

International Sugar Organization

1 Canada Square Canary Wharf London E14 5AA

EXECUTIVE DIRECTOR

Press Release(17)11 (English only)

2 March 2017

Presentation from Philippe Reiser from CEDUS

"Sugar Image and its Impact on Health Policies and Food Industry"

The Executive Director would like to call your attention to the attached presentation given by Philippe Reiser, Director of Scientific Affairs, at CEDUS (Centre d'Etudes et de Documentation du Sucre) at the 2nd ISO-APS Sugar Conference in Marrakesh last week.





Philippe REISER Scientific Affairs – CEDUS, France



The image of sugar

- where are we now ?
- why ?
- what are the trends in food policies ?
- How do the food sectors respond ?

The image of sugar

- where are we now ?
- why ?
- what are the trends in food policies ?
- How do the food sectors respond ?

Where are we now ?



?

Media on sugar

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Les Marocains accros au sucre

Publié par ALM Date ;juillet 29, 2013 dans:Actualité Laisser un commentaire 1897Vues

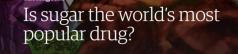
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theguardian

Thursday 5 January 2017



It eases pain, seems to be addictive and shows every sign of causing long-term health problems. Is it time to quit sugar for good? by Gary Taubes

The Washington Post

Secondhand sugars are the new secondhand smoke – and they're harming children



Sugar, (Deb Lindsey/For The Washington Post)
By Michael I. Goran and Emily Ventura January 27

Michael I. Goran is professor of preventive medicine and pediatrics at the University of Southern California and co-director of the school's Diabetes and Obesity Research Institute. Emily Ventura is a

The Sydney Morning Herald

NEWS SITE OF THE YEAR

FEBRUARY 1 2017

We need a war on secondhand sugar

Michael I. Goran and Emily Ventura

🕈 SHARE 🎔 TWEET 🖾 MORE

If you saw a pregnant woman smoking, you would undoubte concerned about the health of her child. But if you saw a pre woman drinking a soft drink, would you bat an eye? The com may seem extreme, but the parallels between tobacco and st deeper than you might imagine.

There is no debate that secondhand smoke is harmful. Now are discovering similar risks of "secondhand sugars" in infa children, specifically that our high-sugar environment can l children 's development and their long-term health.





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Sunday, January 29, 2017, 12:07 by Kathryn Borg Sugar, not fat, real cause of obesity





HOW THE FOOD INDUSTRY SCOUCED THE WORLD DHE SPOONFOLAT A TIME

FROM LAURIE DAVID PRODUCER OF AN INCONVENIENT TRUTH AND KATIE COURIC

Congress says pizza is a vegetable.



FED UP

ie that will change the way people think a

IN THEATERS MAY 9



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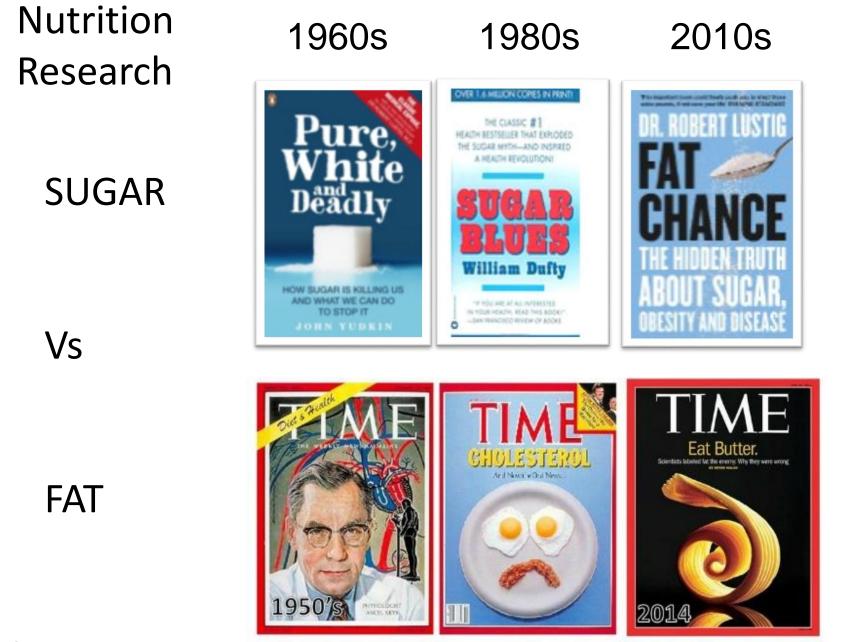
"A DEFINITE MUST-SEE!" BINGE ON THAT SUGAR FILM AND TRANSFORM YOUR LIFE!"



