

Comments on the NTP study

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The opinions expressed in this talk are solely those of the speaker (AJS) and should not be considered as official positions of the *Inserm*, IARC-WHO or the University

Who am I?

- I am a physician having spent the last 35 years working as a cancer epidemiologist
- An MD and 3 Harvard degrees (MPH, SM Bio-Epi, DrPH Epi, Bio, Evaluation)
- Researcher at the *INSERM* (French NIH)
- Former Unit Chief of **Epidemiology for Cancer Prevention** at IARC-WHO
- Former Acting Chief of Programme for Cancer Control at WHO
- Over the decades switching from behavioral and life-style risk factors to environmental ones

RFR and (non) health

- **Exposure:** most probably the fastest increase in the past 30 years, becoming ubiquitous, leaving hardly anyone unexposed
- **Epidemiology:** very clear; in almost all studies, in particular case-referent studies, an increase in risk is seen among the « most heavily » exposed
- **Experimental studies:** needed to back up what is known in humans and soon will be the only studies with unexposed reference groups

Brain tumours: rise in Glioblastoma Multiforme incidence in England 1995–2015 suggests an adverse environmental or lifestyle factor

Alasdair Philips, Denis L. Henshaw, Graham Lamburn, and Michael O'Carroll

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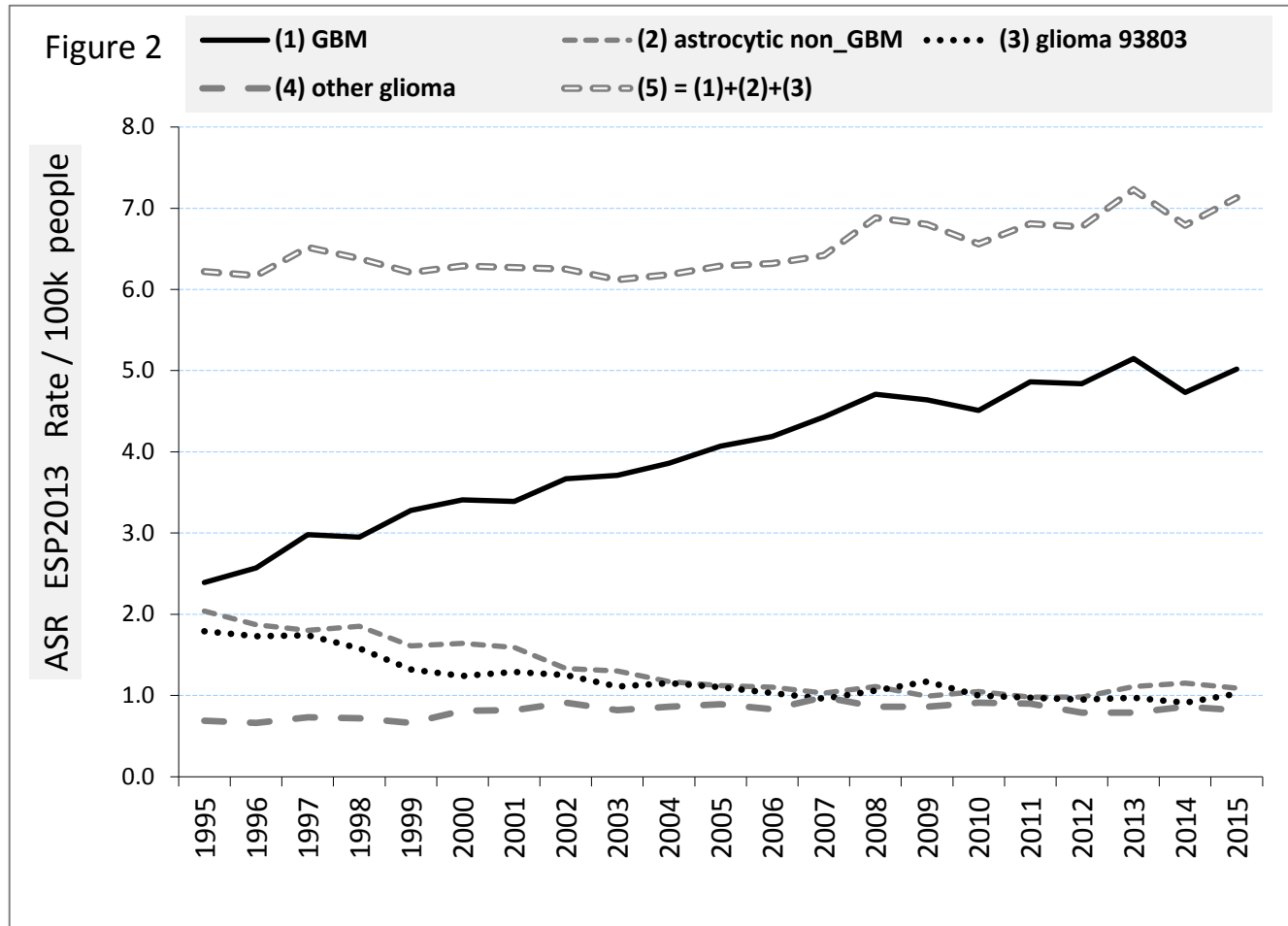
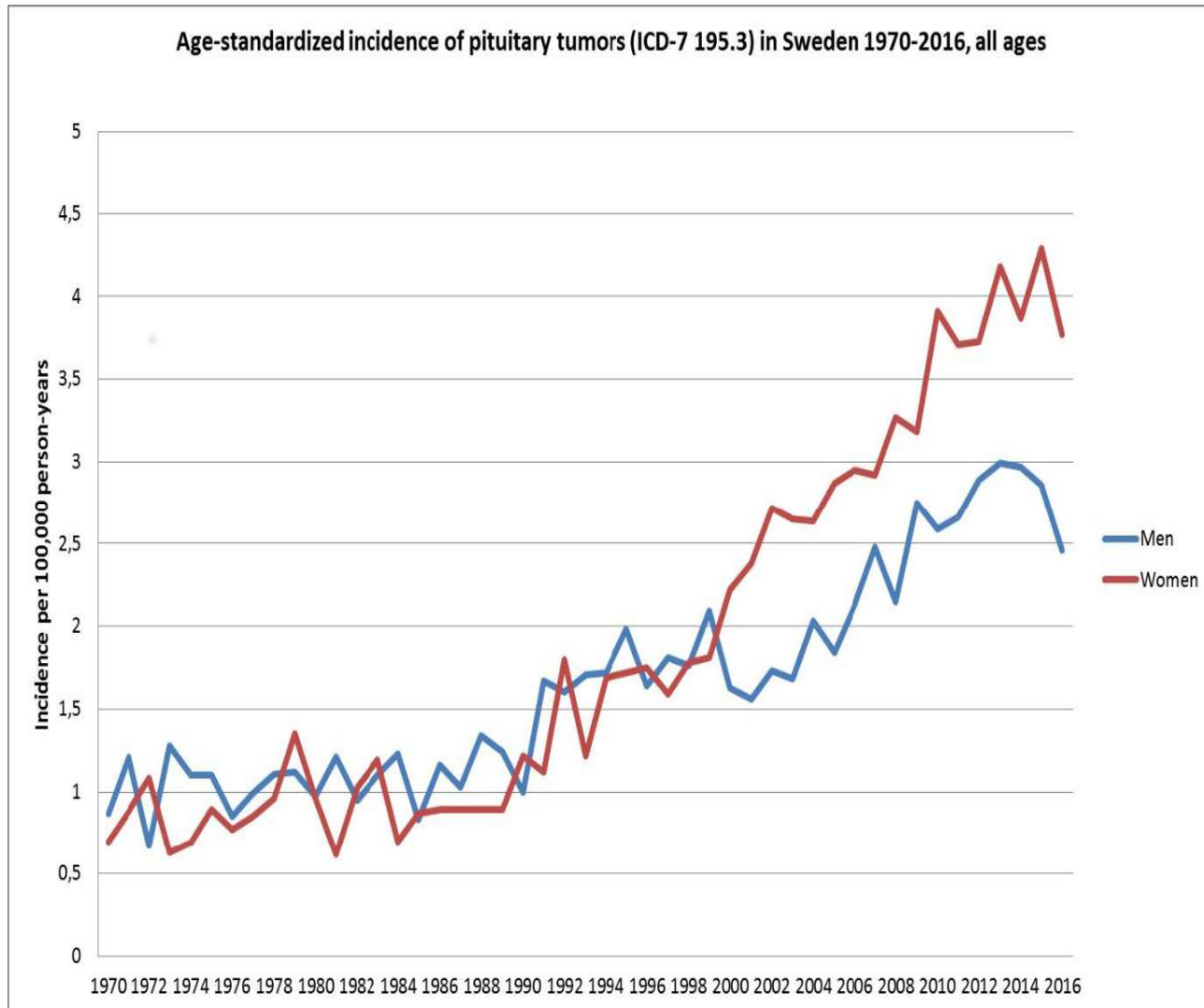


Figure 2 – Age-standardised incidence rates for all C71 glioma cases diagnosed between 1995 and 2015 analysed by type and year

(Data in Table 3). Grouping details:

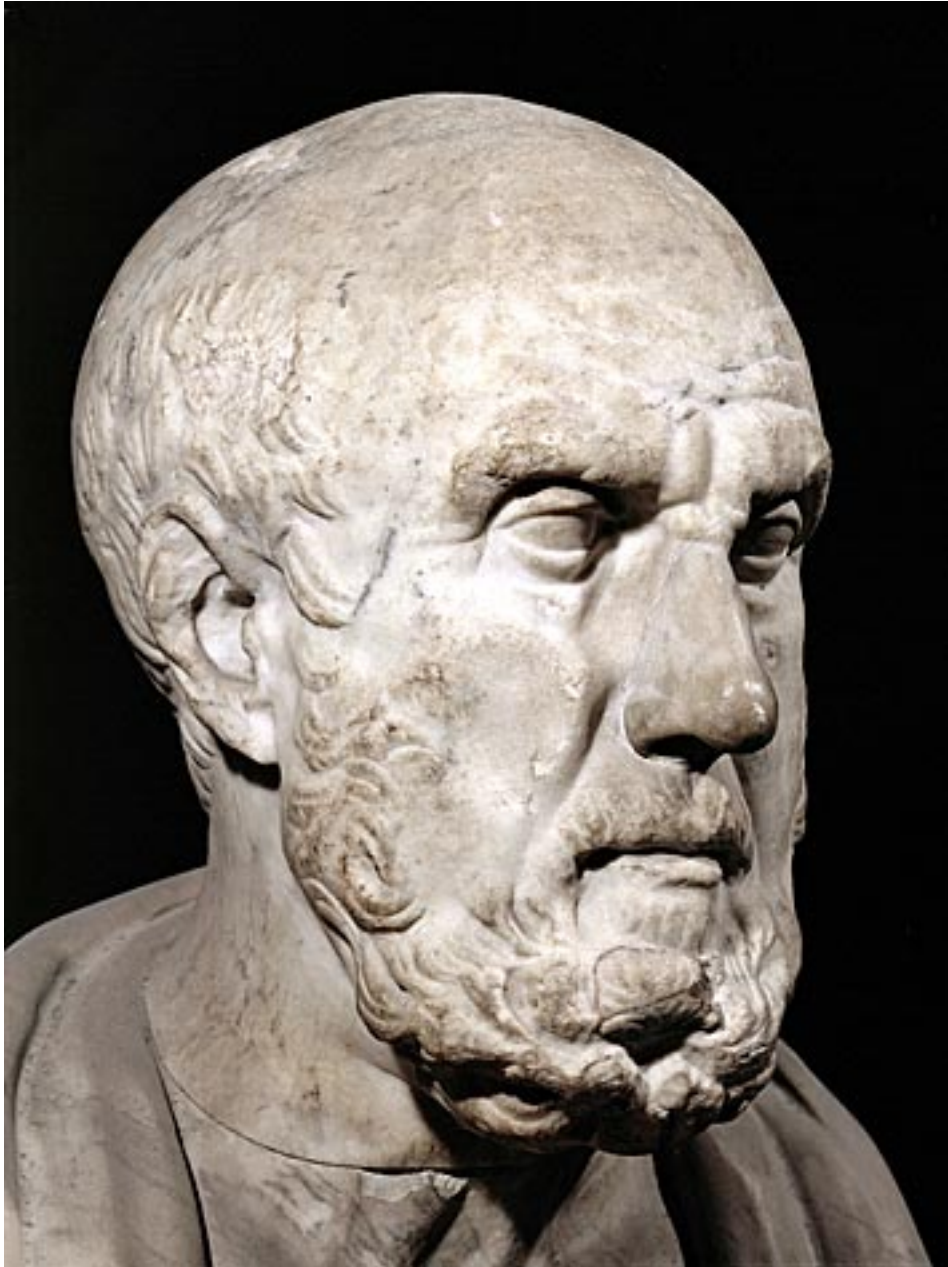
(1) = 94403–94433 (2) = 93843, 94003–94303 (3) = 93803 (4) = 93813, 93823, 93903–93943, 94503–94733

Figure 5. Age-standardized incidence of pituitary tumors (ICD-7 195.3) in Sweden 1970-2016 for men and women



The NTP study

- Large and well conducted study, methodologically sound
- **Some questions:** exposure, doses, differences between rats and mice, males and females, mechanisms, statistical considerations
- **Pertinent results:** type of tumors, similarity with humans, evidence of genotoxicity
- Conforted by the results of the Ramazzini study
- More evidence of carcinogenicity of RFR



Hippocrates

Primum non nocere

First do no harm

Epidemics (I,5) around 410 BC

Translation in the 2008
context: precautionary
principle

David Servan-
Schreiber-Annie Sasco
appeal on cell phones

Today in 2018: time to
move from precaution
to prevention