MEDICATIONS FOR TREATING TOBACCO DEPENDENCE

Medication	Pros and Cons	Considerations	Recommended and "Off-Label" Use		
NICOTINE REPLACEMENT THERAPY – FDA APPROVED 1 ST LINE MEDICATIONS					
All NRT Products	+ No new substance introduced	Med Interactions: Bupropion, caffeine, ergots, insulin, some antipsychotics Contraindications / Warnings: MI < 6 weeks ago, serious CV disease (e.g., arrhythmias, unstable angina), pregnancy, uncontrolled HTN, uncontrolled DM Side Effects: vivid dreams, insomnia, application site reactions, diarrhea / dyspepsia / nausea, dizziness, headache, treatment emergent HTN	Recommended Usage Stop tobacco 9 - 12 weeks standard "Off Label" Trends Start 1-2 weeks prior to quit date Combo with other NRT or Bupropion; possibly varenicline Can use > 12 weeks (6 mo, possibly longer)		
Nicotine Transdermal Patch (Nicoderm, Nicotrol, Habitrol)	 + Simplest to use + OTC, Relatively low cost + Best adherence: once daily + Steady, high plasma levels - 1-2 hours to achieve blood levels - Fewer dosing options - Max dose may be insufficient 	Med Interactions: (see "All NRT") Contraindications / Warnings: (see "All NRT") Side Effects: (see "All NRT"), skin rash Other: Membrane version may yield fewer skin-related side effects than non-membrane version, but may cost more; Can be taken off at night if disrupts sleep	Recommended Usage (see "All NRT") 1 per day, on awakening Start at 21mg unless <100 lbs or <10 cpd Below neck, above waist, above elbow; shift site each day Remove at bedtime if sleep is disturbed If patch does not stick – use surgical tape; Ace bandage "Off Label" Trends (see "All NRT") <15 cpd: 14mg; 15-20: 14-21mg 21-39 cpd: 28-35 mg; 40+ cpd: 42mg Cut (Habitrol) or partially cover (membrane) to adjust delivery Can use > 12 weeks (6 mo, longer?)		
Nicotine Polacrilex Gum (Nicorette)	Flexible dosing / use prn OTC, Various flavors, Oral substitute Good for 'irregular' smoker Non-stick, sugarless Insufficient use is common Chewing increases S/E's Costly as monotherapy Minor dependence liability	Med Interactions: (see "All NRT") Contraindications / Warnings: (see "All NRT") Side Effects: (see "All NRT"), oral sores, jaw muscle ache Other: should not be chewed vigorously	Recommended Usage (see "All NRT") • 2 mg (≤ 24 cigs per day); 4 mg (25+ cigs per day) • No food or drink before or while using • Chew and park for 30 minutes • 1 piece per 45 min - 2 hrs, max 24 / day • 12 weeks "Off Label" Trends (see "All NRT") • Cut 4mg in half to save money • Can taper • Use prn with pregnant smokers		
Nicotine I nhaler (Nicotrol)	 + Flexible dosing / use prn + Oral substitute most like cigarette + Lower level of delivery, Good for 'irregular' / low rate smoker - Requires frequent puffing - Costly, Prescription only 	Med Interactions: (see "All NRT") Contraindications / Warnings: (see "All NRT"), caution with reactive airway disease Side Effects: (see "All NRT"), throat/mouth irritation, coughing, rhinitis	Recommended Usage (see "All NRT") 6 - 16 cartridges / day 12 weeks; optional additional 6-12 weeks Puff into mouth; do not inhale 1 cartridge yield 20 min of puffing Cartridge good for 24 hr once opened Stop if not quit in 4 weeks "Off Label" Trends (see "All NRT")		

Nicotine Nasal Spray (Nicotrol NS)	Flexible dosing / use prn High dose – good for heavier users Costly, Prescription only	Med Interactions: (see "All NRT") Contraindications / Warnings: (see "All NRT"), caution with reactive airway disease Side Effects: (see "All NRT"), nasal congestion, nasal tract irritation, temporary change in smell / taste	Recommended Usage (see "All NRT") 1-2 doses / hr; Max 5 / hr or 40 / day Most average 1 dose per hour (1 dose = 1 spray in ea nostril) Do not inhale while spraying Spray towards outer nasal walls 12 weeks; Stop if not quit in 4 weeks