- The image of sugar
- where are we now ?
- why ?
- what are the trends in food policies ?
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- In 2014, about 13% of the world's adult population is obese (BMI>30) and over 38% of adults were overweight (BMI>25)
- Prevalence of obesity more than doubled between 1980 and 2014
- WHO : "The fundamental cause is an energy imbalance between calories consumed and calories expended"
- Calories from High **fat or** high **carbs/sugars** diets ?



No news...

« Rehab »

« Sugar » became the (new) ideal culprit

- *Too much* sugar (« explosion » of our sugar intakes) 1.
- Sugar is *everywhere* (« hidden » and hard to avoid) 2.
- 3. Sugar is *good* (addictive ?)





The toxic truth about sugar

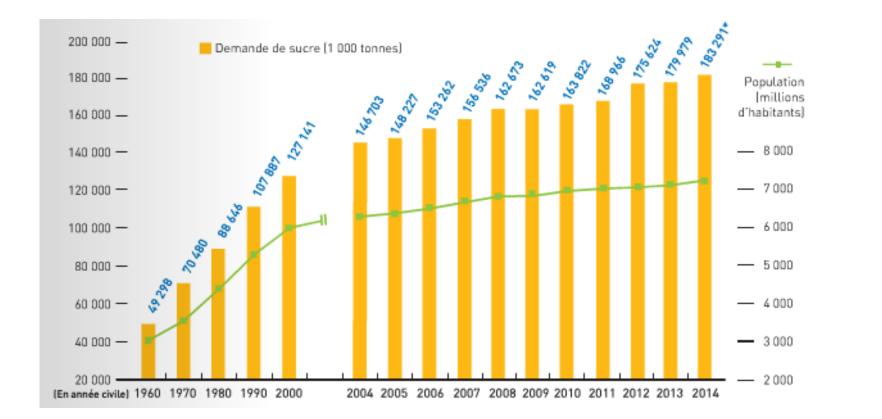
Added sweeteners pose dangers to health that justify controlling them like alcohol, argue Robert H. Lustig, Laura A. Schmidt and Claire D. Brindis.

And September, the United Nations declared that, for the first time in instable dissess such as berd dissess, cancer and diabetes pose a growter health burden worldwide than do infectious diseases, contributing to 35 million deaths annually. This is no just a problem of the developed world, hevery country that has adopted the Wettern did – one dominated burlow-cost.	SCHMAAY • Sugar consumption is linked to a rise In non-communicable disease • Sugar's effects on the body can be similar to those of alcohol • Regulation could include tax, limiting sales during school hours and placing age limits on purchase	will have a normal lifespan. Conversely, up to 40% of onemal-weight people develop the diseases that constitute the metabolic syndrome-dibates, hypertension, lipid problems, cardiovascular disease and non-achooki fatty liver disease. Obesity is not the cause; rather, it is a marker for metabolic dyriuxtion, which is even more prevalent. The UN announcement tarests tobacco.
vester a use - one commande or yow-tos, highly processed food - haw witnessed trising rates of obesity and related diseases. There are now 30% more people who are obese than who are underneurished. Economic development means that the populations of low- and middle-income countries are living longer, and therefore are more	susceptible to non-communicable diseases, 80% of deaths attributable to them occur in these countries. Many people think that obesity is the root cause of these diseases. But 20% of obese people have normal metabolism and	The Dr4 announcement targets to outcome alcohol and dist as the current alrisk factors in non-communicable disease. Two of these three — tobaccc and alcohol — are regulated by governments to protect public health leaving one of the primary culprits behind this worldwide health crisis unchecked. Of course, regulating food is more ▶

2 FEBRUARY 2012 | VOL 462 | SATURE | 27 © 2012 Macmilian Publishers Limited. All rights reserved.

Nature, Lustig et al, feb 2012

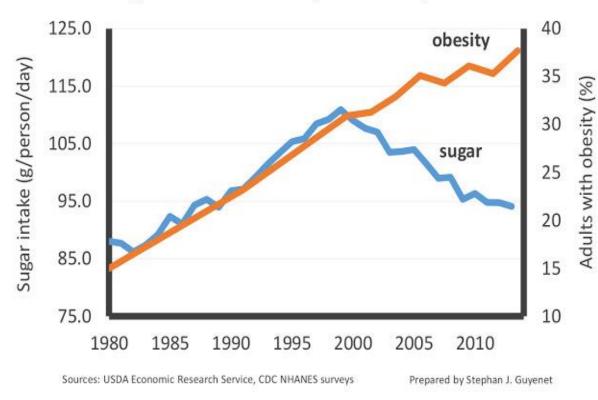
1. Too much sugar ? Explosion of our intakes ?



