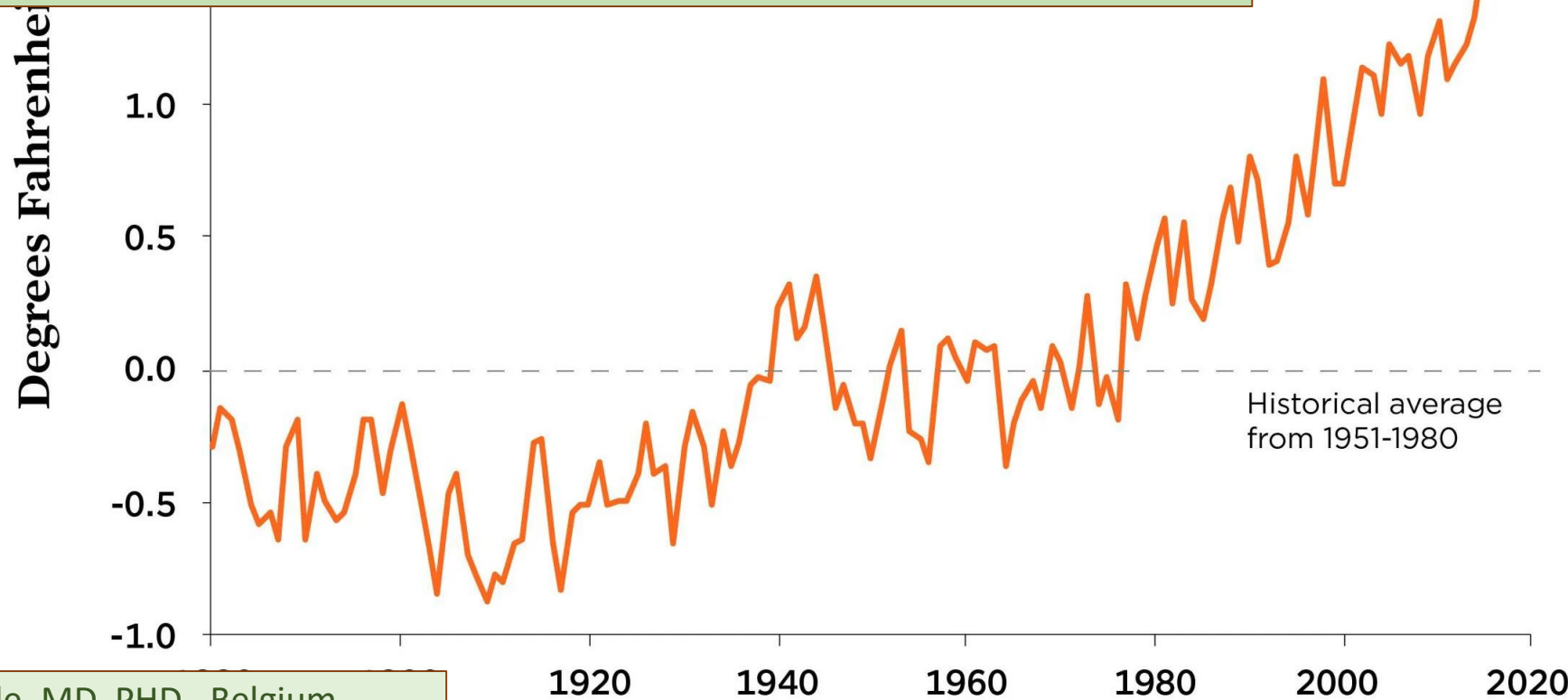


Global Annual Mean Surface Temperature Change

Quaternary prevention and
climate global warming



Marc Jamouille, MD, PHD . Belgium

Wonca conference on planetary health

Brazil. August 21, 2021



ANGELOS TZORTZINIS / AFP

A local resident holds an empty water hose during an attempt to extinguish forest fires outside the village of Pefki on Evia, Greece's second largest island. Greece and neighbouring Turkey have been battling devastating blazes, as the region suffers its worst heatwave in decades.

We cope with failures of all sorts, and our whole civilisation may be heading for a massive and catastrophic failure.

We need a general scheme of things that will enable us to understand how things go wrong,

- The pandemic cycle we face, [...], places us before a dilemma:
 - to give in as isolated individuals, inhibited by fear, or
 - to face it as organized collectives to transform a world that is falling apart,
 - amidst the absurd opulence of a rapacious and powerful minority.

Quaternary prevention. (2003 WONCA Dictionnary of general practice)

- **Action taken to identify patient at risk of overmedicalisation, to protect him from new medical invasion, and to suggest to him interventions, which are ethically acceptable.**

At risk of overmedicalisation

include naturally under and wrong medicalisation
as a by-product of the patient doctor relationship,
considering health care as a co-construction



KATHLEEN FLYNN / REUTERS

A woman is treated for Covid-19 at the Ochsner Medical Center in Jefferson Parish, Louisiana, US.

To protect him from Medical invasion

Table 1. Health carbon footprints (HCF) in 2014 in absolute terms, per capita and as percentage of the national carbon footprint (CF). Israel and New Zealand are listed at the bottom with the last year where health care expenditures were available.

