

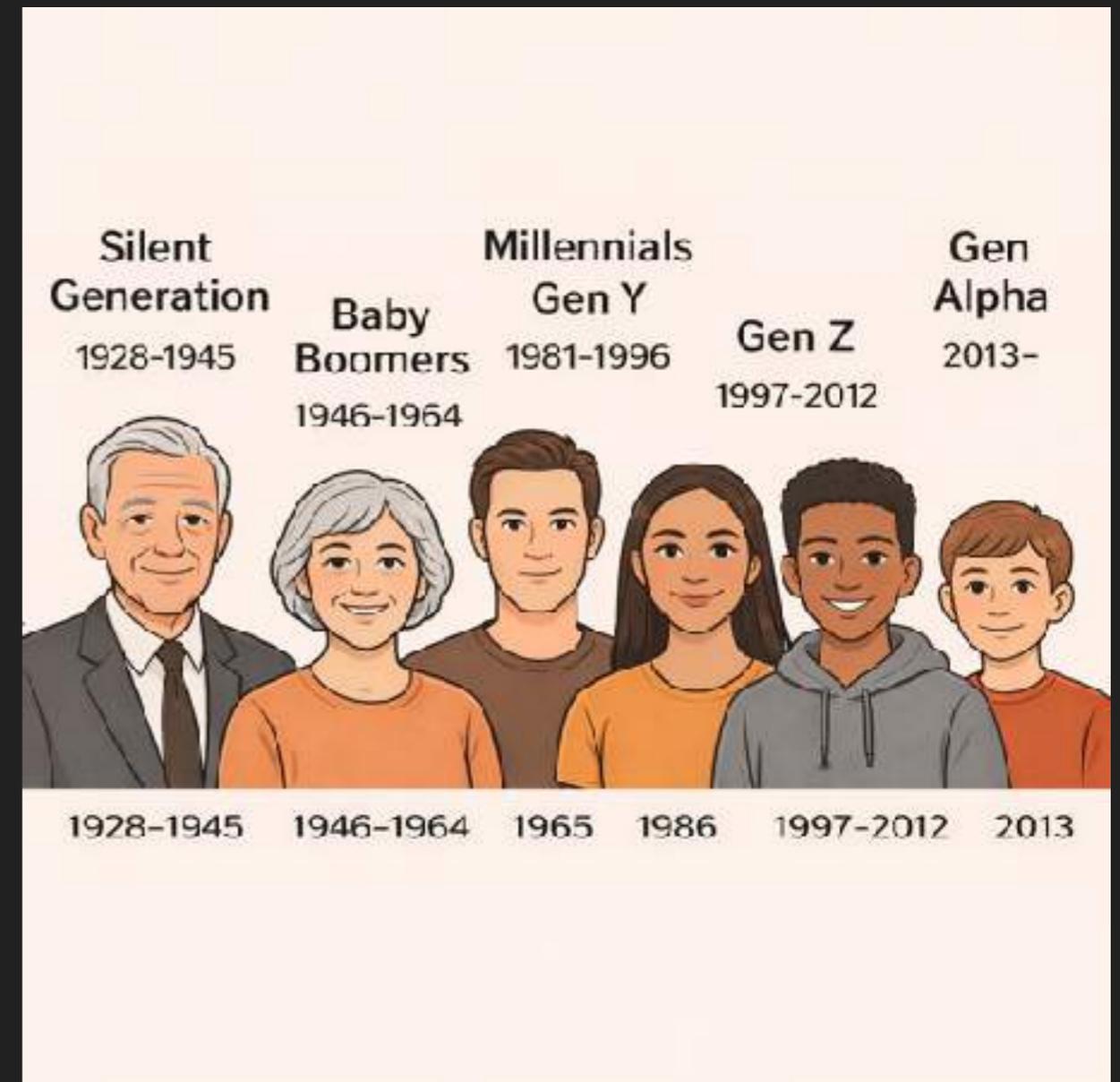
DR RYAD JOOMYE

20 YEARS LATER

20 YEARS LATER

AGENDA

- ▶ Generations and behaviour patterns
- ▶ Silent neurotoxin
- ▶ AI risks vs opportunity
- ▶ Infant mortality rates



20 YEARS LATER

BABY BOOMERS

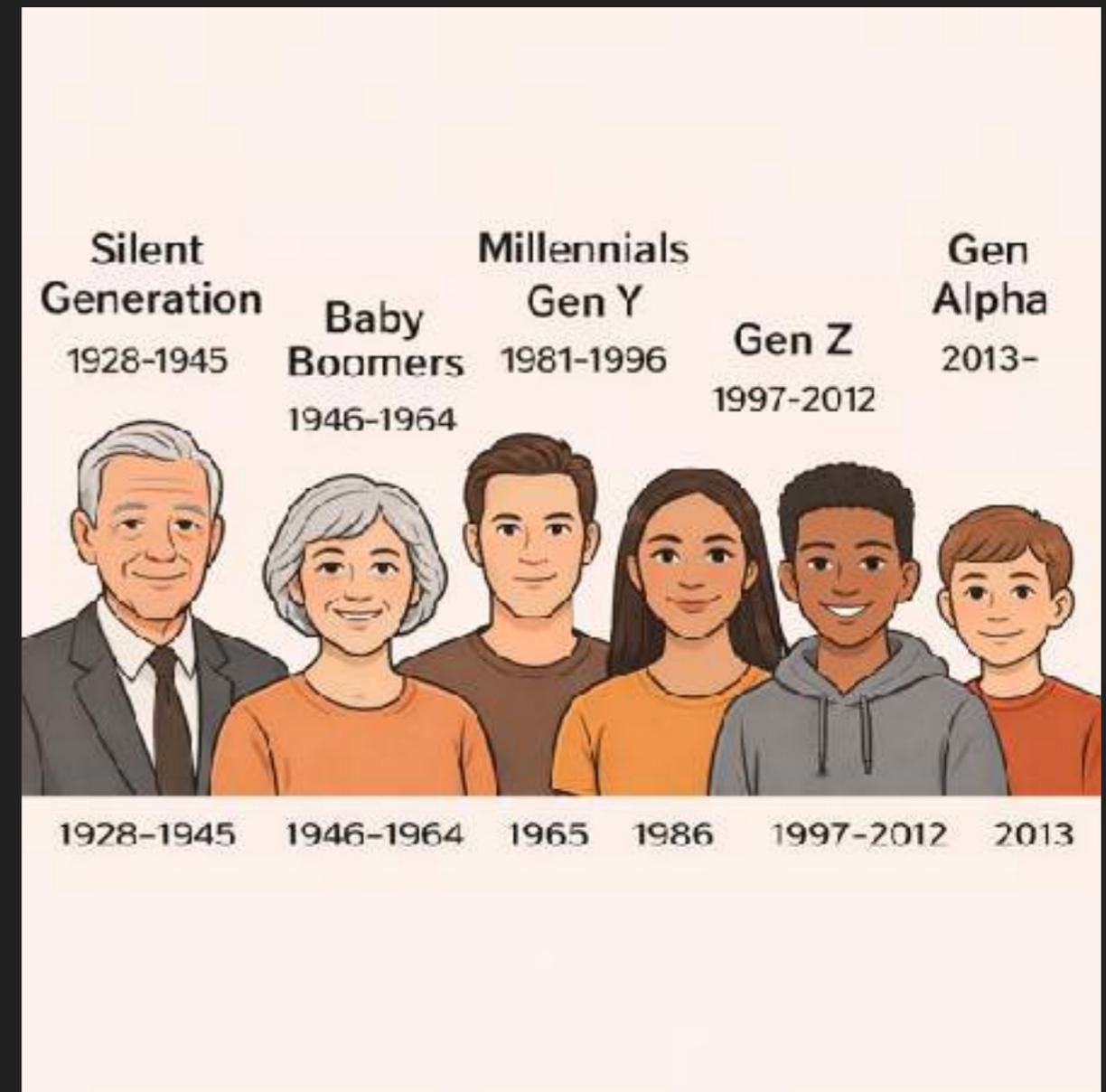
- ▶ 60-80 years old
- ▶ Strong work ethic
- ▶ Prefer face-to-face communication
- ▶ Tech-skeptic



20 YEARS LATER

GENERATION X

- ▶ 45-60 years old
- ▶ The “forgotten middle child”
- ▶ Good memory of pre-digital era
- ▶ Internet = basic necessity



20 YEARS LATER

MILLENIALS (GEN Y)

- ▶ 30-45 ans
- ▶ Grew up with early computers, dial-up internet, MSN Messenger, CDs
- ▶ Adaptable to technology
- ▶ Prefer work-life balance
- ▶ Value experiences (travel, cafés) more than material things



20 YEARS LATER

GEN Z

- ▶ 15-30 ans
- ▶ First truly digital native generation.
- ▶ Grew up with smartphones
- ▶ Social capital
- ▶ Independent learners



20 YEARS LATER

GENERATION ALPHA

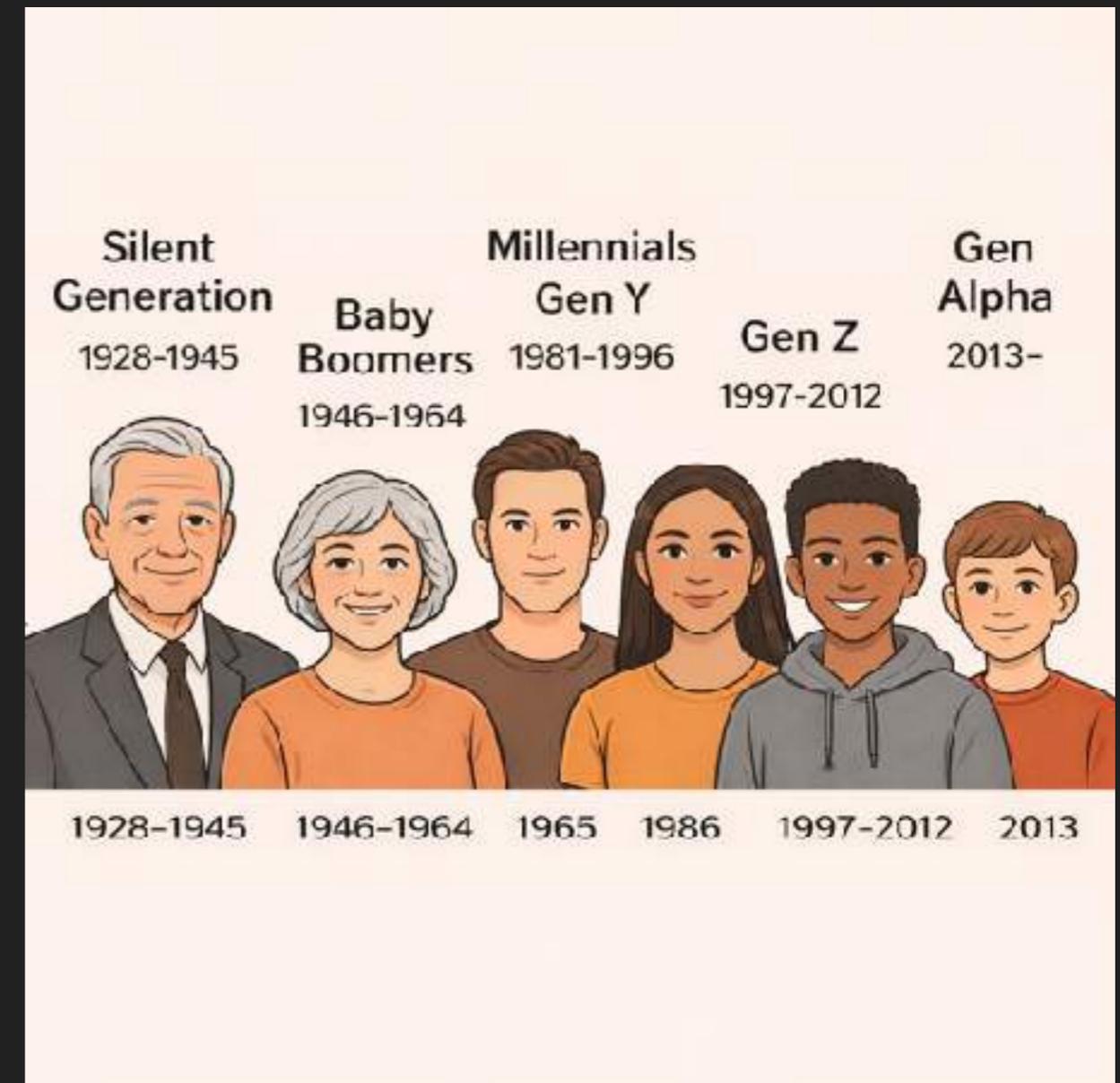
- ▶ 0 -12 ans
- ▶ Entirely born into an touchscreen / AI
- ▶ Very fast learners but attention spans
- ▶ Aware of global issues from a young age
- ▶ Supposedly the most educated generation in history ???



