Why Cessation is a Vital Part of Tobacco Control Policy





Speakers



Linda Bailey, JD, MHS
President & CEO, North
American Quitline Consortium
(NAQC)



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Technical Officer, NCDs and
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Health, @WHO



Martin Raw, PhD
Director of the ICTC and
Visiting Professor @NYU
School of Global Public Health

Moderator



Laurent Huber
ASH Executive Director



Impact of the COVID-19 Pandemic on Tobacco Cessation

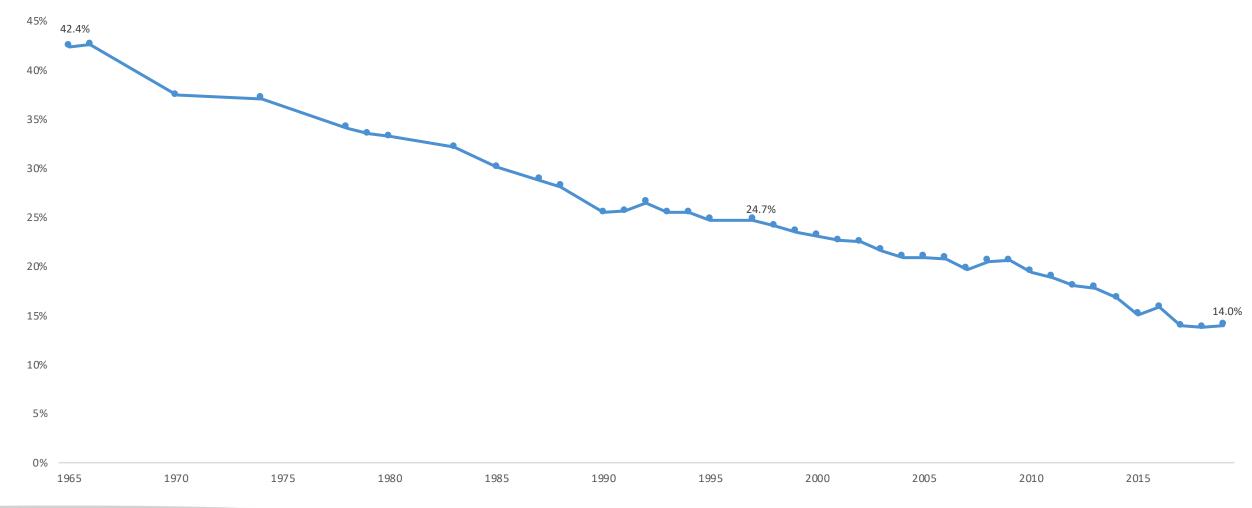
Linda Bailey, JD, MHS

