

International Workshop and Convention in Gran Canaria, 5-8 June-2019

Key issues in Sport Economics

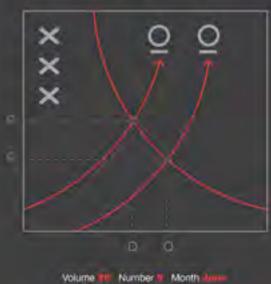
Prof. Beatriz G. Lopez-Valcarcel University of Las Palmas de GC 6 June 2019

Guideline

- 1. Introduction to Sport Economics
- Sport and health. Social cost of physical inactivity. Health in All Policies
- 3. Sport and Economics. Economic impact of sport events and infrastructures

1. Introduction: Sport Economics





 A (relatively) new area of Economics

Wide scope



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2. Sport and health. Social cost of physical inactivity. Health in All Policies



The New Hork Times

Top Stories

Sec. 10. 10.

FOR STORES

Everest is having an unruly climbing season, with jostling crowds and at least 10 deaths. Experts blame increased permits and untrained climbers.

Singui May VE 2017 ED: THE ES

Py-by-night advenure recognities are taking up training definiters who post a ristic at myora on the mountain. And the Napalem advenues (4, hangey for every combing define 8 cangel, has perioding open defines Everyal consuled, handle same expensional recommendations.

Add to that From 1's interstable appear to a groung body of farth-coders the world over. And the first that Frepal, our of Air of powers traitions and the site of most Executed which has a ling over of shootly regulations, minutes grown and corruption.

The New York Times

'It Was Like a Zoo': Death on an Unruly, Overcrowded Everest

By Kai Schultz, Jeffrey Gettleman, Mujib Mashal and Bhadra Sharma

May 26, 2019



NEW DELHI — Ed Dohring, a doctor from Arizona, had dreamed his whole life of reaching the top of Mount Everest. But when he summitted a few days ago, he was shocked by what he saw.

Climbers were pushing and shoving to take selfies. The flat part of the summit, which he estimated at about the size of two Ping-Pong tables, was packed with 15 or 20 people. To get up there, he had to wait hours in a line, chest to chest, one puffy jacket after the next, on an icy, rocky ridge with a several-thousand foot drop.

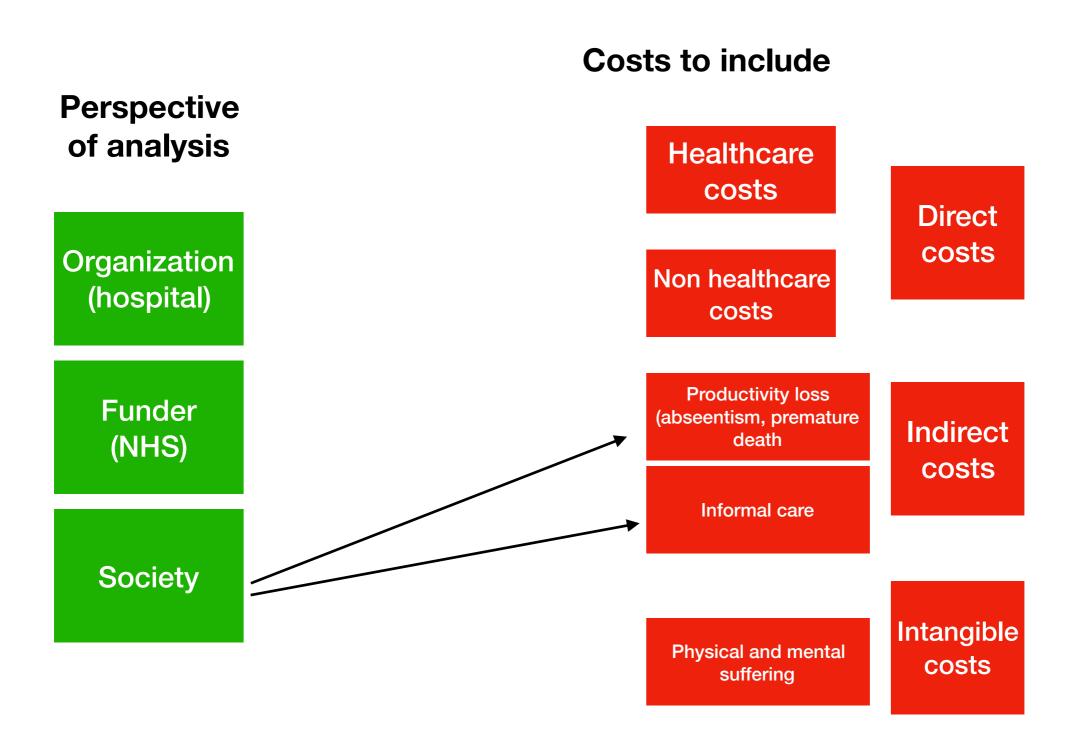
He even had to step around the body of a woman who had just died.

"It was scary," he said by telephone from Kathmandu, Nepal, where he was resting in a hotel room. "It was like a zoo."

This has been one of the <u>deadliest climbing seasons</u> on Everest, with at least 10 deaths. And at least some seem to have been avoidable.

The (social) cost of Sedentarism "low physical activity"

Conceptual framework (Economics) for Calculating the cost of physical inactivity



Los estudios del coste de la enfermedad aproximan la carga económica del problema

España

	Coste	Coste	sanitari	0	Pérdida de	Cuidados
Enfermedad	total (mill.€)	AP+ambulatoria	Hosp.	Medicame ntos	productividad	informales
ECV ⁽¹⁾	6.997	12 %	23 %	22 %	25 %	17 %
Cancer (2)	9.106	13 %	16 %	17 %	36 %	17 %
Demencia ⁽³⁾	14.557	3 %	1 %	2 %	- (26% social care)	68 %

⁽¹⁾ Leal, J., Luengo-Fernández, R., Gray, A., Petersen, S., & Rayner, M. (2006). Economic burden of cardiovascular diseases in the enlarged European Union. *European heart journal*, *27*(13), 1610-1619.

⁽²⁾ Luengo-Fernandez, R., Leal, J., Gray, A., & Sullivan, R. (2013). Economic burden of cancer across the European Union: a population-based cost analysis. *The lancet oncology*, *14*(12), 1165-1174.