20 YEARS LATER

GENERATIONS

- ▶ Behaviour pattern
- ▶ Now in 2026
 - ▶ Mothers : GenZ
 - ▶ Kids : Gen Alpha
 - ▶ Born 2026 = Gen Beta



20 YEARS LATER

GEN Z , ALPHA – IMPACT OF DIGITALISATION

- ▶ No clue about life before internet
- ▶ Instant gratification.
- ▶ Digital identity. Likes and followers > real world
- ▶ Low frustration tolerance :
Effort is optional, sacrifice is meaningless



20 YEARS LATER

GEN Z , ALPHA

- ▶ Maternal age ↑ , Fertility ↓ ,
No children
- ▶ CS ↑ , BF ↓
- ▶ Home food ↓ , Gym ↑
- ▶ Cognitive consequences
- ▶ *Enfant roi*. Entitled. Blame culture.



20 YEARS LATER

SILENT NEUROTOXIN

- ▶ ADHD-like symptoms
- ▶ Autistic-like symptoms
- ▶ Emotional dysregulation
- ▶ Insomnia
- ▶ Addiction patterns
- ▶ Sedentary, eating disorders



20 YEARS LATER

SCREEN = SILENT NEUROTOXIN

Normal

Screen

Stimulation

Eye contact

Passive

Facial expression

Learn emotions

Low EQ

Emotional feedback

Responsive

Turn taking

Instant
gratification

20 YEARS LATER

“COVID BABIES COHORT”

- ▶ Born in 2020. Parents work for home.
- ▶ Digital babysitters
- ▶ ADHD and autistic features.
- ▶ Enfant roi
- ▶ Sleep disturbances



20 YEARS LATER

WHAT DOCTORS SHOULD DO

- ▶ Assess
 - ▶ Calculate and note screentime (include background TV)
 - ▶ Vocabulary,
 - ▶ Attention span,
 - ▶ Sleep
- ▶ Aggressive screen reduction
 - ▶ Identify the weak link
 - ▶ withdrawal symptoms
 - ▶ Need a real detox program
 - ▶ parent to take 2 weeks leave



20 YEARS LATER

WHAT DOCTORS SHOULD DO

- ▶ Re introduce
 - ▶ Play with child
 - ▶ Conversation and reading
 - ▶ Social interaction
 - ▶ Sports (team)
- ▶ Sleeping : melatonin ?
- ▶ Nutrition : ↓ sugars, ↓ vit C



20 YEARS LATER

GUIDELINES

		USA	UK = WHO
0-18 months	Videocalls only	0	0
18-24 months	Only educational	1h	1h
2-5 years	Education Interactive	1h week day 3h weekend day	1h
5-12 years	Recreational allowed	2h	2h

20 YEARS LATER

GUIDELINES (FRANCE)

0-3 ans	Proscrit		
3-6 ans	Deconseille et exceptionnelle	Adulte	Contenu éducatif
6-9 ans	Limite et encadre	Adulte	Pas d'écran personnel Pas d'accès d'internet seul
9-12 ans	Modere et encadre	Adulte si internet	Pas de réseau sociaux Pas d'IA generative
12 - 15ans	Autonomie avec controle parental	Adulte si internet	Pas de reseau sociaux

Source : Ministère de l'éducation nationale, de l'enseignement supérieur et de la recherche

20 YEARS LATER

COMBINATION WHO-UK-USA-FRANCE

	18mo	3 ans	6 ans	9 ans	12 ans	15 ans
Time		<1h wk day <3h we day		<2h		
Videocalls + high quality	✓					
Educational (with adult)		✓				
Recreational (with adult)			✓			
Alone (without internet)				✓		
Internet (parental control)					✓	
Social media						✓

20 YEARS LATER

PARADIGM SHIFT. TIMING => CONTENT

Digital Ecosystems, Children, and Adolescents: Policy Statement

Tiffany Munzer, MD, FAAP,¹ Joanna Parga-Belinkie, MD, FAAP,² Libby Matile Milkovich, MD, FAAP,³
Suzy Tomopoulos, MD, FAAP,⁴ Taiwo Ajumobi, DO,⁵ Corinn Cross, MD, FAAP,⁶ Roslyn Gerwin, DO,⁷
Sheri Madigan, PhD, R. Psych,^{8,9} and the Council on Communications and Media

PEDIATRICS Volume 157, Issue 2, February 2026:e2025075320

20 YEARS LATER

AAP - FEB 2026

- ▶ No universal time threshold in literature. (Not EBM)
- ▶ Cannot deny digital (r)evolution.
- ▶ Most consistent relationships : language delays and sleep disturbances
- ▶ Content - content - content

20 YEARS LATER

AAP - FEB 2026

Education - HQ	Commercial - LQ
Interactive	Just viewing
Time limit. 1 episode only	Endless scroll, autoplay
20-30 min	Short -> feeds algorithm
Allows offline	Online only
Learning (maths, language, ..)	Fast paced
Invites parents/caregivers	Distraction - Ads
Age specific	Difficult to exit

20 YEARS LATER

AAP – FEB 2026 (RECO FOR DR'S)

- ▶ 5 C's
 - ▶ Child's strength
 - ▶ Content
 - ▶ Calming tool
 - ▶ Crowding out
 - ▶ Communication kids-parents
- ▶ Rules at home
 - ▶ Screen free zones (bedroom, dining)
 - ▶ Screen free time (2h before bed)
 - ▶ Screen together
 - ▶ No background TV



20 YEARS LATER

AGE RECOMMENDATIONS

- ▶ When to get a phone ?
 - ▶ Teen digital literacy. LQ vs HQ
 - ▶ Truthful towards use
 - ▶ Parents master parental control apps
 - ▶ Phone ready questionnaire
- ▶ Social media account (legal)
 - ▶ Australia 16
 - ▶ Norway 13-15
 - ▶ EU 16
 - ▶ APP 13



20 YEARS LATER

AAP FEB 2026 – POLICY MAKERS

- ▶ Invest in 3rd spaces (libraries, green space, community areas, sport arenas)
- ▶ Parental leave
- ▶ Restrict long hours
- ▶ and more





AI

THE FINAL BLOW ?

20 YEARS LATER

AI THE FINAL BLOW ?

	BEFORE AI	AFTER AI
Neural effort	Thinking	Answering
Attention span	15 min	5 min
Memory	Useful	Outsourced
Language - writing	Essential	Pointless

20 YEARS LATER

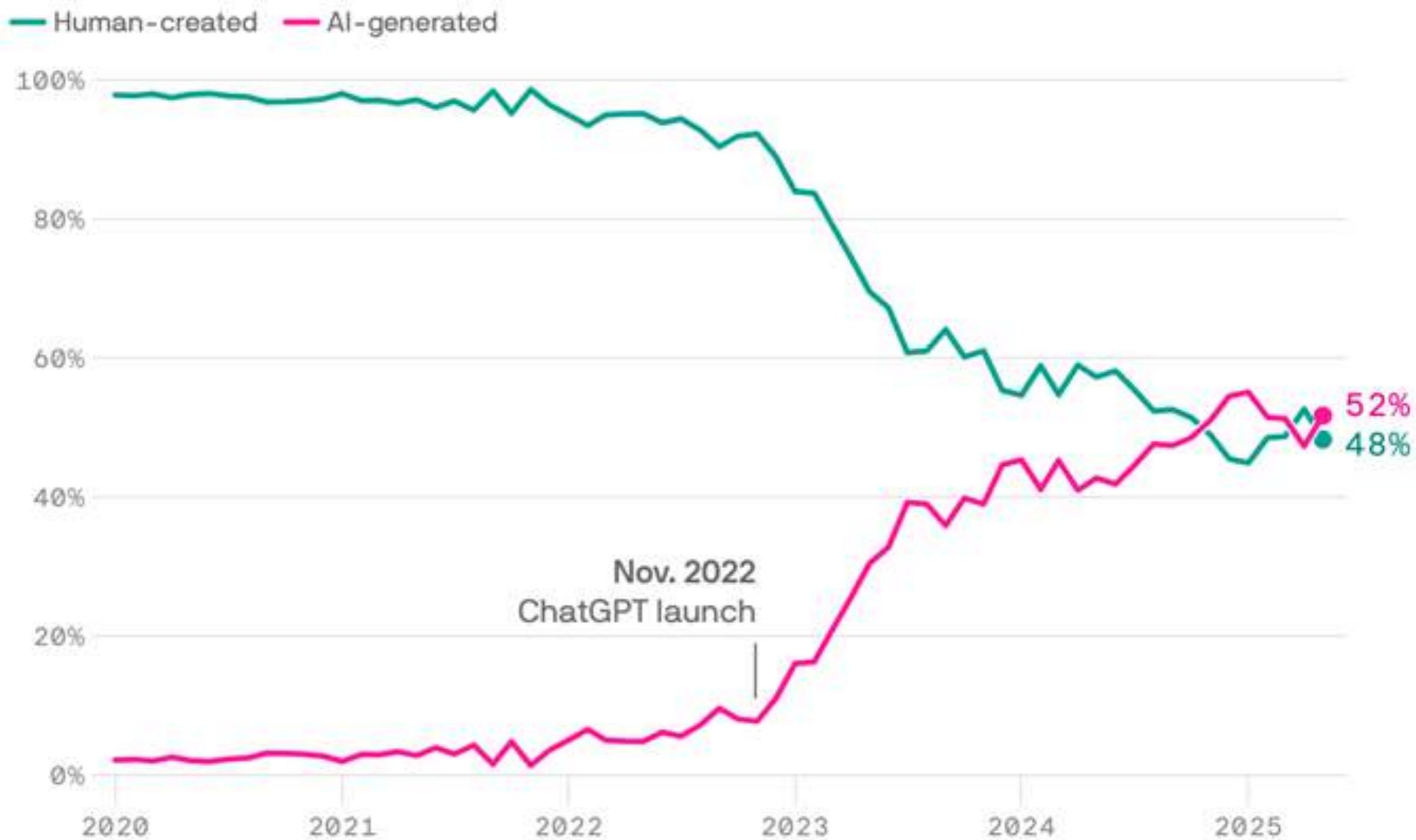
AI HALLUCINATIONS

- ▶ AI predicts what sounds correct
- ▶ Predicting leads to inventing
- ▶ Natural consequence - Not bug
- ▶ Fluent, coherent, and entirely false
- ▶ Cannot fact check - stay critical