Nicotine Lozenge (Commit)	+ OTC, Flexible dosing / use prn + Good for 'irregular' smoker + Oral substitute + 25% higher delivery vs gum - Consuming too fast increases S/E's - Costly as monotherapy	Med Interactions: (see "All NRT") Contraindications / Warnings: (see "All NRT") Side Effects: (see "All NRT"), throat/mouth irritation, coughing, rhinitis	 "Off Label" Trends (see "All NRT") Recommended Usage (see "All NRT") 2 mg: 1st cig > 30 min after awakening 4 mg: 1st cig < 30 min after awakening No food or drink before or while using Max 6 / 5-hr period, max 20 / day 12 weeks "Off Label" Trends (see "All NRT") Can taper
	Non-Nico	DTINE PRODUCTS – FDA APPROVED 1 ST LIN	E MEDICATIONS
Bupropion SR / XL (Zyban, Wellbutrin, Bupropion)	+ Ease of use + Mood elevating effect + Attenuates weight gain + May be best choice for patient with higher depressive symptoms at BL - 1-2 weeks to achieve therapeutic effect	FDA BOXED WARNING Med Interactions: MAOIs, TCAs, NRT, protease inhibitors, OK with SSRIs (limited data) Contraindications / Warnings: seizure risk, pregnancy, eating disorder, psychosis Side Effects: Depressed mood or Depression, suicidal ideation / attempt / completion, changes in thinking or behavior, hostility, agitation, worsening pre-existing psych illness, anxiety, insomnia, dry mouth, shakiness, sedation, tx emerg HTN Evaluate seizure risk: any h/o seizures, anorex / bulimia, head trauma, loss of consciousness, other meds that lower seizure threshold, brain lesions, abrupt d/c alcohol, sedatives	Recommended Usage Daily for 3 days, twice /day 7-12 weeks (XL is once daily) Set quit date for 7 days after starting Can use up to 24 weeks; Tapering not necessary Discontinue if no progress in 7 weeks "Off Label" Trends Keep at qd dose for 1 week before increasing Set quit date for 14 days after starting Can use up to 12 months Combine with NRT, Varenicline
Varenicline (Chantix)	+ Ease of use + No CYP450 (liver) concerns; minimal renal concerns + No drug-drug interactions + Starter / Continuation Paks; bottles - 1-2 weeks to achieve therapeutic effect (at least)	FDA BOXED WARNING Med Interactions: none Contraindications / Warnings: caution with severe ESRD Side Effects: Changes in thinking / behavior / mood, hostility, agitation, depression / depressed mood, suicidal thoughts / actions, anxiety / panic, aggression, anger, mania, abnormal sensations, hallucinations, paranoia, confusion, worsening psych symptoms; sleep disturbance; vivid dreaming; serious / life-threatening skin reactions (rash, swelling, redness, peeling), allergic reactions (swelling of face, mouth, throat), blisters in mouth, caution driving / operating machinery nausea, insomnia, abnormal dreaming, flatulence, constipation, vomiting	Recommended Usage O.5mg per day for 3 days, then 0.5mg twice per day for 4 days, then 1mg twice per day for 11 weeks If quit at 12 weeks, consider additional 12 weeks Eat a meal and drink full glass of water "Off Label" Trends Can use for 1 year (safety data available) Combine with NRT, Bupropion More rapid up-titration to maximal dose (0.5mg qd, 0.5mg bid, 1.0mg bid) over as few as 3 days
	OTHER O	PTIONS – 2^{ND} LINE MEDICATIONS (NOT FD	A APPROVED)
Nortriptyline	- Must monitor closely	Higher level of side effects; Significant risk for CV patients	25 mg /day, gradual increase to 75-100 mg /day12 weeks
Clonidine	+ Transdermal (tts) or oral (po) forms - Must monitor closely	Higher level of side effects, especially with abrupt discontinuation	 3 – 10 weeks PO: 0.10mg, increase by 0.10mg as needed up to 0.75 mg TTS: 0.10 mg, can increase to 0.20 mg