President and CEO

ASH Webinar April 22, 2021

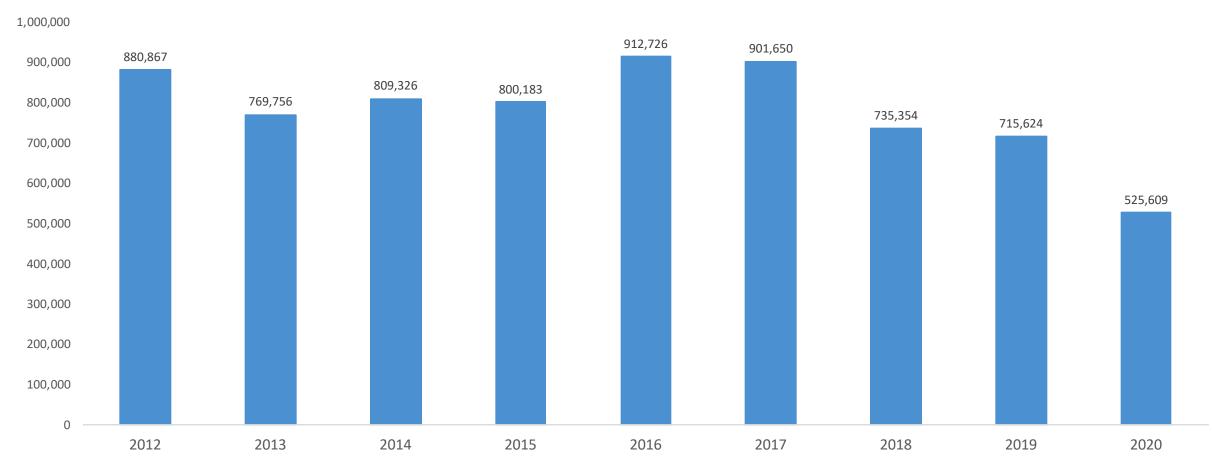


Smoking Prevalence of US Adults, 1965-2019





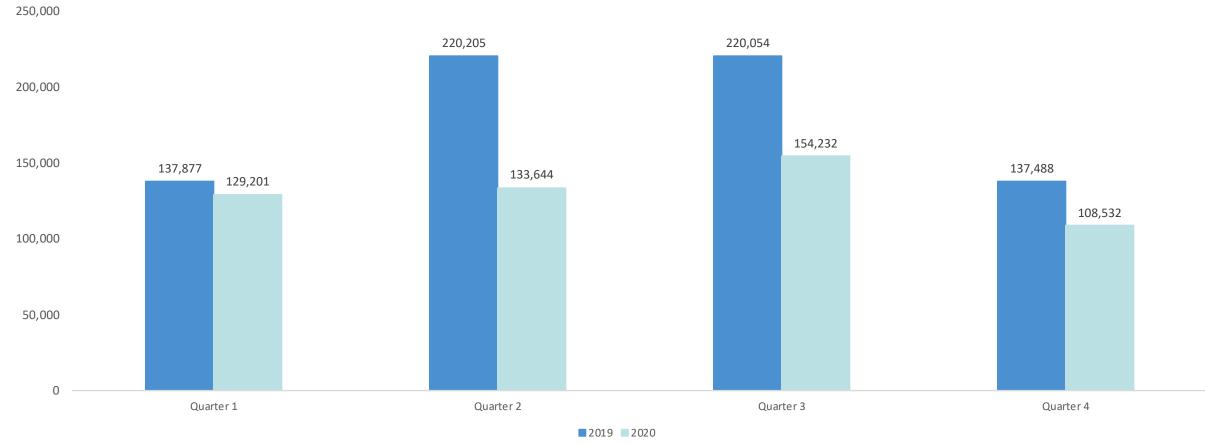
Calls to State Quitlines Through 1-800-QUIT-NOW, 2012-2020





Source: National Cancer Institute, National Institutes of Health. 1-800-QUIT-NOW monthly report on call attempts. 1-800-QUIT-NOW Stats - North American Quitline Consortium (naguitline.org)

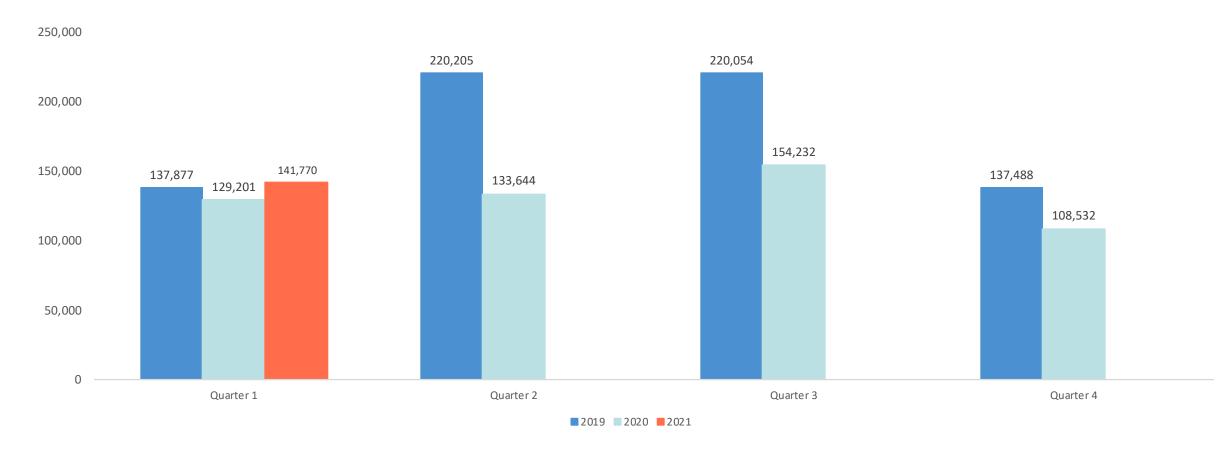
Calls to State Quitlines Through 1-800-QUIT-NOW by Quarter, 2019 Compared to 2020