Share of articles that were written by humans or generated by AI

Monthly, January 2020 to May 2025; Based on a sample of 65,000 English-language articles published online

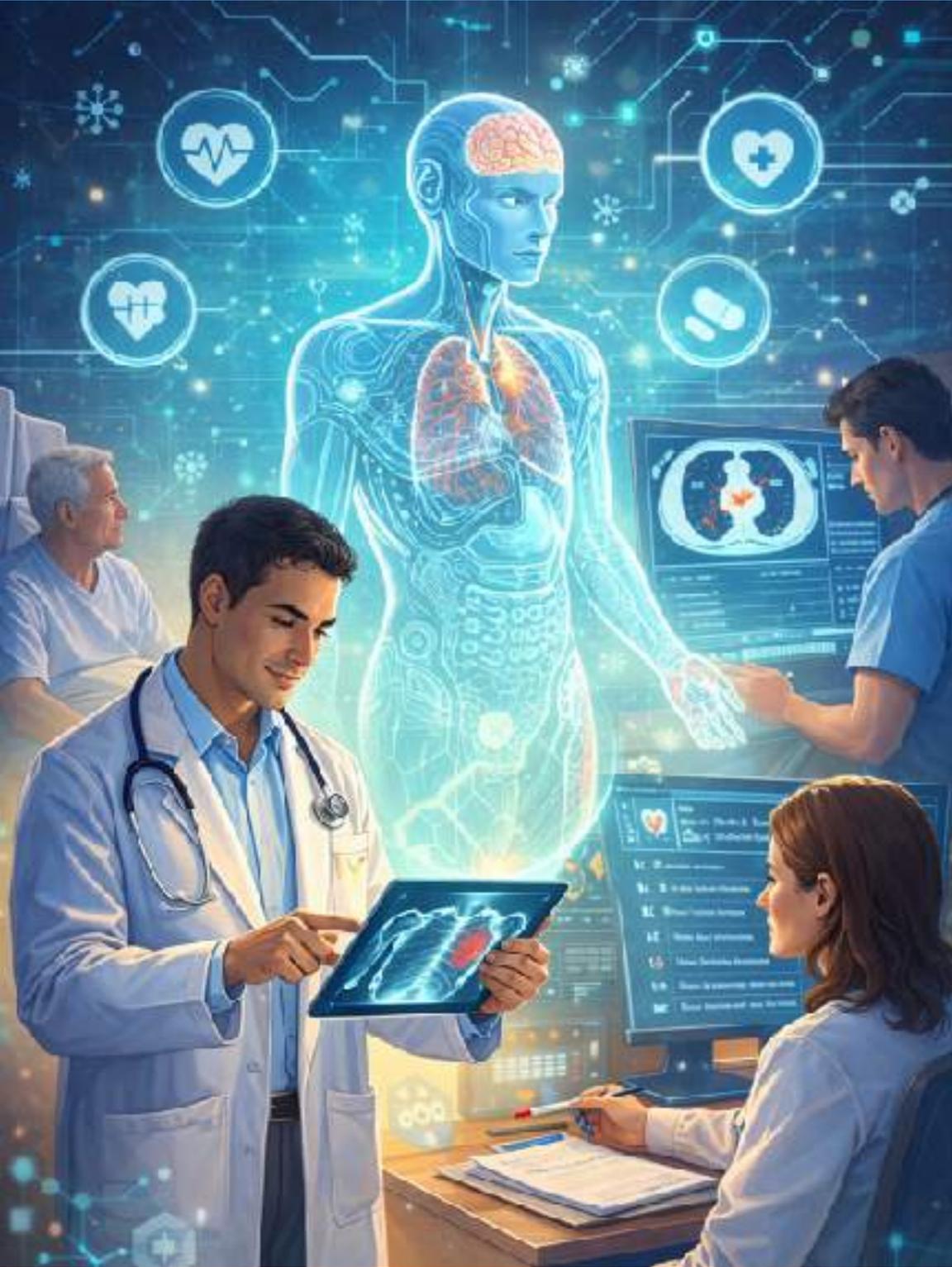


20 YEARS LATER

AI WITH CHILDREN

- ▶ AI used after thinking, not before
- ▶ Teach children to ask:
 - ▶ "How do I know this is true?"
 - ▶ "What could be wrong?"
- ▶ Adult mediation is essential
 - ▶ Supervise children
 - ▶ Supervise interns/young Dr's
 - ▶ Supervise AI





AI FOR DOCTORS

It gives an edge !

