
68788-7319	Bupropion Hydrochloride	70518-2458	Bupropion Hydrochloride
68788-7479	Bupropion Hydrochloride XL	70518-2634	Bupropion Hydrochloride XL
68788-7509	Bupropion Hydrochloride XL	70518-2637	Bupropion Hydrochloride XL
68788-7756	Bupropion Hydrochloride (XL)	70518-2641	Bupropion

70518-2648	Bupropion Hydrochloride (sr)	71335-0502	Bupropion Hydrochloride
70518-2772	Bupropion Hydrochloride	71335-0612	Bupropion Hydrochloride
70518-3058	Bupropion Hydrochloride SR	71335-0687	Bupropion Hydrochloride
70518-3079	Bupropion Hydrochloride SR	71335-0785	Bupropion
70934-151	Bupropion	71335-0791	Bupropion Hydrochloride
70934-156	Bupropion Hydrochloride (sr)	71335-0824	Bupropion Hydrochloride (xl)
70934-225	Bupropion Hydrochloride SR	71335-0877	Bupropion Hydrochloride
70934-277	Bupropion Hydrochloride SR	71335-0943	Bupropion Hydrochloride
70934-489	Bupropion Hydrochloride	71335-1044	Bupropion Hydrochloride
70934-704	Bupropion Hydrochloride	71335-1114	Bupropion Hydrochloride (XL)
70934-723	Bupropion Hydrochloride (xl)	71335-1156	Bupropion Hydrochloride
70934-724	Bupropion Hydrochloride (xl)	71335-1192	Bupropion Hydrochloride
70934-791	Bupropion Hydrochloride SR	71335-1214	Bupropion Hydrochloride
70934-804	Bupropion Hydrochloride XL	71335-1542	Bupropion Hydrochloride (xl)
71205-045	Bupropion Hydrochloride (xl)	71335-1551	Bupropion Hydrochloride
71205-076	Bupropion Hydrochloride (XL)	71335-1622	Bupropion
71205-248	Bupropion Hydrochloride (xl)	71335-1702	Bupropion Hydrochloride SR
71205-291	Bupropion Hydrochloride XL	71610-164	Bupropion Hydrochloride
71205-387	Bupropion Hydrochloride	71610-346	Bupropion Hydrochloride (XL)
71205-394	Bupropion Hydrochloride XL	71610-372	Bupropion Hydrochloride
71205-465	Bupropion Hydrochloride	71610-384	Bupropion Hydrochloride
71205-504	Bupropion Hydrochloride	71610-543	Bupropion Hydrochloride Extended Release
71205-550	Bupropion Hydrochloride SR	72189-057	Bupropion Hydrochloride
71205-565	Bupropion	72189-124	Bupropion Hydrochloride
71205-967	Bupropion Hydrochloride (XL)	72189-134	Bupropion Hydrochloride
71205-968	Bupropion Hydrochloride (XL)	72789-070	Bupropion Hydrochloride
71209-052	Bupropion Hydrochloride	72789-112	Bupropion Hydrochloride (XL)
71209-053	Bupropion Hydrochloride	72789-120	Bupropion Hydrochloride (XL)
71335-0006	Bupropion Hydrochloride (sr)	72789-158	Bupropion Hydrochloride SR
71335-0013	Bupropion Hydrochloride	76282-480	Bupropion Hydrochloride (XL)
71335-0019	Bupropion Hydrochloride	76282-481	Bupropion Hydrochloride (XL)
71335-0025	Bupropion Hydrochloride (sr)	77771-174	Bupropion Hydrochloride SR
71335-0135	Bupropion Hydrochloride SR	77771-175	Bupropion Hydrochloride SR
71335-0182	Bupropion Hydrochloride	77771-176	Bupropion Hydrochloride SR
71335-0313	Bupropion Hydrochloride (XL)	16590-246	Wellbutrin XL
71335-0314	Bupropion Hydrochloride SR	21695-137	Wellbutrin XI
71335-0331	Bupropion Hydrochloride	21695-138	Wellbutrin XI

54868-4935	Wellbutrin XI
54868-5010	Wellbutrin XI
61919-036	Wellbutrin Sr



## Nicotine Replacement Therapy: Gum

NDC	Proprietary Name	NDC	Proprietary Name
0135-0157	Nicorette Original	0113-0854	Good Sense Nicotine
0135-0158	Nicorette Original	0113-1352	Good Sense Nicotine
0135-0225	Nicorette Fresh Mint	0113-7029	Basic Care Nicotine
0135-0226	Nicorette Fresh Mint	0113-7170	Basic Care Nicotine
0135-0229	Nicorette Mint	0113-7352	Basic Care Nicotine
0135-0230	Nicorette Mint	0113-7442	Basic Care Nicotine
0135-0241	Nicorette Fruit Chill	0113-7456	Basic Care Nicotine
0135-0242	Nicorette Fruit Chill	0113-7532	Basic Care Nicotine
0135-0355	Nicorette Spearmint Burst	0363-0365	Nicotine
0135-0466	Nicorette Cinnamon Surge	0363-0456	Nicotine
0135-0467	Nicorette Cinnamon Surge	0363-0709	Nicotine
0135-0474	Nicorette White Ice Mint	0363-0919	Nicotine
0135-0475	Nicorette White Ice Mint	0363-1012	Nicotine
0135-0532	Nicorette Spearmint Burst	0363-1420	Nicotine Polacrilex MINT
0135-0533	Nicorette Spearmint Burst	0363-1421	Nicotine Polacrilex MINT
29485-5270	Nicorette Fruit Chill Nicotine Polacrilex	0363-1608	Nicotine Polacrilex original
29485-5271	Nicorette White Mint Nicotine Polacrilex	0363-1609	Nicotine Polacrilex original
68151-5980	Nicorette	0363-2309	Nicotine
0113-0029	Good Sense Nicotine	0363-3290	Nicotine Polacrilex
0113-0053	Good Sense Nicotine	0363-3911	Nicotine
0113-0170	Good Sense Nicotine	0363-7269	Nicotine
0113-0206	Good Sense Nicotine mint	0363-7971	Nicotine
0113-0422	Good Sense Nicotine	0363-9240	Nicotine Polacrilex
0113-0456	Good Sense Nicotine	0363-9250	Nicotine
0113-0532	Good Sense Nicotine	0363-9290	Nicotine
0113-0704	Basic Care Nicotine	0363-9310	Nicotine
0113-0713	Basic Care Nicotine	0363-9330	Nicotine Polacrilex
0113-0749	Basic Care Nicotine	0363-9350	Nicotine
0113-0761	Basic Care Nicotine	0536-1362	Rugby Nicotine Polacrilex Gum, Mint Flavor
		0536-1372	Rugby Nicotine Polacrilex Gum, Mint Flavor

0536-3029	Rugby Nicotine Polacrilex Gum, Original Flavor
0536-3030	Rugby Nicotine Polacrilex Gum, Original Flavor
0536-3112	Rugby Nicotine Polacrilex Gum, Coated Mint Flavor
0536-3113	Rugby Nicotine Polacrilex Gum, Coated Mint Flavor
0536-3386	Rugby Nicotine Polacrilex Gum, Coated Fruit Flavor
0536-3387	Rugby Nicotine Polacrilex Gum, Coated Fruit Flavor
0536-3404	Nicotine Polacrilex
0536-3405	Nicotine Polacrilex
11673-029	Up And Up Nicotine
11673-170	Up And Up Nicotine
11673-206	Up And Up Nicotine Polacrilex
11673-269	Up And Up Nicotine
11673-309	Up And Up Nicotine
11673-365	Up And Up Nicotine
11673-411	Up And Up Nicotine
11673-422	Up And Up Nicotine
11673-442	Up And Up Nicotine Polacrilex
11673-456	Up And Up Nicotine
11673-532	Up And Up Nicotine
11673-971	Up And Up Nicotine
11822-0029	Nicotine
11822-0059	Nicotine
11822-0170	Nicotine
11822-0269	Nicotine
11822-0309	Nicotine
11822-0352	Nicotine
11822-0365	Nicotine Gum
11822-0456	Nicotine
11822-0699	Nicotine
11822-0854	Nicotine
11822-0904	Nicotine Gum
11822-0971	Nicotine
11822-2128	Nicotine Polacrilex