⁽³⁾ Luengo-Fernandez, R., Leal, J., & Gray, A. M. (2011). Cost of dementia in the pre-enlargement countries of the European Union. *Journal of Alzheimer's Disease*, 27(1), 187-196.

Conceptual framework (Epidemiology) for calculating the cost of physical inactivity



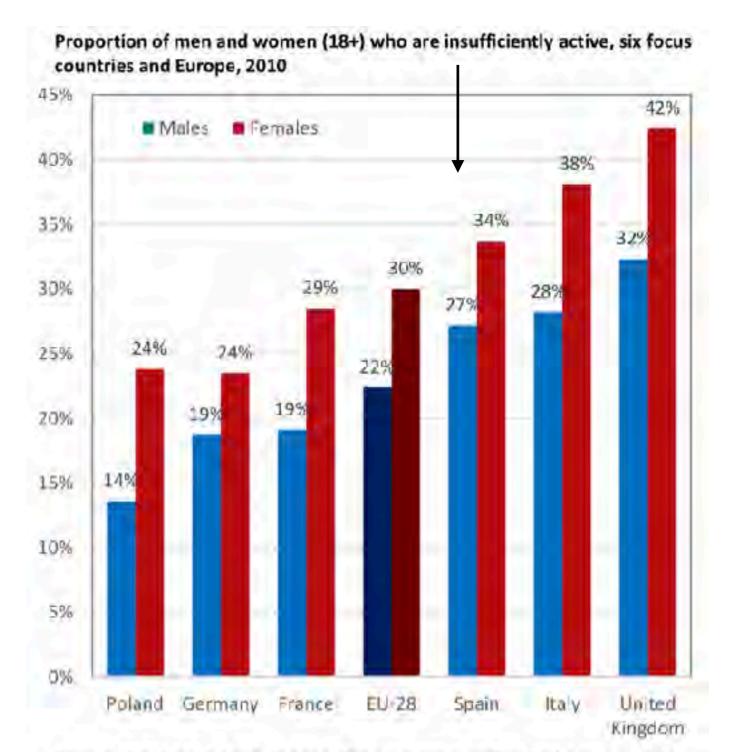
PAF = Population attributable fraction

Example:

30% of the population: low physical activity

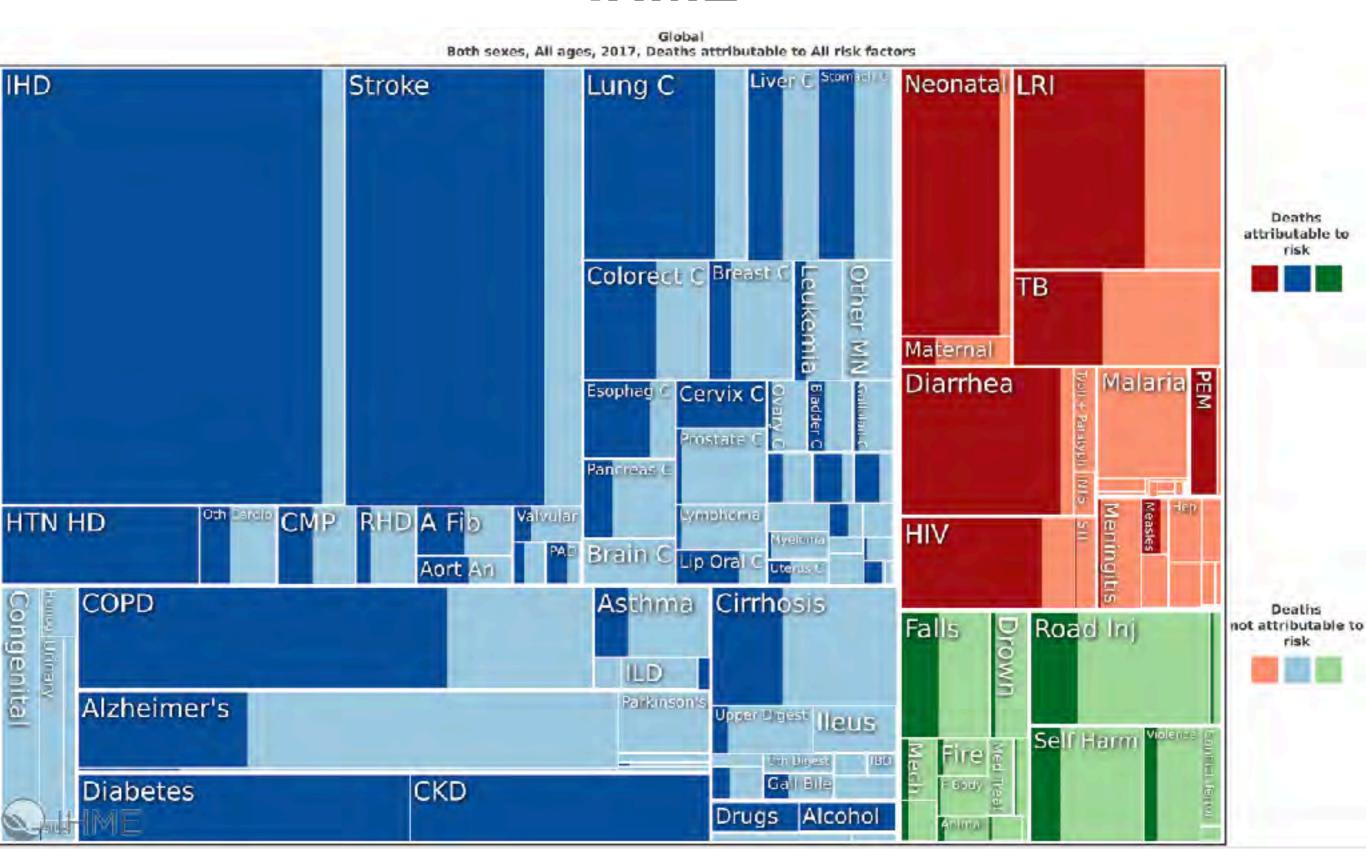
The relative risk of death coronary heart disease is 1.9(*) for those that have low physical activity PAF=0.3*1.9=0.57

