

Andrew Pipe, CM, MD

Division of Prevention & Rehabilitation

University of Ottawa Heart Institute





I will discuss the 'off-label' use of medications.



OTTAWA MODEL FOR SMOKING CESSATION MODÈLE D'OTTAWA POUR L'ABANDON DU TABAC

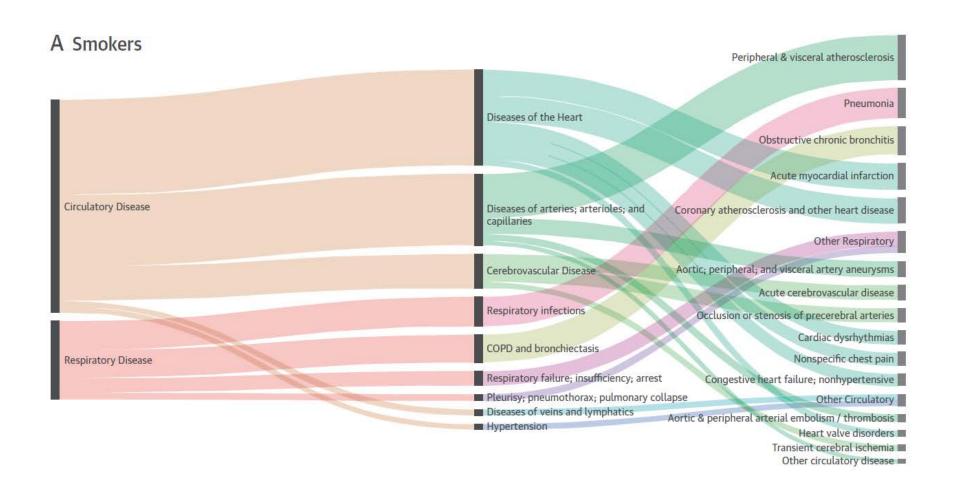


Smoking Cessation

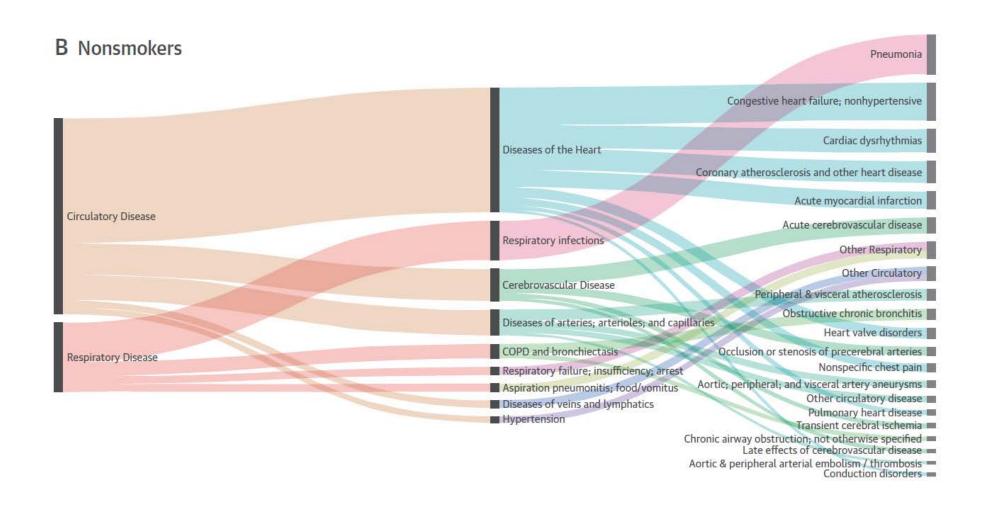
"The single, most powerful, preventive intervention in clinical practice."

Woolf SH. JAMA 1999;282(24):2358-65.

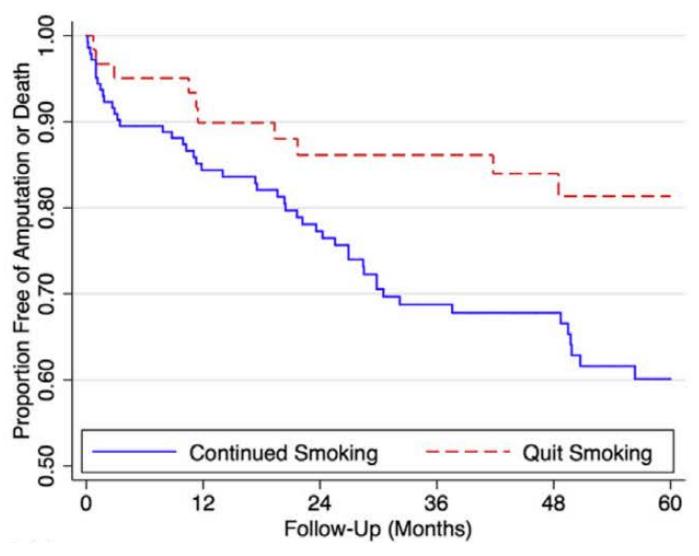
Reasons for Hospitalization



Reasons for Hospitalization

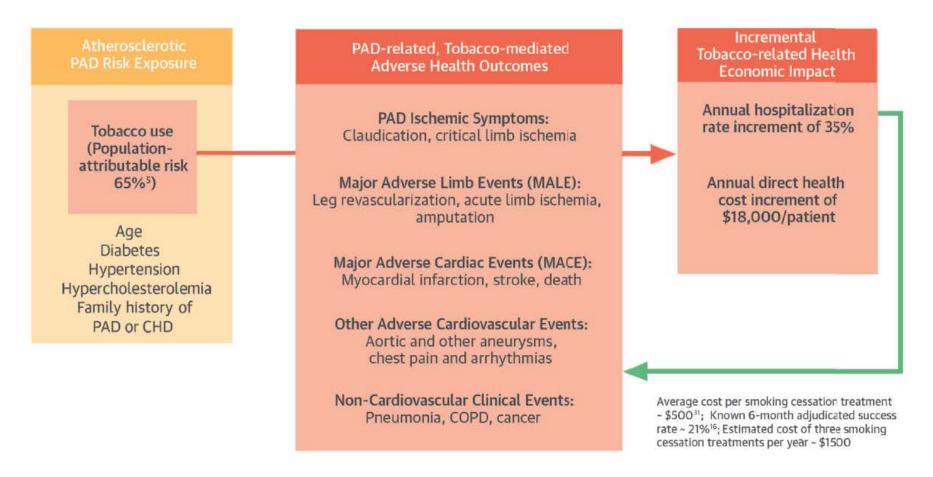


Amputation-free survival among patients who continued vs quit smoking



Armstrong EJ et al. J Vasc Surg 2014;60:1565-71

Impact of Tobacco on PAD Clinical Events and Cost



Tobacco is the single most powerful modifiable cause of atherosclerotic PAD, markedly increasing the risk of CVD (MACE and MALE) and non-CVD clinical events and hospitalizations. This is associated with an immense increase in annual health care costs. Smoking cessation is effective and costs very little.

Duval S et al. J Am Coll Cardiol 2015;66:1566-74



Tobacco Addiction

"...it is difficult to identify any other condition that presents such a mix of lethality, prevalence ... and neglect

...despite effective and readily available interventions."

Treating Tobacco Use and Dependence. Clinical Practice Guideline. US DHHS. 2000.





Smoking diminishes benefit of blood pressure control

Journath G, et al. Blood Press. 2005; 14(3):144-150.

Smoking cessation is superior to other proven cardiovascular interventions

Critchley JA, Capewell S. JAMA. 2003;290(1):86-97.

Impact of Smoking on Cardiovascular Events in Patients With Coronary Disease Receiving Contemporary Medical Therapy (from the Treating to New Targets [TNT] and the Incremental Decrease in End Points Through Aggressive Lipid Lowering [IDEAL] Trials)

Paul Frey, MD^a, David D. Waters, MD^{a,*}, David A. DeMicco, PharmD^c, Andrei Breazna, PhD^c, Larry Samuels, PhD^c, Andrew Pipe, CM, MD^d, Chuan-Chuan Wun, PhD^c, and Neal L. Benowitz, MD^b



Hypertensive smokers have a worse cardiovascular risk profile than non-smokers in spite of treatment

Blood Pressure 2005;14:144-150

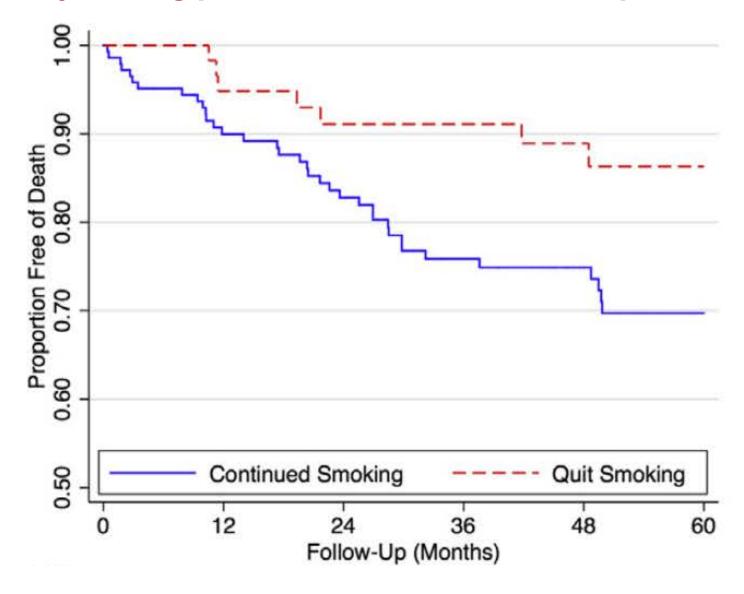
Smoking diminishes benefits of statins

61% higher risk
of events for
smokers compared
with nonsmokers
treated with statins for
secondary prevention



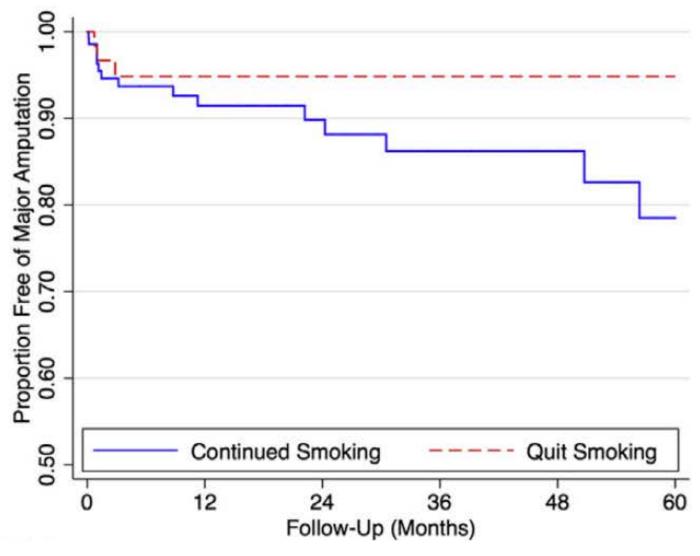
Milionis HJ et al. Angiology 2001;52:575-587

Mortality among patients who continued vs quit smoking



Armstrong EJ et al. J Vasc Surg 2014;60:1565-71

Rates of major amputation among patients who continued vs quit smoking



Armstrong EJ et al. J Vasc Surg 2014;60:1565-71



Cost Effectiveness



per life-year saved:

Smoking Cessation	\$ 2,000 - 6,000
R _x of Hypertension	\$ 9,000 - 26,000
R _x of Hyperlipidemia	\$ 50,000 - 196,000

Benowitz NL Prog Cardiovasc Dis 2003;46:91-111



SPECIAL ARTICLE

21st-Century Hazards of Smoking and Benefits of Cessation in the United States

Prabhat Jha, M.D., Chinthanie Ramasundarahettige, M.Sc., Victoria Landsman, Ph.D., Brian Rostron, Ph.D., Michael Thun, M.D., Robert N. Anderson, Ph.D., Tim McAfee, M.D., and Richard Peto, F.R.S.