11822-2331	Nicotine Polacrilex
11822-3313	Nicotine Polacrilex
11822-3314	Nicotine Polacrilex
11822-3322	Nicotine Polacrilex Gum
11822-3323	Nicotine
11822-3325	Nicotine Polacrilex
11822-3326	Nicotine Polacrilex
11822-3328	Nicotine
11822-3337	Nicotine
17856-1362	Rugby Nicotine Polacrilex Gum, Mint Flavor
17856-3030	Rugby Nicotine Polacrilex Gum, Original Flavor
21130-173	Signature Care Nicotine
21130-186	Signature Care Nicotine
21130-229	Signature Care Nicotine
21130-269	Signature Care Nicotine
21130-522	Signature Care Nicotine
21130-820	Signature Care Nicotine
24385-594	Good Neighbor Pharmacy Nicotine
24385-598	Good Neighbor Pharmacy Nicotine
30142-029	Nicotine
30142-170	Nicotine Polacrilex
30142-208	Nicotine
30142-309	Nicotine
30142-749	Nicotine
30142-848	Nicotine
30142-854	Nicotine
36800-029	Topcare Nicotine
36800-170	Topcare Nicotine
36800-206	Topcare Nicotine
36800-269	Topcare Nicotine
36800-352	Topcare Nicotine
36800-456	Topcare Nicotine
36800-532	Topcare Nicotine
36800-650	Topcare Nicotine

36800-854	Topcare Nicotine stop smoking aid
36800-863	Topcare Nicotine Gum
36800-967	Topcare Nicotine
37012-012	Nicotine
37012-309	Nicotine
37808-658	Nicotine
37808-682	Nicotine
37808-683	Nicotine
37808-711	Nicotine
37808-739	Nicotine
37808-753	Nicotine
37808-781	Nicotine
37808-849	Nicotine
37808-909	Nicotine
37808-911	Nicotine
41163-012	Equaline Nicotine
41163-309	Equaline Nicotine
41250-029	Nicotine
41250-170	Nicotine
41250-206	Nicotine
41250-209	Nicotine
41250-352	Nicotine
41250-365	Nicotine
41250-422	Nicotine mint flavor
41250-442	Nicotine
41250-456	Nicotine
41250-510	Nicotine
41250-529	Nicotine
41250-532	Nicotine
41250-689	Nicotine
41250-854	Nicotine
41520-352	Care One Nicotine
41520-711	Careone Nicotine
41520-792	Careone Nicotine
41520-843	Careone Nicotine
41520-854	Care One Nicotine
41520-891	Careone Nicotine

45802-001	Nicotine Polacrilex
45802-206	Nicotine Polacrilex
46122-171	Good Neighbor Pharmacy Nicotine
46122-172	Good Neighbor Pharmacy Nicotine
46122-173	Good Neighbor Pharmacy Nicotine
46122-174	Good Neighbor Pharmacy Nicotine
46122-284	Good Neighbor Pharmacy Nicotine
46122-286	Good Neighbor Pharmacy Nicotine
46122-448	Nicotine Polacrilex coated ice mint
46122-449	Nicotine Polacrilex coated ice mint
46122-664	Good Neighbor Pharmacy Nicotine
46122-666	Good Neighbor Pharmacy Nicotine
49035-029	Equate Nicotine
49035-170	Equate Nicotine
49035-206	Equate Nicotine
49035-309	Equate Nicotine
49035-352	Equate Nicotine
49035-365	Equate Nicotine
49035-387	Nicotine
49035-391	Nicotine
49035-415	Equate Nicotine
49035-422	Equate Nicotine
49035-442	Equate Nicotine
49035-456	Equate Nicotine
49035-512	Nicotine Polacrilex Coated Ice Mint
49035-532	Equate Nicotine
49035-613	Nicotine Polacrilex
49035-854	Equate Nicotine
49348-572	Sunmark Nicotine
49348-573	Sunmark Nicotine

49348-691	Sunmark Nicotine
49348-692	Sunmark Nicotine
49348-787	Sunmark Nicotine
49348-788	Sunmark Nicotine



## Nicotine Replacement Therapy: Lozenge

NDC	Proprietary Name
0135-0508	Nicorette
0135-0509	Nicorette
0135-0510	Nicorette
0135-0511	Nicorette
0135-0625	Nicorette
0135-0626	Nicorette
0113-0344	Good Sense Nicotine
0113-0734	Good Sense Nicotine
0113-0873	Good Sense Nicotine
0113-0957	Good Sense Nicotine
0113-1125	Good Sense Nicotine
0113-1190	Good Sense Nicotine
0113-7007	Basic Care Nicotine
0113-7008	Basic Care Nicotine
0113-7124	Basic Care Nicotine
0113-7190	Basic Care Nicotine
0113-7201	Basic Care Nicotine
0113-7203	Basic Care Nicotine
0113-7344	Basic Care Nicotine
0113-7734	Basic Care Nicotine Mini
0113-7873	Basic Care Nicotine
0113-7957	Basic Care Nicotine Mini
0363-0124	Nicotine
0363-0201	Nicotine
0363-0262	Nicotine Mini
0363-0411	Nicotine
0363-0424	Nicotine
0363-0734	Nicotine Mini
0363-0873	Nicotine

0363-0957	Nicotine Mini
0363-0960	Maxi Nicotine
0363-1130	Nicotine Mini
0363-1825	Nicotine
0363-2640	Mini Nicotine
0363-4190	Nicotine
0363-5760	Nicotine
0363-9570	Nicotine
0363-9620	Nicotine
0536-1239	Nicotine Mini
0536-1241	Mini Nicotine
11673-124	Up And Up Nicotine Polacrilex
11673-190	Up And Up Nicotine Polacrilex
11673-344	Up And Up Nicotine
11673-424	Up And Up Nicotine
11673-727	Up And Up Nicotine
11673-734	Up And Up Nicotine
11673-858	Up And Up Mini Nicotine
11673-873	Up And Up Nicotine
11673-879	Up And Up Mini Nicotine
11673-881	Up And Up Mini Nicotine Polacrilex
11673-953	Up And Up Mini Nicotine
11673-957	Up And Up Nicotine
11822-0009	Nicotine
11822-0124	Nicotine
11822-0201	Nicotine
11822-0344	Nicotine
11822-0424	Nicotine
11822-0734	Nicotine

11822-0873	Nicotine
11822-0903	Mini Nicotine
11822-0905	Nicotine
11822-0957	Mini Nicotine
11822-1007	Nicotine
11822-3315	Nicotine Mini
11822-3316	Nicotine
11822-3317	Maxi Nicotine
11822-3319	Maxi Nicotine
11822-3379	Nicotine
11822-3622	Mini Nicotine
11822-3802	Nicotine
11822-3990	Nicotine
11822-9902	Nicotine
21130-172	Signature Care Nicotine
21130-185	Signature Care Nicotine
21130-211	Signature Care Nicotine
21130-700	Signature Care Nicotine
30142-060	Nicotine Mini
30142-124	Nicotine
30142-190	Nicotine
30142-209	Nicotine Mini
30142-344	Nicotine
30142-696	Nicotine
30142-797	Nicotine
30142-873	Nicotine
36800-344	Topcare Nicotine Polacrilex
36800-375	Topcare Nicotine Polacrilex
36800-539	Topcare Nicotine
36800-734	Topcare Nicotine
36800-873	Topcare Nicotine
36800-957	Topcare Nicotine
37012-803	Nicotine Mini
37808-383	Nicotine
37808-533	Nicotine
37808-563	Nicotine
37808-617	Nicotine