Source: National Cancer Institute, National Institutes of Health. 1-800-QUIT-NOW monthly report on call attempts. 1-800-QUIT-NOW Stats - North American Quitline Consortium (naguitline.org)

Calls to State Quitlines Through 1-800-QUIT-NOW by Quarter, January 2019 – March 2021





Source: National Cancer Institute, National Institutes of Health. 1-800-QUIT-NOW monthly report on call attempts. 1-800-QUIT-NOW Stats - North American Quitline Consortium (naquitline.org)

Other Resources

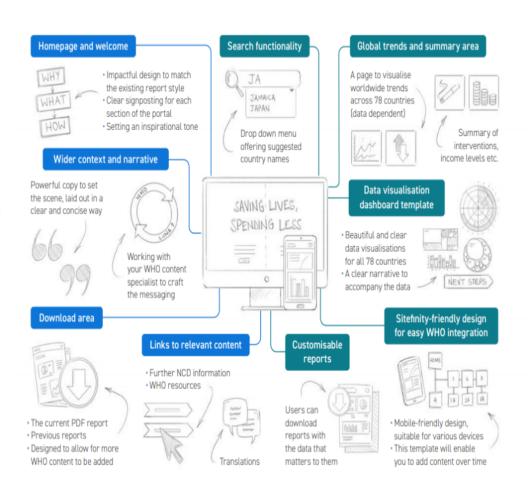
- NAQC <u>report</u> on the impact of the pandemic on tobacco cessation
- <u>I COVID QUIT</u> campaign materials that encourage smokers to quit during the pandemic

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The Global NCD Business Plan and Investment Case for Tobacco Cessation

Dr. Robert Totanes
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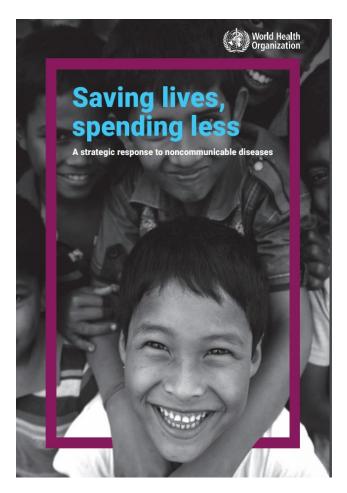


The NCD Burden and the Need for Investment

- NCDs cause 41 million deaths annually, accounting for 74% of all deaths
- Of the 15.7 million who die prematurely from NCDs, 85% are from lowand middle-income countries
- Despite the staggering burden, NCD programmes and interventions are drastically underfunded – accounts for a disproportionately small share of official development assistance (ODA) funds and overall public health financing
- Both investment and implementation needs to scale up dramatically in order to meet SDGs and other goals by 2030



Saving Lives, Spending Less



- Original report launched in 2018 containing Return on Investment (ROI) and other figures for the 16 NCD Best Buys
- Interventions in the area of tobacco, alcohol, healthy diets, physical activity, cancer, & diabetes/hypertension management
- Key results:
 - \$7 return for every \$1 invested
 - Potential to save 8.2 million lives and reduce premature mortality by 15%
 - Gain USD 350 billion in economic benefits