CONCLUSIONS

Smokers lose at least one decade of life expectancy, as compared with those who have never smoked. Cessation before the age of 40 years reduces the risk of death associated with continued smoking by about 90%.

Smoking cessation at age 60, 50, 40, & 30 increases life expectancy by 3, 6, 9, 10 years, respectively









Probability of dependence after trying a substance at least once

Tobacco 32%

Heroin 23%

Cocaine 17%

Alcohol 15%

Stimulants 11%

Anxiolytics 9%

Cannabis 9%

Analgesics 8%

Inhalants 4%

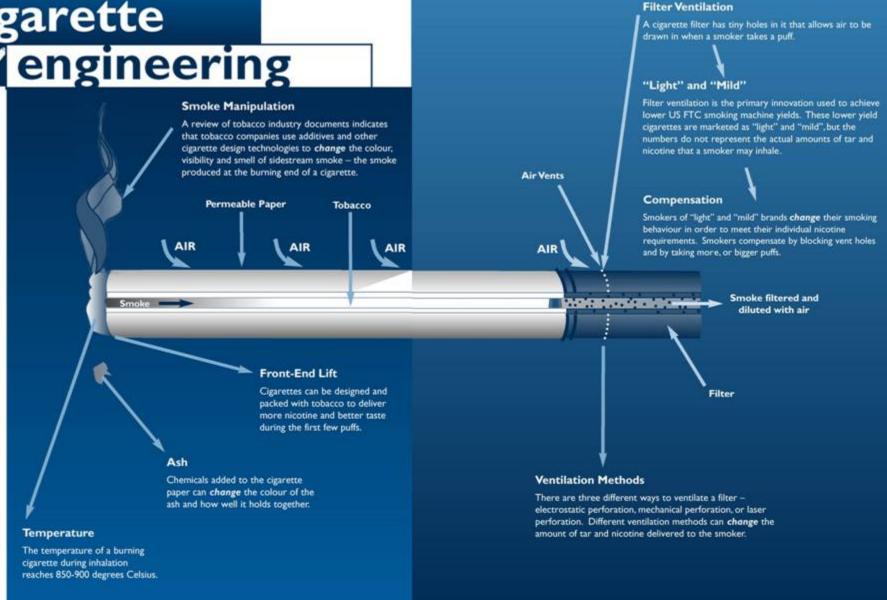


Stahl's Essential Psychopharmacology, 3rd ed. 2008

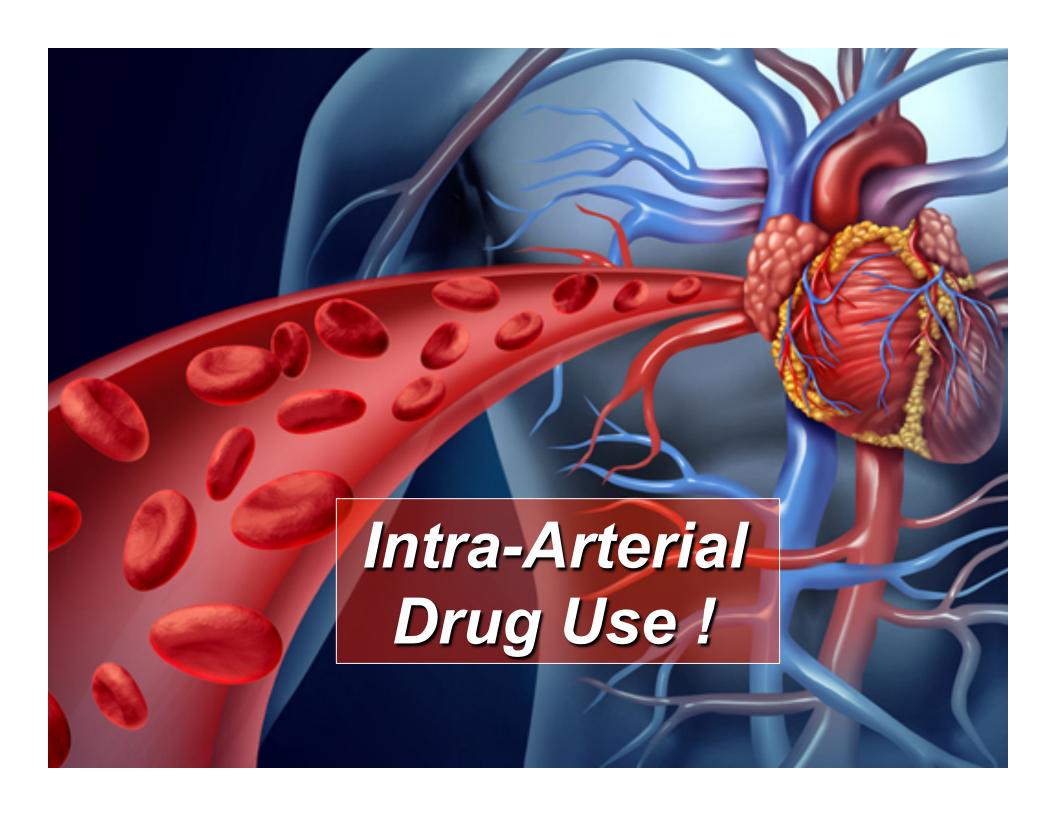


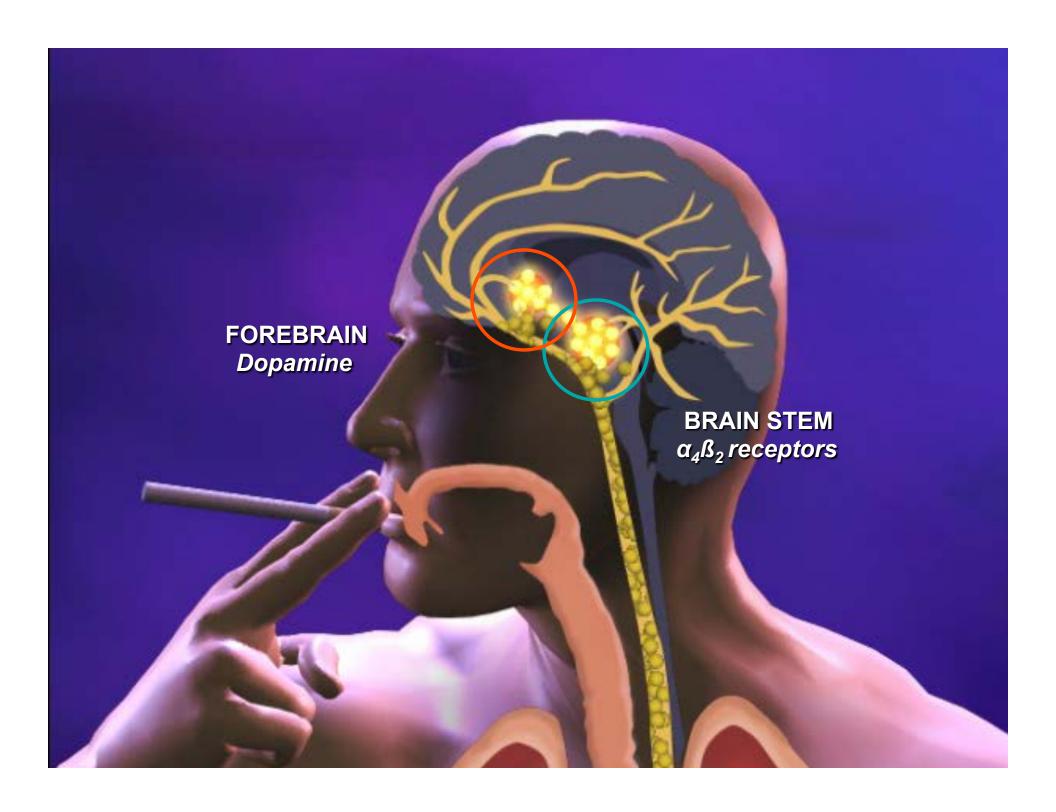


Cigarette engineering



Volume 3, Issue 1 - March 2003 CTI Clinical Tobacco Intervention Bulletin www.ctica.org

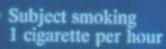




A'
SMOKE
FREE

A Day in the Life of Blood Nicotine

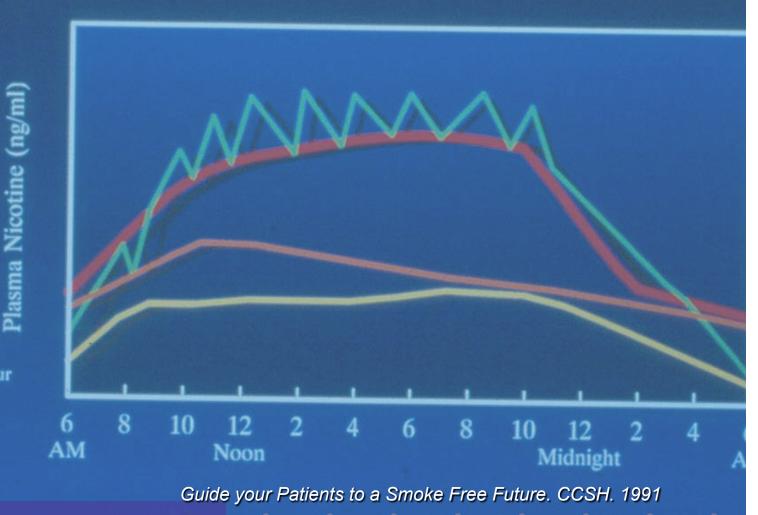


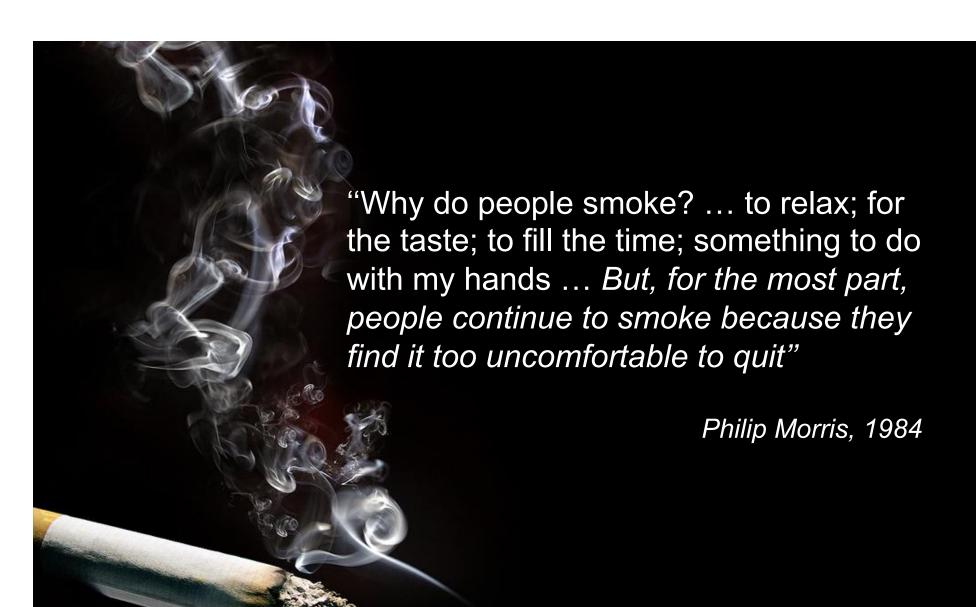


Blood levels will vary with dosage and type of patch 21 mg, 24 hour

4mg chewing pieces (peak at 12 ng) drops to 0 at 6 am

Comfort zone for nicotine dependent smoker





Philip Morris. Internal presentation. 1984, 20th March; Kenny et al. *Pharmacol Biochem Behav.* 2001;70:531-549



CANNABIS USE IN CANADA

Canada has one of the highest rates of cannabis use in the world.