37808-674	Nicotine Lozenge
37808-707	Nicotine
37808-900	Nicotine
37808-948	Nicotine Polacrilex
41163-344	Equaline Nicotine
41163-873	Equaline Nicotine
41250-190	Nicotine
41250-201	Nicotine
41250-344	Nicotine
41250-424	Nicotine
41250-587	Mini Nicotine
41250-637	Mini Nicotine
41250-700	Nicotine
41250-734	Nicotine
41250-873	Nicotine
41250-957	Nicotine
41520-701	Careone Nicotine
41520-734	Careone Nicotine
41520-873	Care One Nicotine
41520-957	Careone Mini Nicotine Polacrilex
43598-486	Nicotine Polacrilex
43598-487	Nicotine Polacrilex
45802-089	Nicotine Polacrilex
45802-344	Nicotine Polacrilex
45802-873	Nicotine Polacrilex
45802-957	Nicotine Polacrilex
46122-176	Good Neighbor Pharmacy Nicotine
46122-177	Good Neighbor Pharmacy Nicotine
46122-254	Good Neighbor Pharmacy Nicotine
46122-255	Good Neighbor Pharmacy Nicotine Mini
46122-663	Good Neighbor Pharmacy Nicotine
46122-665	Good Neighbor Pharmacy Nicotine Mini
49035-124	Equate Nicotine

49035-190	Equate Nicotine
49035-201	Equate Nicotine
49035-436	Mini Nicotine
49035-493	Nicotine Mini
49035-702	Equate Nicotine
49035-734	Equate Nicotine
49035-791	Equate Nicotine
49035-873	Equate Nicotine
49035-900	Equate Nicotine
49035-957	Equate Nicotine
49035-998	Equate Nicotine
49348-852	Sunmark Nicotine



### Nicotine Replacement Therapy: Patch

<b>NDC</b>	<b>Proprietary Name</b>
55741-446	Habitrol Step 3
55741-447	Habitrol Step 2
55741-448	Habitrol Step 1
0135-0194	Nicoderm CQ
0135-0195	Nicoderm CQ
0135-0196	Nicoderm CQ
54569-4389	Nicoderm CQ
0363-0451	Nicotine TRANSDERMAL SYSTEM STEP 3
0363-0455	Nicotine TRANSDERMAL SYSTEM STEP 1
0363-0457	Nicotine TRANSDERMAL SYSTEM STEP 2
0363-1240	Nicotine Transdermal System
0363-1241	Nicotine Transdermal System
0363-1242	Nicotine Transdermal System
0363-1243	Nicotine Transdermal System
0363-1244	Nicotine Transdermal System
0363-1245	Nicotine Transdermal System
0536-1106	Nicotine TRANSDERMAL SYSTEM STEP 3
0536-1107	Nicotine TRANSDERMAL SYSTEM STEP 2

0536-1108	Nicotine TRANSDERMAL SYSTEM STEP 1
0536-5894	Nicotine
0536-5895	Nicotine
0536-5896	Nicotine
11673-194	Nicotine TRANSDERMAL SYSTEM
11673-195	Nicotine TRANSDERMAL SYSTEM
11673-196	Nicotine TRANSDERMAL SYSTEM
11822-3627	Nicotine TRANSDERMAL
11822-4973	Nicotine TRANSDERMAL SYSTEM STEP 3
11822-4974	Nicotine TRANSDERMAL SYSTEM STEP 2
11822-4975	Nicotine TRANSDERMAL SYSTEM STEP 1
36800-032	Nicotine Transdermal System
36800-034	Nicotine Transdermal System
36800-038	Nicotine Transdermal System
37205-358	Leader Nicotine Transdermal System STEP 1
37205-361	Leader Nicotine Transdermal System STEP 2

37205-363	Leader Nicotine Transdermal System STEP 3
37808-122	Nicotine Transdermal System
37808-123	Nicotine Transdermal System
37808-460	Nicotine Transdermal System
37808-461	Nicotine Transdermal System
43598-445	Nicotine TRANSDERMAL SYSTEM
43598-446	Nicotine TRANSDERMAL SYSTEM STEP 3
43598-447	Nicotine TRANSDERMAL SYSTEM STEP 2
43598-448	Nicotine TRANSDERMAL SYSTEM STEP 1
46122-352	Nicotine Transdermal System
46122-353	Nicotine Transdermal System
46122-354	Nicotine Transdermal System
46122-568	Nicotine Transdermal System
49035-194	Nicotine TRANSDERMAL SYSTEM
49035-195	Nicotine TRANSDERMAL SYSTEM
49035-196	Nicotine TRANSDERMAL SYSTEM
49035-782	Nicotine TRANSDERMAL
49348-144	Nicotine TRANSDERMAL SYSTEM STEP 1
49348-145	Nicotine TRANSDERMAL SYSTEM STEP 2
49348-146	Nicotine TRANSDERMAL SYSTEM STEP 3

## Nicotine Replacement Therapy: **Other**

<b>Category</b>	<b>NDC</b>	<b>Proprietary Name</b>
Nicotrol Inhaler - Rx Only	0009-5400	Nicotrol
Nicotrol Nasal Spray - Rx Only	0009-5401	Nicotrol
	54868-5052	Nicotrol
Other	0220-3657	Nicotinum
	11822-9030	Nicotine
	17312-035	Smokers Nicotine Relief
	17312-037	Smokers Nicotine Relief



## Outcome Assessment

**Gold standard:** Smoking status at 30 days, 90 days, and 1 year, cigarettes day/years; **repeat evaluation below at 30, 90, and 1 year**

**Intermediate:** Smoking status at 30 and 90 days; **repeat evaluation below at 30 and 90 days**

**Minimum:** Smoking status at 30 days

### Diagnosis Codes for Smoking

Code	Code Definition
<b>Z72.0</b>	<b>Diagnosis code used to specify a diagnosis of tobacco use</b>
<b>F17.210</b>	<b>Diagnosis code for nicotine dependence, cigarettes</b>
F17.211	Diagnosis code for nicotine dependence, cigarettes
F17.213	Diagnosis code for nicotine dependence, cigarettes
F17.218	Diagnosis code for nicotine dependence, cigarettes
F17.219	Diagnosis code for nicotine dependence, cigarettes
O99.330	Diagnosis code for smoking (tobacco) complicating pregnancy
O99.331	Diagnosis code for smoking (tobacco) complicating pregnancy
O99.332	Diagnosis code for smoking (tobacco) complicating pregnancy
O99.333	Diagnosis code for smoking (tobacco) complicating pregnancy
O99.334	Diagnosis code for smoking (tobacco) complicating pregnancy
O99.335	Diagnosis code for smoking (tobacco) complicating pregnancy
<b>Z87.891</b>	<b>Diagnosis used to specify a diagnosis of personal history of nicotine dependence</b>
1032F	CPT code for current tobacco smoker or currently exposed to secondhand smoke (Asthma)

1033F	CPT code for current tobacco non-smoker and not currently exposed to secondhand smoke (Asthma)
1034F	CPT code for current tobacco smoker (CAD, CAP, COPD, PV) (DM)
1036F	CPT code for current tobacco non-user (CAD, CAP, COPD, PV) (DM) (IBD)
G9791	HCPCS code for most recent tobacco status is tobacco free
G9792	HCPCS code for most recent tobacco status is not tobacco free
G9276	HCPCS code for documentation that patient is a current tobacco user
G9458	HCPCS code for patient documented as tobacco user and received tobacco cessation intervention
G9902	HCPCS code for patient screened for tobacco use and identified as a tobacco user
G9903	HCPCS code for patient screened for tobacco use and identified as a tobacco non-user
G9905	HCPCS code for patient not screened for tobacco use, reason not given

# Smoking Measures - Patient Survey

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# Smoking Measures - Patient Survey

## Document Overview

The purpose of this document is to provide smoking metric language for use in conducting patient surveys. This document is intended for use in conjunction with the **Smoking Data Dictionary** which has additional detail on our recommendations for variable categorizations and definitions.