Interpretation: If all the population do the recommended physical exercise regularly, coronary heart disease would decrease by 57%



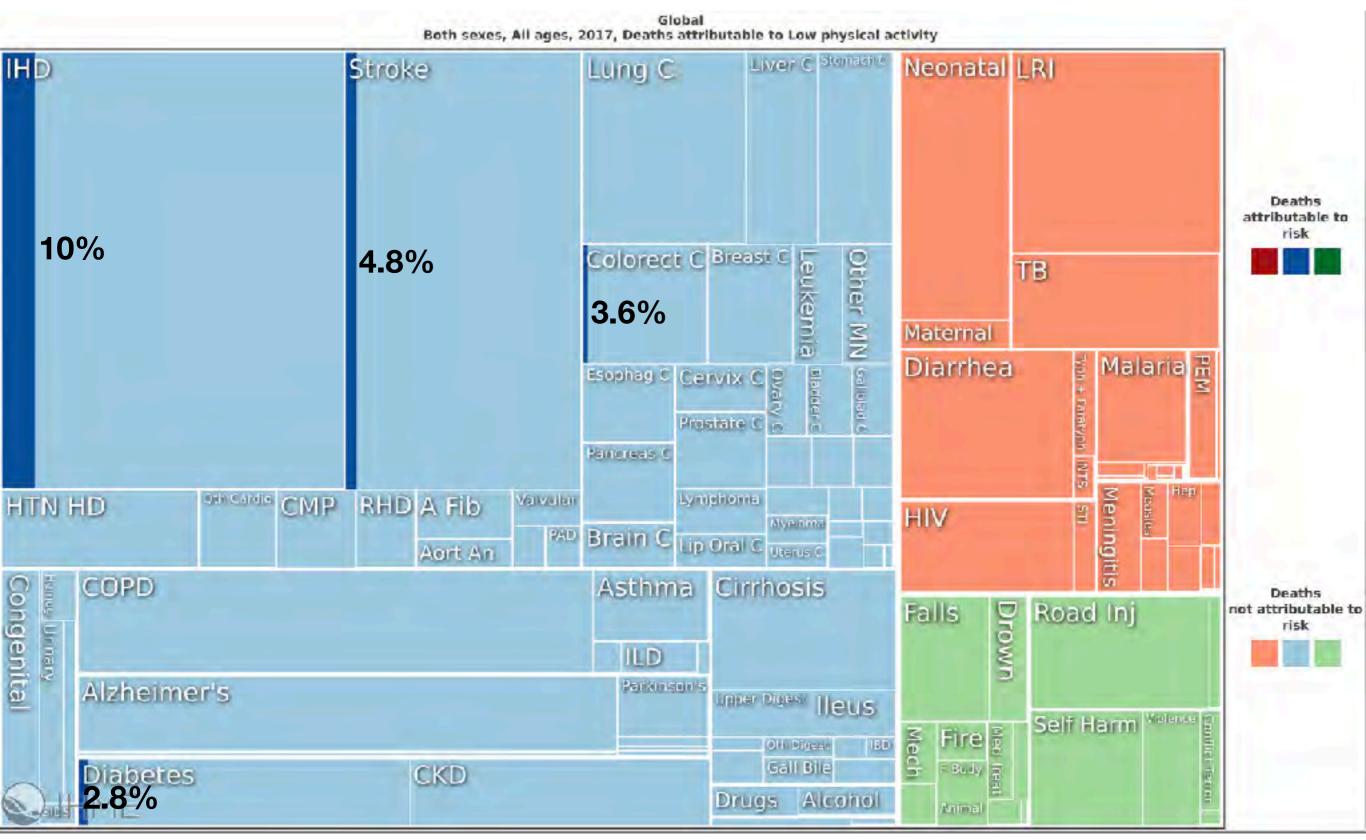
Source: WHO 2010, Cebr analysis. Data are age-standardised; see appendix for further detail.

