

VHA TOBACCO USE CESSATION TREATMENT GUIDANCE

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

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



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

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