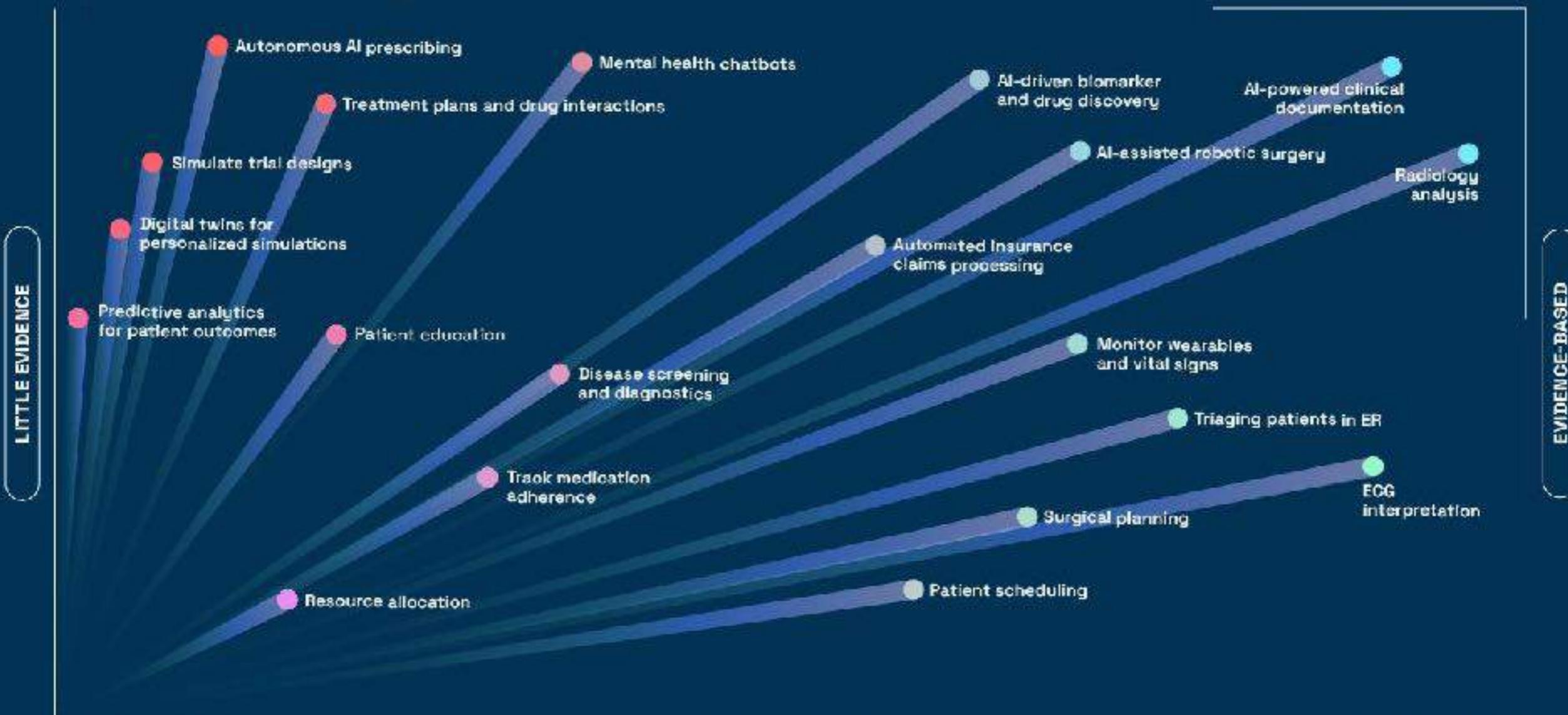
Navigating AI Use Cases in Healthcare

FROM HYPE TO EVIDENCE,
FROM SPECULATION TO SAFE BETS

Speculative & Risky

HIGH RISK

Handle With Care



On The Horizon

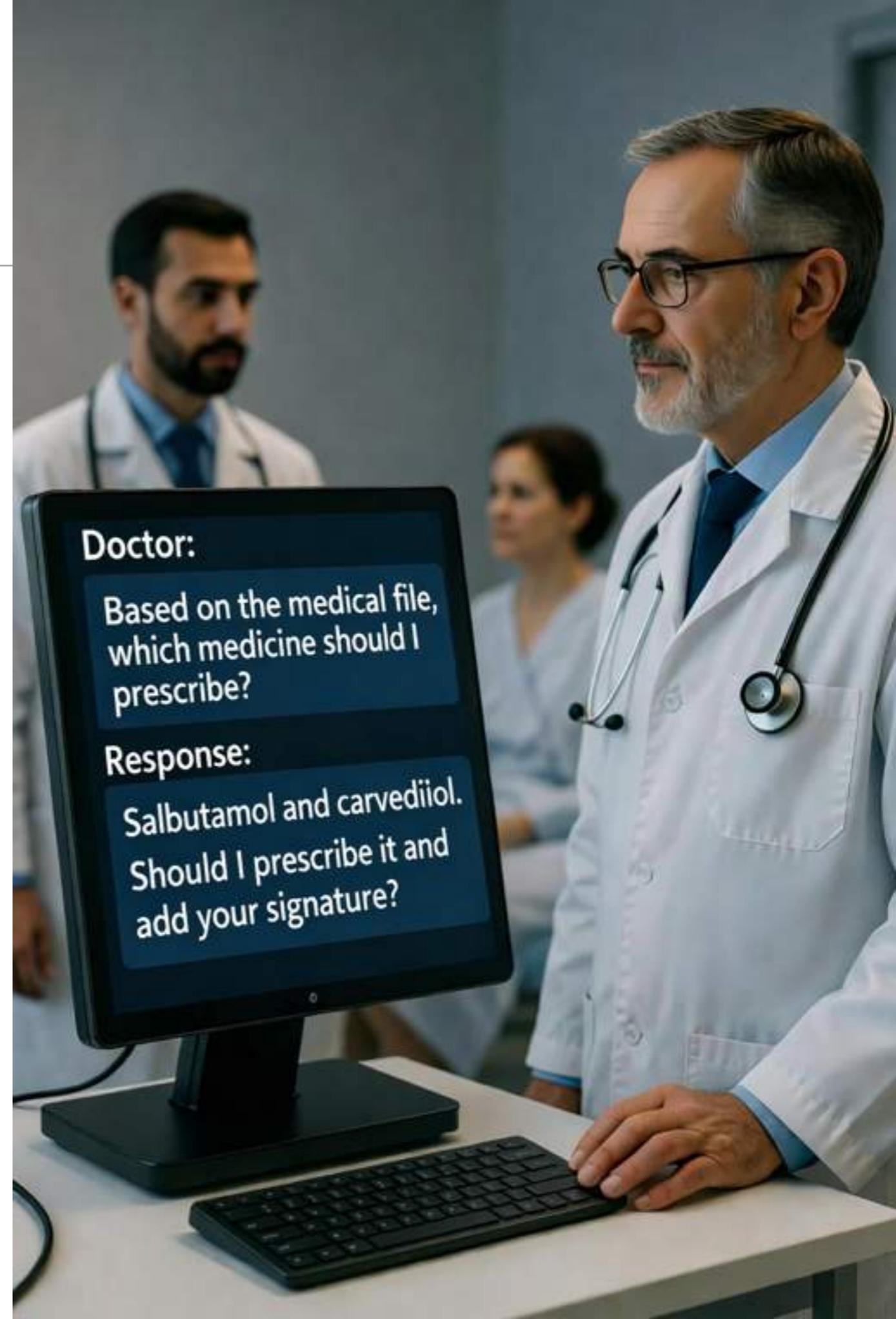
LOW RISK

Safe Bet

20 YEARS LATER

AI FOR DOCTORS

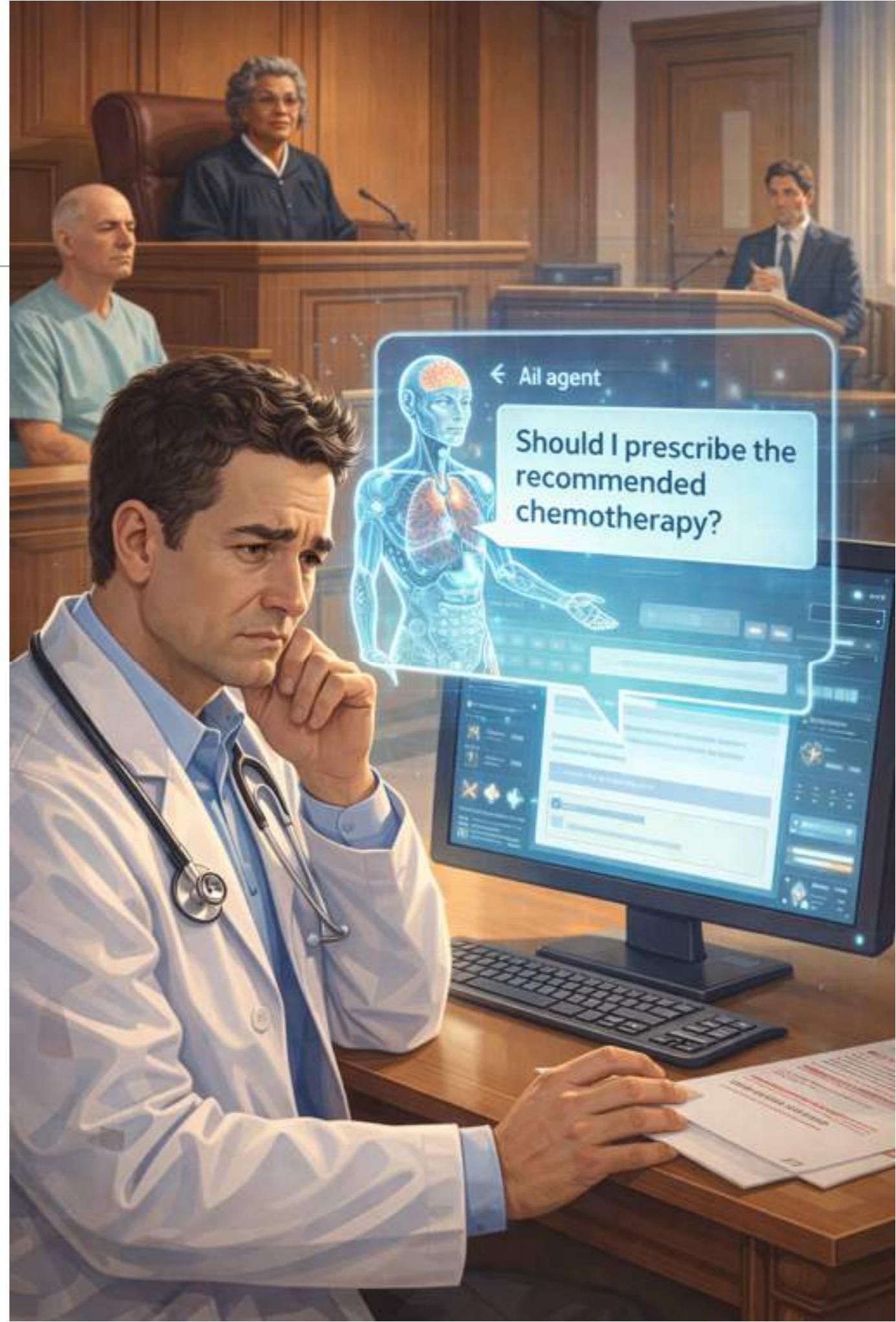
- ▶ Avoid the complete loop.
- ▶ Automate : Yes but not by AI
- ▶ Keep control. Manual entry for medicine



20 YEARS LATER

AI FOR DOCTORS = LIABILITIES

- ▶ AI assisted thinking ✓👍
- ▶ AI Hallucinations ➡ Medical errors
- ▶ Data Protection. Look for
 - ▶ GDPR-complaint (General Data)
 - ▶ HIPAA - compliant (Health Data)
 - ▶ Anonymise the input
- ▶ Check sources and read abstracts
Perplexity AI - research mode - 3 min

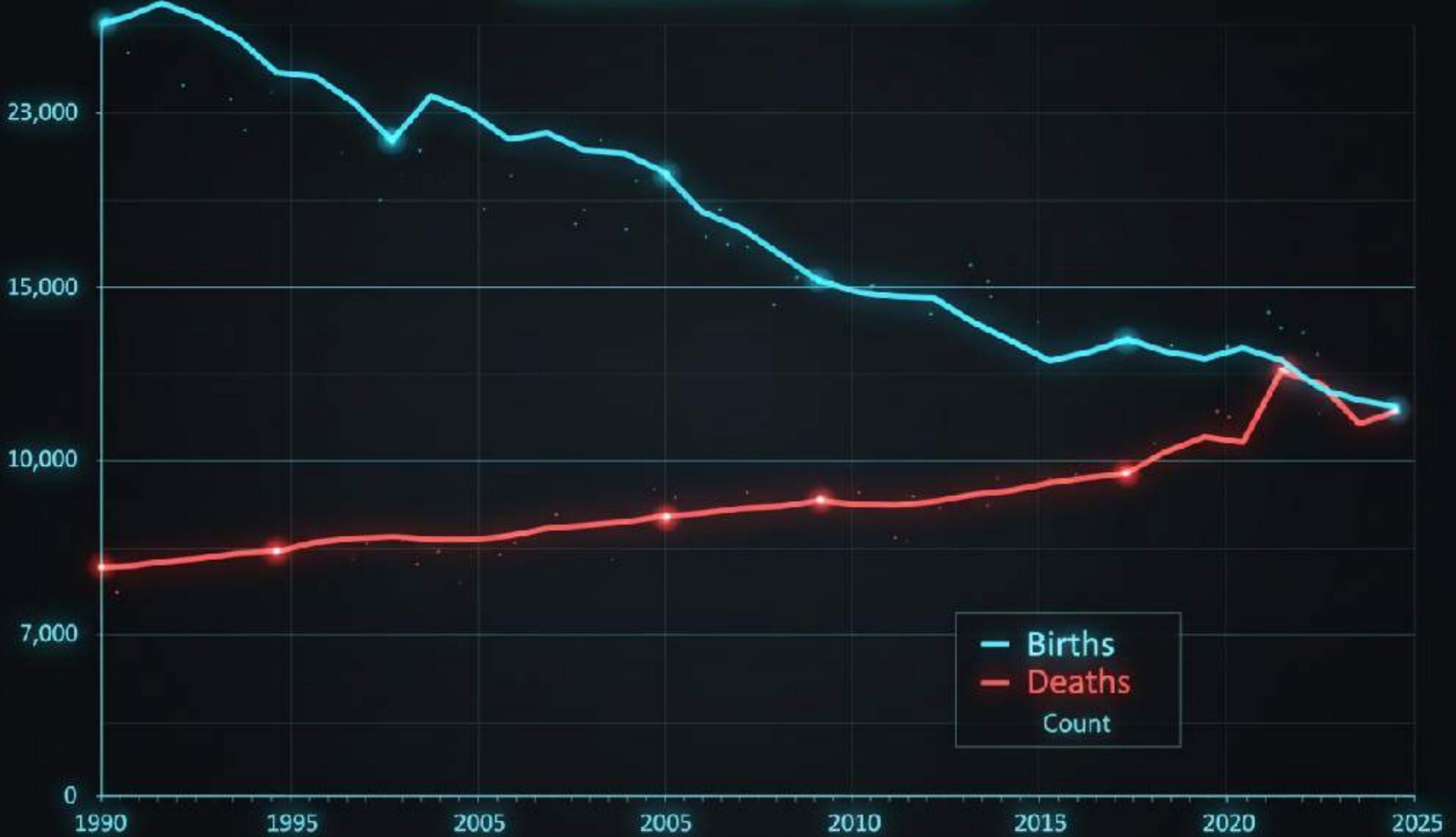


20 YEARS LATER

AGENDA

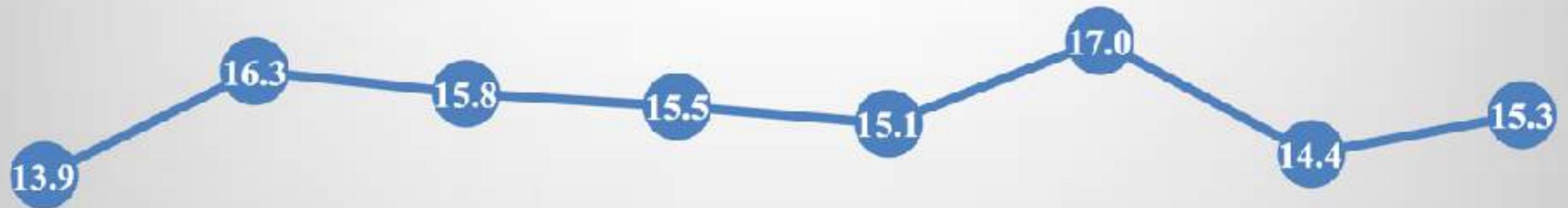
- ▶ Generations and behaviour patterns
- ▶ Silent neurotoxin
- ▶ AI risks vs opportunity
- ▶ Decreasing infant mortality rates