Spotlight on Tobacco Cessation

'Best buys' and other recommended interventions

'Best buys': effective interventions with cost effectiveness analysis (CEA) ≤ I\$100 per DALY averted in LMICs,



Increase excise taxes and prices on tobacco products

Implement plain/standardized packaging and/or large graphic health warnings on all tobacco packages⁵

Enact and enforce comprehensive bans on tobacco advertising, promotion and sponsorship⁵

Eliminate exposure to second-hand tobacco smoke in all indoor workplaces, public places, public transport⁵

Implement effective mass media campaigns that educate the public about the harms of smoking/tobacco use and second hand smoke⁵

CEA >I\$100 per DALY averted in LMICs,

Effective interventions with Provide cost-covered, effective and population-wide support (including brief advice, national toll-free guit line services) for tobacco cessation to all those who want to quit6



Other recommended interventions from WHO guidance (CEA not available)

Implement measures to minimize illicit trade in tobacco

Ban cross-border advertising, including using modern means of communication

Provide mobile phone based tobacco cessation services for all those who want to quit.

An up-to-date list of WHO tools and resources for each objective can be found at http://www.who.int/nmh/ncd-tools/en

- The "orphan" area in tobacco control → it's still a cost-effective intervention!
- Political economy: possibly less resistance to implement
- Scaling up cessation is critical to meet SDGs and other targets
- WHO's Commit to Quit campaign for **WNTD 2021**



GLOBAL INVESTMENT CASE FOR TOBACCO CESSATION

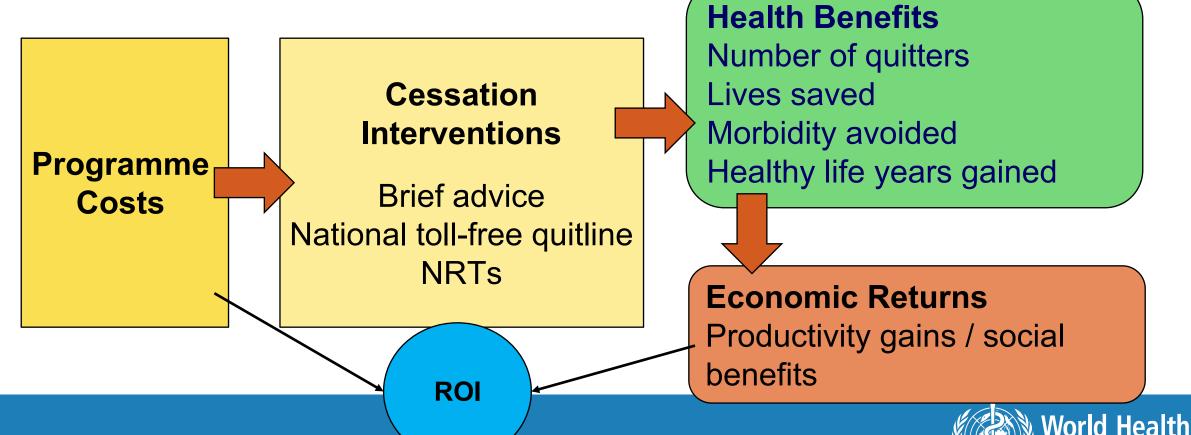
- Sets out to demonstrate the economic case and return on investment for implementing tobacco cessation interventions in LMICs
- Updated costs/price data, effect sizes, scale-up patterns
- Due to substantial demand for analysis of interventions that did not previously meet the Best Buy threshold, including tobacco cessation
- Planned for release as a separate product by World No Tobacco Day in May 2021, data/results to be added to the web portal



GLOBAL INVESTMENT CASE FOR TOBACCO CESSATION

- Shows the costs and benefits from implementing tobacco cessation

interventions at the highest level:

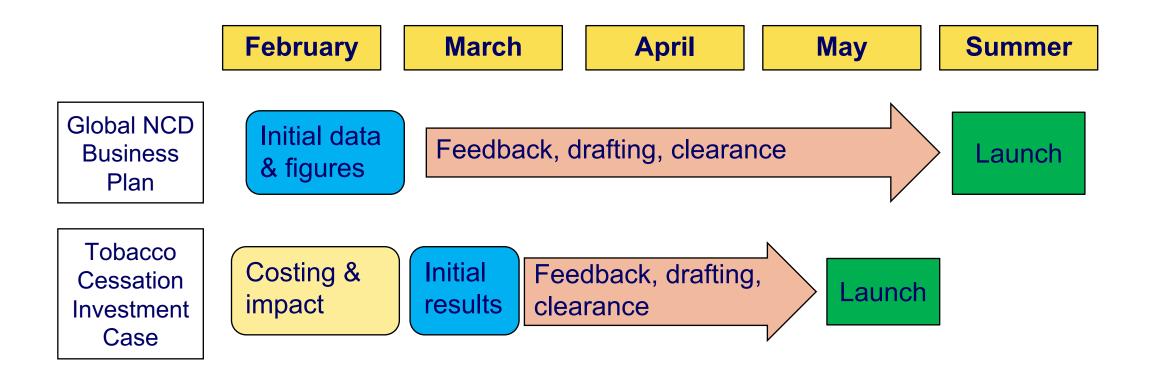


OTHER ELEMENTS

- Variations on cost estimates based on targets and the level of costcoverage for specific interventions
- Other potential cost-effective cessation interventions (mCessation / Chatbots, health technologies / apps, drugs available in different markets)
- Possible access to country-specific figures ROI, cost estimates, impact
- Categories of financing options / models (TBD)
- Comprehensive methodology document on how to generate national / country-specific investment case (UN Interagency Task Force on NCDs)



PROJECT TIMELINES





THANK YOU!

Dr. Robert Totanes totanesr@who.int



Cessation – a vital part of tobacco control policy

Martin Raw PhD

Director, International Centre for Tobacco Cessation (ICTC)

Visiting Professor New York University School of Global Public Health

Why cessation?

- Cessation support is needed by the many tobacco users that are addicted
- Only cessation offers health gains in the short to medium term
- Cessation support is effective and cost effective
- Low cost measures exist that countries could implement NOW

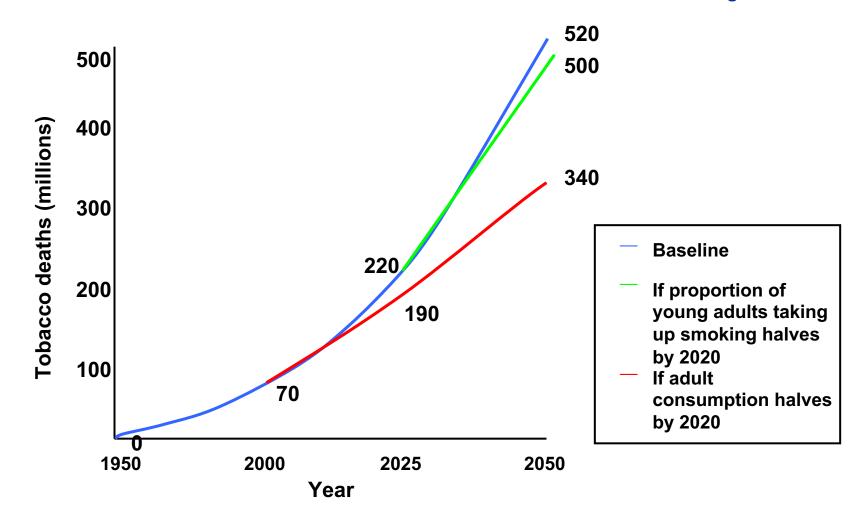
Nicotine is addictive

- Most tobacco users are addicted when young
- In 'mature' markets like USA, Europe, 60% to 70% want to stop
- In these countries the population cessation rate at one year is only about 5%
- Many never succeed and die prematurely as a result