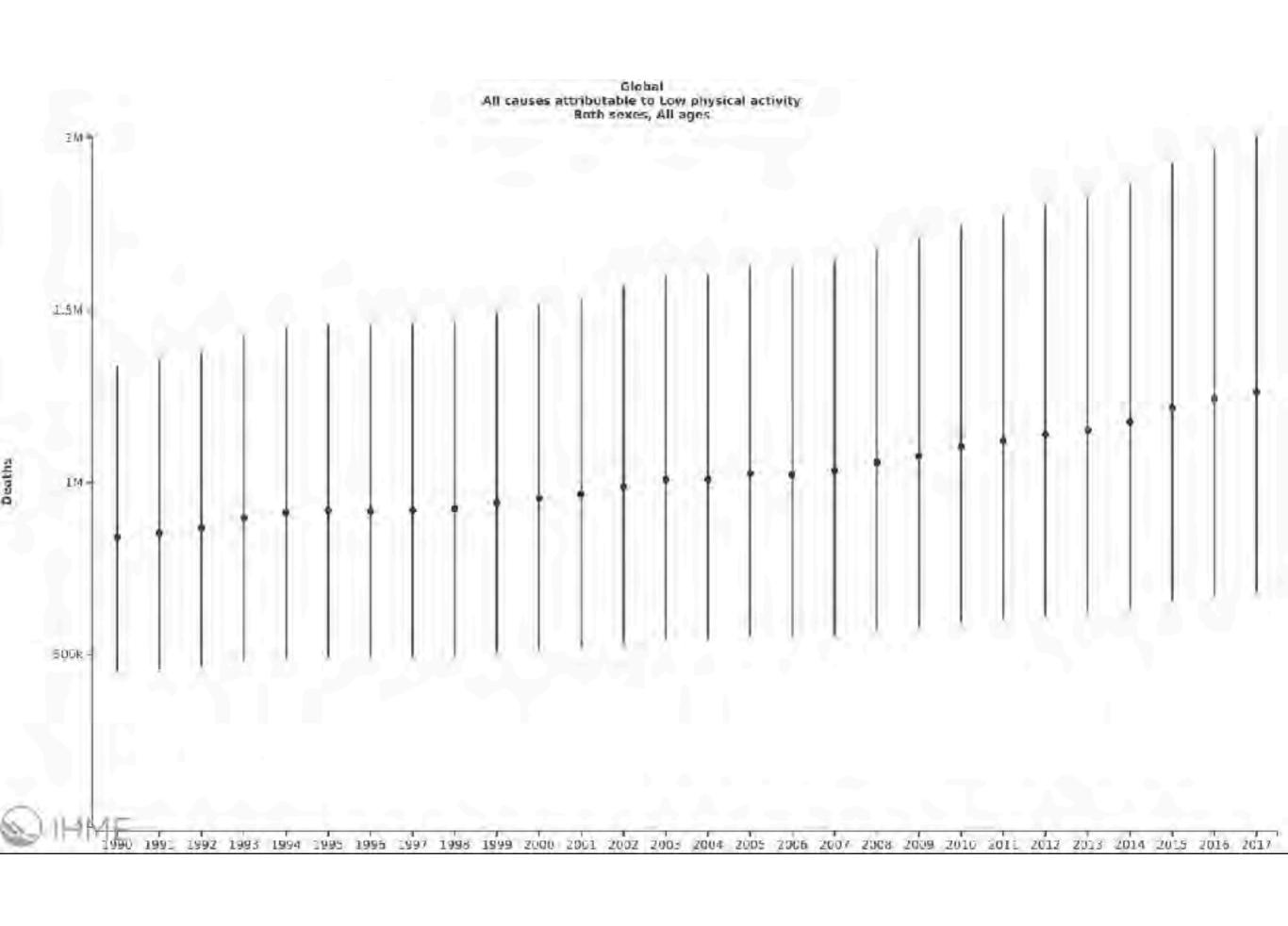
IHME



1.26 million deaths attributable to low physical activity

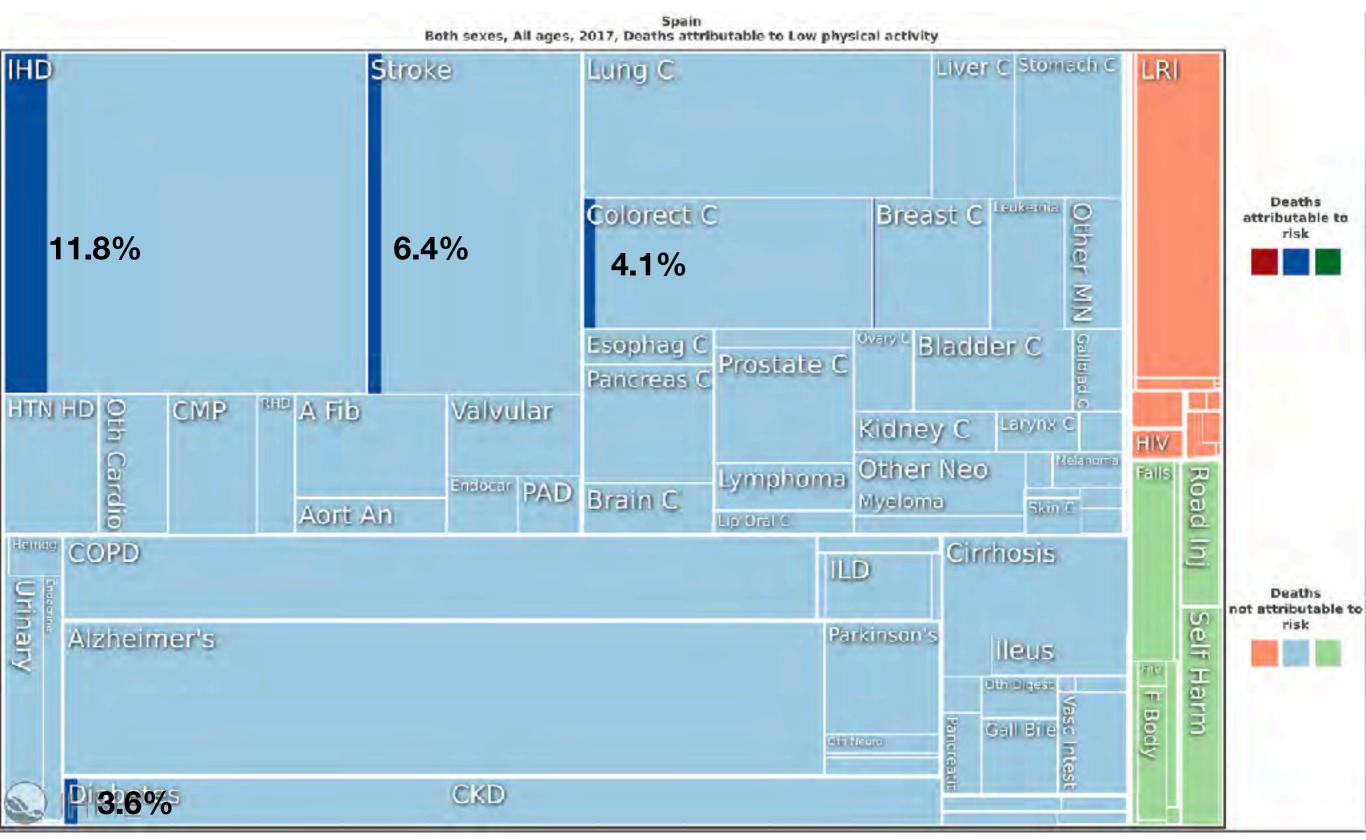






Spain: 9 705 deaths attributable to low physical activity





The economic burden of physical inactivity: a systematic review and critical appraisal

Ding Ding, 1,2 Tracy Kolbe-Alexander, 1,4 Binh Nguyen, Peter Katzmarzyk, 5 Michael Pratt, 6 Kenny D Lawson27

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Waspled 10 Nardi 2017 Published Unline First 26 April 2017



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BMJ

ABSTRACT

Objective To summarise the literature on the economic burden of physical inactivity in populations. with emphases on appraising the methodologies and providing recommendations for future sturies. Design Systematic review following the Preferred Reporting Items for Systematic Reviews and Meta-Analyses guidelines (PROSPERD registration number CRD420150477051.