Below you will find three sections (baseline, intervention, and outcome) with three levels of metrics (**gold standard**, **intermediate**, and **minimum**). We recommend using these to guide your own survey and measure development related to understanding your population at baseline and any future improvement assessments.

**Gold standard:** Smoking status at 30 days prior to hospitalization/procedure, cigarettes/day (former and current) and years (former and current)

1. In the past 30 days have you smoked cigarettes? (y/n)
  - 1.1. If yes, how many cigarettes a day do you smoke on average?  
AND For how many years have you smoked?
  - 1.2. If no, have you ever smoked? (y/n)
    - 1.2.1. If yes, how many cigarettes did you smoke a day on average?  
AND For how many years did you smoke?
  
1. **If assessing at later timepoint:** In the 30 days prior to your hospitalization at [location] on [date] did you smoke cigarettes? (y/n)
  - 1.1. If yes, how many cigarettes a day did you smoke on average?  
AND For how many years did you smoked?
  - 1.2. If no, have you ever smoked? (y/n)
    - 1.2.1. If yes, when did you stop [date]?
    - 1.2.2. If yes, how many cigarettes did you smoke a day on average?  
AND For how many years did you smoke?

**Intermediate:** Smoking status at 30 days prior, cigarettes/day or years

1. In the past 30 days have you smoked cigarettes? (y/n)
  - 1.1. If yes, how many cigarettes a day do you smoke on average?  
OR For how many years have you smoked?
  - 1.2. If no, have you ever smoked? (y/n)
    - 1.2.1. If yes, how many cigarettes did you smoke a day on average?  
OR For how many years did you smoke?
  
1. **If assessing at later timepoint:** In the 30 days prior to your hospitalization at [location] on [date] did you smoke cigarettes? (y/n)
  - 1.1. If yes, how many cigarettes a day did you smoke on average?  
OR For how many years did you smoked?
  - 1.2. If no, have you ever smoked? (y/n)
    - 1.2.1. If yes, when did you stop [date]?
    - 1.2.2. If yes, how many cigarettes did you smoke a day on average?  
OR For how many

**Minimum:** Smoking status at 30 days prior

1. In the past 30 days have you smoked cigarettes? (y/n)
  - 1.1. If no, have you ever smoked? (y/n)
  
1. **If assessing at later timepoint:** In the 30 days prior to your hospitalization at [location] on [date] did you smoke cigarettes? (y/n)
  - 1.1. If no, have you ever smoked? (y/n)

## Intervention Assessment

**Gold standard:** y/n counseling, type of service offered (nicotine replacement therapy, referrals, etc.)

**1.** During your hospitalization [or pre-op] did a doctor or other healthcare worker counsel you about quitting cigarettes? (y/n)

**1.1.** If yes, did a doctor or healthcare worker offer you nicotine replacement therapy, medication to help reduce cravings (e.g. Bupropion or Chantix), or a referral to a smoking cessation program? (y/n)

**1.1.1.** If yes, what did they offer you?

**1.1.1.1.** Nicotine replacement therapy

**1.1.1.2.** Medications to help reduce cravings

**1.1.1.3.** Referral to a smoking cessation program

**Intermediate:** y/n counseling, y/n any service offered

**1.** During your hospitalization [or pre-op] did a doctor or other healthcare worker counsel you about quitting cigarettes? (y/n)

**1.1.** If yes, did a doctor or healthcare worker offer you nicotine replacement therapy, medication to help reduce cravings (e.g. Bupropion or Chantix), or a referral to a smoking cessation program? (y/n)

**Minimum:** y/n counseling

**1.** During your hospitalization [or pre-op] did a doctor or other healthcare worker counsel you about quitting cigarettes? (y/n)

**Gold standard:** Smoking status at 30 days, 90 days, and 1 year, cigarettes/day and years, did healthcare system/provider assist in quitting; **repeat questions below at 30, 90, and 1 year**

1. Do you currently smoke cigarettes? (y/n)

1.1. If yes, how many cigarettes a day do you smoke on average?  
AND For how many years have you smoked?

1.2. If no, when did you stop [date]?

2. **For previous smokers:** Did counseling or services received during your hospitalization [or procedure] assist you in quitting smoking? (y/n)

1. **If assessing 30-day smoking at 90-day timepoint:** In the first 30 days after your hospitalization [or procedure] did you smoke cigarettes? (y/n)

1.1. If yes, how many cigarettes a day do you smoke on average?  
AND For how many years have you smoked?

1.2. If no, when did you stop [date]?

2. **For previous smokers:** Did counseling or services received during your hospitalization [or procedure] assist you in quitting smoking? (y/n)

**Intermediate:** Smoking status at 30 and 90 days; **repeat questions below at 30 and 90 days**

1. Do you currently smoke cigarettes? (y/n)

1.1. If no, when did you stop [date]?

1. **If assessing 30-day smoking at 90-day timepoint:** In the first 30 days after your hospitalization [or procedure] did you smoke cigarettes? (y/n)

1.1. If no, when did you stop [date]?

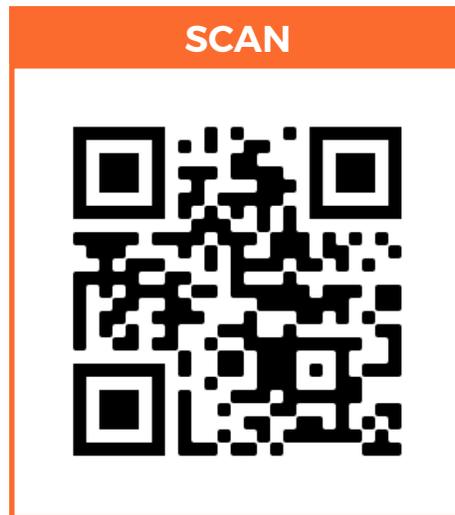
**Minimum:** Smoking status at 30 days

1. Do you currently smoke cigarettes? (y/n)

1.1. If no, when did you stop [date]?



Find a list of all claims codes and their categories relevant to the **Smoking Measures - Claims**.



[michmed.org/VrvK4](https://michmed.org/VrvK4)

---

# **Provider Resources**

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### Use the **5A's** of Intervention



#### **ASK**

About Tobacco **USE**

Identify and document tobacco use status for every patient at every visit.



#### **ADVISE**

Tobacco user to **QUIT**

In a clear, strong, and personalized manner, urge every tobacco user to quit.



#### **ASSESS**

Readiness to make a **QUIT ATTEMPT**

Is the tobacco user willing to make a quit attempt at this time?



#### **ASSIST**

With the **QUIT ATTEMPT**

For the patient willing to make a quit attempt, offer medication and provide or refer for counseling or additional treatment to help the patient quit.



#### **ARRANGE**

**FOLLOW UP** care

For the patient willing to make a quit attempt, arrange for follow-up contacts, beginning within the first week after the quit date.

## Notes for MAs

- Advise and assess by saying **WE** not **YOU**
- “Helping you stop tobacco use is one of the most important things **WE** can do to improve your **[treatment/procedure]** and **[recovery/outcomes]**. Would you like help in quitting?”