40%

OF CANADIANS HAVE USED CANNABIS



10%

OF CANADIANS HAVE USED CANNABIS IN THE PAST YEAR



20%

OF CANADIANS AGED 15-24 YEARS USED CANNABIS IN THE PAST YEAR

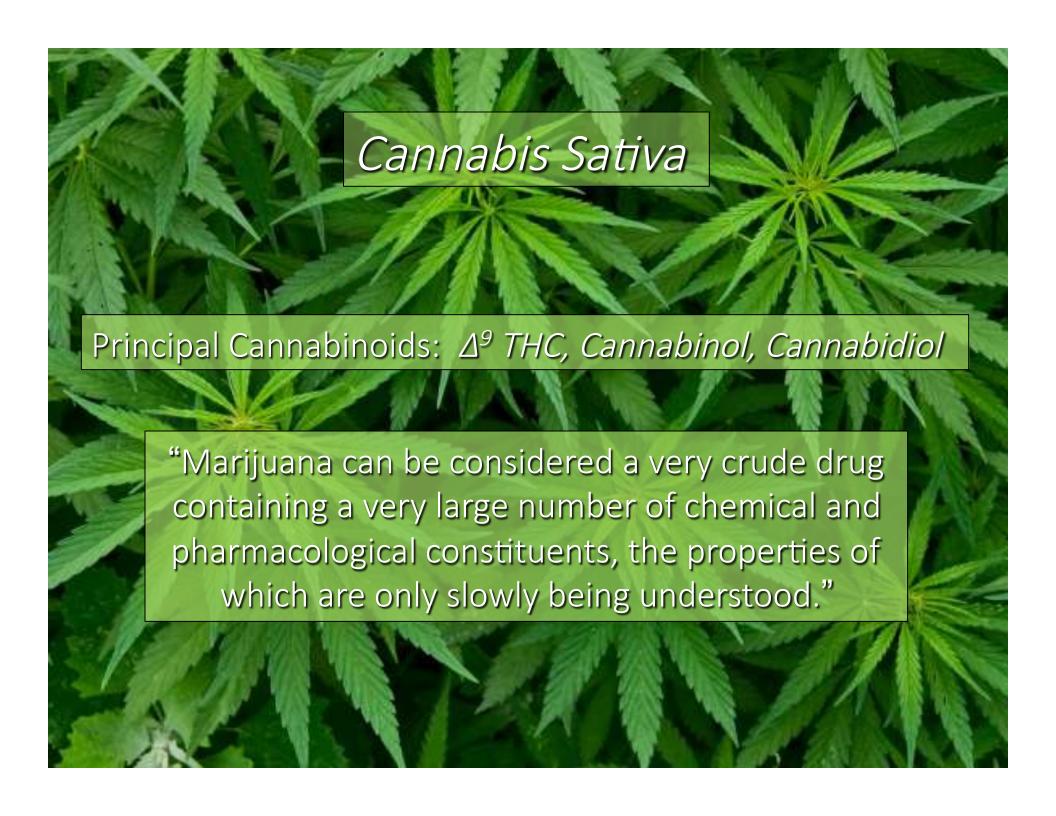


70%

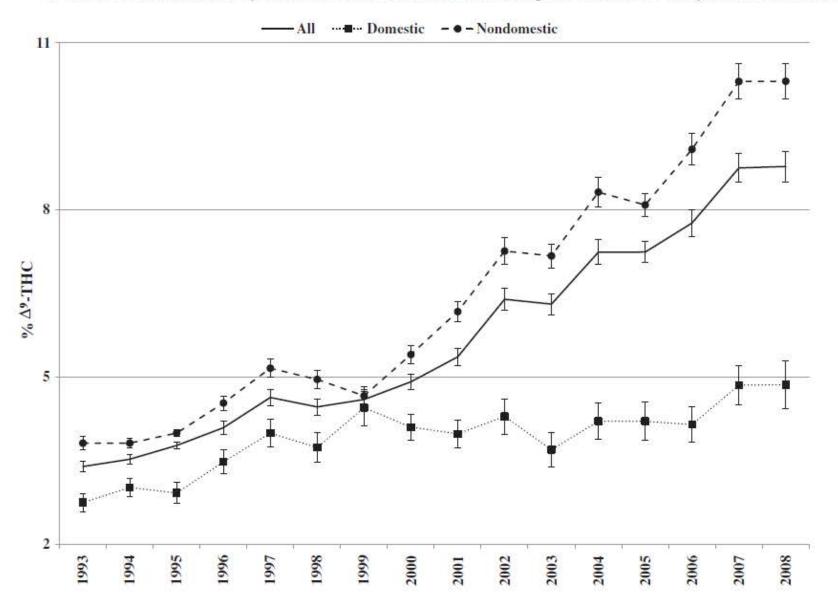
OF CANADIAN CANNABIS USERS ARE AGE 25 OR OLDER



Centre for Addiction and Mental Health (CAMH)



 Δ^9 -THC concentration of domestic and nondomestic samples with 95% confidence intervals.



J Forensic Sci 2010 Sep;55(5):1209-17

Many studies focusing on the duration of impairment were conducted when marijuana typically had a much lower concentration.

The applicability of these studies to today's more potent varieties is questionable as the duration of effect may be longer.

Adverse Effects of Short-Term Use of Marijuana

Impaired short-term memory, making it difficult to learn and to retain information

Impaired motor coordination, interfering with driving skills and increasing the risk of injuries

Altered judgment, increasing the risk of sexual behaviors that facilitate the transmission of sexually transmitted diseases

In high doses, paranoia and psychosis



Adverse Effects of Long-Term or Heavy Use of Marijuana

Addiction (in about 9% of users overall, 17% of those who begin use in adolescence, and 25 to 50% of those who are daily users)*

Altered brain development*

Poor educational outcome, with increased likelihood of dropping out of school*

Cognitive impairment, with lower IQ among those who were frequent users during adolescence*

Diminished life satisfaction and achievement (determined on the basis of subjective and objective measures as compared with such ratings in the general population)*

Symptoms of chronic bronchitis

Increased risk of chronic psychosis disorders (including schizophrenia) in persons with a predisposition to such disorders

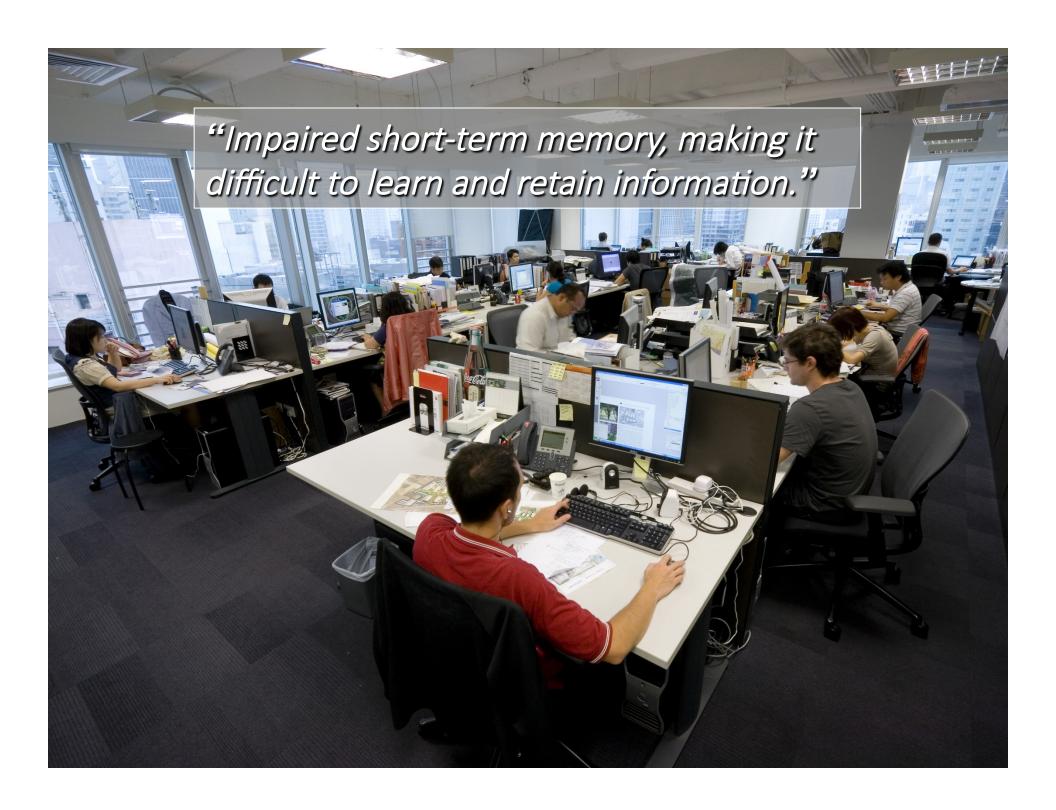
^{*} The effect is strongly associated with initial marijuana use early in adolescence.

Level of Confidence in the Evidence for Adverse Effects of Marijuana on Health and Well-Being

Effect	Overall Level of Confidence*
Addiction to marijuana and other substances	High
Abnormal brain development	Medium
Progression to use of other drugs	Medium
Schizophrenia	Medium
Depression or anxiety	Medium
Diminished lifetime achievement	High
Motor vehicle accidents	High
Symptoms of chronic bronchitis	High
Lung cancer	Low

^{*} The indicated overall level of confidence in the association between marijuana use and the listed effects represents an attempt to rank the strength of the current evidence, especially with regard to heavy or long-term use and use that starts in adolescence.

N Engl J Med 2014;370:2219-2227









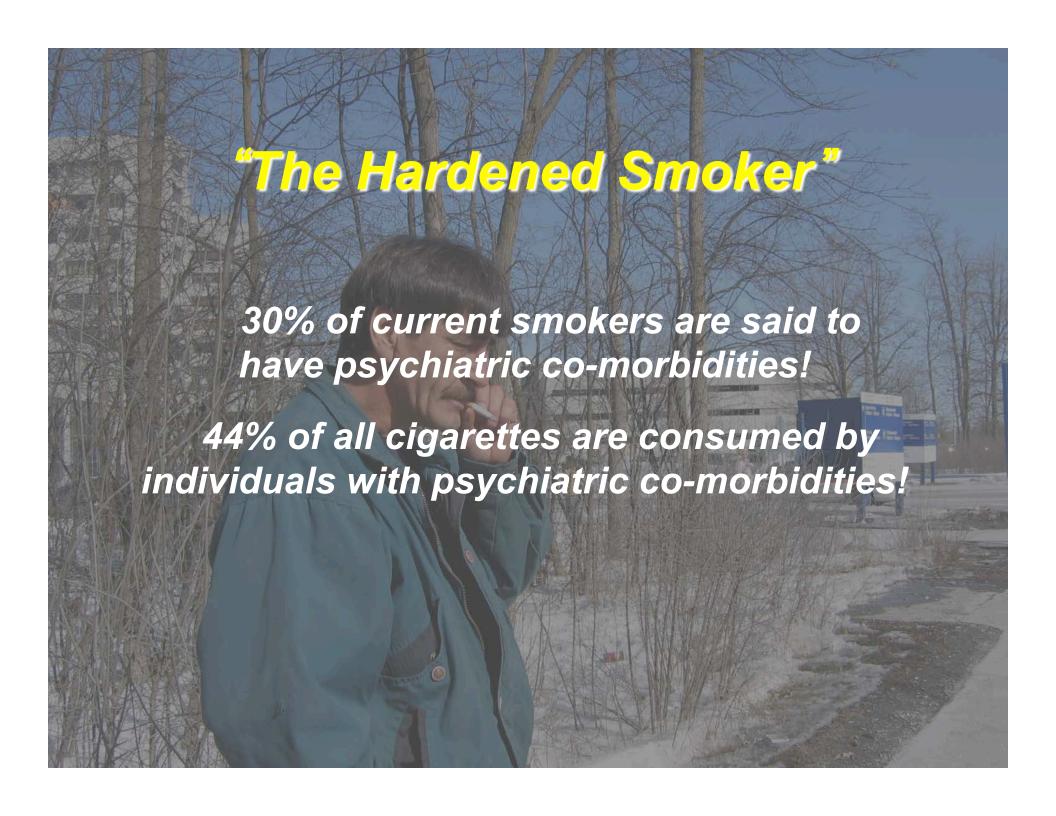
University of Ottawa Heart Institute Quit Smoking Programme

Characteristics of Marijuana Users (18% of QSP patients)

56% Male	Ave		
Grade 9-11	16%	Working	49%
Grade 12	19%	Unemployed	12%
Some post-secondary	42%	Disability	31%
No response	23%	Retired	7%











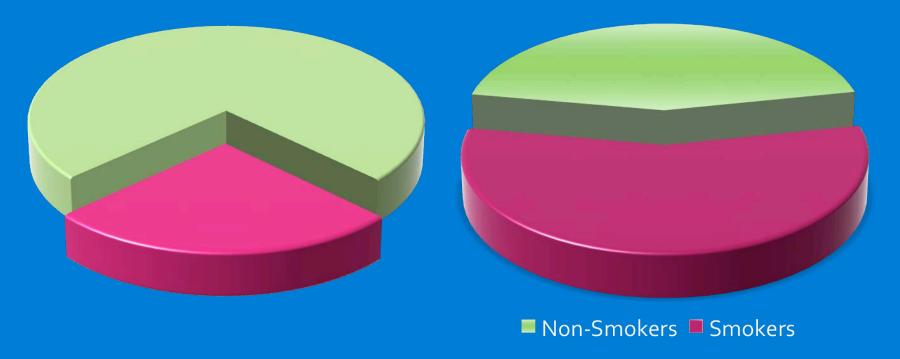
... Tobacco addiction is the major contributor to that premature mortality.