For sources see ASH paper "World No Tobacco Day 2021 and the right to health"

Unless current smokers quit, deaths will rise dramatically in the next 50 years

Estimated cumulative tobacco deaths 1950-2050 with different intervention strategies



Cessation is effective and cost effective

- Support can increase cessation rates to 20%
- Even low cessation rates can achieve huge population health gain
- For example, brief advice given throughout the healthcare system
- Cessation is one of the most cost effective of all healthcare interventions

For sources see ASH paper "World No Tobacco Day 2021 and the right to health"

Cessation is being neglected

WHO MPOWER Report 2019:

"Global targets for reducing tobacco use will not be reached unless current tobacco users quit"

"Tobacco cessation support worldwide remains low"

"Many countries still have no national cessation strategy"

Survey of tobacco dependence treatment in 142 countries

(n = 172, 142 responses = 83% response rate; published in *Addiction* 2017)

Does your country	% Yes
Have an official national treatment strategy?	32
Have a budget for treatment?	25
Offer to help healthcare workers to stop using tobacco?	44
Mandatory recording of tobacco use in medical notes	30

Tobacco use in healthcare workers

Reducing tobacco use in health professionals

Table 3.1: Selected studies of GP smoking prevalence					
Country	Method and sample details	Published	% who smoke		
Bulgaria ³	National survey (n=1194) in 8 of 28 regions	2005	44.2		
Denmark ⁶	Postal questionnaire with 313 GPs	1993	33		
Greece ¹⁰	National questionnaire of 1,284 physicians including 370 GPs	2007	38.6		
Italy ¹¹	Regional phone interview	2003	28.3		
Netherlands ¹²	Postal survey with GPs and other physicians.	1990/93	38		
Romania ¹⁴	Survey, details not given, n=1136, p=0.05	2000	43.2		
Slovakia ⁴	European postal survey of GPs	2005	48.5		
Sweden ⁴	European postal survey of GPs	2005	3.7		





G OPEN ACCESS

Citation: Nilan K, McKeever TM, McNeill A, Raw M, Murray RL (2019) Prevalence of tobacco use in healthcare workers: A systematic review and metaanalysis. PLoS ONE 14(7): e0220168. https://doi. org/10.1371/journal.pone.0220168

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RESEARCH ARTICLE

Prevalence of tobacco use in healthcare workers: A systematic review and metaanalysis

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Abstract

Objectives

To estimate tobacco use prevalence in healthcare workers (HCW) by country income level, occupation and sex, and compare the estimates with the prevalence in the general population.

Methods

We systematically searched five databases; Medline, EMBASE, CINHAL Plus, CAB Abstracts, and LILACS for original studies published between 2000 and March 2016 without language restriction. All primary studies that reported tobacco use in any category of HCW were included. Study extraction and quality assessment were conducted independently by three reviewers, using a standardised data extraction and quality appraisal form. We performed random effect meta-analyses to obtain prevalence estimates by World Bank (WB) country income level, sex, and occupation. Data on prevalence of tobacco use in the general population were obtained from the World Health Organisation (WHO) Global Health Observatory website. The review protocol registration number on PROSPERO is CRD42016041231.