## Notes for Physicians

- “As your **[xxx]** doctor, I want to share with you how important quitting smoking is as part of your **[xxx]** care. Quitting tobacco can:”
  - Improve...
  - Reduce...
  - Speed up recovery...
- “I see you’re interested in help in quitting. To help you treat your tobacco use, I’m going to provide:”
  - Referral/connection to... **[Michigan Tobacco Quitline]** ([michigan.quitlogix.org](http://michigan.quitlogix.org)), Hospital-based cessation program, etc.]
  - A prescription for combination **Nicotine Replacement Therapy (NRT)** including nicotine patch and nicotine lozenge: using NRT can double your success with quitting
    - For providers interested in prescribing smoking cessation medications, please refer to the provided guidelines from the **CDC** and the materials developed by **HBOM**

\*Adapted from the University of Michigan Tobacco Consultation Service and the Rogel Cancer Center NCI Cancer Moonshot Project



# A Practical Guide to Help Your Patients Quit Using Tobacco

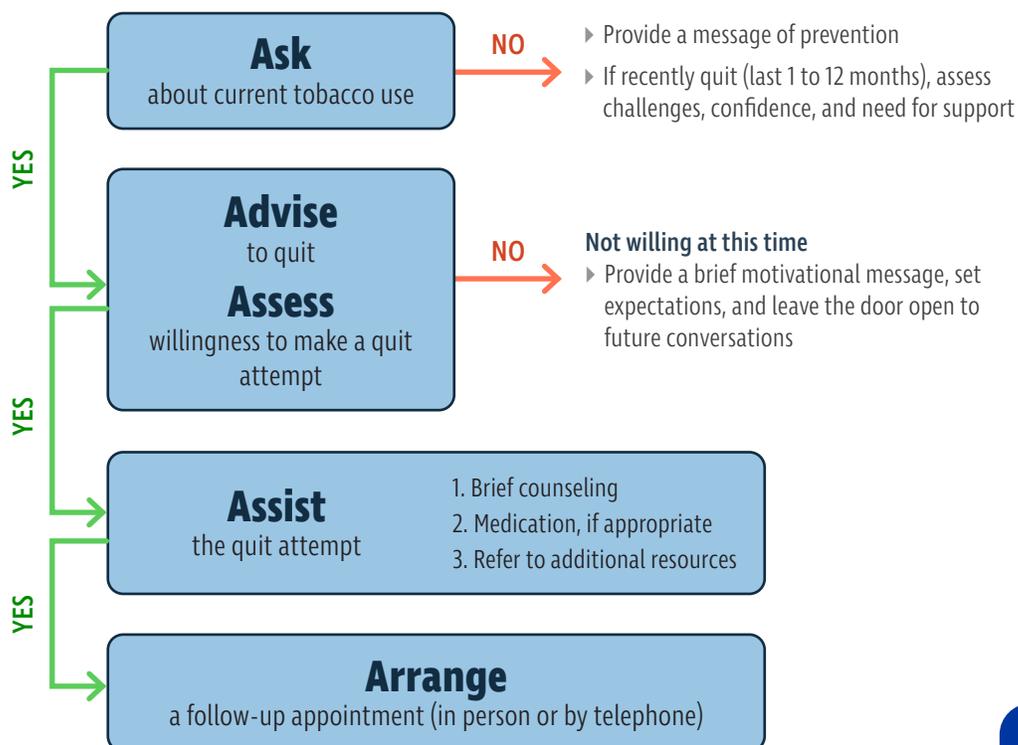
**Tobacco dependence is a chronic condition driven by addiction to nicotine.** No amount of tobacco use is safe, and treatment of tobacco use and dependence often requires multiple interventions and long-term support. Effective clinical interventions are available to help patients who use tobacco to quit.

This guide provides simple steps and suggested language that you can use to briefly (3 to 5 minutes) intervene with patients who use tobacco. These steps can be integrated into the routine clinical workflow and can be delivered by the entire clinical care team.

Key considerations for treating tobacco dependence:

- ▶ **Behavioral counseling** can benefit all patients.
- ▶ **Medication** can help patients quit and can be used with most patients, though special considerations may apply for some individuals. *See page 3.*
- ▶ **Combining behavioral counseling and medication** is more effective than either treatment alone.
- ▶ **Follow-up** is key to monitoring patients for treatment adherence, side effects, and efficacy, along with providing support and continued assistance.

## Overview: Tobacco Cessation Brief Clinical Intervention





## Clinical Intervention – Language You Can Use

### Ask

**Ask every patient about tobacco use at every visit.**

*“Do you use tobacco products, for example cigarettes or e-cigarettes?”*

**If your patient has recently quit** (in the last 1 to 12 months), congratulate them and assess challenges, confidence, and need for support.

*“The first few weeks after quitting can be hard. Have you felt the urge to use tobacco?”*

*“You are doing a great job. This is such an important step to take. Is there anything I can do to support you?”*

**If your patient has recently relapsed**, provide encouragement and support to try to quit again.

*“Quitting can be hard. It can often take someone several tries to quit successfully. Would you like to try again?”*

### Advise + Assess

**Advise your patient to quit using tobacco, and assess their willingness to quit.**

A clinician's advice to quit is an important motivator for patients. Using nonjudgmental language, deliver a message that is clear, strong, and personalized.

*“Quitting [smoking, chewing, etc.] is the most important thing you can do for your health. As someone who cares about you and your health, I'd like to help you quit.”*

*“I'd like to hear your thoughts about quitting [smoking, chewing, etc.]”*

*“Would you be willing to quit in the next 30 days?”*

**If your patient is not ready to quit**, provide a brief motivational message, set expectations, and leave the door open to future conversation.

*“I feel strongly about tobacco use and its effect on your health. I understand that quitting can be hard, but I am here to support you. I will ask you about it again the next time I see you.”*

# Assist

## If your patient is ready to make a quit attempt, assist with counseling, medications (if appropriate), and resources for support.

### Provide and document brief tobacco cessation counseling. (1-3 minutes; 3-10 minutes)

- ▶ Set a quit date within 30 days
- ▶ Review past quit attempts, including counseling and medication used
- ▶ Discuss potential withdrawal symptoms and coping strategies – see table on page 4
- ▶ Discuss potential triggers and coping strategies – see table on page 4

### Discuss, prescribe, and document tobacco cessation medication(s) unless medically contraindicated.

Populations for which there is insufficient evidence for the effectiveness of cessation medications include pregnant women (unless with medical clearance and patient consent); adolescents; people who smoke  $\leq 5$  cigarettes a day; and people who use tobacco products other than cigarettes, including smokeless tobacco and e-cigarettes.

- ▶ Nicotine replacement therapy (NRT) – patch, gum, lozenge, inhaler, and nasal spray
- ▶ Bupropion
- ▶ Varenicline
- ▶ Medication combinations: combining long-acting NRT (i.e., patch) with short-acting NRT (e.g., lozenge) increases the chances of quitting compared with using a single form of NRT

### Make a referral to additional in-depth and free cessation help.

- ▶ State tobacco quitline (1-800-QUIT-NOW; 1-855-DÉJÉLO-YA)
- ▶ Tobacco cessation program based in the community, clinic, or healthcare system
- ▶ Web support: [CDC.gov/quit](https://www.cdc.gov/quit); [Smokefree.gov](https://www.smokefree.gov); [becomeanex.org](https://www.becomeanex.org)
- ▶ Text support: [Smokefree.gov/SmokefreeTXT](https://www.smokefree.gov/SmokefreeTXT)
- ▶ App support: [Smokefree.gov/tools-tips/apps/quitstart](https://www.smokefree.gov/tools-tips/apps/quitstart)

# Arrange

## Arrange follow-up with patients who are making a quit attempt.

Follow up either in person or by telephone within a week of the patient's quit date. A second follow-up is recommended within the first month.