Annu Rev Public Health 2010;31:297-314

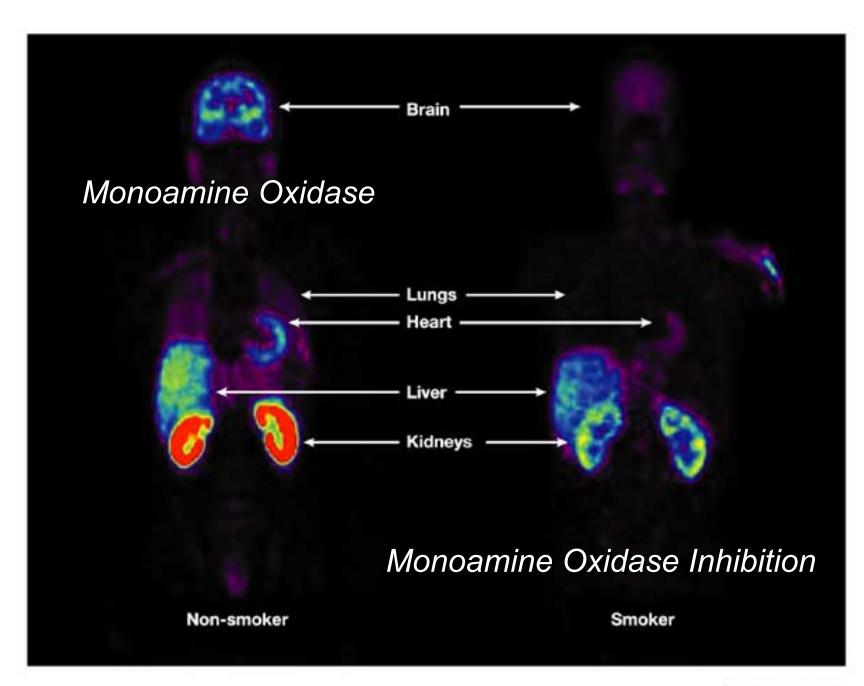
Depression and Smoking

General Population

Depressed Population



Farrell et al. Int Rev Psychiatry. 2003;15:43-49; Mackay et al. The Tobacco Atlas. 2nd ed. 2006.



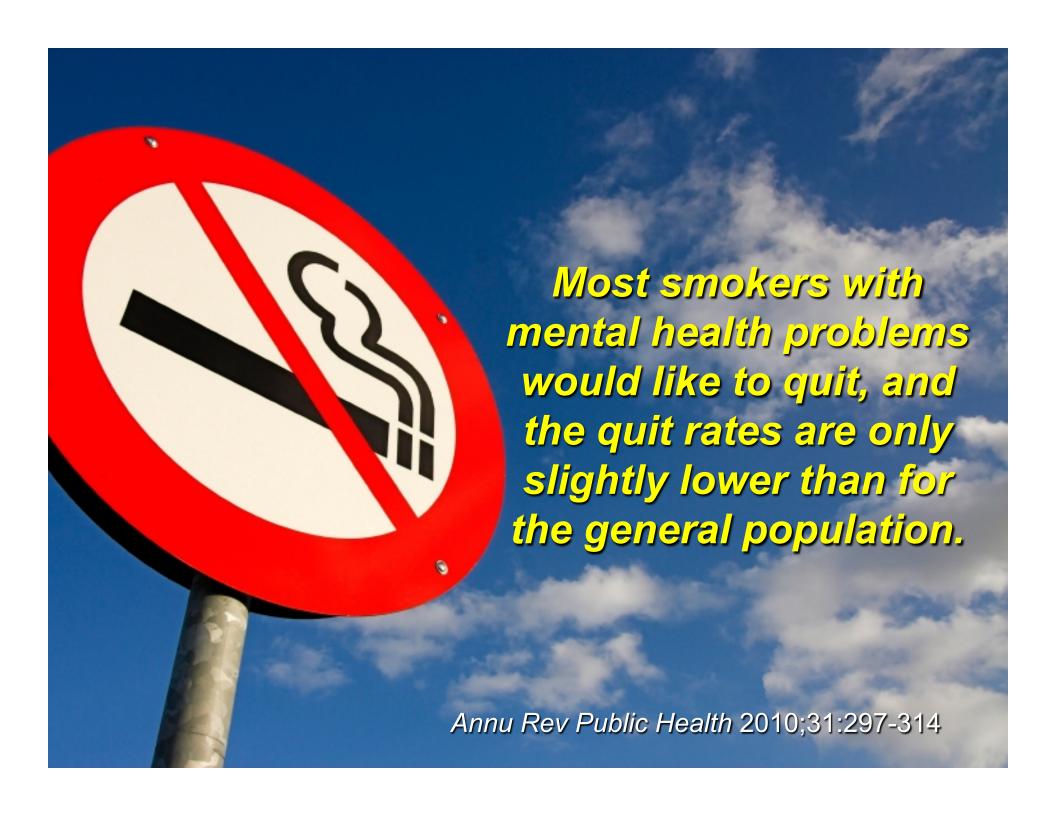
Smoking & Symptomatology



In patients with schizophrenia, smoking may be associated with improvements in specific symptoms and cognitive measures ...

Compton et al. Harv Rev Psychiatry. 2006;14(4):212-222





Smokers don't require more information...or a lecture.

They want help.



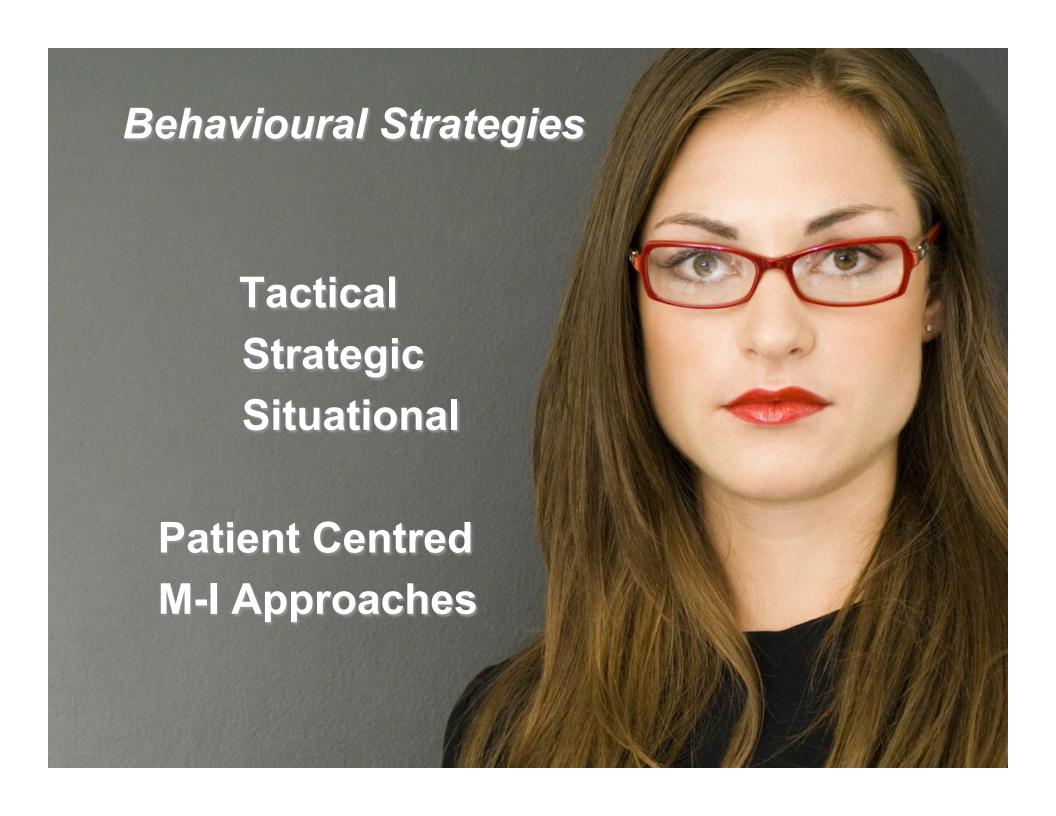
Clinician's Advice



Clear Strong Personalized

"unambiguous and non-judgmental"

Matched by an institutional commitment to "best practice"!





Caffeine Ingestion

- Caffeine metabolism altered by cessation
- Caffeine levels may rise: 2-3 x higher!
- Consider reducing caffeine intake
- Consider substituting de-caffeinated drinks
- Be aware of similarities between 'caffeinism' and withdrawal symptoms







Sometimes the doorway has to be opened wider, or held open longer...





Titrate Therapy:

Dose

Duration

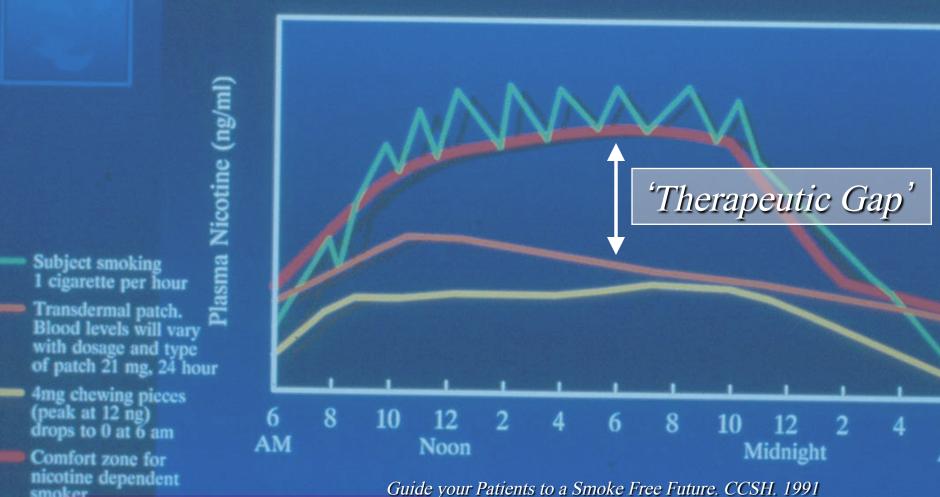
Combination





smoker

A Day in the Life of Blood Nicotine





Standard Orders



1 pack a day

21 mg + and Inhaler

2 packs a day

42 mg + and Inhaler

3 packs a day

further titration prn

In every case recognize the need for titration





"Zombie Concepts"

"The safety of nicotine-replacement therapy in cardiovascular disease patients is supported by data from randomized trials, efficacy studies, observational data and physiologic studies."

