Algorithm for tailoring pharmacotherapy. Ask about tobacco use. Advise your patient to quit. "How many cigarettes do you 💶 🗕 느 "I am concerned about your tobacco use and advise you to quit. Would you mind if smoke a day?"_____ / day we spend a few minutes so that I can better understand your smoking addiction?" **Assess** readiness to quit on a scale of 1 - 10. Motivational Interviewing (MI) 1. Desire to quit - "How important is it for you to quit smoking?" Explore the 5R's using reflective listening: Confidence - "How confident are you that you can guit smoking?" **Relevance:** why is quitting relevant to health, family, social situation? _____ / 10 Rewards: potential benefits of quitting - health, money, taste & smell Risk: Acute (shortness of breath), chronic (CVD, cancer, COPD) Desire to quit / Desire to quit / Roadblocks: withdrawal symptoms, fear of failure, weight gain Repetition: repeat MI every time the patient visits the clinic Confidence ≥ 5 Confidence ≤ 5 Assist with smoking cessation. 1. How would you like to quit: cold turkey or with assistance? 2. Do you want to quit abruptly or gradually? 3. What type of assistance do you need pharmacotherapy, counseling Pharmacotherapy +/- counseling Cold turkey Reduce to quit If patient smokes >10 cigarettes/day, Arrange See reverse follow-up offer pharmacotherapy for steps Varenicline NRT Bupropion **Arrange** follow up 1-4 weeks post quit date. **NRT Dosing** Determine response to therapy. 10 - 29 CPD 30+ CPD 'Light" Smoker 'Moderate" Smoke Start with: Partial response **Full Response** 14mg patch 28mg patch (21+7) 21mg patch x 1-4 weeks x 1-4 weeks x 1-4 weeks +Choose one short-acting NRT (gum, lozenge, mouth spray or inhaler) for breakthrough cravings as needed Maintenance Follow up 1-4 weeks post quit date and assess smoking **Combination therapy** If smoking 0 CPD If still smoking Varenicline + NRT Bupropion SR + Varenicline Patch (different doses over 12 Varenicline - same dosing as Continue on current dose 10+ CPD: Add a 21mg patch weeks) above to current dose Varenicline - same dosing as above Bupropion - same dosing as above 6-9 CPD: Add a 14mg patch Assess med adherence *limited data on safety to current dose Adjust dose 1-5 CPD: Add a 7mg patch to Bupropion ST + Two forms of NRT current dose Increase counseling NRT Patch (14mg) + Gum (2mg) + Choose one short-acting NRT Bupropion + Patch Patch + Inhaler or Spray or Lozenge for breakthrough cravings as Bupropion + Gum needed Continue with the above guidelines (adding patches if NOTE: Maximum is 84mg (4 x21mg) Partial response

Additional information:

First line pharmacotherapy Therapy should be tailored to individual's needs and preferences			
	Varenicline (Champix®)	Nicotine Replacement Therapy (NRT)	Bupropion (Wellbutrin SR®, Zyban®)
Advantages	Most effective - highest quit rates. No drug interactions except with NRT (may increase risk of adverse events.)	Safe in stable cardiac disease. Patch is the most effective form of NRT.	Minimal weight gain, helps depression, can use with NRT, as effective as NRT.
Quit Date	7-14d (up to 35) after starting	Same day up to 4 weeks after starting	7-10d after starting
Caution	Risk of increased cardiac events in patients with heart disease; Steven-Johnson Syndrome; andioedema; erythema multiforme. Reduce dose in renal disease. Avoid driving/machinery if sedated	Inhaler: still has nicotine when finished - dispose properly Patch: OK if smokes, leave patch on and try to quit again	Seizures, mood changes, suicide, drug interactions. Contraindications: Seizure disorders, bulimia/anorexia (recent or remote), liver failure, monoamine oxidase inhibitors
Side Effects	Nausea, nightmares, insomnia	Patch: abnormal dreams/insomnia (remove before bed) All other forms of NRT- mouth irritation, dyspepsia	Dry mouth, constipation, agitation, insomnia, headache, tremor
Dose	Day 1 - 3: 0.5mg PO once daily Day 4 - 7: 0.5mg PO BID Day 8 - onwards: 1mg PO BID x 12 - 24 weeks	Patch: different doses tapered over 12 weeks Inhaler: cartridge=10mg nicotine+1mg menthol, PRN max12/d Gum: Nicorette® (2/4mg); Thrive® (1/2mg), max 20/d Spray: 1mg per spray, 1-2 sprays q30-60m, max 4 sprays/hr Lozenges: 2mg(<25 cig/day); 4mg(>25 cig/day), max20/d	150mg SR PO qam x 3d; then BID x 7-12 weeks