Source ISO

- Yes, increase in volumes
- Globally not increasing per capita and not an « explosion »

- Various trends between countries in % energy :
 - Increasing : Chile, El Salvador, India, Mexico, Thailand, the Netherlands, Pakistan
 - Stable : Costa Rica, Colombia, Dominican Republic, New Zealand, Germany, China, Argentina, Spain, France, Italy and Swaziland
 - Decreasing : Australia, Brazil, Canada, Denmark, Finland, Mauritius, South Africa, Sweden, UK, and USA). Source WSRO



US Sugar Intake vs. Obesity Prevalence, 1980-2013



An inconvenient truth

Professor Jennie Brand-Miller and Dr Alan Barclay

The Australian Paradox

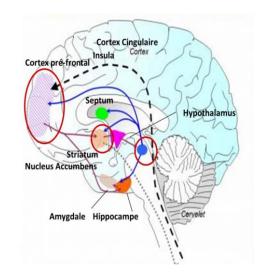


Sugars intakes are not a marker of obesity !

2. Sugar is everywhere / Hidden

- > 90-95 % of added sugars are used in *sweet* products
- Sugar in sweet products : from 5% to 98%
- Sugar in salty products : 0,5 to 3% in average

Sugar is mainly added to ...sweet products



3. Sugar is good / addictive ?

- Experiments on rodents : trained rats prefer sugar to cocaïne !
- OK, Reward circuits are the same for sugars and drugs.

But

- Extrapolation to human environment ??
- Probably some dysregulation among certain obese people
- « Sugar addiction is not a valid concept to explain obesity »

Neurofast, 2014, Ziauddeen et al, Eur J Nutr, 2016

The image of sugar

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WHO guidelines on sugars March 2015

- Strong Recommandation : limit « free sugars » < 10 % energy
- Additional recommandation : < 5 % (caries)

General idea : limit added sugars ! But how ?

BMJ	CLINICAL REVIEW	
BMJ 2012;345:e7492 doi: 10.1136/bmj.e7492 (Published 15 January 2013) Page 1 of 25	P.J. Moynihan ^{1*} and S.A.M. Kelly ² 'WHO Collaborating Centre for Nantism and Oral Healt Centre for Oral Health Research, Institute for Agoing an Health, Nervastle University, UK, "amminute of Publi Health, University of Cambridge, UK, "corresponding surbo panlar nonymhaniging" act auk	Julia Millo Catalian
	ABSTRACT	INTRODUCTION
Dietary sugars and body weight: systematic review and meta-analyses of randomised controlled trials and cohort studies COME OPEN ACCESS Lisa Te Morenga research fellow ¹² , Simonette Mallard research assistant ¹ , Jim Mann professor ¹²² ¹ Departments of Human Nutrition and Medicine, University of Otago, PO Box 56, Dunedin 9054, New Zealand; ² Riddet Institute, University of Otago, ² Edgar Mational Contro for Diabetes and Obsely Research, University of Otago	A systematic review of studies in humans was con ducted to update evidence on the associatio between the amount of sugars intake and denti caries and on the effect of restricting sugars intak to < 10% and < 5% energy (E) on caries to infor the updating of Wood Health Organization guide lines on sugars consumption. Data sources includes MEDLINE, EMBASE, Cochmen Database Carina Caribbase, and Caribbase Televise and MEDLINE, and Statise and Caribbase Itelath. Science China National Knowledge Infrastructure, Wanfang and South African Department of Health. Eligibly studies reported the absolute amount of sugars an dental caries, measured as prevalence, incidence, o severity. The review was conducted and reported i accordance with the PRISMA statement, and the evidence was asseed according to GRAD Weintfield 55 sugars server citabase. J incorvention 8 & cohort, 20 proquinton, and 24 cross-restorand	Historically, numerous independent expert and consensus reports have opment of dental caries (shchinan, 2001; WHOFNA, 2003). However, rec- ordence and the set of the set of the set of the set of the vertice of the World Health Organization (WHO) launched 3 Guideline Development Process defining a protocol for the process of revising and issu- ing dietary recommendations for populations (WHO), 2010). To update the recommendations for sugars through this process, WHO commissioned a systematic literature review. The objectives were to systematical preview all available published data relating to the amount of sugars consumption and levels of dental caries and to report the findings for both dadits and children. The WHO guideline derevalues (Table 1). These questions pertained to wars of dental caries and to report the findings for update the effects of sugars on dental caries (Table 1). These questions pertained to wars of dental caries and to report the findings for sugars induced and strengt of the size of the set of the set of the set of the set of the size of dental caries and whether the evidence supports a threshold for induce.
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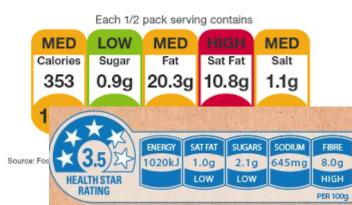