Joseph AM, Fu, Progress in Cardiovascular Diseases 2003;45:429-441



"Clinical trials of NRT in patients with underlying, stable cardiovascular disease suggest that nicotine does not increase cardiovascular risk."

Benowitz NL, Gourlay SG. J Am Coll Cardiol 1997;29:1422-31.



"High-dose nicotine treatment, even with concomitant smoking, caused no short-term adverse effects on the cardiovascular system."

Zevin S, Peyton J, Benowitz NL. Clin Pharmacol Ther 1998;64:87-95.



"The use of nicotine patches did not cause aggravation of myocardial ischemia or arrhythmia in coronary patients and therefore can be used as a method to promote smoking cessation in this high-risk group."

Tzivoni D, Keren A, Meyler et al. Cardiovasc Drugs Ther 1998;12:239-244.



"The use of NRT is not associated with any increase in the risk of myocardial infarction, stroke, or death."

N = 33,247

Hubbard R, Lewis S, et al. Tobacco Control 2005;14:416-421



"Patients with pre-existing cardiovascular disease represent one of the groups most likely to benefit from smoking cessation and our results should encourage the use of NRT in these individuals."

Hubbard R, Lewis S, et al. Tobacco Control 2005;14:416-421

UOHI Smoking Cessation Programme

Use of NRT in the Cardiac Setting

	Smoking Patients	NRT	Male NRT	Female NRT	ACS	% ACS NRT
2004- 2005	1,016 (23%)	194 <i>(19%)</i>	149 (20%)	45 (17%)	176	68 (39%)
2005-2 006	1,489	657 (44%)	477 (46%)	180 (41%)	501	318 (63%)
2006-2 007	1,065	638 (60%)	453 (60%)	185 (60%)	342 (240 (70%)





OTTAWA MODEL FOR SMOKING CESSATION MODÈLE D'OTTAWA POUR L'ABANDON DU TABAC



Smoking Cessation

"The single, most powerful, preventive intervention in clinical practice."

Woolf SH. JAMA 1999;282(24):2358-65.



3 Generations of E-Cigarettes

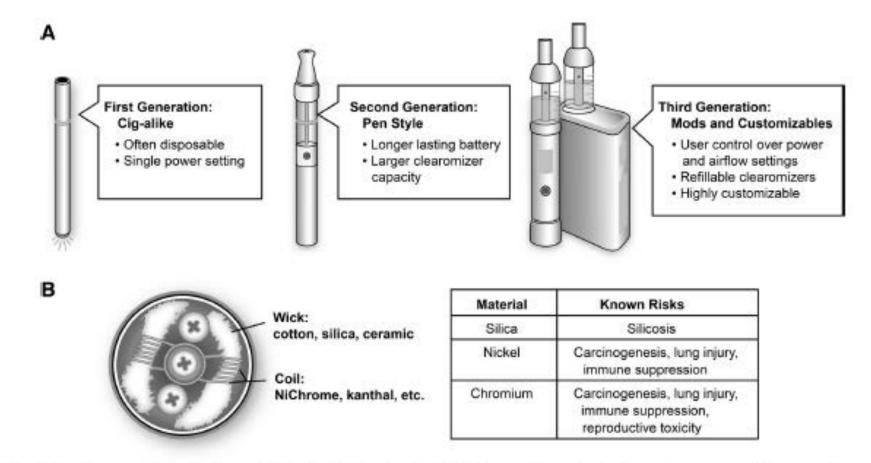
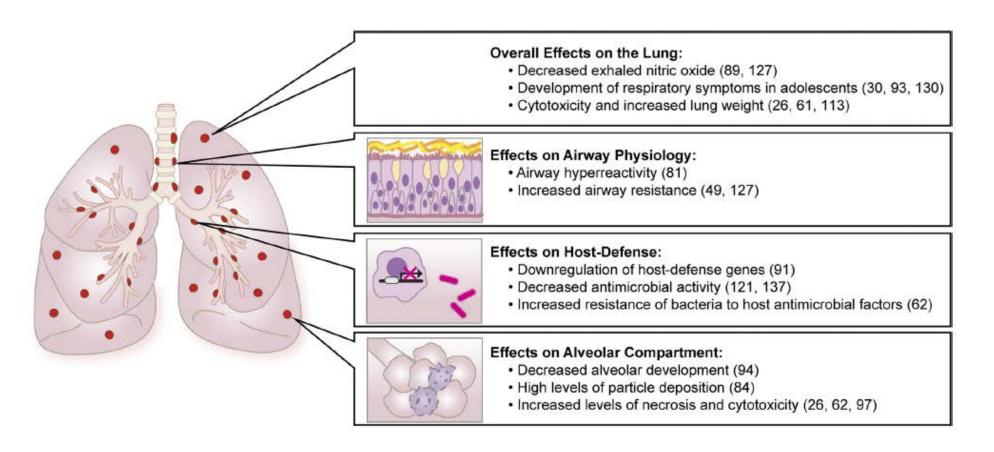
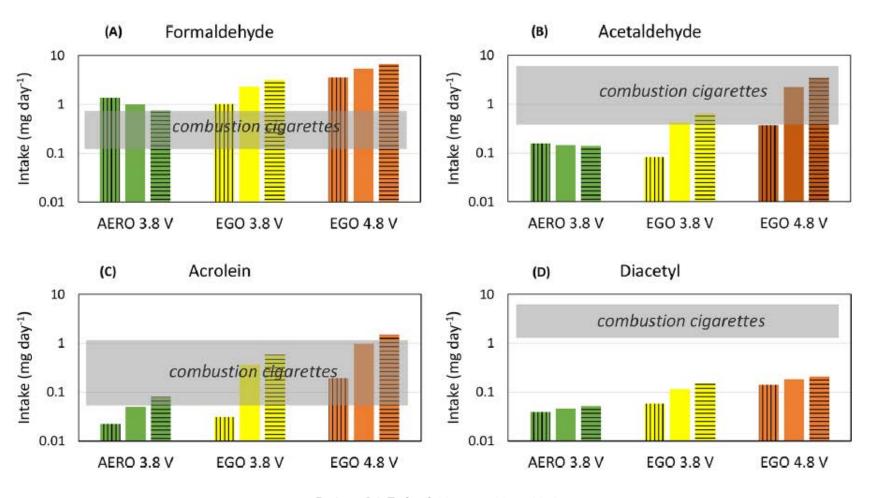


Fig. 1. A: the three generations of e-cigarettes. Beginning with the early cig-a-like devices, e-cigs introduced to the market more recently incorporate increased user control over the physics of aerosolization and e-liquid composition. B: e-cigarette atomizers contain wicking materials to transfer e-liquids from a storage tank in close proximity to a heating filament made from one of several types of metal alloys. Many of the commonly employed materials have well-described health risks.

Pulmonary Toxicity of E-Cigarettes

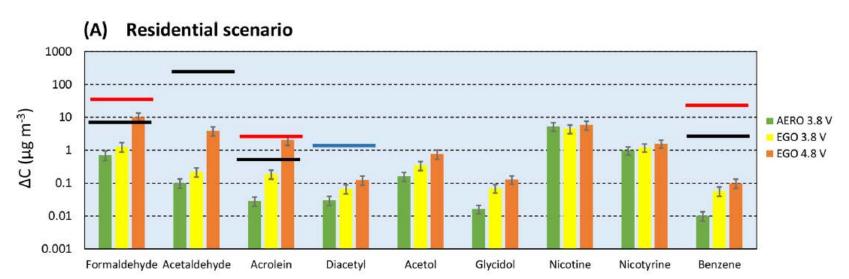


Cigarettes vs E-Devices

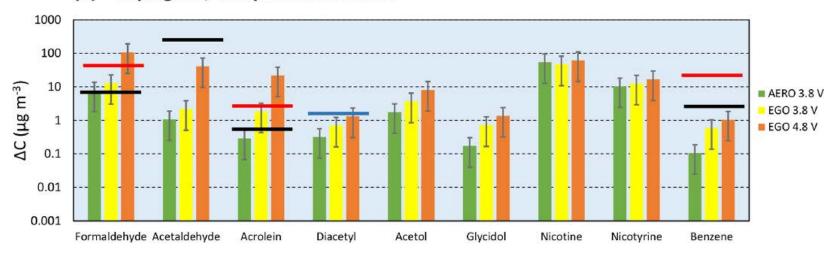


Environ. Sci. Technol. 2017, 51, 9271-9279

Change in Indoor VOC Concentrations

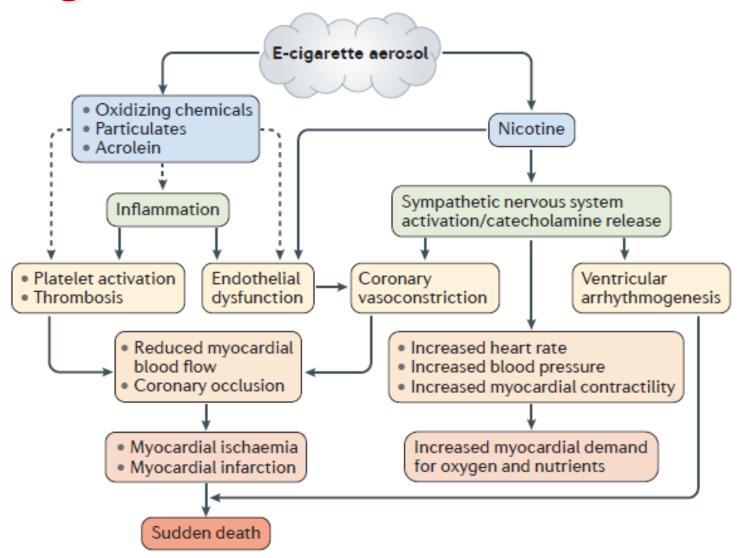


(B) Vaping bar, occupational scenario



Environ. Sci. Technol. 2017, 51, 9271-9279

E-Cigarettes & Acute Cardiac Events



Harm reduction potential – Vapour vs. Smoke Cessation of smoking? Dual-Use?
Tobacco industry – Perpetuation of smoking? Initiation of smoking? – Adolescents?





The E-cigarette.

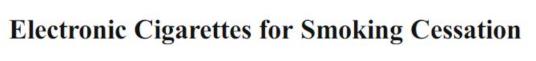
Brief report

A Descriptive Report of Electronic Cigarette Use After Participation in a Community-Based Tobacco Cessation Trial

Elana Curry BS¹, Julianna M. Nemeth PhD¹, Amy Wermert MPH¹, Sara Conroy MS², Abigail Shoben PhD³, Amy K. Ferketich PhD², Mary Ellen Wewers PhD¹

"Among adult Appalachian smokers enrolled in community-based tobacco cessation treatment, use of e-cigarettes post-treatment was associated with lower abstinence rates at 12 months."

"Post treatment e-cigarette use was asssociated with less success in achieving abstinence at 12 months, as compared to non-use."





Christopher Bullen

Evidence for their efficacy as cessation aids, based on several randomised trials of now obsolete e-cigarettes, suggests a modest effect equivalent to nicotine patch. E-cigarettes are almost certainly far less harmful than tobacco smoking, but the health effects of long-term use are as yet unknown. Dual use is common and almost as harmful as usual smoking unless it leads to quitting.

If patients who smoke are unwilling to quit or cannot succeed using evidence-based approaches, ecigarettes may be an option to be considered after discussing the limitations of current knowledge.