Data sources. Electronic databases for peen reviewed and only literature were systematically searched followed by reference searching and consultation with

Eligibility criteria Studies that examined the economic consequences of physical inactivity in a population/population-based sample, with clearly stated methodologies and at least an abstract/summary written

Results Of the 40 - gible some, 27 focused and irect healthcare tosts only. 13 also estimated indirect (osts) and one study additionally estimated household costs. For direct costs, 23 studies used a population attributable. fraction (FAF) approach with estimated healthcare costs attroctable to physical inactivity ranging from 0.3%. to 4,5% of national healthcare expenditure; 17 studies. used an experimental automate, which tended to yeld higher estimates than those plying a PAF approach. For indirect every 10 studies used a human capital approach, two used a friction cost approach end one used a value of a statistica life approach. Overall estimates varied eubstantially, even within the same country, depending un analytical approaches, time frame and other methodological considerations.

Conclusion Estimating the economic burden of physical inactivity is an area of increasing importance that requires further development. There is a marked leak all pansistency in methodalonical agarcathes and hansparen you reporting entring statum model browlit fram cross-ost, or na youll appration, lowing my economics and physical within avaient taxing a societal perspective and following best practices in conducting and reporting analysis, inducing accounting for potential confounding, reverse causality and committely, applying discounting and sensitivity analysis, and reporting assumptions, limitations and justifications for approaches taken. We have adapted the Consolicated Feelth. Eronomic Evaluation Reporting Standards checklist as a quice for future estimates of the economic burden of physical inectivity and other risk factors.

INTRODUCTION

year, physical inactivity causes more than 5 million

deaths1 and costs billions of dollars to societies around the world." To date, many countries have developed national physical activity plans; however, few have been fully implemented. The substantial gap between policy and implementation may be due to a lack of resources, cross-sectoral partnership and clear strategies. Public health responses to address the pandemic of physical macrisity remain involegance impropriated and underlanded,

Economic monlysis is resented to bridging the policy-implementation gap, increasing political engagement and motivating actions. Around the world, governments are addressing many competing printings with finite resources. Making an economic case for obviscal activity may help galvanise public support, inform decision making and prioritise funding allocation to develop and implement interventions to reduce physical inactigity in the population." Estimating the economic burden of physical mactivity is a critical first stepbecause it can provide comprehensive information regarding the barden of the pandemic and the costs of not rolling action. Conducting economic evaluation of interventions designed to mitigate physical inactivity is the key to identify arraregies that are the best value for money to fully inform resource

It is important that studies adopt tobust sanudardised and transporent methods when assessing the economic burden of risk factors, such as pleysical inactivity. Methodological consistency between studies enables valid comparisons regarding the absolute and relative burden of physical macrivity compared with other risk factors. This can be expected to increase the confidence of decision makers to commission and use such analyses in decision making. To date, a range of studies have hern published on the economic burden of physical irractivity of local, state or national levels, mostly in developed countries. In 2016, as part of the Lauret Physical Activity Somes, we published the first global estimate that included 142 commies.2 However, prior estimates, even for the same country, vary substantially across studies. For example, Carlson et al estimated that physical mactivity accounted for 11.1% of the healthcare expendinge in the USA while Colditz estimated the proportion to be 2.4%. The difference between 11.1% and 2.4% is enarmous. Understanding and perhaps resolving such divergent estimates is crucially important to enhance the overall credibility of economic burden estimates in decision making,

The purpose of this paper is to undertake a systematic review or the current literature on the 40 studies

27 studies only direct healthcare costs

13 studies also indirect costs

38 single-country studies represented only 12 countries, of which 10 were high-income countries

Results: direct healthcare costs between 1% and 2% of the healthcare expenditure

"There is a marked lack of consistency in methodological approaches and transparency of reporting. Future studies could benefit from crossdisciplinary collaborations involving economists and physical activity experts, taking a societal perspective and following best practices in conducting and reporting analysis, including accounting for potential confounding, reverse causality and comorbidity, applying discounting and sensitivity analysis, and reporting assumptions, limitations and justifications for approaches taken"

Physical marinity is a global pundema. Every



First author and year of publication	Country	Data sources	Definition of PA minimal risk counterfactual	Types of costs	Conditions included	Adjusted PAF*	Comorbidity	Findings #: amount (% healthcare cost), uncertainty/sensitivity analysis	Time frame	Funding/CO)
International Sports and Culture Association and Centre for Economics and Business Research 2015 ¹⁷	FJ-78	WHO, Organization for Economic Cooperation and Development, Eurostat, International Development Association, EUCAN and published studies	≥150 min MPA or ≥75 min VPA/week, or combinations		IHD, breast cancer, colorectal cancer. T2DM	No/unclear	No	UK: €1920 million (T.05%§): Germany: €1677 million (0.55%§): Italy: €1562 million (1.04%§); France: €1215 million (0.11%§); Spain: €092 million (1.03%§): Poland: €219 million (0.86%§). EU-28: €9.2 billion Entwerted national estimates: UK \$2.4; Germany \$2.2: Italy \$2.1; France \$1.5. Spain \$1.5) Poland \$0.5 billion (NT)	1 year (2012)	International Sport and Culture Association (contributors included various organisations and companies)/COI statement missing
Market Economics Limited 2013 ²	New Zealand	Various sources including the Ministry of Health, Statistics New Zealand, District Health Board reports, and others	≥30 min PA×5 days/week	Hospital care, pharmaceutical, outpatient, public health and other	IHD, stroke, hypertension, breast cancer, colorectal cancer, 120M, osleoporosis, depression	No/unclear	Yes	\$614 million NZD (4.6%), statistical sensitivity analysis conducted (1.2%) Converted national estimate: \$464.4 million INT	2010	Government commissioned/COI statement missing
Stephenson 2000 ³⁹	Australia	Active Australia 1997 National PA Survey: RR from studies on PA and disease; Australian Institute of Health and Welfare's Disease Costs and Impact Study	nactivity ≥150 min/week	Hospital care, pharmaceurical, medical services, allied health, research, public, health and other	IHD, Stroke, breast carrier, colon cancer, depression	Yes	No	\$A377 million (1.1%), structural sensitivity analysis conducted) Converted national estimate: \$433.7 million INT	7 year (1093–1994)	Commonwealth Department of Health and Aged Care and Australian Sports Commission/COI statement missing
Public Health England 2016	M	Programme budgeting data released by NH3 England In 2010–2014	Not specified	Not specified	(HD, stroke, breast carrier, colon carrier, diabetes	No/unclear	No.	F455 million for England, UK (0.3%)) Converted national estimate: \$657.6 million IVT	1 year (2013- 2014)	Public Health England/COI statement missing

[&]quot;Adjusted PAF: whether PAF used was based on relative risks adjusted for confounders. Yes—explicitly described adjustment in the paper, No/undear—did not describe adjustment in the paper, we could not use a consistent methodology to determine whether the PAF was crude or adjusted but not stated.