DEMOGRAPHIC TRENDS



ISLAND OF MAURITIUS

Under five mortality rate (per 10,000 livebirths) (2017-2024)



Source : Health Statistics Mauritius 2024

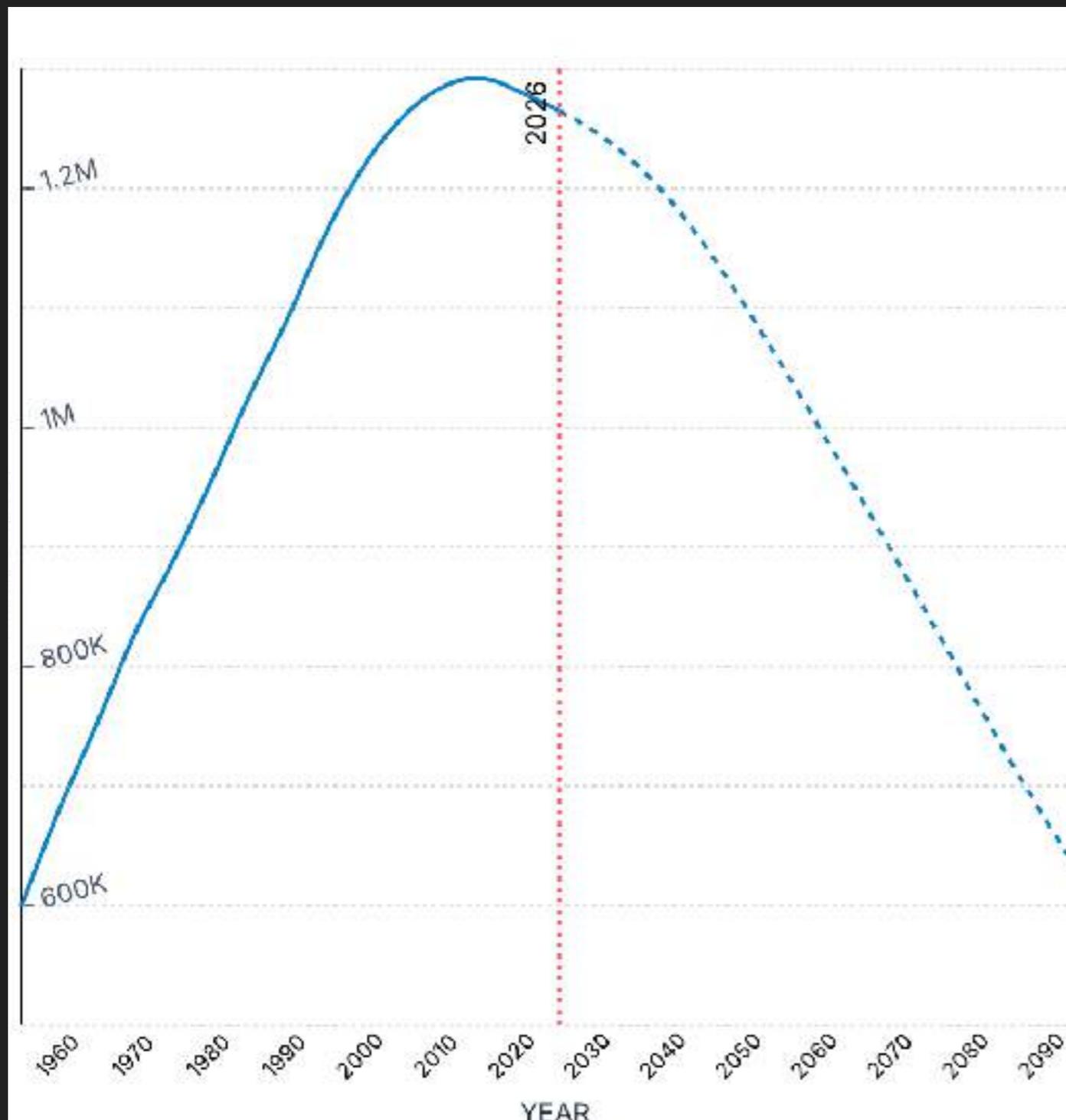
2017 2018 2019 2020 2021 2022 2023 2024



2017 2018 2019 2020 2021 2022 2023 2024

---●--- Still birth rate (per 1,000 total births) —●— Infant Mortality Rate (per 1,000 livebirths)

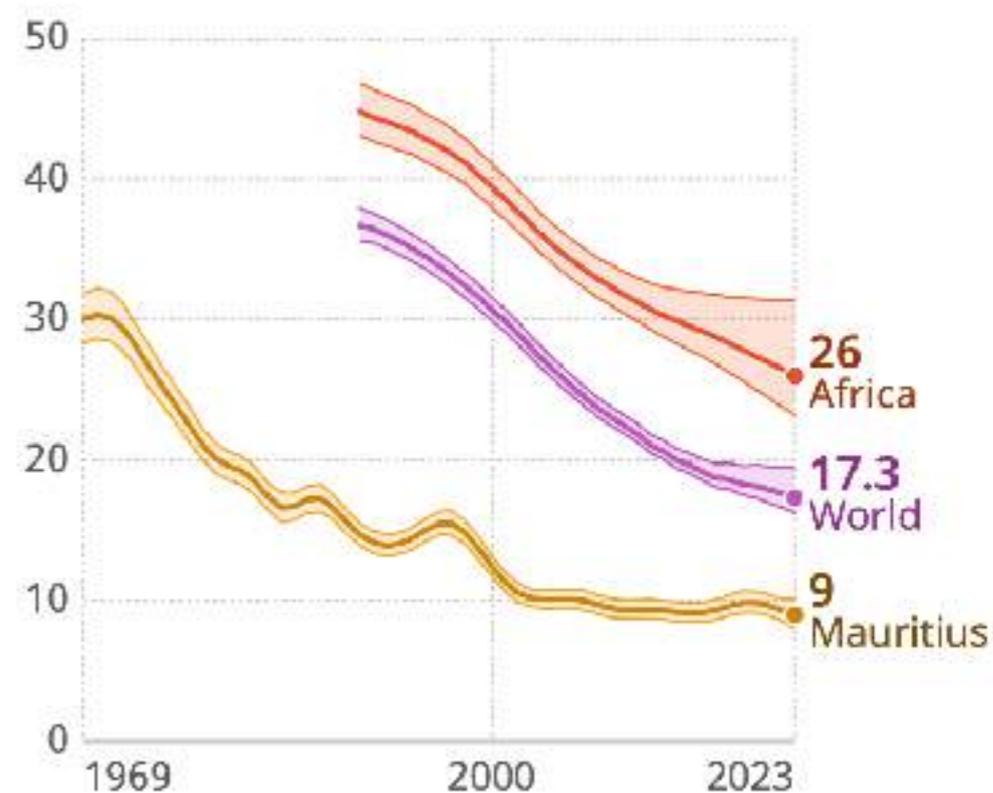
DEMOGRAPHICS



Source : WHO

In Mauritius, the **neonatal mortality rate (per 1000 live births)** has **improved by 21 deaths per 1000 live births** from 30 [28 - 32] in 1969 to **9** [8 - 10] in **2023**.