Country	HCF (Mt)	HCF/cap (tCO ₂ /cap)	Share of CF (%)
AUS	19.5	0.83	4.2
AUT	6.8	0.8	6.7
BEL	7.5	0.66	7.7
CAN	29.7	0.83	5.1

International comparison of health care carbon footprints. Pichler PP and all Environmental Research Letters vol. 14 issue 6 (2019) pp: 064004
<https://iopscience.iop.org/article/10.1088/1748-9326/ab19e1>

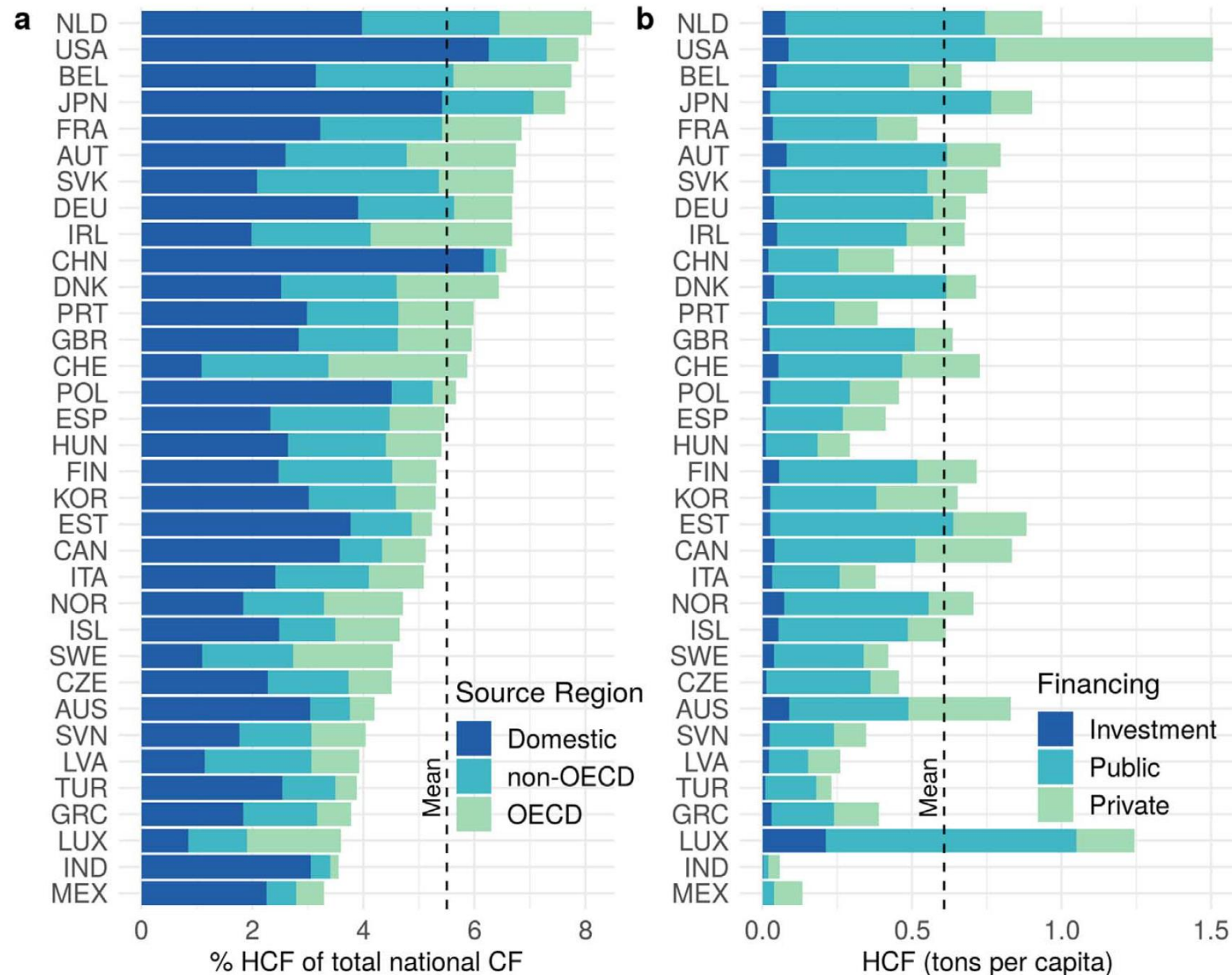


Figure 1. Health carbon footprint (HCF) as percentage of national carbon footprint (CF) grouped by region where the emissions occurred (a) and health carbon footprint per capita grouped by financing scheme (b) in 2014, for all available countries in 2014.

Ethically acceptable

Health professionals have a vital part to play in reducing the environmental impact of health services;

Health care structures like hospitals and clinics rely on high-carbon use building materials, heat and cooling, water and energy sourcing, and food services

Globally, the pharmaceutical industry carbon emissions are more than 50% higher than the automotive sector.

Rethinking prescribing practices—particularly around mental health—must be a cornerstone of sustainable health care.

In Belgium

At least two kind of initiatives

French speaking region ; teaching and awareness

Contact : Dr Sarah Demunck GP; docdemuncksarah@gmail.com

Docteur Coquelicot was born in 2020. It is a project of vulgarisation in environmental health, carried by general practitioners and other health professionals located in Belgium. In 2021, we are working with the support of the SSMG and Brussels region on training, research and outreach projects on these topics.

(lecture – elearning –research)

<https://docteurcoquelicot.com>



<https://www.ssmg.be>

Dutch speaking region ; data collection

Intego : a general practice ICPC minded database

Truyers, C., Goderis, G., Dewitte, H., vanden Akker, M., & Buntinx, F. (2014). The Intego database: background, methods and basic results of a Flemish general practice-based continuous morbidity registration project. *BMC medical informatics and decision making*, 14(1), 1-9.

<https://bmcmmedinformdecismak.biomedcentral.com/articles/10.1186/1472-6947-14-48>

Research project

Transition from INTEGO-MHC as a database to a monitoring instrument for the surveillance of health effects related to environmental exposure in our living environment <https://www.kuleuven.be/onderzoek/portaal/#/projecten/3M200761>

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<https://intego.be/en/Welcome>



**I wish you a great meeting with my
grandson Theo and the tree,
looking for the future**

Marc