*"Before you leave today, we are going to schedule a follow-up appointment close to your quit date. We will check in to see how your quit attempt is going, ask if you have any questions, and see if there are ways we can support your quit attempt."*

*"Please feel free to contact us at any point. We are here to help and support you."*



## Withdrawal Symptoms and Coping Strategies

- ▶ Exercise; even a 5-minute walk can help
- ▶ Contact a friend for support
- ▶ Take a few slow, deep breaths
- ▶ Chew sugar-free gum

### INSOMNIA OR SLEEP PROBLEMS

- ▶ Avoid caffeine in the late afternoon and evening
- ▶ Exercise
- ▶ Go to sleep and wake up on a regular, consistent schedule

### RESTLESSNESS

- ▶ Exercise
- ▶ Focus on an existing hobby, or try something new like cooking, drawing, or hiking
- ▶ Clean the house, garage, basement, or attic

### HUNGER

- ▶ Eat plenty of fruits and vegetables
- ▶ Exercise regularly
- ▶ Avoid high-calorie foods and beverages
- ▶ Carry sugar-free gum or toothpicks
- ▶ Drink more water

## Triggers and Coping Strategies

### SITUATIONS

- ▶ Avoid people who use tobacco, or ask them not to use tobacco around you
- ▶ Establish friendships with people who don't use tobacco
- ▶ Avoid smoke breaks and other social situations where you use tobacco
- ▶ Avoid other situations where you usually use tobacco

### THINGS

- ▶ Get rid of cigarettes, matches, lighters, ashtrays, and any other objects that are cues or triggers for smoking or using other tobacco products
- ▶ Avoid alcohol (at least for the first month) as it may trigger a desire to smoke
- ▶ Develop new ways to manage stress, such as going for a walk

### PLACES

- ▶ Avoid places where you usually buy tobacco products
- ▶ Avoid locations where you usually use tobacco
- ▶ Take a different route to work or school

## Resources for Providers

- ▶ CDC's Office on Smoking and Health – [CDC.gov/TobaccoHCP](https://www.cdc.gov/TobaccoHCP)
- ▶ National Cancer Institute: Help Others Quit ([Smokefree.gov/help-others-quit/health-professionals](https://www.smokefree.gov/help-others-quit/health-professionals))
- ▶ Million Hearts (available at [millionhearts.hhs.gov](https://www.millionhearts.hhs.gov))
  - Tobacco Cessation Protocol
  - Tobacco Cessation Clinical Action Guide
  - Tobacco Cessation Change Package
- ▶ Treating Tobacco Use and Dependence, Clinical Practice Guideline: 2008 Update (available at [www.ahrq.gov](https://www.ahrq.gov))
- ▶ U.S. Preventive Services Task Force (USPSTF) Tobacco Cessation Recommendations (available at [www.uspreventiveservicestaskforce.org](https://www.uspreventiveservicestaskforce.org))

Adapted from:

- ▶ Million Hearts Protocol for Identifying and Treating Patients Who Use Tobacco (<https://millionhearts.hhs.gov/files/Tobacco-Cessation-Protocol.pdf>)
- ▶ New York City Department of Health and Mental Hygiene Quit Smoking Coaching Guide (<https://www1.nyc.gov/assets/doh/downloads/pdf/csi/smoke-quit-smoking-coaching-guide.pdf>)



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TREATMENT	HOW TO GET	HOW TO USE	PROS / CONS	NOTES
<b>PATCH</b> 	OVER THE COUNTER or PRESCRIPTION	REPLACE PATCH ONCE DAILY	<ul style="list-style-type: none"> <li>✓ Easy to use</li> <li>✓ Few side effects</li> <li>× Less flexible dosing</li> <li>× Slow nicotine release</li> </ul>	
<b>GUM</b> 	OVER THE COUNTER or PRESCRIPTION	USE AS NEEDED* Up to 24 pieces per day	<ul style="list-style-type: none"> <li>✓ Fast nicotine release</li> <li>✓ Flexible dosing</li> <li>× Lots of chewing</li> <li>× Can't eat or drink during use</li> </ul>	
<b>LOZENGE</b> 	OVER THE COUNTER or PRESCRIPTION	USE AS NEEDED* Up to 20 lozenges per day	<ul style="list-style-type: none"> <li>✓ More nicotine than gum</li> <li>✓ Flexible dosing</li> <li>× Can cause nausea</li> <li>× Can't eat or drink during use</li> </ul>	
<b>NASAL SPRAY</b> 	PRESCRIPTION	SPRAY ONCE IN EACH NOSTRIL* Up to 40 doses per day	<ul style="list-style-type: none"> <li>✓ Fastest nicotine delivery</li> <li>✓ Flexible dosing</li> <li>× Frequent use necessary</li> <li>× Can cause nose &amp; throat irritation</li> </ul>	
<b>INHALER</b> 	PRESCRIPTION	5-20 MIN SESSIONS THROUGHOUT THE DAY* Up to 16 cartridges per day	<ul style="list-style-type: none"> <li>✓ Keeps hands busy</li> <li>✓ Flexible dosing</li> <li>× Frequent use necessary</li> <li>× Can cause mouth &amp; throat irritation</li> </ul>	
<b>MEDICATION</b> VARENICLINE BUPROPION 	PRESCRIPTION	USE AS DIRECTED BY YOUR DOCTOR	<ul style="list-style-type: none"> <li>✓ Easy to take pill</li> <li>✓ Can be combined with other treatments*</li> <li>× Possible side effects</li> </ul>	

# TREATMENT OPTIONS QUICK GUIDE



## PATCH

**STEP 1**  
Select your dose.\*



Start here if you smoke 10 cigarettes or more per day

**STEP 2**  
Place the patch on a clean, dry, hairless spot on your upper body.

**STEP 3**  
Replace patch every 24 hours.

**STEP 4**  
Reduce dosage over time.\*



## GUM

**STEP 1**  
Select your strength.\*



**STEP 2**  
Choose a flavor. There are many options!



**STEP 3**  
To use the gum, chew slowly until the taste becomes strong, then place the gum between your cheek and gums for 1 minute. Repeat this "chew and park" method for 30 minutes.



**STEP 4**  
Use the gum whenever you have the urge to smoke as part of a quit immediately or quit gradually plan.\*

## LOZENGE

**STEP 1**  
Select your strength.\*



**STEP 2**  
Slowly dissolve the lozenge in your mouth, while occasionally moving it from one side of your mouth to the other. The lozenge will take approximately 10 minutes to fully dissolve.

**STEP 3**  
Reduce usage over time.\*

Use 1 lozenge every...



## PRESCRIPTION ONLY

## NASAL SPRAY

**STEP 1**  
Blow your nose to clear it.



1 dose = 2 sprays (one in each nostril)

**STEP 2**  
Tilt your head back and spray once in each nostril. Wait 2-3 minutes before blowing your nose.

**STEP 3**  
Reduce dosage over time.\*



## PRESCRIPTION ONLY

## INHALER

**STEP 1**  
Insert a cartridge into inhaler.



This option helps keep your hands busy!

**STEP 2**  
Puff in short breaths through the mouthpiece like you are sipping from a straw. Cartridges last for about 20 minutes of active use, but this can be broken up into multiple shorter uses.

**STEP 3**  
When the cartridge is empty, remove from the inhaler and discard.

**STEP 4**  
Reduce usage over time.\*



\* Consult your doctor to determine the appropriate treatment options and dosing.