Ding, D., Kolbe-Alexander, T., Nguyen, B., Katzmarzyk, P. T., Pratt, M., & Lawson, K. D. (2017). The economic burden of physical inactivity: a systematic review and critical appraisal. *Br J Sports Med*, *51*(19), 1392-1409.

[†]Comorbidity: whether the potential double counting among comorbidities was addressed (yes/ng).

¹Findings: interpreted as the total amount of direct healthcare cost that was associated with physical inactivity (all findings referred to the general population with the exception of Gameti 2004.

■ which referred to all Blue Cross members

■ which referred to the general population with the exception of Gameti 2004.

■ which referred to all Blue Cross members

■ the properties of overall healthcare cost that was spent on diseases that were attributable to physical inactivity. In most cases, the percentages were reported in the original studies; in some cases, the author (DD) calculated or recalculated the percentages based on national healthcare expenditure data from the WHO (available at http://apps.who.in/hha/database/ViewData/Indicators/en).

§Recalculated and corrected by the authors of the current review.

^{1/}Calculated or recalculated percentages:

A. Australian dollars, C., Canadian dollars; CCHS, Canadian Community Health Survey; COL, conflict of interest, CVD, cardiovascular disease, CZK, Caech Koruna; QALYs, Disability Adjusted Life Years; EBIC, Economic Burden of Illness in Canada; EU-28, 28 member countries of the European Union, GBD; Global Burden of Disease; IHD, is chaemic heart disease; INT, international dollars; MET, metabolic equivalents, min, minutes, MPA, moderate physical activity; MVPA, moderate to-vigorous physical activity; NCD, non-communicable disease; NHEX, National Health Expenditure Database for Canada; NHS, National Health Service; NZD, New Zealand dollars; min, minutes; PA, physical activity; PAI; population attributable fraction; f., pounds sterling; R. Brazil real, T2DM, type 2 diabetes mellitus; R8, relative tisks; SFr, Swiss francs; VPA, vigorous physical activity.







Los estudios del coste de la enfermedad aproximan la carga económica del problema

España

	Coste total (mill.€)	Coste	Coste sanitario Pérdida de Cuida			Cuidados
Enfermedad		AP+ambulatoria	Hosp.	Medicame ntos	productividad	informales
ECV ⁽¹⁾	6.997	12 %	23 %	22 %	25 %	17 %
Cancer (2)	9.106	13 %	16 %	17 %	36 %	17 %
Demencia (3)	14.557	3 %	1 %	2 %	- (26% social care)	68 %
Physical inactivity (4)	6.612	15 %			85 %	

⁽¹⁾ Leal, J., Luengo-Fernández, R., Gray, A., Petersen, S., & Rayner, M. (2006). Economic burden of cardiovascular diseases in the enlarged European Union. *European heart journal*, 27(13), 1610-1619.

⁽²⁾ Luengo-Fernandez, R., Leal, J., Gray, A., & Sullivan, R. (2013). Economic burden of cancer across the European Union: a population-based cost analysis. *The lancet oncology*, *14*(12), 1165-1174.

⁽³⁾ Luengo-Fernandez, R., Leal, J., & Gray, A. M. (2011). Cost of dementia in the pre-enlargement countries of the European Union. *Journal of Alzheimer's Disease*, 27(1), 187-196.

⁽⁴⁾ The economic cost of physical inactivity in Europe . An ISCA / Cebr report June 2015 https://inactivity-time-bomb.nowwemove.com/download-report/ https://inactivity-time-bomb.nowwemove.com/ https://inactiv

Science vs advocacy/MKT

Can Coca Cola promote physical activity?

In Their Luncet Manifesto (March 8, p 847) Richard Horton and colleagues state: 'Our tolerance of neoliberalism and transnational forces dedicated to ends far removed from the needs of the vast majority of people, and especially the most deprived and vulnerable, is only deepening the crisis we face." I agree, and so do many colleagues in Brazil.

The Fifth International Congress on Physical Activity and Public Health, held in Rio de Janeiro, April 8-11, 2014, was sponsored by Cora Cula. This is the first time, to my knowledge, that a major conference on physical activity held in Brazil has been sponsored by an organisation whose policies, practices, or products conflict with those of public health. The aponsorship was not only financial; Coca Cola was everywhereat side meetings, in the sponsors' hall giving away its products and propaganda.

At a time when sweetened soft drinks are recognised by independent organisations as a major cause of the present uncontrolled obesity pandemic, which notably affects filldren and developing countries, such as China, India-and Brazil, this is worrying.

Big Food corporations are spending hillions of US\$ on their strategy in claim that obesity is caused by physical inactivity. Their engagement with physical activity and public health impanisations and professionals is part of their corporate social responsibility strategy. Their campaigns include techniques to evade regulation and to influence science, "using methods similar to those used by tobacco corporations in the past."

is this a kind of retribution to Latin America-where laws to protect children against ultra-processed food were implemented in Mexico, Chile, and Costa Rica, and where civil society organisations oppose Big Food corporations to limit advertising of ultra-processed products to children in

Brazil is hosting the World Cop this month, and the Olympics in 2016. Both events are committed to sponsorships from McDorwld's and Coca Cola, among others. Again, it is easy to understand why they would sponsor such events. This outrageous practice is pushed by international sports federations, putting pressure on national governments.

We cannot accept big fransnational fast food and soft drinks corporations to support sports and physical activity.

life day to competing interests. [asknowledge funding home Lite Paulo Wospanh Foundation.