Results

229 studies met our inclusion criteria, representing 457,415 HCW and 63 countries: 29 high-income countries (HIC), 21 upper-middle-income countries (UMIC), and 13 lower-middle-and-low-income countries (LMLIC). The overall pooled prevalence of tobacco use in HCW was 21%, 31% in males and 17% in females. Highest estimates were in male doctors in UMIC and LMLIC, 35% and 45%, and female nurses in HIC and UMIC, 21% and 25%. Heterogeneity was high (I² > 90%). Country level comparison suggest that in HIC male HCW tend to have lower prevalence compared with males in the general population while in

Prevalence of tobacco use in healthcare workers

229 studies, 457,000 healthcare workers, 63 countries

Data collected 2000–2016

Overall – 21%

Highest – 45%

Highest: Male doctors lower middle income countries

There are still very few high quality up-to-date studies

This is a seriously neglected area

Cost effectiveness, availability, affordability

Availability

Does your country	% Yes
Have nationwide specialised treatment facilities?	26
Integrate brief advice in existing services?	44
Have a national telephone quitline?	23
Have cessation support via text messaging?	17

Availability of medications by income level

% of respondents who said available					
	All	All High UM LM		LM	Low
NRT gum	72	96	60	61	53
Bupropion	60	90	58	39	18
Varenicline	54	88	48	36	6
Cytisine	14	10	13	19	12

Percentage of respondents who said available

High=High income countries; UM=Upper middle income countries; LM=Lower middle income countries;

Low=Low income countries

Affordability of medications by income level

% of respondents who said affordable					
	All	All High UM LM			
NRT gum	66	88	58	45	33
Bupropion	57	73	43	36	33
Varenicline	54	77	32	15	0
Cytisine	68	80	80	57	50

Percentage of respondents who said affordable

High=High income countries; UM=Upper middle income countries; LM=Lower middle income countries;

Low=Low income countries

Table 2 Affordability^a of health-care smoking cessation interventions.

Intervention ^b	Affordability				
	Low- income (Nepal)	Lower- middle- income (India)	Upper- middle- income (China)	High- income (UK)	
Automated text messaging	7.7	11.2	25.9	109.5	
Brief health- worker advice	2.7	7.8	18.0	12.3	
Printed self-help materials	2.4	4.6	10.8	19.3	
Cytisine	1.7	4.9	11.3	15.0	
Nortriptyline	1.4	4.1	9.5	8.6	
Proactive telephone support	1.0	3.8	9.7	4.5	
Face-to-face behavioural support ^c	0.9	3.4	8.6	4.0	
Bupropion	0.5	1.6	3.7	7.7	
Varenicline	0.5	1.3	3.0	9.2	
NRT (single) ^d	0.4	1.0	2.4	6.9	

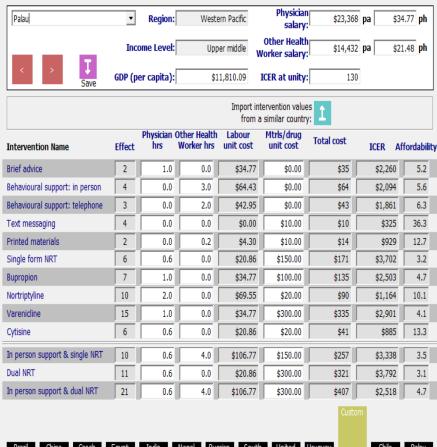
^aAffordability is the ratio of per capita gross domestic product (GDP) to the cost per life year gained, i.e. in order for an intervention to be affordable, the 'additional' cost of saving a life-year must be equal to or less than a country's per capita GDP (WHO criteria for 'highly cost-effective'); e.g. an affordability score of 2 means that the 'extra' costs required to save each life year is half of a country's per capita GDP (hence the intervention in question is affordable). ^bAffordable interventions are marked in bold type. ^cOnly individual support is included. ^dDual-form/combination nicotine replacement therapy (NRT) (transdermal patch plus a faster-acting form) is more effective than single-form, but assessing effectiveness and affordability relative to no pharmacotherapy would require indirect comparisons and so are not included here.