# PHARMACOLOGIC PRODUCT GUIDE: FDA-Approved Medications for Smoking Cessation

PRODUCT	NICOTINE REPLACEMENT THERAPY (NRT) FORMULATIONS					BUPROPION SR	VARENICLINE
	GUM	LOZENGE	TRANSDERMAL PATCH	NASAL SPRAY	ORAL INHALER		
	<p>Nicorette<sup>1</sup>, Generic OTC 2 mg, 4 mg original, cinnamon, fruit, mint</p>	<p>Nicorette<sup>1</sup>, Generic Nicorette<sup>1</sup> Mini OTC 2 mg, 4 mg; cherry, mint</p>	<p>NicoDerm CQ<sup>1</sup>, Generic OTC (NicoDerm CQ, generic) 7 mg, 14 mg, 21 mg (24-hr release)</p>	<p>Nicotrol NS<sup>2</sup> Rx Metered spray 10 mg/mL nicotine solution</p>	<p>Nicotrol Inhaler<sup>2</sup> Rx 10 mg cartridge delivers 4 mg inhaled vapor</p>	<p>Zyban<sup>1</sup>, Generic Rx 150 mg sustained-release tablet</p>	<p>Chantix<sup>2</sup> Rx 0.5 mg, 1 mg tablet</p>
PRECAUTIONS	<ul style="list-style-type: none"> <li>Recent (≤ 2 weeks) myocardial infarction</li> <li>Serious underlying arrhythmias</li> <li>Serious or worsening angina pectoris</li> <li>Temporomandibular joint disease</li> <li>Pregnancy<sup>3</sup> and breastfeeding</li> <li>Adolescents (&lt;18 years)</li> </ul>	<ul style="list-style-type: none"> <li>Recent (≤ 2 weeks) myocardial infarction</li> <li>Serious underlying arrhythmias</li> <li>Serious or worsening angina pectoris</li> <li>Pregnancy<sup>3</sup> and breastfeeding</li> <li>Adolescents (&lt;18 years)</li> </ul>	<ul style="list-style-type: none"> <li>Recent (≤ 2 weeks) myocardial infarction</li> <li>Serious underlying arrhythmias</li> <li>Serious or worsening angina pectoris</li> <li>Pregnancy<sup>3</sup> and breastfeeding</li> <li>Adolescents (&lt;18 years)</li> </ul>	<ul style="list-style-type: none"> <li>Recent (≤ 2 weeks) myocardial infarction</li> <li>Serious underlying arrhythmias</li> <li>Serious or worsening angina pectoris</li> <li>Underlying chronic nasal disorders (rhinitis, nasal polyps, sinusitis)</li> <li>Severe reactive airway disease</li> <li>Pregnancy<sup>3</sup> and breastfeeding</li> <li>Adolescents (&lt;18 years)</li> </ul>	<ul style="list-style-type: none"> <li>Recent (≤ 2 weeks) myocardial infarction</li> <li>Serious underlying arrhythmias</li> <li>Serious or worsening angina pectoris</li> <li>Bronchospastic disease</li> <li>Pregnancy<sup>3</sup> and breastfeeding</li> <li>Adolescents (&lt;18 years)</li> </ul>	<ul style="list-style-type: none"> <li>Concomitant therapy with medications/conditions known to lower the seizure threshold</li> <li>Hepatic impairment</li> <li>Pregnancy<sup>3</sup> and breastfeeding</li> <li>Adolescents (&lt;18 years)</li> <li>Treatment-emergent neuropsychiatric symptoms<sup>4</sup></li> </ul> <p><b>BOXED WARNING REMOVED 12/2016</b></p> <p><b>CONTRAINDICATIONS:</b></p> <ul style="list-style-type: none"> <li>Seizure disorder</li> <li>Concomitant bupropion (e.g., Wellbutrin) therapy</li> <li>Current or prior diagnosis of bulimia or anorexia nervosa</li> <li>Simultaneous abrupt discontinuation of alcohol or sedatives/benzodiazepines</li> <li>MAO inhibitors in preceding 14 days; concurrent use of reversible MAO inhibitors</li> </ul>	<ul style="list-style-type: none"> <li>Severe renal impairment (dosage adjustment is necessary)</li> <li>Pregnancy<sup>3</sup> and breastfeeding</li> <li>Adolescents (&lt;18 years)</li> <li>Treatment-emergent neuropsychiatric symptoms<sup>4</sup></li> </ul> <p><b>BOXED WARNING REMOVED 12/2016</b></p>
DOSING	<p>1st cigarette ≤30 minutes after waking: 4 mg 1st cigarette &gt;30 minutes after waking: 2 mg</p> <p>Weeks 1-6: 1 piece q 1-2 hours</p> <p>Weeks 7-9: 1 piece q 2-4 hours</p> <p>Weeks 10-12: 1 piece q 4-8 hours</p> <ul style="list-style-type: none"> <li>Maximum, 24 pieces/day</li> <li>Chew each piece slowly</li> <li>Park between cheek and gum when peppery or tingling sensation appears (~15-30 chews)</li> <li>Resume chewing when tingle fades</li> <li>Repeat chew/park steps until most of the nicotine is gone (tingle does not return; generally 30 min)</li> <li>Park in different areas of mouth</li> <li>No food or beverages 15 minutes before or during use</li> <li>Duration: up to 12 weeks</li> </ul>	<p>1st cigarette ≤30 minutes after waking: 4 mg 1st cigarette &gt;30 minutes after waking: 2 mg</p> <p>Weeks 1-6: 1 lozenge q 1-2 hours</p> <p>Weeks 7-9: 1 lozenge q 2-4 hours</p> <p>Weeks 10-12: 1 lozenge q 4-8 hours</p> <ul style="list-style-type: none"> <li>Maximum, 20 lozenges/day</li> <li>Allow to dissolve slowly (20-30 minutes)</li> <li>Nicotine release may cause a warm, tingling sensation</li> <li>Do not chew or swallow</li> <li>Occasionally rotate to different areas of the mouth</li> <li>No food or beverages 15 minutes before or during use</li> <li>Duration: up to 12 weeks</li> </ul>	<p><u>&gt;10 cigarettes/day:</u> 21 mg/day x 4-6 weeks 14 mg/day x 2 weeks 7 mg/day x 2 weeks</p> <p><u>≤10 cigarettes/day:</u> 14 mg/day x 6 weeks 7 mg/day x 2 weeks</p> <ul style="list-style-type: none"> <li>Rotate patch application site daily; do not apply a new patch to the same skin site for at least one week</li> <li>May wear patch for 16 hours if patient experiences sleep disturbances (remove at bedtime)</li> <li>Duration: 8-10 weeks</li> </ul>	<p>1-2 doses/hour (8-40 doses/day) One dose = 2 sprays (one in <b>each</b> nostril); each spray delivers 0.5 mg of nicotine to the nasal mucosa</p> <ul style="list-style-type: none"> <li>Maximum - 5 doses/hour or - 40 doses/day</li> <li>For best results, initially use at least 8 doses/day</li> <li>Do not sniff, swallow, or inhale through the nose as the spray is being administered</li> <li>Duration: 3 months</li> </ul>	<p>6-16 cartridges/day Individualize dosing; initially use 1 cartridge q 1-2 hours</p> <ul style="list-style-type: none"> <li>Best effects with continuous puffing for 20 minutes</li> <li>Initially use at least 6 cartridges/day</li> <li>Nicotine in cartridge is depleted after 20 minutes of active puffing</li> <li>Inhale into back of throat or puff in short breaths</li> <li>Do NOT inhale into the lungs (like a cigarette) but "puff" as if lighting a pipe</li> <li>Open cartridge retains potency for 24 hours</li> <li>No food or beverages 15 minutes before or during use</li> <li>Duration: 3-6 months</li> </ul>	<p>150 mg po q AM x 3 days, then 150 mg po bid</p> <ul style="list-style-type: none"> <li>Do not exceed 300 mg/day</li> <li>Begin therapy 1-2 weeks <b>prior</b> to quit date</li> <li>Allow at least 8 hours between doses</li> <li>Avoid bedtime dosing to minimize insomnia</li> <li>Dose tapering is not necessary</li> <li>Duration: 7-12 weeks, with maintenance up to 6 months in selected patients</li> </ul>	<p>Days 1-3: 0.5 mg po q AM</p> <p>Days 4-7: 0.5 mg po bid</p> <p>Weeks 2-12: 1 mg po bid</p> <ul style="list-style-type: none"> <li>Begin therapy 1 week <b>prior</b> to quit date</li> <li>Take dose after eating and with a full glass of water</li> <li>Dose tapering is not necessary</li> <li>Dosing adjustment is necessary for patients with severe renal impairment</li> <li>Duration: 12 weeks; an additional 12-week course may be used in selected patients</li> <li>May initiate up to 35 days before target quit date OR may reduce smoking over a 12-week period of treatment prior to quitting and continue treatment for an additional 12 weeks</li> </ul>

