

## VHA TOBACCO USE CESSATION TREATMENT GUIDANCE

#### Part 3: Medications for Tobacco Use Cessation

DESCRIPTION & EXAMPLES	Pros & Cons	Comments/Limitations	Dosing Recommendations
Nicotine Patch 24-hour delivery systems 21, 14, 7 mg/24 hr 16-hour delivery systems 15 mg/16 hr (Generic available, over-the-counter (OTC)) Delivers nicotine directly through the skin.	<ul> <li>PROS <ul> <li>Achieve constant levels of replacement</li> <li>Easy to use</li> <li>Only needs to be applied once a day</li> <li>Few side effects</li> </ul> </li> <li>CONS <ul> <li>Less-flexible dosing — cannot titrate dose to acutely manage withdrawal symptoms</li> <li>Slow onset of delivery</li> <li>Mild skin rashes and irritation</li> </ul> </li> </ul>	<ul> <li>Patches vary in strengths and the length of time over which nicotine is delivered.</li> <li>Patches may be placed anywhere on the upper body, including arms and back.</li> <li>Avoid hairy areas.</li> <li>Rotate the patch site each time a new patch is applied.</li> </ul>	<ul> <li>≥10 cigs/day = 21 mg/day x 4-6 wks, then 14mg/day x 2-3 wks, then 7mg/day x 2-3 wks.</li> <li>&lt;10 cigs/day = 14 mg/day x 6wks, then 7mg/day x 2 wks.</li> <li>Adjust based on withdrawal symptoms, urges, and comfort. After 4-6 weeks of abstinence, taper every 2-4 weeks in 7-14 mg steps as tolerated.</li> <li>DURATION</li> <li>8-12 weeks</li> </ul>
Nicotine Lozenge 2 mg, 4 mg (OTC) Delivers nicotine through the lining of the mouth while the lozenge dissolves.	<ul> <li>PROS <ul> <li>Easy to use</li> <li>Can titrate to manage withdrawal symptoms</li> <li>May satisfy oral cravings</li> <li>Delivers doses of nicotine approximately 25% higher than nicotine gum</li> </ul> </li> <li>CONS <ul> <li>Should not eat or drink 15 minutes before use or during use; avoid acidic beverages</li> <li>Should not be chewed or swallowed</li> <li>Need for frequent dosing can compromise compliance</li> <li>Nausea frequent (12–15%)</li> </ul> </li> </ul>	<ul> <li>Use at least 8-9 lozenges/day initially.</li> <li>Instruct patients to allow lozenge to dissolve slowly over 20-30 minutes.</li> <li>Rotate to different sites of the mouth.</li> <li>Nicotine release may cause a warm, tingling sensation.</li> <li>Maximum 20 lozenges/day.</li> <li>Efficacy and frequency of side-effects related to amount used.</li> <li>Review package directions carefully to maximize benefit of product.</li> </ul>	<ul> <li>Based on time to first cigarette of the day: &lt;30 minutes = 4 mg &gt;30 minutes = 2 mg</li> <li>Based on cigarettes/day: &gt;20 cigs/day = 4 mg &lt;20 cigs/day = 2 mg</li> <li>Initial dosing = 1-2 lozenges every 1-2 hours (minimum 9/day) x 6wks, then 1 q2-4hrs x 3wks, then 1 q4-8hrs x 3wks.</li> <li>Taper as tolerated.</li> <li>DURATION</li> <li>12 weeks</li> </ul>