Curr Cardiol Rep (2014) 16:538

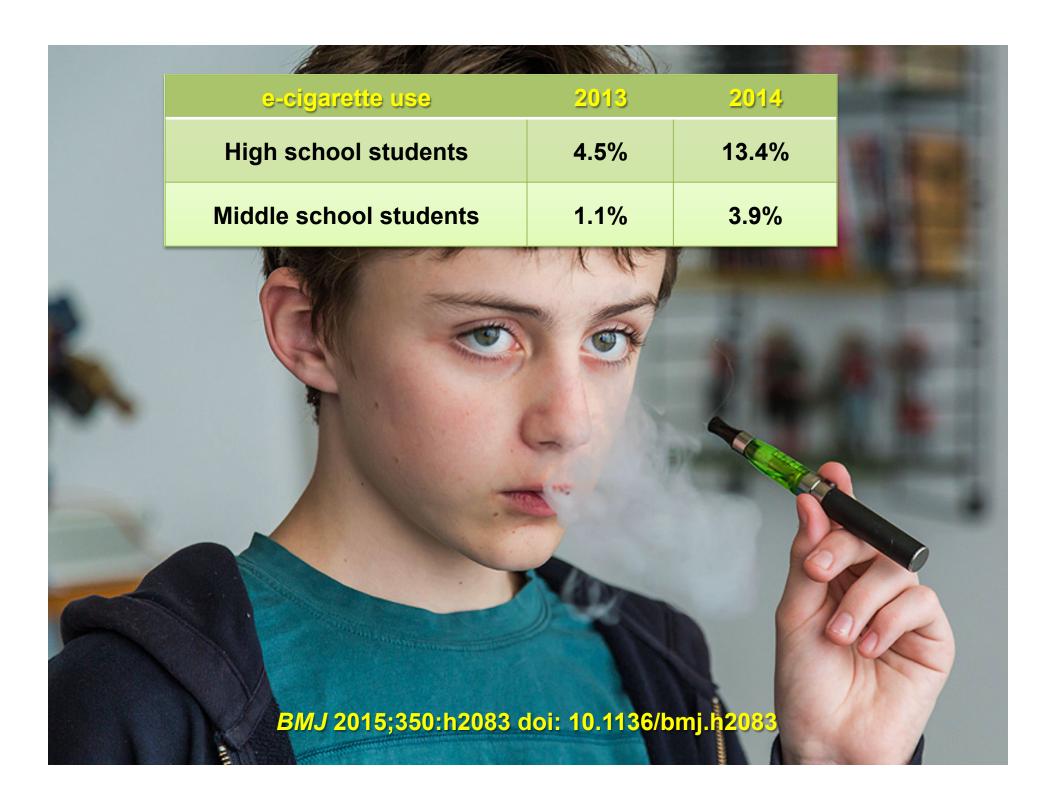


Cochrane Database of Systematic Reviews

Electronic cigarettes for smoking cessation (Review)

Citation: Hartmann-Boyce J, McRobbie H, Bullen C, Begh R, Stead LF, Hajek P. Electronic cigarettes for smoking cessation. *Cochrane Database of Systematic Reviews* 2016, Issue 9. Art. No.: CD010216. DOI: 10.1002/14651858.CD010216.pub3.

"We could not determine if EC was better than a nicotine patch in helping people stop smoking..."



E-cigarette use as a predictor of cigarette smoking: results from a 1-year follow-up of a national sample of 12th grade students

Richard Miech, Megan E Patrick, Patrick M O'Malley, Lloyd D Johnston

Results Among youth who had never smoked a cigarette by 12th grade, baseline, recent vapers were more than 4 times (relative risk (RR)=4.78) more likely to report past-year cigarette smoking at follow-up, even among youth who reported the highest possible level of perceived risk for cigarette smoking at baseline.

Conclusions These results contribute to the growing body of evidence supporting vaping as a one-way bridge to cigarette smoking among youth. Vaping as a risk factor for future smoking is a strong, scientifically-based rationale for restricting youth access to e-cigarettes.

Miech R, et al. Tob Control 2017; 0:1-6. doi:10.1136/tobaccocontrol-2016-053291

RESEARCH

Electronic cigarette use and smoking initiation among youth: a longitudinal cohort study

David Hammond PhD, Jessica L. Reid MSc, Adam G. Cole MSc, Scott T. Leatherdale PhD

Conclusion

The current study provides strong evidence that e-cigarettes are associated with initiation of cigarette smoking among youth; however, the controversy as to whether e-cigarette use "causes" cigarette-smoking initiation will undoubtedly persist.









Electronic cigarettes for smoking cessation and reduction (Review)

McRobbie H, Bullen C, Hartmann-Boyce J, Hajek P

Citation: McRobbie H, Bullen C, Hartmann-Boyce J, Hajek P. Electronic cigarettes for smoking cessation and reduction. *Cochrane Database of Systematic Reviews* 2014, Issue 12. Art. No.: CD010216. DOI: 10.1002/14651858.CD010216.pub2.

Nicotine & Tobacco Research, 2016, 1926–1936 doi:10.1093/ntr/ntw119

Review C P

OXFORD

Advance Access publication April 25, 2016

Review

Electronic Cigarettes for Smoking Cessation: A Systematic Review

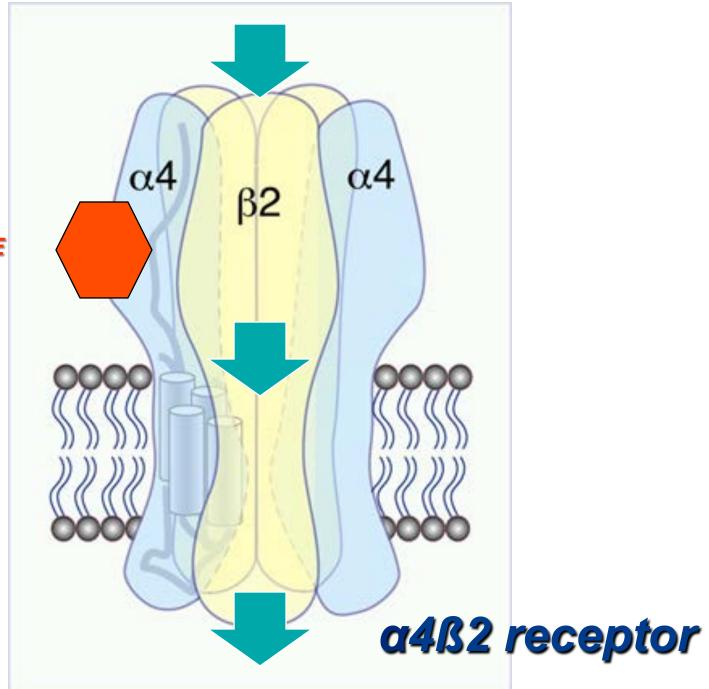
Muhannad Malas MPH¹, Jan van der Tempel MPhil², Robert Schwartz PhD³, Alexa Minichiello MScPl⁴, Clayton Lightfoot BA⁴, Aliya Noormohamed MSPH⁵, Jaklyn Andrews MA⁴, Laurie Zawertailo PhD⁵, Roberta Ferrence PhD⁶

In accordance with the GRADE

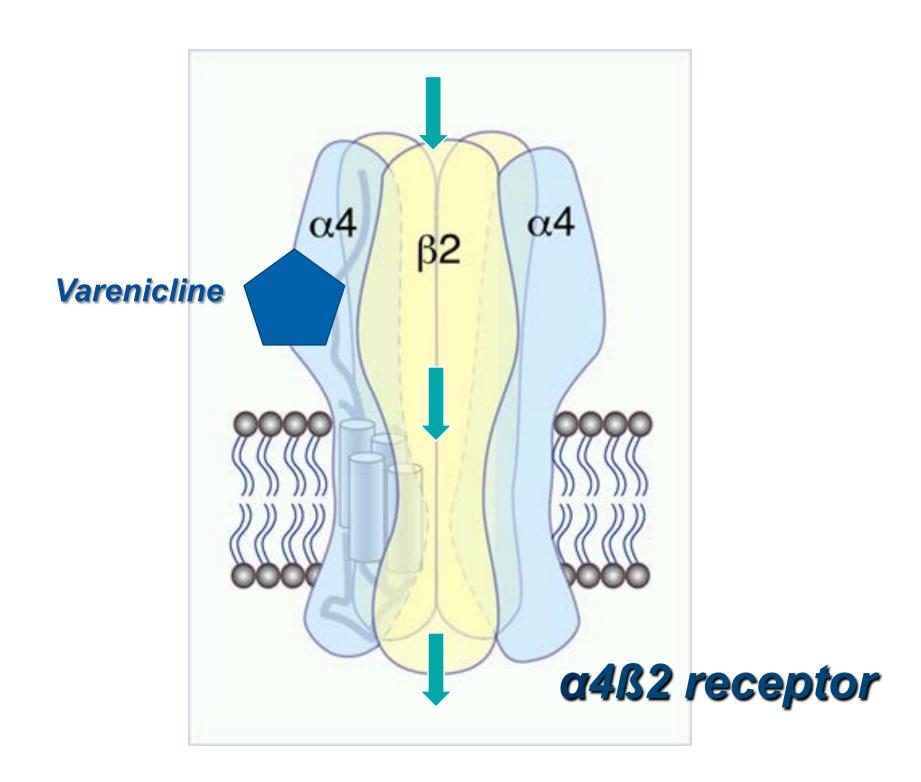
system, the quality of the evidence in support of e-cigarettes' effectiveness in helping smokers quit was assessed as very low to low, and the evidence on smoking reduction was assessed as very low to moderate.

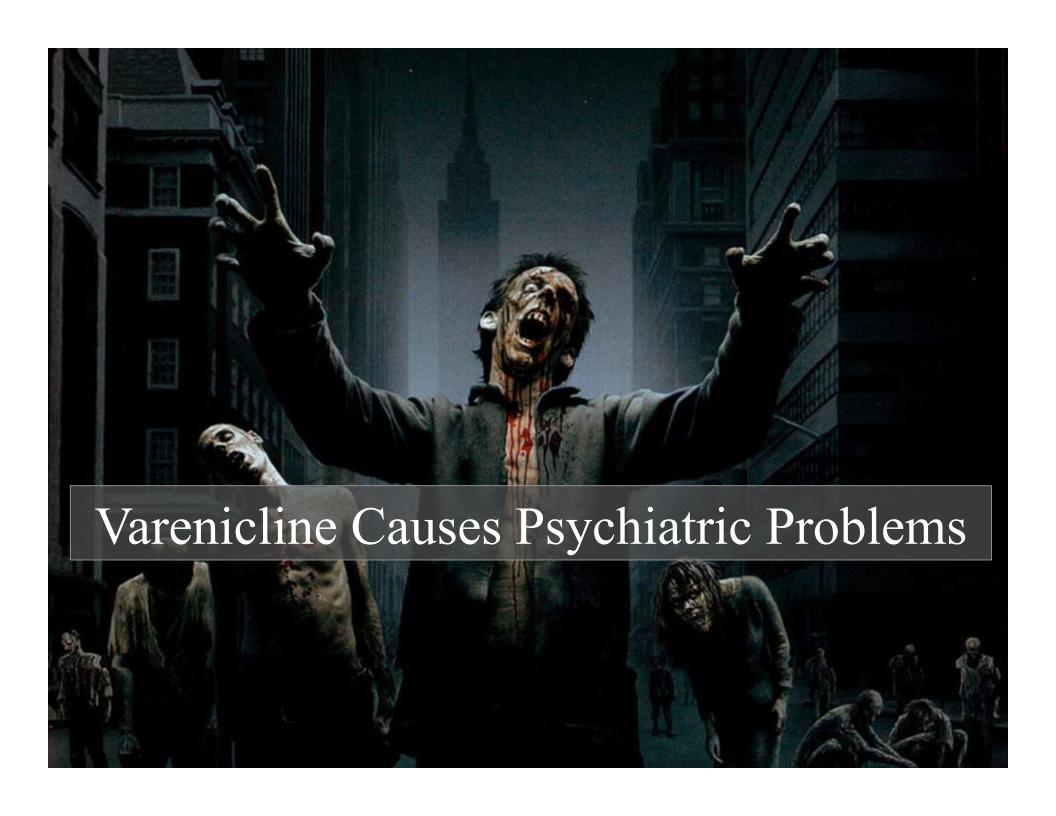
While inconclusive due to low quality, overall the existing literature suggests e-cigarettes may be helpful for some smokers for quitting or reducing smoking.