Thiago Herick de So thiagoherickdesa@gmail.com

University of Cas Plants, School of Public Health, Netwine Sin Perks SP 01285-964, Rest

- Horton P, Roughhole R, Boesta R, Raidwoo), McKim M. Wall 5. From public to planetary health amandesta Lonari 2014, 383: 647
- fine in 1, Jamby E. Barrat, et al. Spressyring of physical activity programs by the vanishmed have rages websitry public health or public Wildliams Nev South Public 2011 45: 473-27
- Minustin B. Okuskim D. Mustreina C. at al. Profits. and pareferries preposition of harmful effects of selection, alcohol, and office processful front and drink industries Lamor 2013; 384: 670:79.
- Brownell KO, Warrest KE. The gorth of ignoring his tury: ting Tobacco playerfulaty and reifficon died. How should rise flag Forust? Millhook Q 3009;
- Jacoby E. Nivera), Cordino's, et al. Legislation Children Obesity Standing up for shildsony orgitis in Later America. World Nubilian 1917. 11/483-516

FITNESS

Coca-Cola Funds Scientists Who Shift Blame for Obesity **Away From Bad Diets**

BY ANAHAD O'CONNOR AUGUST 9, 2015 5:25 PM



An image from a video by the Coca-Cola Foundation. In November 2012, the foundation announced a \$3 million grant to Chicago's Garfield Park Conservatory Alliance. The grant was intended to establish a wellness program.



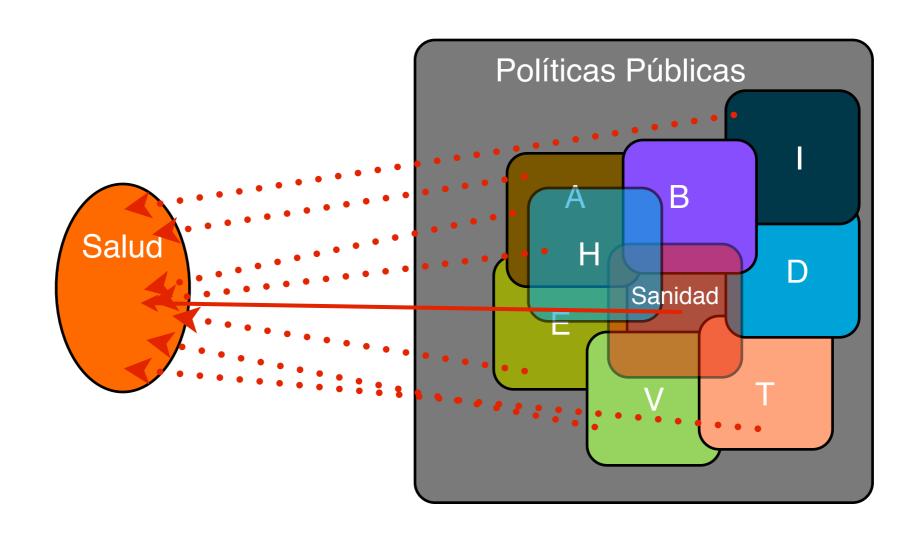
Email



Share

Coca-Cola, the world's largest producer of sugary beverages, is backing a new "science-based" solution to the obesity crisis: To maintain a healthy weight, get more exercise and worry less about cutting calories.

- mediated one Vol 383 June L4: 2014



HAP [Health in All Policies]







Journal of Urban Health: Bulletin of the New York Academy of Medicine, Vol. 89, No. 1 doi:10.1007/s11524-011-9628-8

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Do Health Benefits Outweigh the Costs of Mass Recreational Programs? An Economic Analysis of Four Ciclovía Programs

Journal of Urban Health: Bulletin of the New York Academy of Medicine, Vol. 89, No. 1 doi:10.1007/s11524-011-9628-8 © 2011 The New York Academy of Medicine

Do Health Benefits Outweigh the Costs of Mass Recreational Programs? An Economic Analysis of Four Ciclovía Programs



Journal of Physical Activity and Health, 2010, 7(Suppl 2), S163-S180

Do Health Benefits Outweigh the Costs of Mass Recreational Programs? An Franchic Analysis of Four Ciclovía Programs

TABLE 3 Sensitivity analysis for the direct health benefit user/year (USD) of the Ciclovía programs in Bogotá, Guadalajara, Medellín, and San Francisco

Percentage of the US direct health benefit (a)	DHB (user/year, USD)	Total benefit (USD)	Benefit/operational costs	Benefit/user costs	Cost-benefit ratio
Bogotá/Ciclovía				- 1	5365
1134	71.06	13,120,409-30,620,257	7.65-17.85	5.60	3.23-4.26
10.00	62.66	11,570,025-27,001,990	6.75-15.75	4.94	2.85-3.76
7.00	4386	8,099,018-18,901,393	4.72-11.02	3.46	2.00-2.63
5.00	3133	5,785,013-13,500,995	3.37-7.87	2.47	1.43-1.88
2.65	2193	4,049,509-7,155,527	1.79-4.17	1.31	0.76-1.00
Guadalajara/Vía RecreActiv	/a			75.7	
20.00	125.32	2,229,978	6.82	3.84	2.45
15.00	93.99	1,672,483	5.11	2.88	1.84
10.00	62.66	1,114,989	3.41	1.92	1.23
8.15	5107	908,716	2.78	1.56	100
Medellin/Ciclovia					
10.91	6839	2,335,898	2.38	7.93	1.83
9.00	5639	1,926,087	1.96	6.54	1.51
8.00	50.13	1,712,077	1.75	5.82	1.34
7.00	43.86	1,498,067	1.53	5.09	1.17
5.95	37.28	1,273,357	1.30	4.33	1.00
San Francisco/Sunday Stre	ets				
100.00	626.60	4,070,967	2.49	32.52	2.32
90.00	563.94	3,663,870	2.24	29.27	2.08
80.00	501.28	3,256,773	1.99	26.02	1.85
70.00	438.62	2,849,677	1.75	22.76	1.62
43.00	269.44	1,750,516	1.07	13.98	1.00

The Sunday Street program only occurs once per month during 9 months. Therefore, we assumed that the program occurred once per week during the year in order to attribute the yearly DHB to the physical active that are expected to meet the PA weekly recommendations. Thus, the DHB in this case should be interpreted as the projected DHB for a regularly weekly program

3. Sport and Economics. The economic impact of sport events and infrastructures

Is it worth investing in a new stadium?
Is it worthwhile to organize the Olympic
Games?