# VHA TOBACCO USE CESSATION: TREATMENT GUIDANCE **Part 3**: **Medications for Tobacco Use Cessation**

DESCRIPTION & EXAMPLES	Pros & Cons	Comments/Limitations	Dosing Recommendations
Nicotine Gum 2mg, 4mg (Generic available, OTC) Delivers nicotine through the lining of the mouth while gum is parked between cheek and gum.	<ul> <li>PROS</li> <li>Convenient/flexible dosing that allows for titration to manage withdrawal symptoms</li> <li>Faster delivery of nicotine than the patches</li> <li>Might satisfy oral cravings</li> <li>CONS</li> <li>May be inappropriate for people with dental problems and those with temporomandibular joint (TMJ) syndrome</li> <li>Should not eat or drink 15 minutes before use or during use; avoid acidic beverages</li> <li>Frequent use during the day required to obtain adequate nicotine levels — may compromise compliance</li> <li>Requires proper chewing technique for maximum benefit and to minimize adverse effects</li> </ul>	<ul> <li>The term "gum" is misleading; it is not chewed like regular gum.</li> <li>Many people use this medication incorrectly.</li> <li>Advise patients to chew each piece slowly.</li> <li>Chew for 15-30 chews and park between cheek and gum when peppery or tingling sensation appears.</li> <li>Rotate to different sites of the mouth.</li> <li>Resume chewing when taste or tingle fades.</li> <li>Repeat chew/park steps until taste or tingle does not return (about 30 minutes).</li> <li>Review package directions carefully to maximize benefit of product.</li> </ul>	<ul> <li>Based on cigarettes/day: &gt;20 cigs/day = 4 mg gum &lt;20 cigs/day = 2 mg gum</li> <li>Based on time to first cigarette of the day: &lt;30 minutes = 4 mg 230 minutes = 2 mg</li> <li>Initial dosing = 1-2 pieces every 1-2 hrs (10-12 pieces/day) x 6 wks, then 1 piece every 2-4 hours x 3 wks, then 1 piece every 4-8 hours x 3 wks.</li> <li>Taper as tolerated.</li> <li>DURATION</li> <li>Standard duration is up to 12 weeks. Longer durations have been studied and associated with better abstinence rates.</li> </ul>
Combination Nicotine Replacement Therapy (NRT) Nicotine patch + Nicotine gum PRN Nicotine patch + Nicotine patch + Nicotine lozenge PRN	<ul> <li>PROS</li> <li>Permits sustained levels of nicotine (patch) with rapid adjustment for acute cravings and urges (PRN gum or lozenge)</li> <li>More efficacious than monotherapy</li> <li>CONS</li> <li>May increase risk of nicotine toxicity</li> <li>Added cost of two NRT products versus one</li> </ul>	<ul> <li>Providing two types of delivery system, one passive and one active, appears to be more efficacious.</li> <li>Should be considered for those who have failed single therapy in the past or those considered highly tobacco dependent.</li> <li>Considered a first-line treatment in the 2008 Update USPHS Clinical Practice Guidelines.</li> <li>Not a FDA-approved strategy.</li> </ul>	<ul> <li>Dose patch as described above.</li> <li>Prescribe 2mg or 4mg gum or lozenge (according to dose-dependence level described above) on an as-needed basis when acute withdrawal symptoms and urges to use tobacco occur. (Initially, most patients require about 6-8 pieces of gum or lozenges/day.)</li> <li>Nicotine patch dose may be increased if patient is requiring more frequent use of PRN gum or lozenge after patch taper.</li> <li>DURATION</li> <li>Patch: 8-10 weeks (with lozenge) or 8-24weeks (with gum)</li> <li>Gum: 26-52 weeks</li> <li>Lozenge: 12 weeks</li> </ul>





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DESCRIPTION & EXAMPLES	Pros & Cons	Comments/Limitations	Dosing Recommendations
NON-NICOTINE MEDICATION Bupropion SR (Generic available)	<ul> <li>PROS <ul> <li>Easy to use</li> <li>Pill form — may be associated with better compliance</li> <li>Few side effects</li> <li>May be beneficial in patients with depression</li> <li>May be used in combination with NRT</li> </ul> </li> <li>CONS <ul> <li>Contraindicated with certain medical conditions and medications</li> <li>Increased seizure risk</li> </ul> </li> </ul>	<ul> <li>Treatment should be initiated 1 week prior to quit date and titrated.</li> <li>Avoid bedtime dosing to minimize insomnia, but allow 8 hours between doses.</li> <li>Use with caution in patients with liver disease (dose adjustment necessary).</li> <li>A slight risk of seizure (1:1000) is associated with use of this medication.</li> <li>Assess seizure risk and avoid if: <ul> <li>Personal history of seizures</li> <li>Significant head trauma/brain injury</li> <li>Anorexia nervosa or bulimia</li> <li>Abrupt discontinuation of alcohol or sedatives</li> <li>Concurrent use of medications that lower the seizure threshold</li> </ul> </li> </ul>	<ul> <li>Start medication 1 week prior to the quit date: <ul> <li>150 mg QD x 3 days, then</li> <li>150 mg BID x 4 days, then</li> <li>On quit date STOP SMOKING</li> <li>Continue at 150 mg BID x 8-12 weeks.</li> </ul> </li> <li>If patient has been successful at quitting, an additional 12 weeks may be considered.</li> <li>May stop abruptly.</li> <li>No need to taper.</li> </ul>
COMBINATION MEDICATION Bupropion SR + Nicotine Patch	<ul> <li>PROS</li> <li>Easy-to-use combination (FDA approved)</li> <li>Uses agents with two different mechanisms of action</li> <li>CONS</li> <li>Does not allow for adjustment of acute cravings or urges</li> <li>Added cost of two NRT products versus one</li> <li>May be associated with more side effects than monotherapy</li> </ul>	<ul> <li>Should be considered for those who have failed single therapy in the past or those considered highly tobacco dependent.</li> <li>Considered a first-line treatment in the 2008 Update USPHS Clinical Practice Guidelines.</li> </ul>	<ul> <li>Use standard doses and duration.</li> <li>Bupropion: See bupropion dosing above; continue for 8–12 weeks.</li> <li>If patient has been successful at quitting, an additional 12 weeks may be considered.</li> <li>Nicotine patch: Dose patch as described above for total duration of 8–12 weeks.</li> </ul>