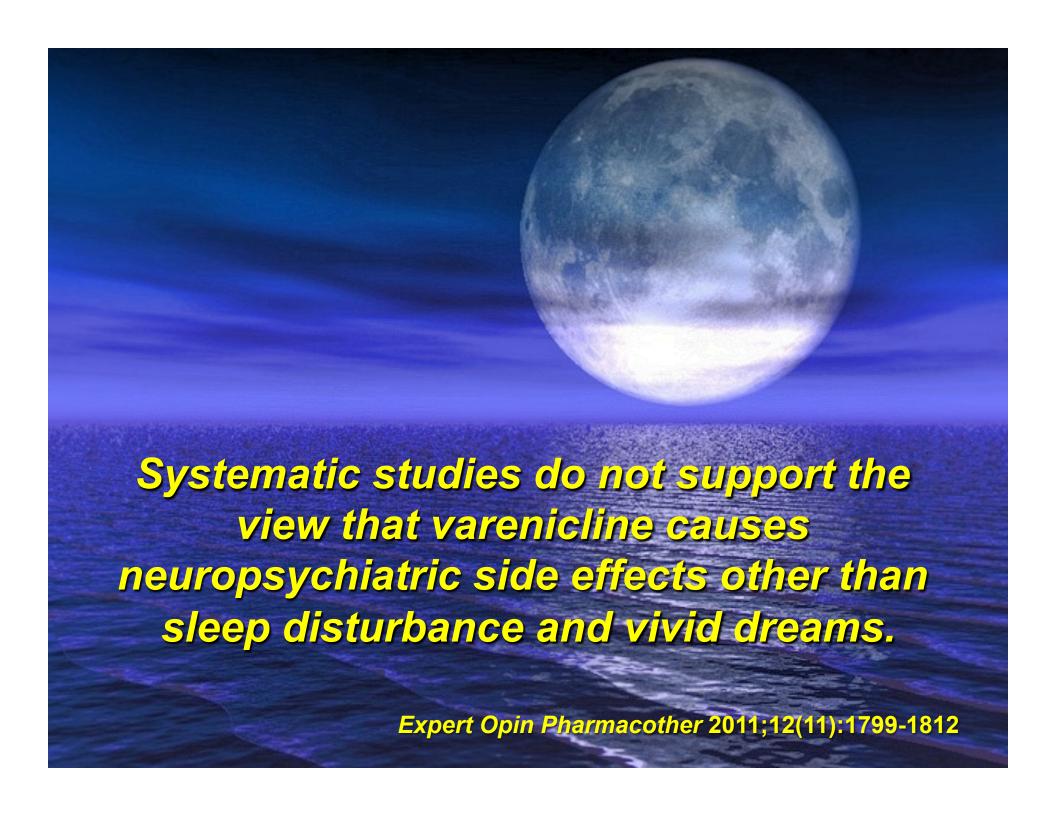




NICOTINE





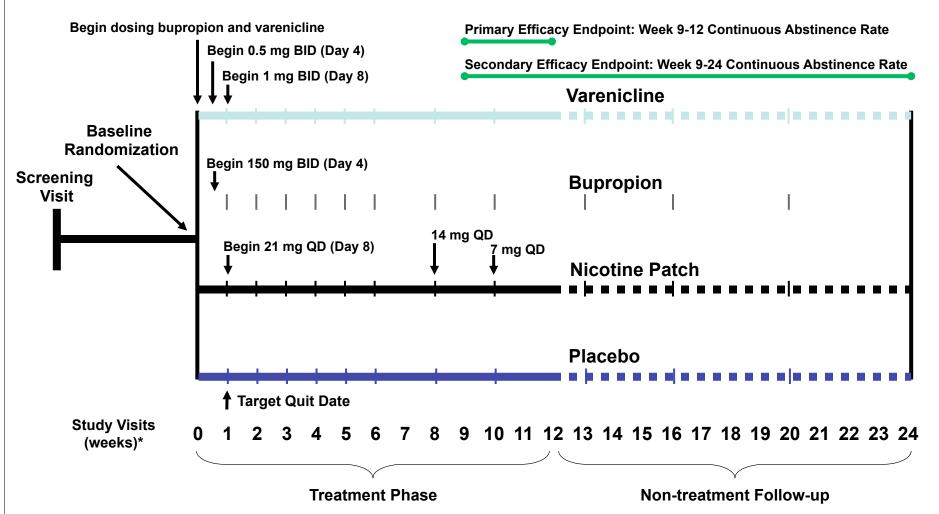


"EAGLES"



'EAGLES' - Study Design

8000 subjects: 4000 Psychiatric. 4000 Non-Psychiatric.



^{*} Up to 15 face-to-face visits and 11 telephone visits

Anthenelli RM, Benowitz NL, West R, et al. Neuropsychiatric safety and efficacy of varenicline, bupropion, and nicotine patch in smokers with and without psychiatric disorders (EAGLES): a double-blind, randomised, placebo-controlled clinical trial. *Lancet* 2016 Apr 22. [Epub ahead of print]

'EAGLES': Severe-Only NPS AEs

		Varenicline	Bupropion	NRT	Placebo
Non-Psychiatric	Cohort, N	990	989	1006	999
NPS AE Endpoint, total, n (%)		13 (1.3%)	22 (2.2%)	25 (2.5%)	24 (2.4%)
Severe-only, n (%)		1 (0.1%)	4 (0.4%)	3 (0.3%)	5 (0.5%)
Psychiatric	Cohort, N	1026	1017	1016	1015
NPS AE Endpoint, total, n (%)		67 (6.5%)	68 (6.7%)	53 (5.2%)	50 (4.9%)
Severe-only, n (%)		14 (1.4%)	14 (1.4%)	14 (1.4%)	13 (1.3%)

Anthenelli RM, Benowitz NL, West R, et al. Neuropsychiatric safety and efficacy of varenicline, bupropion, and nicotine patch in smokers with and without psychiatric disorders (EAGLES): a double-blind, randomised, placebo-controlled clinical trial. *Lancet* 2016 Apr 22. [Epub ahead of print]

THE LANCET

www.thelancet.com Published online April 22, 2016 http://dx.doi.org/10.1016/S0140-6736(16)30272-0

Neuropsychiatric safety and efficacy of varenicline, bupropion, and nicotine patch in smokers with and without psychiatric disorders (EAGLES): a double-blind, randomised, placebo-controlled clinical trial

Robert M Anthenelli, Neal L Benowitz, Robert West, Lisa St Aubin, Thomas McRae, David Lawrence, John Ascher, Cristina Russ, Alok Krishen, A Eden Evins

"The study did not show a significant increase in neuropsychiatric adverse events attributable to varenicline or placebo relative to nicotine patch or placebo. Varenicline was more effective than placebo, nicotine patch, and bupropion in helping smokers achieve abstinence, whereas bupropion and nicotine patch were more effective than placebo."



CMAJ

RESEARCH

Risk of serious adverse cardiovascular events associated with varenicline: a systematic review and meta-analysis

Sonal Singh MD MPH, Yoon K. Loke MBBS MD, John G. Spangler MD MPH, Curt D. Furberg MD PhD

Placebo

Varenicline

Risk of CV Events:

0.82%

1.06%

The use of varenicline among tobacco users was associated with a 72% increased risk of serious adverse cardiovascular events.

Efficacy and Safety of Varenicline for Smoking Cessation in Patients with Cardiovascular Disease:

A Randomized Controlled Trial



Rigotti NA, Pipe AL, Benowitz NL, Arteaga C, Garza D, Tonstad S.

Circulation 2010;121(2):221-9



BMJ 2012;344:e2856 doi: 10.1136/bmj.e2856 (Published 4 May 2012)

RESEARCH

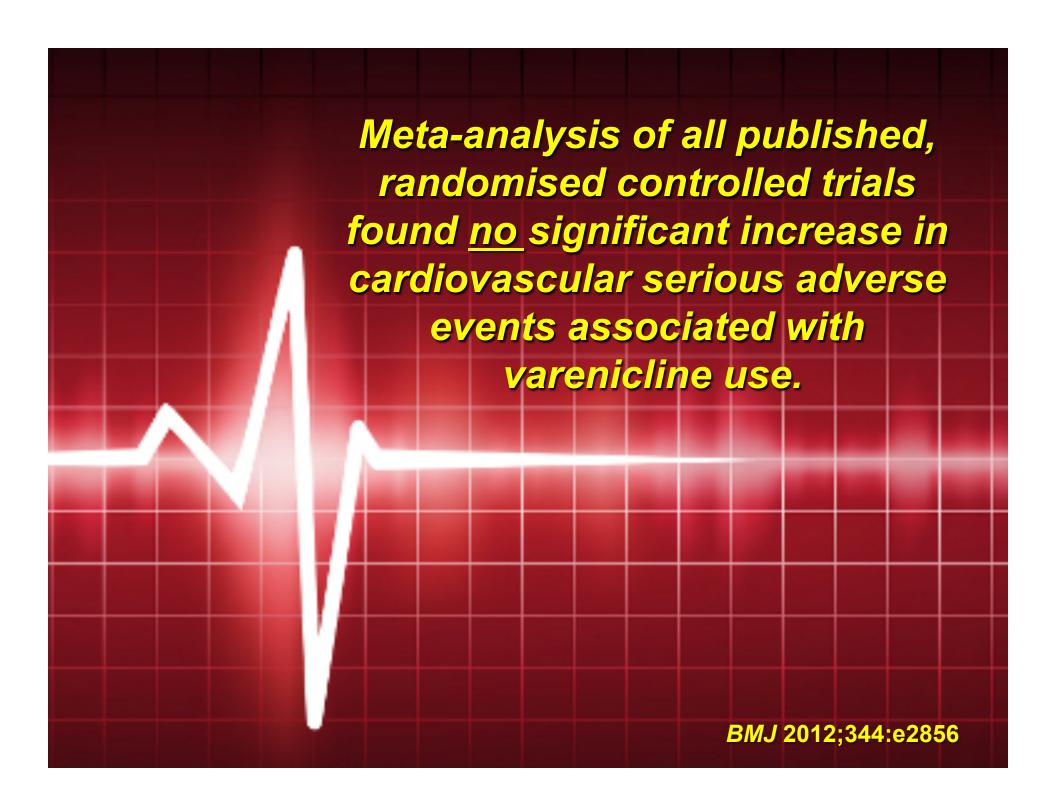
Risk of cardiovascular serious adverse events associated with varenicline use for tobacco cessation: systematic review and meta-analysis

@ 08 OPEN ACCESS

Judith J Prochaska associate professor¹, Joan F Hilton professor²

¹Department of Psychiatry and Center for Tobacco Control Research and Education, University of California, San Francisco, CA 94143-0984;

²Department of Epidemiology and Biostatistics, University of California







Cardiovascular Events Associated With Smoking Cessation Pharmacotherapies: A Network Meta-Analysis

Mills EJ et al. *Circulation* 2014;129:28-41

"Smoking cessation therapies do not appear to raise the risk of serious cardiovascular disease events."



Medication Effectiveness ...

Medication	Number of arms	Estimated odds ratio	% Estimated abstinence rate
Placebo	80	1.0	13.8
Varenicline (2 mg/d)	5	3.1 (2.5-3.8)	33.2 (28.9-37.8)
Nicotine patch	32	1.9 (1.7-2.3)	23.4 (21.3-25.8)
Nicotine gum	15	1.5 (1.2-1.7)	19.0 (16.5-21.9)
Bupropion SR	26	2.0 (1.8-2.2)	24.2 (22.2-26.4)
Patch + Gum (ad lib)	3	3.6 (2.5-5.2)	36.5 (28.6-45.3)
Patch + Bupropion	3	2.5 (1.9-3.4)	28.9 (23.5-35.1)

Treating Tobacco Use and Dependence. Clinical Practice Guideline. US DHHS. 2008.