1969 – 2023

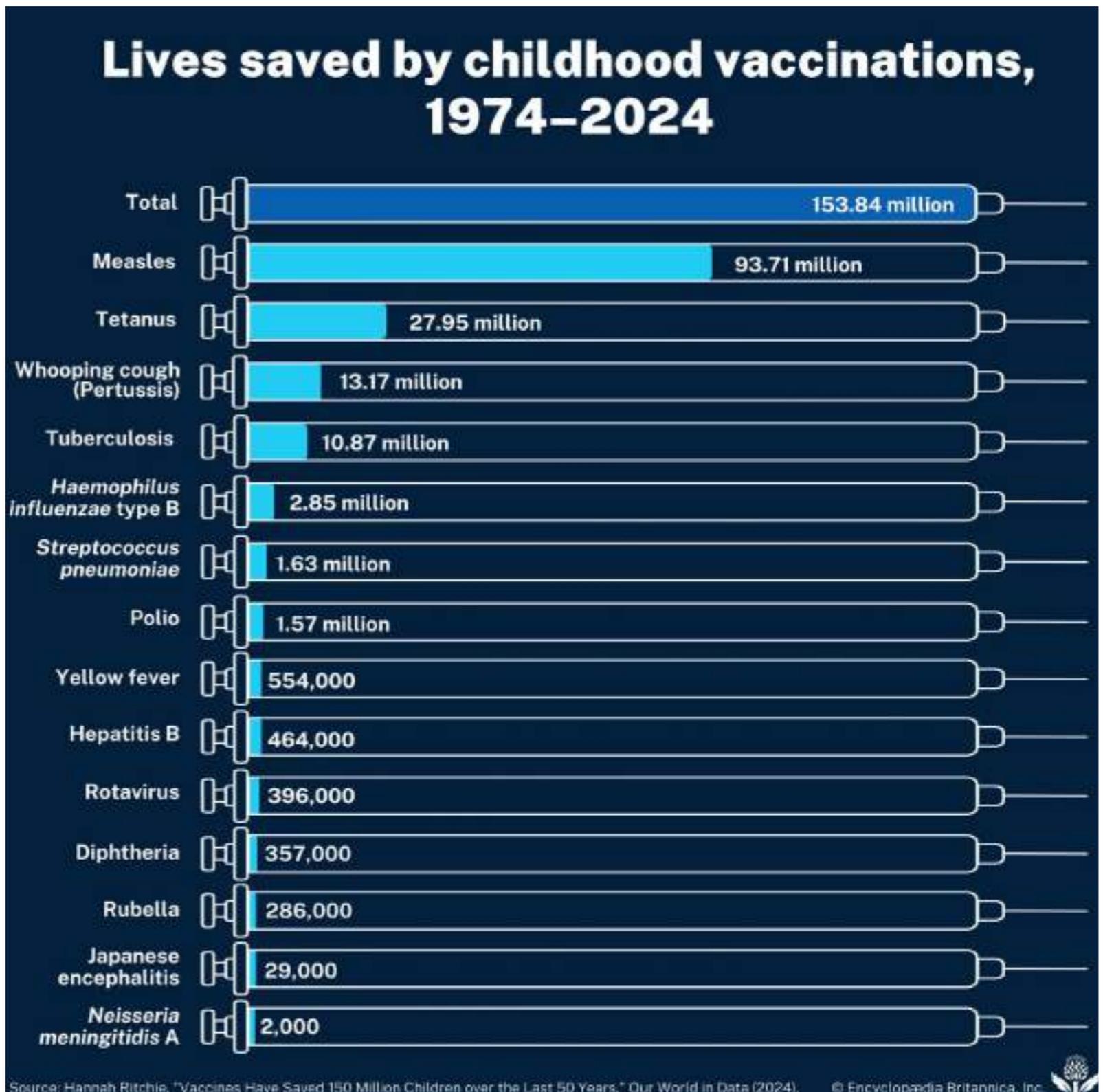


Source : WHO

20 YEARS LATER

VACCINES

▶ Saves lives

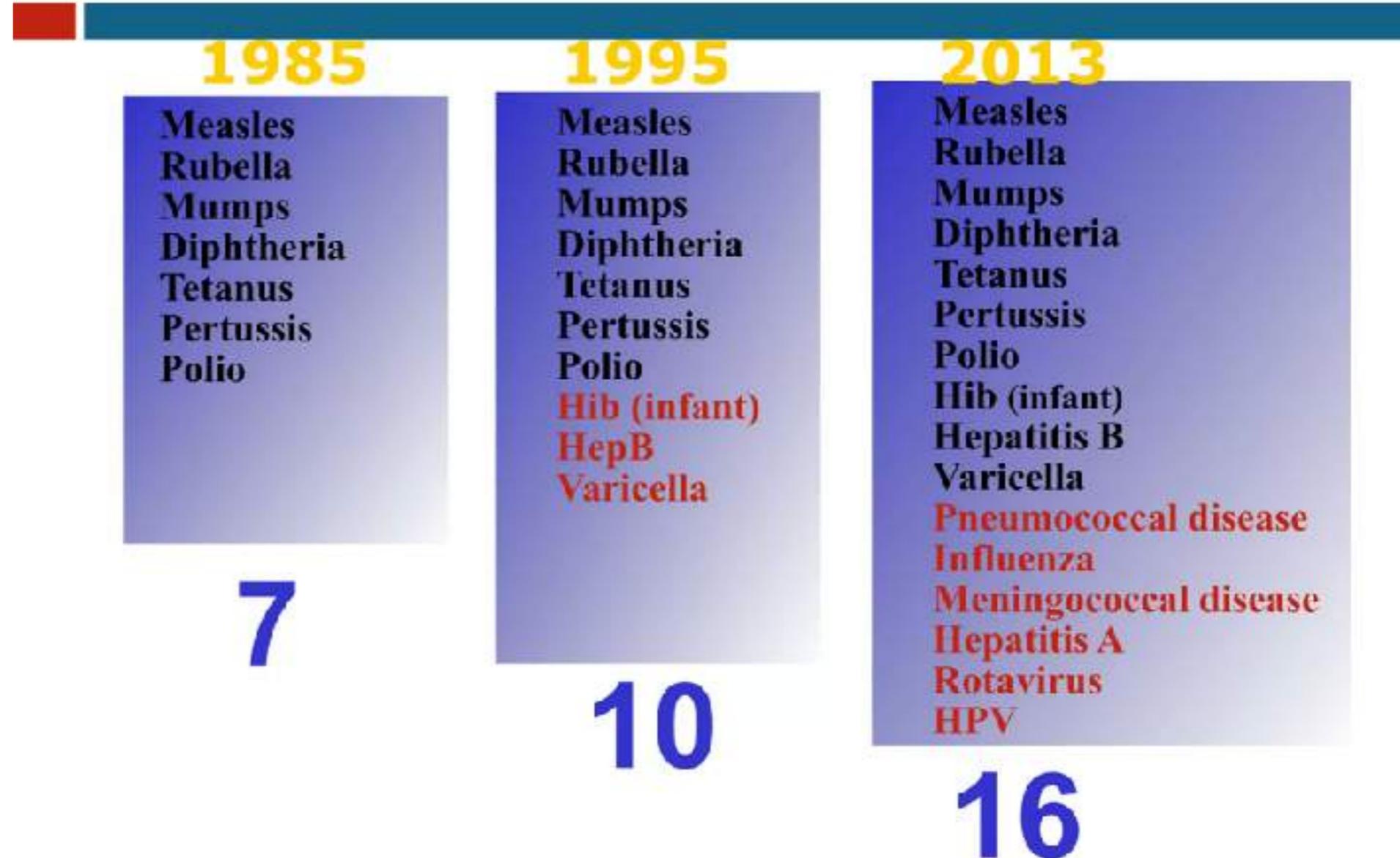


20 YEARS LATER

VACCINES

- ▶ Saves lives
- ▶ More and more

Vaccines Routinely Recommended for Children and Adolescents



20 YEARS LATER

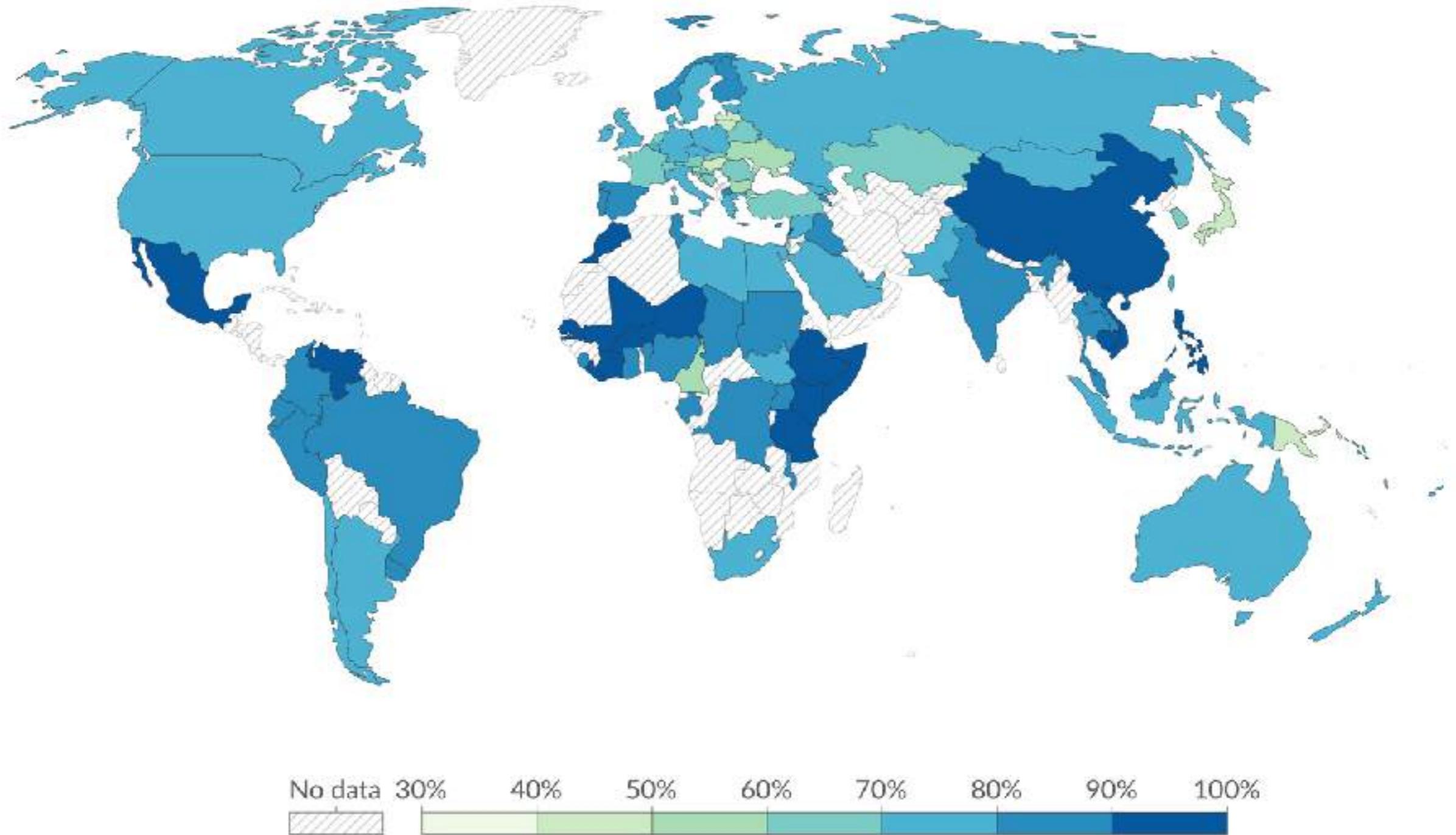
VACCINES

- ▶ Saves lives
- ▶ Anti-vax includes needle freak



Share who agree vaccines are important for children to have, 2025

The share of respondents who said they 'strongly agree' or 'tend to agree' with the statement vaccines are important for children.