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ADVERSE EFFECTS	GUM	LOZENGE	TRANSDERMAL PATCH	NASAL SPRAY	ORAL INHALER	BUPROPION SR	VARENICLINE
	<ul style="list-style-type: none"> <li>Mouth and throat irritation</li> <li>Jaw muscle soreness</li> <li>Hiccups</li> <li>GI complaints (dyspepsia, nausea)</li> <li>May stick to dental work</li> </ul>	<ul style="list-style-type: none"> <li>Mouth and throat irritation</li> <li>Hiccups</li> <li>GI complaints (dyspepsia, nausea)</li> </ul>	<ul style="list-style-type: none"> <li>Local skin reactions (erythema, pruritus, burning)</li> <li>Sleep disturbances (abnormal/vivid dreams, insomnia); associated with nocturnal nicotine absorption</li> </ul>	<ul style="list-style-type: none"> <li>Nasal and/or throat irritation (hot, peppery, or burning sensation)</li> <li>Ocular irritation/tearing</li> <li>Sneezing</li> <li>Cough</li> </ul>	<ul style="list-style-type: none"> <li>Mouth and/or throat irritation</li> <li>Cough</li> <li>Hiccups</li> <li>GI complaints (dyspepsia, nausea)</li> </ul>		
<ul style="list-style-type: none"> <li>Adverse effects more commonly experienced when chewing the lozenge or using incorrect gum chewing technique (due to rapid nicotine release): <ul style="list-style-type: none"> <li>Lightheadedness/dizziness</li> <li>Nausea/vomiting</li> <li>Hiccups</li> <li>Mouth and throat irritation</li> </ul> </li> </ul>							
ADVANTAGES	<ul style="list-style-type: none"> <li>Might serve as an oral substitute for tobacco</li> <li>Might delay weight gain</li> <li>Can be titrated to manage withdrawal symptoms</li> <li>Can be used in combination with other agents to manage situational urges</li> <li>Relatively inexpensive</li> </ul>	<ul style="list-style-type: none"> <li>Might serve as an oral substitute for tobacco</li> <li>Might delay weight gain</li> <li>Can be titrated to manage withdrawal symptoms</li> <li>Can be used in combination with other agents to manage situational urges</li> <li>Relatively inexpensive</li> </ul>	<ul style="list-style-type: none"> <li>Once-daily dosing associated with fewer adherence problems</li> <li>Of all NRT products, its use is least obvious to others</li> <li>Can be used in combination with other agents; delivers consistent nicotine levels over 24 hours</li> <li>Relatively inexpensive</li> </ul>	<ul style="list-style-type: none"> <li>Can be titrated to rapidly manage withdrawal symptoms</li> <li>Can be used in combination with other agents to manage situational urges</li> </ul>	<ul style="list-style-type: none"> <li>Might serve as an oral substitute for tobacco</li> <li>Can be titrated to manage withdrawal symptoms</li> <li>Mimics hand-to-mouth ritual of smoking</li> <li>Can be used in combination with other agents to manage situational urges</li> </ul>	<ul style="list-style-type: none"> <li>Twice-daily oral dosing is simple and associated with fewer adherence problems</li> <li>Might delay weight gain</li> <li>Might be beneficial in patients with depression</li> <li>Can be used in combination with NRT agents</li> <li>Relatively inexpensive (generic formulations)</li> </ul>	<ul style="list-style-type: none"> <li>Twice-daily oral dosing is simple and associated with fewer adherence problems</li> <li>Offers a different mechanism of action for patients who have failed other agents</li> <li>Most effective cessation agent when used as monotherapy</li> </ul>
DISADVANTAGES	<ul style="list-style-type: none"> <li>Need for frequent dosing can compromise adherence</li> <li>Might be problematic for patients with significant dental work</li> <li>Proper chewing technique is necessary for effectiveness and to minimize adverse effects</li> <li>Gum chewing might not be acceptable or desirable for some patients</li> </ul>	<ul style="list-style-type: none"> <li>Need for frequent dosing can compromise adherence</li> <li>Gastrointestinal side effects (nausea, hiccups, heartburn) might be bothersome</li> </ul>	<ul style="list-style-type: none"> <li>When used as monotherapy, cannot be titrated to acutely manage withdrawal symptoms</li> <li>Not recommended for use by patients with dermatologic conditions (e.g., psoriasis, eczema, atopic dermatitis)</li> </ul>	<ul style="list-style-type: none"> <li>Need for frequent dosing can compromise adherence</li> <li>Nasal administration might not be acceptable or desirable for some patients; nasal irritation often problematic</li> <li>Not recommended for use by patients with chronic nasal disorders or severe reactive airway disease</li> <li>Cost of treatment</li> </ul>	<ul style="list-style-type: none"> <li>Need for frequent dosing can compromise adherence</li> <li>Cartridges might be less effective in cold environments (<math>\leq 60^{\circ}\text{F}</math>)</li> <li>Cost of treatment</li> </ul>	<ul style="list-style-type: none"> <li>Seizure risk is increased</li> <li>Several contraindications and precautions preclude use in some patients (see PRECAUTIONS)</li> <li>Patients should be monitored for potential neuropsychiatric symptoms<sup>4</sup> (see PRECAUTIONS)</li> </ul>	<ul style="list-style-type: none"> <li>Patients should be monitored for potential neuropsychiatric symptoms<sup>4</sup> (see PRECAUTIONS)</li> <li>Cost of treatment</li> </ul>
COST/DAY <sup>5</sup>	2 mg or 4 mg: \$1.90–\$5.49 (9 pieces)	2 mg or 4 mg: \$3.33–\$4.23 (9 pieces)	\$1.52–\$3.49 (1 patch)	\$8.75 (8 doses)	\$14.95 (6 cartridges)	\$2.58–\$8.25 (2 tablets)	\$15.90 (2 tablets)

<sup>1</sup> Marketed by GlaxoSmithKline.

<sup>2</sup> Marketed by Pfizer.

<sup>3</sup> The U.S. Clinical Practice Guideline states that pregnant smokers should be encouraged to quit without medication based on insufficient evidence of effectiveness and theoretical concerns with safety. Pregnant smokers should be offered behavioral counseling interventions that exceed minimal advice to quit.

<sup>4</sup> In July 2009, the FDA mandated that the prescribing information for all bupropion- and varenicline-containing products include a black-boxed warning highlighting the risk of serious neuropsychiatric symptoms, including changes in behavior, hostility, agitation, depressed mood, suicidal thoughts and behavior, and attempted suicide. Clinicians should advise patients to stop taking varenicline or bupropion SR and contact a health care provider immediately if they experience agitation, depressed mood, or any changes in behavior that are not typical of nicotine withdrawal, or if they experience suicidal thoughts or behavior. If treatment is stopped due to neuropsychiatric symptoms, patients should be monitored until the symptoms resolve. Based on results of a mandated clinical trial, the FDA removed this boxed warning in December 2016.

<sup>5</sup> Approximate cost based on the recommended initial dosing for each agent and the wholesale acquisition cost from Red Book Online. Thomson Reuters, January 2019.

The AAFP supports the U.S. Preventive Services Task Force (USPSTF) clinical preventive service recommendation on tobacco smoking cessation, including FDA-approved cessation pharmacotherapy. Currently, electronic nicotine delivery systems (ENDS) or e-cigarettes, are not FDA-approved cessation pharmacotherapy.

Abbreviations: MAO, monoamine oxidase; NRT, nicotine replacement therapy; OTC, over-the-counter (nonprescription product); Rx, prescription product.

**For complete prescribing information and a comprehensive listing of warnings and precautions, please refer to the manufacturers' package inserts.**

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