RESEARCH ARTICLE

Open Access

CrossMark

Combination therapy of varenicline with nicotine replacement therapy is better than varenicline alone: a systematic review and meta-analysis of randomized controlled trials

Ping-Hsun Chang^{1,4†}, Chien-Hsieh Chiang^{1,2,3†}, Wei-Che Ho¹, Pei-Zu Wu¹, Jaw-Shiun Tsai^{1,2*} and Fei-Ran Guo^{1,2*}

Conclusions

The combination therapy of varenicline with NRT is more effective than varenicline alone in smoking cessation. This effect is more evident if pre-cessation treatment of nicotine patch is administrated. The adverse events of combination therapy are comparable to varenicline mono-therapy with the exception of skin reactions. Larger RCTs are needed to make more robust conclusions.

Smoking is a leading cause of hospitalization and RE-HOSPITALIZATION

Public Health Agency of Canada. 2009.

Canadian Institute for Health Information, Health Indicators 2009

Cessation & The Hospital

Large numbers of smokers Relevance of smoking to admission Increased motivation to quit Availability of staff Opportunity for systematic approach Availability of Pharmacotherapy Treatment of withdrawal Can arrange follow-up Influence community practice

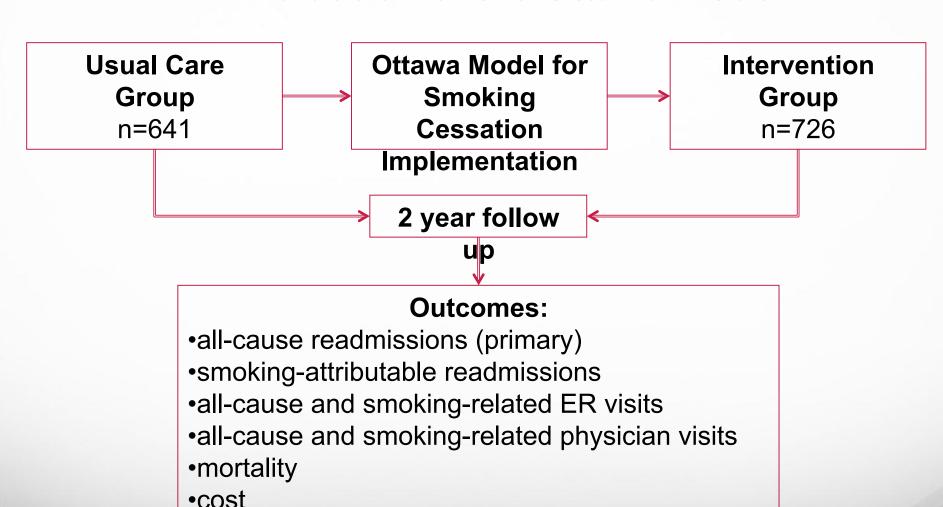
"The Ottawa Model"

Identification
Documentation
Counseling
Pharmacotherapy
Long-term follow-up

Reid RD, Pipe AL, Quinlan B. Can J Cardiol 2006;22:775-780

OTTAWA MODEL FORSMOKING CESSATION

An Evaluation of the Ottawa Model





n= 14 hospitals K-A Mullen PhD, Unpublished Data. 2015



The Ottawa Model results in significant reductions in 30-day healthcare utilization



All-cause readmissions (p=.0007)

NNT: 16



Smoking-related readmissions (p=.0002)

NNT: 38

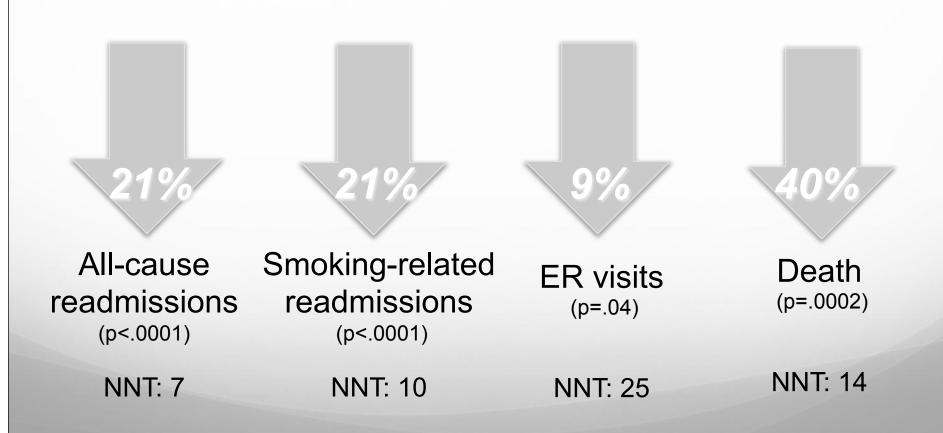


ER visits (p=.001)

NNT: 23



The Ottawa Model results in significant reductions in 2-year healthcare utilization and risk of death



OTTAWA MODEL FORSMOKING CESSATION

Primary Care

OTTAWA MODEL FOR SMOKING CESSATION IN PRIMARY CARE

MODÈLE D'OTTAWA POUR L'ABANDON DU TABAC EN SOINS PRIMAIRES

THE 3As: ASK, ADVISE, ACT

30 SECONDS

Reception/Triage Nurse

ASK AND DOCUMENT

Include tobacco use question as one of the patient's vital signs

Have you used any form of tobacco in the last 7 days?

Z MINUTES

Physician/Nurse Practitioner

ADVISE AND REFER

Provide strong, personalized, non-judgmental advice to quit with offer of support 10-20

MINUTES

Smoking Cessation Counsellor (Nurse, NP, Pharmacist, RRT)

ACT

For Patient who is READY TO QUIT: QUIT PLAN VISIT

- Strategic counselling
- Pharmacotherapy
- Follow-up/OMSC Smoker's Follow-up Program

For Patient who is NOT READY TO QUIT:

- Follow-up/OMSC Smoker's
- Follow-up Program



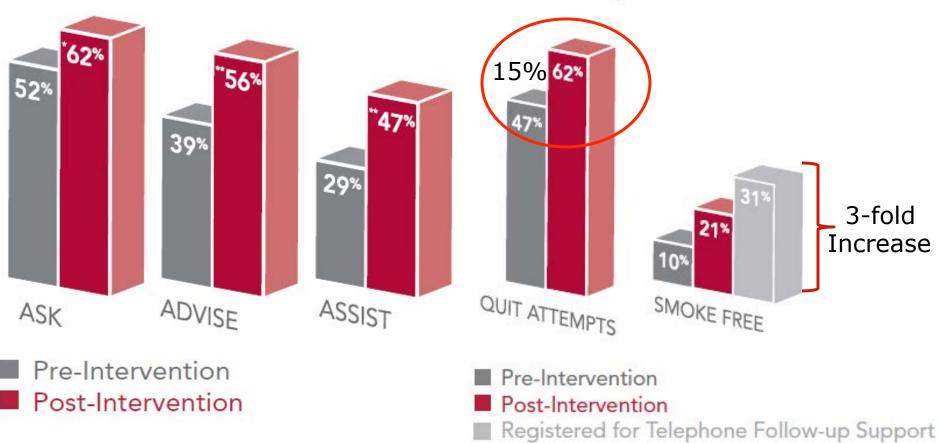


Delivering evidence-based smoking cessation treatment in primary care practice

Experience of Ontario family health teams

Sophia Papadakis MHA PhD Marie Gharib Josh Hambleton MHA Robert D. Reid PhD MBA Roxane Assi Andrew L. Pipe CMMD

Canadian Family Physician • Le Médecin de famille canadien | VOL 60: JULY • JUILLET 2014



The OMSC Primary Care Network has reached over 128,000 tobacco users in Ontario!

Thunder Bay

106 Partner FHTs, FHNs, CHCs, NPLCs

200 Clinics in 13 LHINS

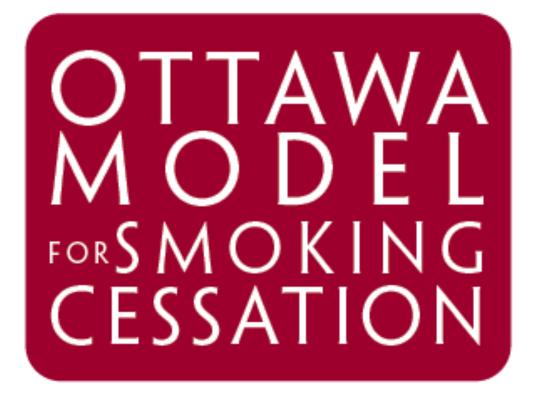
~ 840 MDs ~ 384 RNs

~ 222 NPs ~ 40 Pharmacists

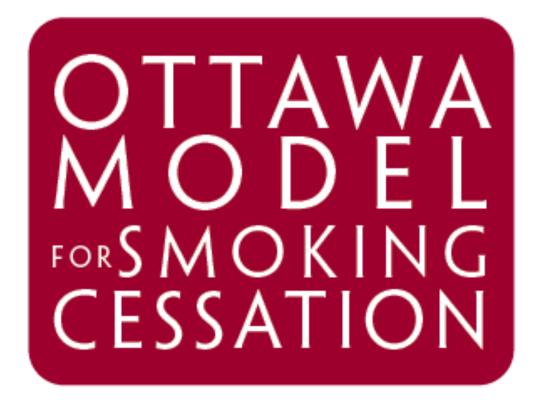
Potential Reach:

- ~ 1.15 million rostered patients
- ~ 195,000 tobacco users
- ~ 2.2 million visits/year





"REDUCE TO QUIT"



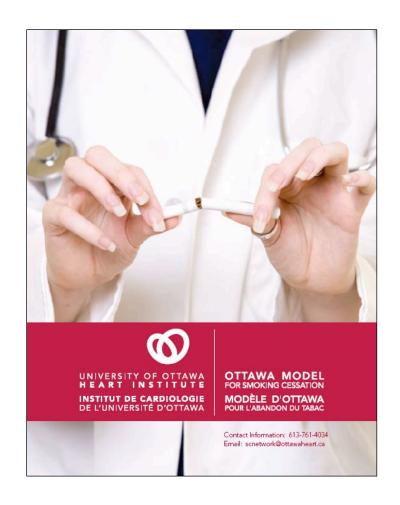
COMBINATION THERAPY



KEEP CALM **AND** BE SYSTEMATIC



Systematic Approaches to Smoking Cessation in EVERY Clinical Setting











Transforming ...





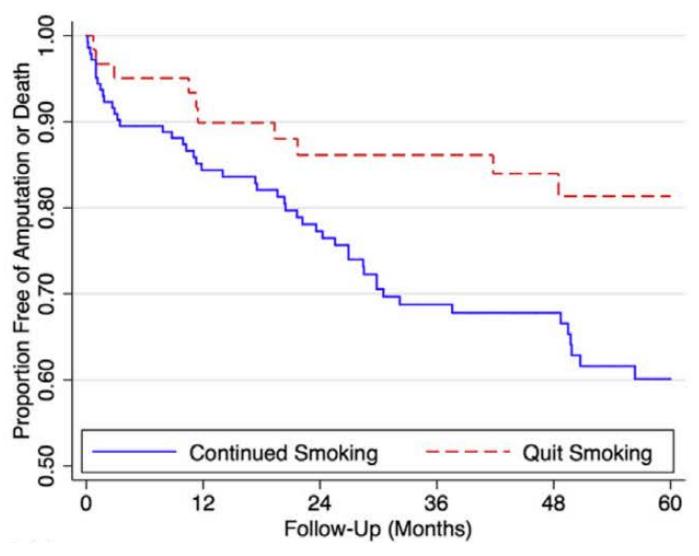


Patient Care

Professional Behaviours

Institutional Practices

Amputation-free survival among patients who continued vs quit smoking



Armstrong EJ et al. J Vasc Surg 2014;60:1565-71