Do the benefits outweigh the costs?

Going for the Gold: The Economics of the Olympics

Robert A. Baade and Victor A. Matheson

Costs

General infrastructure such as transportation and housing to accommodate athletes and fans

Specific sports infrastructure required for competition venues

Operational costs, including general administration as well as the opening and closing ceremony and security

Benefits

Direct revenues: sponsor, ticketing, licensing, and media revenues

Short-run benefits of tourist spending during the Games

Long-run benefits or the "Olympic legacy" which might include improvements in infrastructure and increased trade, foreign investment, or tourism after the Games

Intangible benefits such as the "feel-good effect" or civic pride.

Journal of Francisco Franciscos - Values 40 Smales 2-Spring Alto-Page 201-418

Going for the Gold: The Economics of the Olympics

Robert A. Baade and Victor A. Matheson

Table 2
Costs of Hosting Recent Olympic Games

	Type of spending	Spending (billions, 2015\$)	Source
Summer Olympics			
Seoul, 1988	Sports infrastructure General infrastructure Total cost	\$2.067 \$3.523 \$ 6.505	Preuss (2004, Table 7.8 and Figure 9.1)
Barcelona, 1992	Sports infrastructure General infrastructure Total cost	\$1.485 \$12.457 \$16.409	Preuss (2004)
Atlanta, 1996	Sports infrastructure General infrastructure Total cost	\$.765 \$.959 \$3.57 6	Preuss (2004)
Sydney, 2000	Sports infrastructure General infrastructure Total cost	\$1.761 \$1.817 \$6.926	Preuss (2004)
Alliens, 2004	Total cost	\$13.800 (est.)	Tagaris (2014)
Beijing, 2008	Sports infrastructure Total cost (est.)	\$2,815 \$45.000 (est.)	Preuss (2004) Fowler and Meichtry (2008)
London, 2012	Total cost	S11.401	BBC (2012b)
Rio 2016	Total cost	\$11.100 (est.)	Leme (2015)
Winter Olympics Nagano, 1998	Total cost	\$15.250	Longman (1998); The Economist (1998)
Salt Lake City, 2002	Total cost	\$2.500 (approx.)	US GAO (2001)
Torino, 2006	Total cost	\$4.350 (approx.)	Payne (2008): Flyvbjer and Stewart (2012)
Vancouver, 2010	Sports infrastructure General infrastructure Total cost	\$.715 \$3.497 \$7.556	VanWynsberghe (2011
Sochi. 2014	Sports infrastructure Total cost	\$6.700 (est.) \$51.000 (est.)	Farhi (2014)

Going for the Gold: The Economics of

the Olympics

Direct revenues: sponsor, ticketing, licensing, and media revenues

Short-run benefits of tourist spending during the Games

Long-run benefits or the "Olympic legacy" which might include improvements in infrastructure and increased trade, foreign investment, or tourism after the Games

Intangible benefits such as the "feelgood effect" or civic pride.

Robert A. Baade and Victor A. Mathesor

Table 3
Direct Revenues and Hosting Costs from Olympic Games
(\$ millions)

	IOC 2009-12	Vancouver 2010 organizing committee	London 2012 organizing committee
Revenue source			
Broadcast rights	\$2,723	\$414	\$713
International sponsors	\$475	\$175 (est.)	\$300 (est.)
Domestic sponsors	\$0	\$688	\$1,150
Ticketing	\$0	\$250	\$988
Licensing	\$0	\$51	\$119
Total	\$3,198	\$1,578	\$3,270
Hosting costs		\$7,556	\$11,401

Source: IOC (2014b).

Notes: Table 3 shows data on revenues generated by the International Olympic Committee and the organizing committees for the Vancouver and London Games over the 2009–2012, the most recent IOC budget cycle. It also shows hosting costs for the Vancouver and London Games.

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Going for the Gold: The Economics of the Olympics

Robert A. Baade and Victor A. Matheson

"These results lend credence to a common rule-ofthumb often used by economists who study mega-events: If one wishes to know the true economic impact of an event, take whatever numbers the promoters are touting and move the decimal point one place to the left"

Table 4
Academic Studies of the Economic Impact of the Olympic Games

Study	Exent	Results
Baarle and Matheson (2002)	1984 Summer Games (Los Augeles) and 1996 Summer Games (Adanta)	5,043 new jobs in Los Angeles. Between 3,467 and 42,448 new jobs in Atlanta.
Jasmand and Macnnig (2008)	1972 Summer Games (Munich)	No impact on employment in host regions, Positive impact on income.
Porter and Fletcher (2008)	(Atlanta) and 2002 Winter Games (Salt Lake City)	No impact on taxable sales, hotel occupancy, or airport usage. Significant increase in hotel prices.
Baade, Baumann, and Matheson (2010)	2002 Winter Games (Salt Lake City)	Taxable sales in restaurants and hotels up by \$70.6 million but taxable sales at general merchandisers down by \$167.4 million.
Giesecke and Madden (2011)	2000 Summer Games (Sydney)	Household consumption in Australia reduced by \$2.1 billion.
Baumann, Engelbardt, and Matheson (2012)	2002 Winter Games (Salt Lake City)	Increase in employment of 4,000–7,000 jobs for one year compared to predictions of 35,000 full-time equivalent job-years
Hotchkiss, Moore, and Zobay (2003)	1996 Summer Games (Atlanta)	Increase in employment of 293,000 jobs. Increase in employment growth rate by 0.2%.
Feddersen and Maennig (2013)	1996 Summer Games (Atlanta)	29,000 jobs added during month of Olympics only.

There have only been two success stories: Los Angeles (1984) and Barcelona (1992)

The key to success lies in the negotiating power with the Olympic Committee

Conclusion

- 1. Sport Economics is a new and wide area of research
- 2. Physical inactivity causes worldwide mortality and morbidity, with large socioeconomic gradient, and social costs. The movement of Health in all Policies (HAP) advocates for *producing* health out of the healthcare system through social and economic policies
- 3. Studies of economic impact of mega-events
 (Olympic Games) and sport infrastructures (stadium)
 are generally too optimistic and need to gain
 methodological consistency as well as disclosing of
 funding sources

Thank you!

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