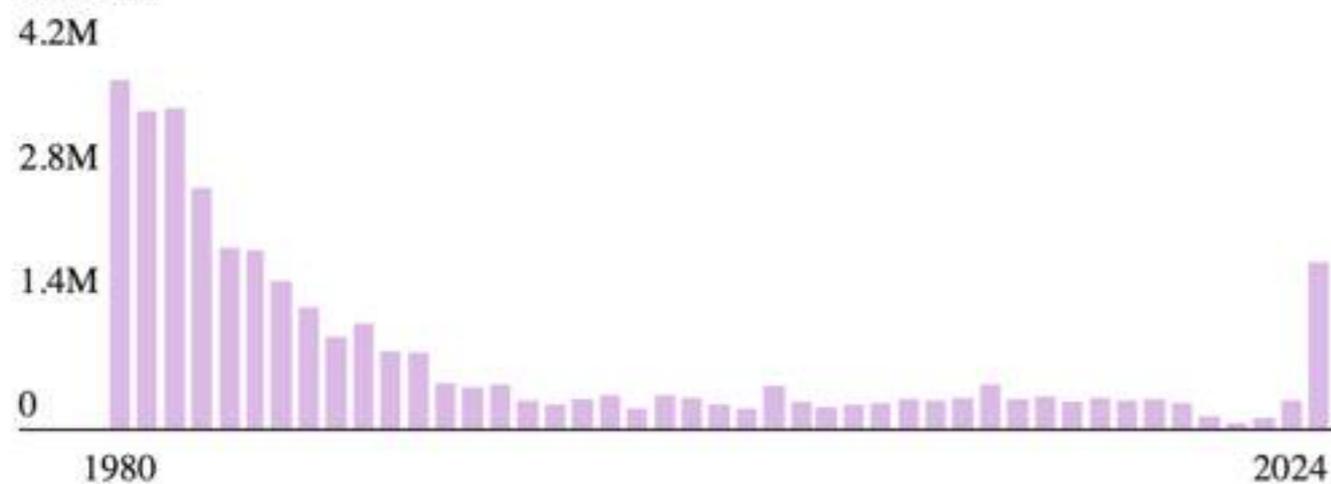


20 YEARS LATER

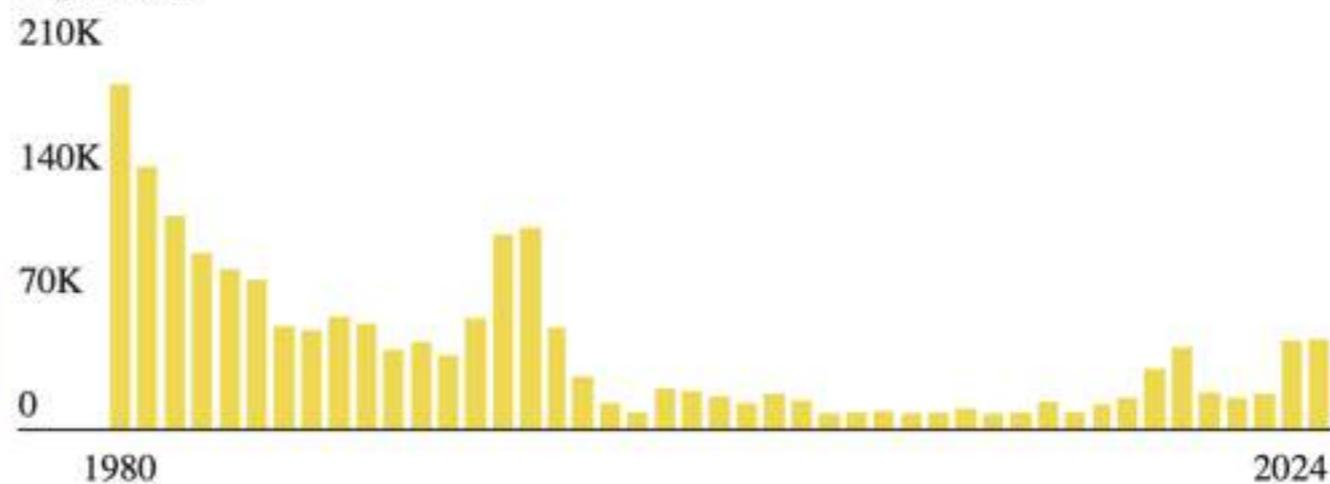
Vaccine-Preventable Disease Cases, Worldwide 1980–2024

Outbreaks of vaccine-preventable diseases have dropped significantly over the past four decades

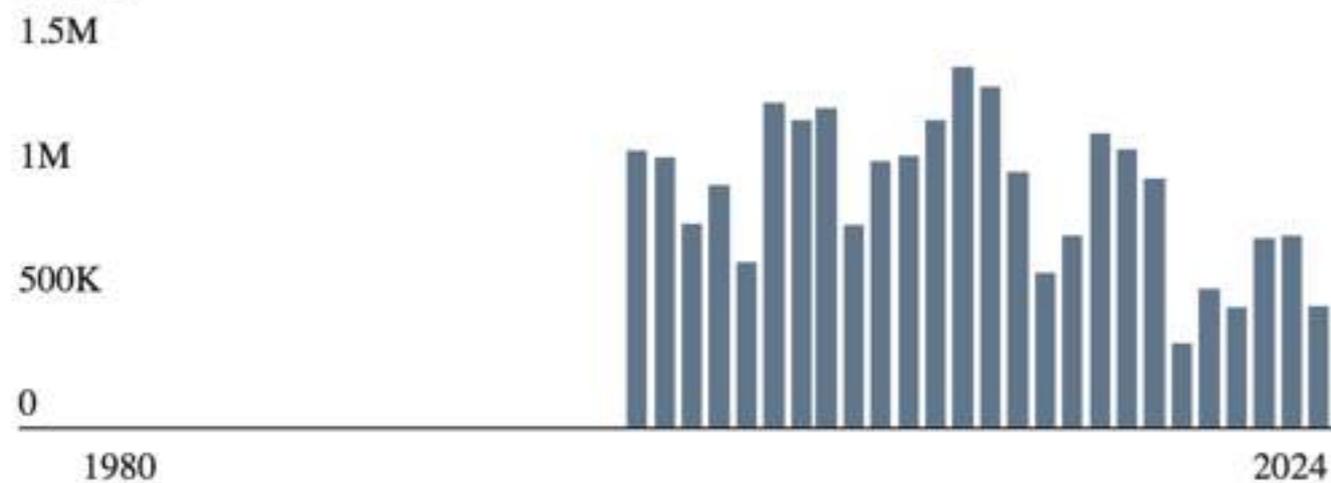
Pertussis



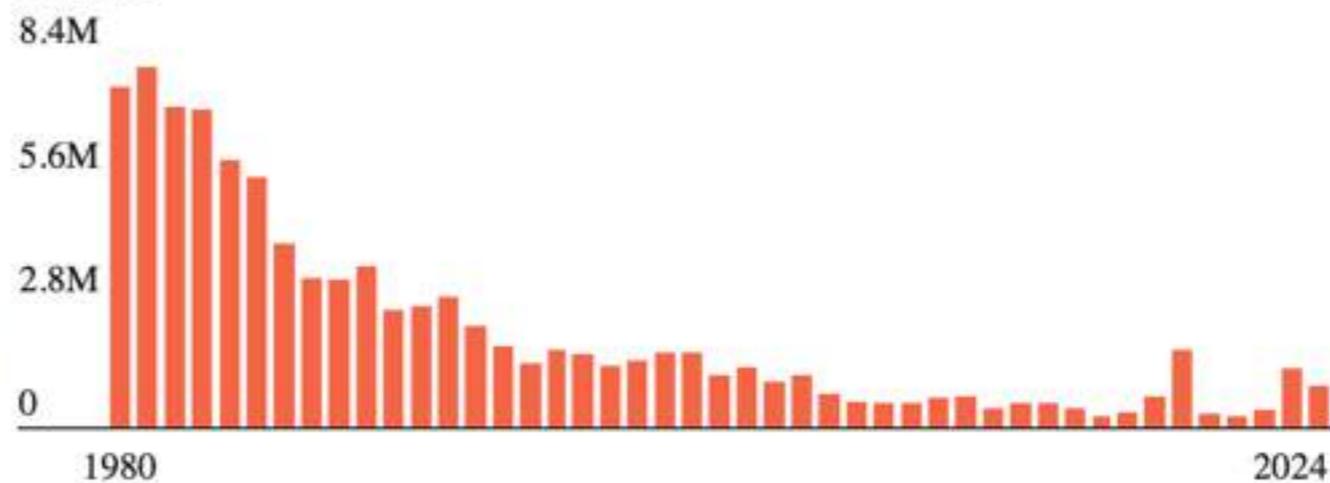
Diphtheria



Mumps

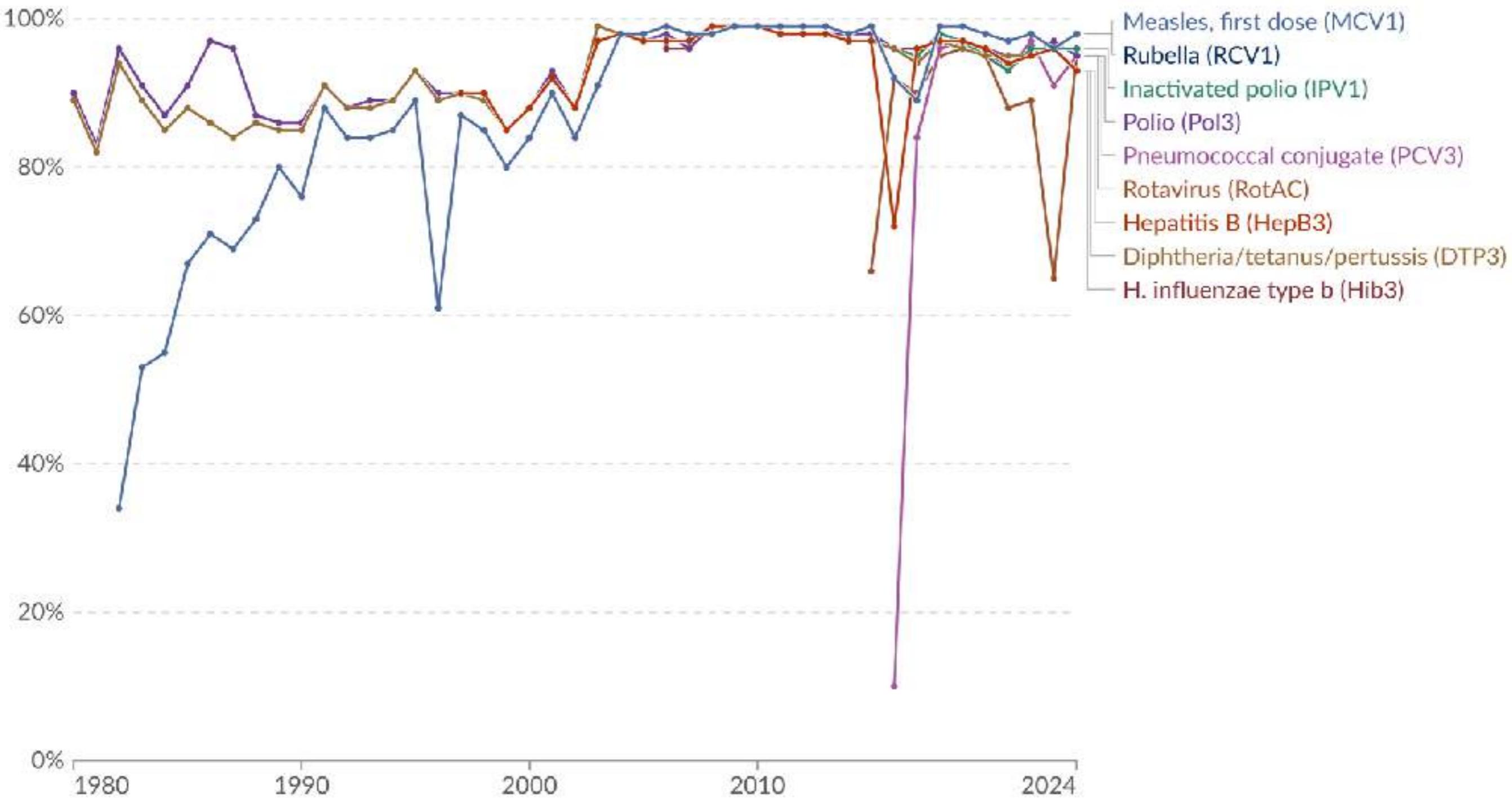


Measles



Share of children vaccinated, by vaccine, Mauritius

Share of one-year-olds who have been vaccinated against a disease or a pathogen.



