STATEWIDE PROTOCOL

Arkansas State Board of Pharmacy

I. Purpose

The purpose of this protocol is to reduce tobacco-related morbidity and mortality in Arkansas by allowing Arkansas-licensed pharmacists to initiate nicotine replacement therapy (NRT) including ordering, dispensing, and/or administering NRT products, along with any necessary supplies for administration, to persons eligible to receive NRT.

II. Authority

This protocol is issued pursuant to Act 651 of 2019 (HB 1263) (Arkansas Code § 17-92-101) to authorize licensed pharmacists in Arkansas to order, dispense, and/or administer all FDA-approved NRT products according to the provisions of Arkansas Code § 17-92-101(16) and the requirements of this protocol. Pharmacists may continue to provide over-the-counter smoking cessation products without use of this protocol.

III. Initial Patient Screening

When a patient requests NRT or when a pharmacist, in his or her professional judgement, decides to initiate smoking cessation treatment and counseling, the pharmacist shall assess, at a minimum, the following patient criteria in determining the appropriate therapy to initiate:

- Current tobacco use and prior attempts to quit
- Medical and social history, including current medications
- Allergies / hypersensitivities
- Precautions of potential medication treatments
- Patient preferences regarding treatment options
- Ask the patient the following screening questions:
 - Are you pregnant or plan to become pregnant?
 - If yes, do not furnish NRT and refer to appropriate health care provider
 - o Have you had a heart attack within the last 2 weeks?
 - If yes, furnish NRT with caution and refer to appropriate healthcare provider
 - Do you have any history of heart palpitations, irregular heartbeats, or have you been diagnosed with a serious arrhythmia?
 - If yes, furnish NRT with caution and refer to appropriate healthcare provider
 - Do you currently experience frequent chest pain or heave you been diagnosed with unstable angina?
 - If yes, furnish NRT with caution and refer to appropriate healthcare provider
 - Do you have any history of allergic rhinitis (e.g., nasal allergies)?
 - If yes, avoid nasal spray
 - o Have you been diagnosed with temporal mandibular joint (TMJ) dysfunction?
 - If yes, avoid nicotine gum

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IV. Precautions/Contraindications

The pharmacist shall assess the patient for the following precautions/contraindications and, if any identified, the pharmacist is authorized to dispense at the professional discretion of the pharmacist only if the patient has identified a primary care provider with whom the pharmacist has conferred prior to dispensing.

- Recent history of myocardial infarction (within 14 days)
- Known serious cardiac arrhythmia, unstable or severe angina
- Known moderate/severe hepatic or renal impairment

NRT initiation will be individualized based on relevant medical and social history obtained and patient preferences, involving consideration of contraindications and precautions of therapy as outlined in **Appendix 1**.

V. Dispensing Guidelines

A. Medications Authorized

This protocol authorizes Arkansas-licensed pharmacists, upon assessment of the patient and determination that a nicotine replacement smoking cessation product is appropriate, to initiate dispensing of NRT products (alone or in combination) as provided in **Appendix 1 or from FDA approved product labeling**.

NRT Product Selection: The pharmacist, in consultation with the patient, may select any NRT product (alone or in combination) from all FDA approved NRT products including by not limited to the list of therapies either specified in this protocol in Appendix 1 or from FDA approved product labeling. Generic equivalent products may be furnished.

B. Patient Education and Follow-Up

Follow-up monitoring and evaluation shall occur at a minimum of every four weeks to determine effectiveness, adverse effects, and patient progress with therapy. If follow-up monitoring and evaluation indicates therapy continuation is warranted, medication refills may be authorized as appropriate. Should follow-up evaluation and monitoring indicate an adjustment in therapy is warranted, all procedures as outlined for initiation of therapy, including education, documentation, and notification, shall be followed.

Patients receiving NRT under this protocol shall receive education regarding:

- Motivation to cease tobacco use
- Drug information related to the specific dosage form dispensed, including directions for use and adverse effects
- Nicotine withdrawal symptoms
- Lifestyle modifications
- Techniques to prevent relapse

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C. Labeling

A prescription label shall be affixed to the nicotine replacement product dispensed.

D. Records

Pharmacists shall document in the patient medication record the dispensing of NRT products.

E. Prescriber Notification

Within a reasonable amount of time, the pharmacist shall provide notification to the patient's primary care provider of the NRT product dispensed to the patient under the protocol. If a patient does not identify a primary care provider, the pharmacist shall provide the patient with a written record of the dispensing and refer the patient to consult an appropriate health care professional of the patient's choice.

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<u>Appendix 1*</u>: Pharmacologic Product Guide of FDA-Approved NRT Products