Reduce to quit protocol

Step 1: (0-6 weeks)

Set target no. of cigarettes per day to cut down (recommended at least 50%) and a date to achieve it by. Use gum to manage cravings.

Step 2: (6 weeks - 6 months)

Continue to cut down cigarettes using gum. Goal should be complete stop by 6 months. Seek advice from HCP if smoking has not stopped within 9 months.

Step 3: (within 9 months)

Stop all cigarettes and continues to use gum to relieve cravings.

Step 4: (within 12 months)

Cut down the amount of gum used, then stop gum use completely (within 3 months of stopping smoking).

Glossary

BID: twice a day

COPD: chronic obstructive pulmonary disease

d: dayslbs: poundsLU: limited use

NRT: nicotine replacement therapy **MAOI:** monoamine oxidase inhibitor

Max: maximum

ODB: Ontario drug benefit

OTC: over-the-counter / no prescription needed

PRN: as needed qam: every morning Px: requires subscription

SR: slow release
Wt: weight

References

Information provided is evidence-based but may not be approved for use in certain regions. Refer to your local regulatory authority for approved indications, guidelines, and updated safety information.

CAN-ADAPTT Summary Statements *Counseling & Psychosocial Approaches*

 Combining counseling and smoking cessation medication is more effective than either alone, therefore both should be provided to patients/clients trying to stop smoking where feasible. (1A)

CAN-ADAPTT Pharmacotherapy Guidelines - Updated

- 1. Offer efficacious pharmacotherapy to every patient who smokes 10 or more cigarettes daily and is willing to make a quit attempt. (1A)
- 2. Healthcare providers should **tailor smoking cessation** pharmacotherapy to the patient's clinical needs and preferences. (1C)
- **3. Varenicline** improves smoking cessation rates at 6 and 12 months compared to placebo. (1A)
- **4. Varenicline** is more efficacious at improving smoking cessation rates at 6 months compared to bupropion. (1A)
- **5. Varenicline** is more efficacious at improving smoking cessation rates at 6 months compared to NRT. (1B)
- **6. Bupropion** improves smoking cessation rates at 6 and 12 months compared to placebo. (1A)
- 7. Nicotine replacement therapy in any commercially available form (transdermal patch, gum, lozenge, nasal spray, oral inhaler, sublingual tablet) improve smoking cessation rates at 6 and 12 months. (1A)
- 8. 8 weeks of NRT patch therapy is as effective as longer course of therapy for smoking cessation at 6 months. (1A)
- 9. Higher NRT gum dose of 4 mg (vs. 2 mg) is more efficacious for smoking cessation rates at 6 months for high dependency smokers or those who have relapsed with 2 mg. (1A)
- 10. Combining NRT patch with other forms of NRT yields higher efficacy for smoking cessation rates at 6 months compared to patch alone, especially where immediate/fast effects are desired. (2A)
- 11. NRT patch high dose (44/42 mg) has a very small or borderline benefit than standard dose (22/21 mg) for smoking cessation rates at 6 months. (2A)
- **12.** Cytisine may improve smoking cessation rates at 6 and 12 months compared to placebo. (2C)
- **13. Nortriptyline** may improve smoking cessation rates at 6 and 12 months compared to placebo. (2C)
- **14.** There is insufficient evidence to make a recommendation regarding the use of **clonidine** for smoking cessation. (C)