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DESCRIPTION & EXAMPLES	Pros & Cons	COMMENTS/LIMITATIONS	Dosing Recommendations
COMBINATION MEDICATION Bupropion SR + Nicotine Lozenge or Gum	<ul> <li>PROS <ul> <li>Uses agents with two different mechanisms of action</li> <li>Allows for rapid adjustment for acute cravings and urges (PRN gum or lozenge)</li> <li>More efficacious than monotherapy</li> </ul> </li> <li>CONS <ul> <li>Added cost of two NRT products versus one</li> <li>May be associated with more side effects than monotherapy</li> </ul> </li> </ul>	<ul> <li>Providing two types of mechanisms of action, including an active delivery system, appears to be more efficacious.</li> <li>Should be considered for those who have failed single therapy in the past or those considered highly tobacco dependent.</li> <li>Though not included in the 2008 Update USPHS Clinical Practice Guidelines, data published after the Update supports this combination.</li> <li>Not a FDA-approved strategy.</li> </ul>	<ul> <li>Use standard doses and duration.</li> <li>Bupropion: See bupropion dosing above; continue for 8-12 weeks.</li> <li>If patient has been successful at quitting, an additional 12 weeks may be considered.</li> <li>Prescribe 2mg or 4mg gum or lozenge (according to dose-dependence level described above) on an as-needed basis when acute withdrawal symptoms and urges to use tobacco occur. (Initially, most patients require about 6-8 pieces of gum or lozenges/day.)</li> </ul>
NON-NICOTINE MEDICATION Varenicline	<ul> <li>PROS <ul> <li>Easy to use</li> <li>Pill form — may be associated with better compliance</li> <li>No known drug interactions</li> <li>Unique mechanism of action</li> </ul> </li> <li>CONS <ul> <li>Nausea common in up to 1/3rd of patients</li> <li>Severe neuropsychiatric symptoms may occur</li> <li>Safety and efficacy have not been established in patients with serious psychiatric illness</li> </ul> </li> </ul>	<ul> <li>Treatment should be initiated 1 week prior to quit date and titrated.</li> <li>Taking the medication with food and titrating the dose as directed may help with nausea.</li> <li>Take with a full glass of water.</li> <li>Varenicline should not be used in combination with NRT.</li> <li>Dose must be adjusted if kidney function is impaired.</li> <li>VHA-specific varenicline prescribing guidelines at: www.pbm.va.gov/ Clinical Guidance/Criteria For Use/ Varenicline Criteria for Prescribing.doc</li> </ul>	<ul> <li>TAKE WITH FOOD and full glass of water</li> <li>Start medication one week prior to the quit date: <ul> <li>0.5 mg QD x 3 days, then</li> <li>0.5 mg BID x 4 days, then</li> <li>On quit date STOP SMOKING and</li> <li>Take 1.0 mg BID x 11 weeks</li> </ul> </li> <li>If not smoking at the end of twelve weeks, may continue for an additional 12 weeks.</li> <li>May stop abruptly.</li> <li>No need to taper.</li> </ul>