	Nicotine Replacement Therapy (NRT) Formulations							
	Gum	Lozenge	Oral Inhaler	Nasal Spray	Transdermal Patch			
Product	Nicorette, Zonnic, Generic OTC 2 mg, 4 mg original, cinnamon, fruit, mint	Nicorette Lozenge, Nicorette Mini Lozenge, Generic OTC 2 mg, 4 mg cherry, mint	Nicotrol Inhaler Rx 10 mg cartridge Delivers 4 mg inhaled vapor	Nicotrol NS Rx Metered spray 10 mg/mL aqueous solution	NicoDerm CQ, Generic OTC (NicoDerm CQ, generic) Rx (generic) 7 mg, 14 mg, 21 mg (24-hr release)			
Precautions	 Recent (≤ 2 weeks) myocardial infarction Serious underlying arrhythmias Serious / worsening angina pectoris Temporomandibular joint disease Pregnancy / breastfeeding Adolescents (<18 years) 	 Recent (≤ 2 weeks) myocardial infarction Serious underlying arrhythmias Serious / worsening angina pectoris Pregnancy / breastfeeding Adolescents (<18 years) 	 Recent (≤ 2 weeks) myocardial infarction Serious underlying arrhythmias Serious / worsening angina pectoris 	 Recent (≤ 2 weeks) myocardial infarction Serious underlying arrhythmias Serious / worsening angina pectoris 	 Recent (≤ 2 weeks) myocardial infarction Serious underlying arrhythmias Serious / worsening angina pectoris 			
		NRT: imme	diate release		NRT: sustained release			
Dosing	1st cigarette ≤30 minutes after waking: 4 mg 1st cigarette >30 minutes after waking: 2 mg Weeks 1-6: 1 piece q 1-2 hours Weeks 7-9: 1 piece q 2-4 hours Weeks 10-12: 1 piece q 4-8 hours • Max: 24 pieces/day • Chew each piece slowly • Park between cheek & gum when peppery / tingling sensation appears (~15 - 30 chews) • Resume chewing when tingle fades • Repeat chew/park steps until most of the nicotine is gone (tingle does not return; ~30 minutes) • Park in different areas of mouth • No food or beverages 15 minutes before or during use • Duration: up to 12 weeks	1st cigarette ≤30 minutes after waking: 4 mg 1st cigarette >30 minutes after waking: 2 mg Weeks 1-6: 1 lozenge q 1-2 hours Weeks 7-9: 1 lozenge q 2-4 hours Weeks 10-12: 1 lozenge q 4-8 hours • Max: 20 lozenges /day • Allow to dissolve slowly (20-30 minutes for standard; 10 minutes for mini) • Nicotine release may cause a warm, tingling sensation • Do not chew or swallow • Occasionally rotate to different areas of the mouth • No food or beverages 15 minutes before or during use • Duration: up to 12 weeks	 6–16 cartridges/day Individualize dosing; initially use 1 cartridge q 1–2 hours Best effects with continuous puffing for 20 minutes Initially use at least 6 cartridges/day Nicotine in cartridge is depleted after 20 minutes of active puffing Inhale into back of throat or puff in short breaths Do NOT inhale into the lungs (like a cigarette) but "puff" as if lighting a pipe Open cartridge retains potency for 24 hours No food or beverages 15 minutes before or during use Duration: 3–6 months 	1– 2 doses/hour (8-40 doses/day) One dose = 2 sprays (one in each nostril) Each spray delivers 0.5 mg of nicotine to the nasal mucosa • Max:	>10 cigarettes/day 21 mg/day x 4- 6 weeks 14 mg/day x 2 weeks 7 mg/day x 2 weeks <10 cigarettes/day 14 mg/day x 6 weeks 7 mg/day x 2 weeks • Rotate patch application site daily • Do not apply a new patch to the same skin site for at least one week • May wear patch for 16 hours if patient experiences sleep disturbances (remove at bedtime) Duration: 8- 10 weeks			

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Appendix 1* (continued)

	Nicotine Replacement Therapy (NRT) Formulations (continued)							
	Gum	Lozenge	Oral Inhaler	Nasal Spray	Transdermal Patch			
Adverse Effects	Hiccups Dyspepsia Hypersalivation Effects associated with incorrect chewing	Nausea Hiccups Cough Heartburn Headache Flatulence Insomnia	Mouth / throat irritation (hot, peppery, or burning sensation) Cough Headache Rhinitis Dyspepsia Hiccups	 Nasal / throat irritation (hot, peppery, or burning sensation) Rhinitis Tearing Sneezing Cough Headache 	Local skin reactions (erythema, pruritus, burning) Headache Sleep disturbances (insomnia, abnormal/vivid dreams); associated with nocturnal nicotine absorption			
Advantages	 Might serve as an oral substitute for tobacco Might delay weight gain Can be titrated to manage withdrawal symptoms Can be used in combination with other agents to manage situational urges 		Might serve as an oral substitute for tobacco Can be titrated to manage withdrawal symptoms Mimics hand-to-mouth ritual of smoking Can be used in combination with other agents to manage situational urges	 Can be titrated to rapidly manage withdrawal symptoms Can be used in combination with other agents to manage situational urges 	Once-daily dosing associated with fewer adherence problems Of all NRT products, its use is least obvious to others Can be used in combination with other agents; delivers consistent nicotine levels over 24 hours			
Disadvantages	can compromise adherence Might be problematic for patients with significant dental work	Need for frequent dosing can compromise adherence Gastrointestinal side effects (nausea, hiccups, heartburn) might be bothersome	 Need for frequent dosing can compromise adherence Cartridges might be less effective in cold environments (≤60°F) 	 Need for frequent dosing can compromise adherence Nasal administration might not be acceptable or desirable for some patients; nasal irritation often problematic Not recommended for use by patients with chronic nasal disorders or severe reactive airway disease 	When used as monotherapy, cannot be titrated to acutely manage withdrawal symptoms Not recommended for use by patients with dermatologic conditions (psoriasis, eczema, atopic dermatitis, etc.)			

^{*}This protocol authorizes licensed pharmacists in Arkansas to order, dispense, and/or administer all FDA-approved NRT products either specified in this protocol or according to indications, dosing and contraindications of FDA approved package labeling.