Cytisine

- Naturally occurring alkaloid
- Golden Chain (Laburnum anagyroides)
- Structurally similar to varenicline
- Thought to work by reducing withdrawal severity
- Available in Central and Eastern Europe since 1960s
- Appears safe (over sixty years data)
- More effective than NRT
- May be as effective as varenicline
- A full course costs just US\$15–20
- Licensed in fewer than 20 countries
- Being considered for the WHO Essential Medicines List



Affordability Calculator for healthcare interventions to promote and assist tobacco cessation v1.10



Brazil

Cz Rep

Czech Republic pt

Nep

Federat

South Africa K Uruguay n

Chile

FCTC Article 14

Requires each country to develop comprehensive guidelines, based on scientific evidence and best practice, and to promote cessation of tobacco use and tobacco dependence treatment

WHO FRAMEWORK
CONVENTION ON
TOBACCO CONTROL



Guidelines for implementation

Article 5.3 | Article 8 | Articles 9 and 10 Article 11 | Article 12 | Article 13 | Article 14





And the FCTC Article 14 Guidelines recommend measures countries could implement NOW

- Conduct a National Situation Analysis
- Develop a national cessation strategy
- Address tobacco use in healthcare workers
- Record tobacco use in medical notes
- Offer brief advice through existing healthcare infrastructure (eg. PHC)

What you can do

Government ministers

- Develop an official national cessation strategy
- Mandate recording tobacco use in medical notes (and do it)
- Train healthcare workers to give brief advice
- Help healthcare workers stop using tobacco
- Offer cessation support through text messaging
- Fast track the licensing of affordable medicines

What you can do

Healthcare workers

- Ask about tobacco use at every opportunity, <u>including while</u> giving the Covid vaccination
- Give brief advice to stop
- Offer practical tips and support if possible

The challenge: a reminder

- About 1,300 million people still use tobacco
- 8 million die prematurely every year because of their tobacco use
- Every day smokers over 35 continue to smoke, they lose 3-6 hours of life, thus for the 500 million current adult smokers
- 62 million days of life are lost every day
- Many want to stop and need help

Conclusion

Tobacco cessation support is effective, cost effective, and affordable, is one of the most cost effective of all healthcare interventions, and is needed by the millions of tobacco users who are addicted

And yet it is still being neglected

Let's work together to help them

Thank you

Martin Raw PhD

International Centre for Tobacco Cessation

Visiting Professor, New York University School of Global Public Health

Happy to respond to questions by email

martin@martinraw.com

Unaided cessation

•1000 smokers want to stop but only 10% of them have access to effective support

- 900 don't have access to support of whom roughly 5% will be abstinent at one year – 45 ex-smokers
- The other 100 have access to specialist support, effectiveness roughly 20% at one year – 20 ex-smokers
- 3. That is 65 ex-smokers most of whom stopped without support
- 4. Does that make no-support the most effective method?
- 5. Does this mean we should abandon support?

Q&A Stay Involved



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Instagram @ASHorg



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Recordings from **previous webinars** and Live Chats on social media, under "Resources from ASH" here:

ash.org/coronavirus-update

ADDITIONAL RESOURCES

- ASH US Tobacco Industry Interference Index 2020 https://ash.org/2020index
- Stay up to date on COVID-19 and smoking resources here: https://ash.org/coronavirus-update.



Global action for everyone's health.

NEXT WEBINARS:

Thank you for your participation!

Follow ASH on Facebook for a notification when we go live on Thursday, April 29th

Please stay tuned for announcements about our next webinars:

Register Here
(https://default.salsalabs.org/T84647c30-3343-499c-8c48-acf8434583a3/74d96192-d0ed-4ddb-ad64-dfd9c38f1300) for our discussion with all of the Plaintiffs on the FDA Lawsuit on April 30th

AND, the next webinar on "Exposing Current Tobacco Industry Lobbying, Campaign Contributions, Meals, and Gifts" is coming soon!



Toolkit for Advocates

Talking with government and media about the COVID-19 and tobacco use co-morbidity and policies to protect the health of everyone during the pandemic.

ash.org/covid19