Information to consumers

- Regulation of food advertising to young people
- Mandatory health messages on ads
- Mandatory labelling of added sugars









É, ÉVITEZ DE MANGER TROP GRAS, TROP SUCRÉ, TROP SALÉ

	trition Facts rvings per container size 2/3 cup (55g)		
	ories 230		
% DV*			
12%	Total Fat 8g		
5%	Saturated Fat 1g		
	Trans Fat 0g		
0%	Cholesterol Omg		
7%	Sodium 160mg		
12%	Total Carbs 37g		
14%	Dietary Fiber 4g		
-	Sugars 1g		
- (Added Sugars 0g		
	Protem 3g		

Regulation/ban

- Ban of vending machines inside schools
- Ban of free refill for sugary drinks in restaurants/food catering
- Zoning to restrict fast food outlets







Free soda: France bans unlimited sugary drink refills

② 27 January 2017 Europe

< Share



Food taxation

- Food taxes on soft drinks
 5% to 10% higher prices per liter
- Food taxes on caloric density Mex : 8% tax on foods >275 kcal/100g
- « Incentive » to reduce sugars
 UK, 2018 : >5% sugar and >8% sugar





HEALTH NEWS | Thu Aug 18, 2016 | 11:15am E

Britain launches soft drinks sugar tax to fight obesity



etail of a can of Coca-Cola is seen in London, Britain March 16, 2016. REUTERS/Stefan Wermuth

Does it work ?

- Education campaigns and information to consumer : mixed picture of the effects
- Taxes : it works for money !

Impact on sales ?

- At least the first years
- More water ? More fruit juices ?

Economy Markets Seoul Court 🖛 Theranos Had 🖛 Snapchat Parent \$200 Million in Cash proves Arrest of Sets Valuation of Up ung Leader eft at Year-End \$22.2 Billion BUSINES Soda Sales in Mexico Rise Despite Tax This is a bright spot for an industry that has feared it could be cast as the next tobacco By AMY GUTHRIE in Mexico City and MIKE ESTERL in Atlanta May 3, 2016 5:30 a.m. ET Sales of soda are climbing two years after Mexico imposed a roughly 10% tax on sugary

drinks—a bright spot for an industry that has feared it could be cast as the next tobacco.

- France : -3 liters/y/pers = -1 g sugar /d

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Actions of food industries

No action

Reformulation

- Less sugars by « quiet » reformulation
- Less sugars by addition of intense sweeteners

Marketing

development of the share market for light versions

Smaller portion sizes





♠ > News

Mars bars, KitKats and Dairy Milk chocolates to get smaller in new sugar crackdown

f share 😏 🖂





And for the sugar producers ?

• Information and responsability

<u>Recall</u> the positive aspects of sugar

- natural (vegetal) origin, source of pleasure
- clean labelling, common ingredient in the kitchen
- Sugar is food, it is not the new tobacco !!!

Responsability

- sugar is only part of the complex equation of well being and health
- avoid excessive calories from sugars, although the scientific basis for restrictive guidelines is far from settled.

Future ? New results, new controversies, but sugar will stay a central ingredient



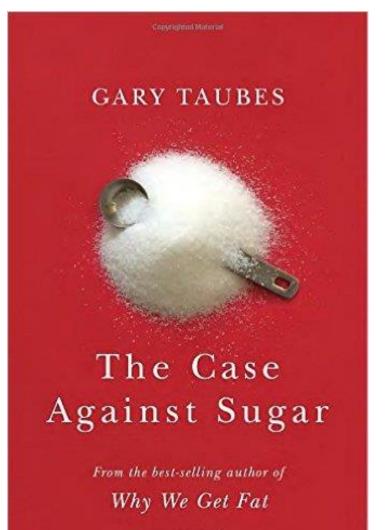
Sense Of Sugar @senseofsugar · about 19 hours 19 minutes ago The smallest change, such as walking more, can lead to a healthier lifestyle. Get hints & tips on burning #calories. https://co/92HBAFse9





UN ACTEUR HISTORIQUE

• Thank you for your attention !



pyrighted Material

The New York Times

The Case for Sugar

By PAUL RUDNICK FEB. 4, 2017



Hudson Christie