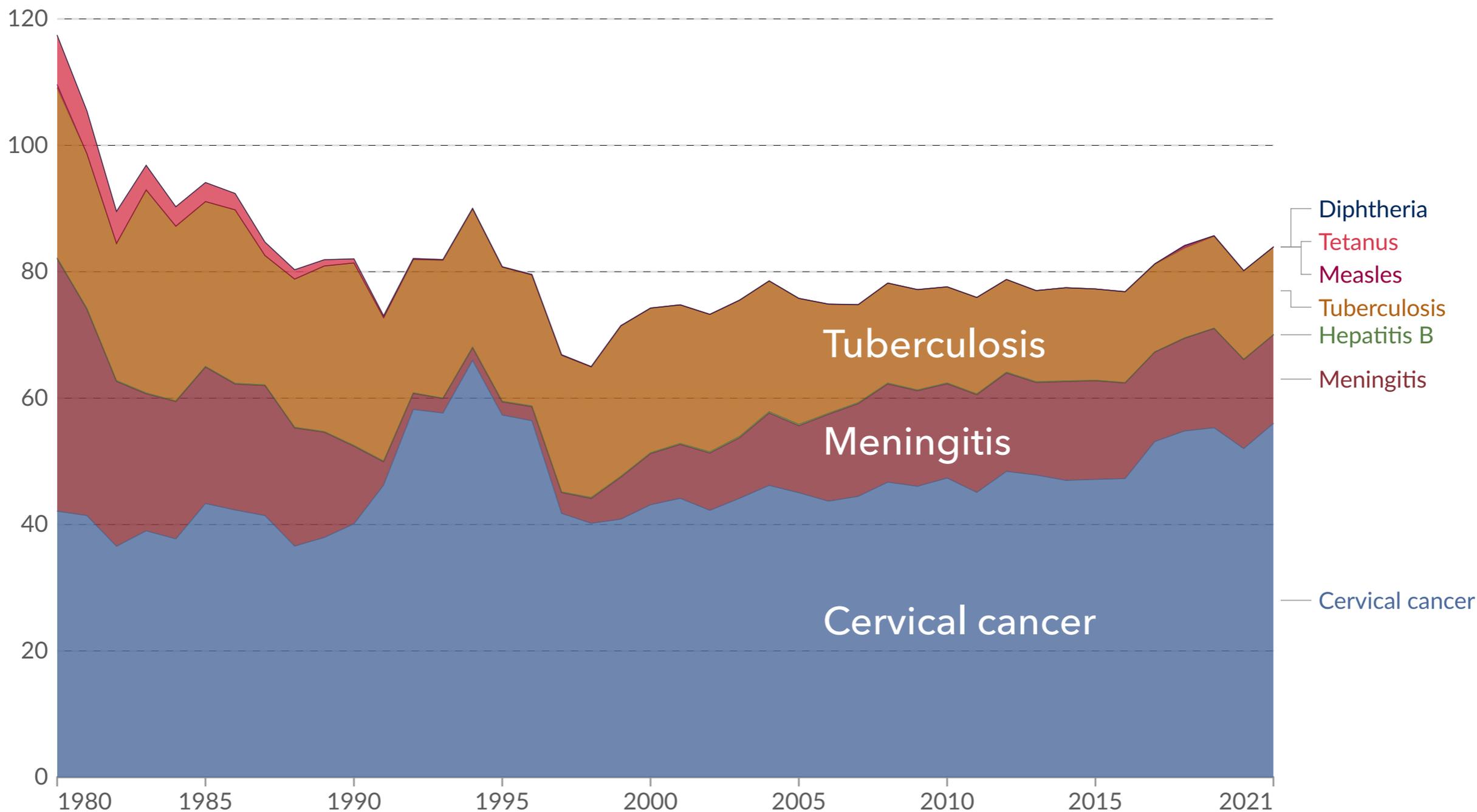
Data source: WHO & UNICEF (2025); UN, World Population Prospects (2024)

OurWorldinData.org/vaccination | CC BY

Note: This includes diphtheria¹, pertussis² and tetanus³ (3rd dose), measles⁴ (1st dose), hepatitis B⁵ (3rd dose), polio⁶ (3rd dose), Haemophilus influenzae b (3rd dose), rubella⁷ (1st dose), rotavirus⁸ (final dose), pneumococcal conjugate (3rd dose), and inactivated polio⁹ (first dose).

Deaths caused by vaccine-preventable diseases, Mauritius

The estimated annual number of deaths caused by several vaccine-preventable diseases, based on statistical modeling. Estimates come with wide uncertainties, especially for countries with poor vital registration¹.



Data source: IHME, Global Burden of Disease (2024)

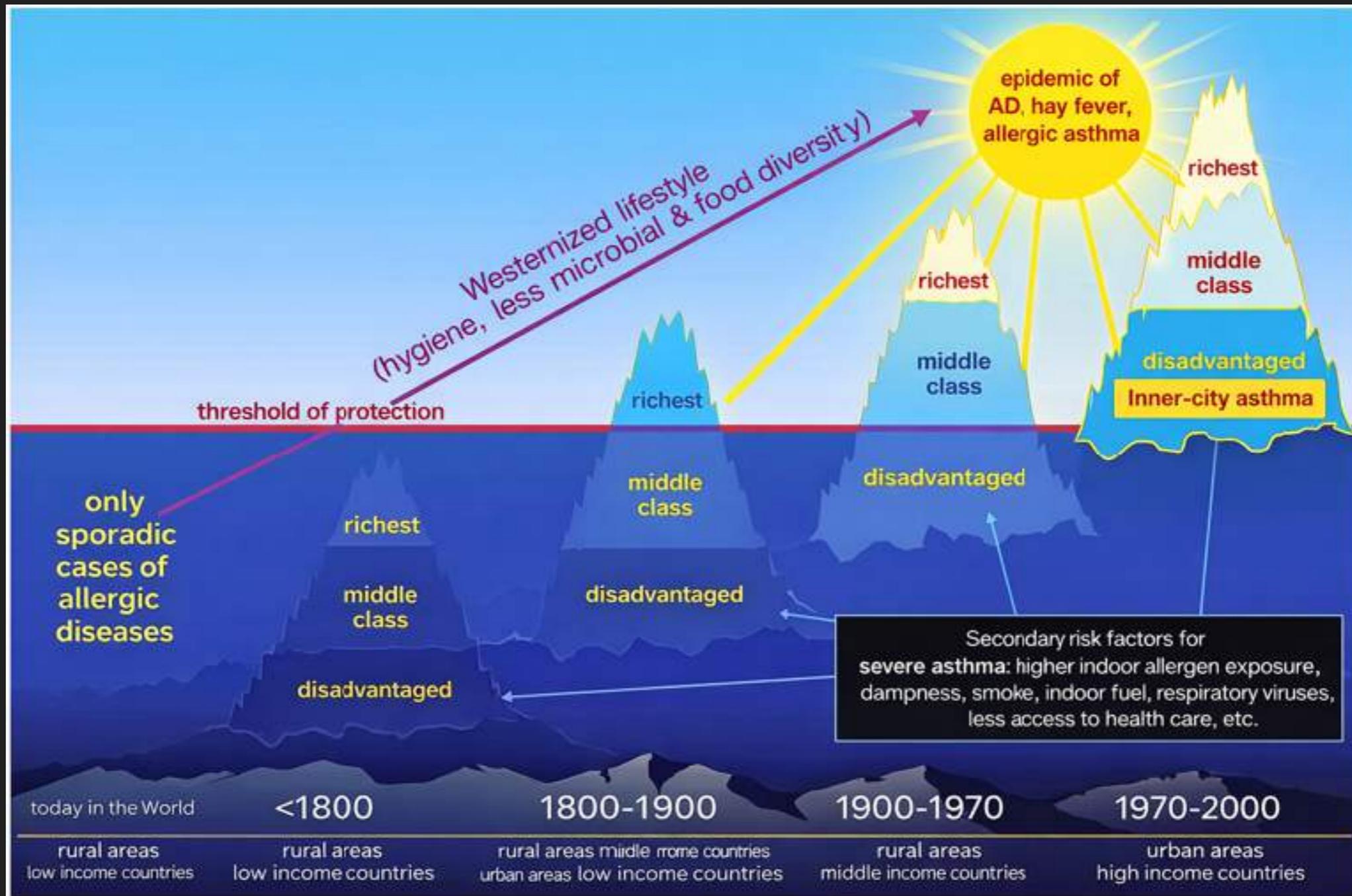
OurWorldinData.org/vaccination | CC BY

1. Civil Registration and Vital Statistics system A Civil Registration and Vital Statistics system (CRVS) is an administrative system in a country that manages information on births, marriages, deaths and divorces. It generates and stores 'vital records' and legal documents such as birth certificates and death certificates.

You can read more about how deaths are registered around the world in our article: [How are causes of death registered around the world?](#)

20 YEARS LATER

ALLERGIES





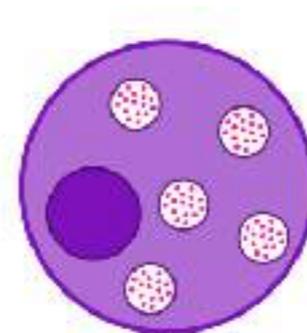
Basophil



Basophil activated



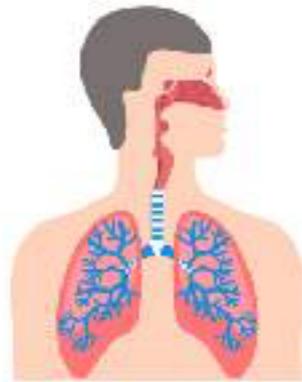
Basophil degranulation



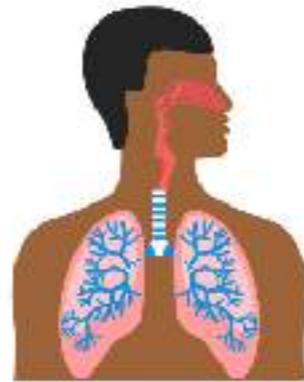
Mast cell



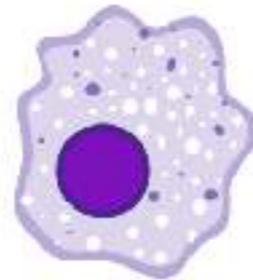
Mast cell degranulation



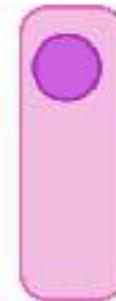
Lungs and airways



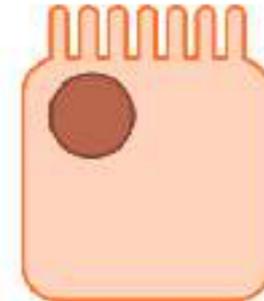
Lungs and airways 2



Macrophage



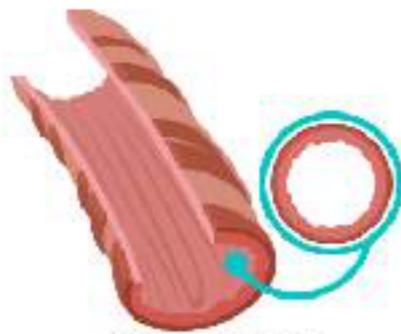
Blood vessel cell



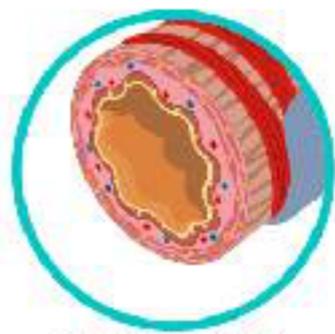
Epithelial cell



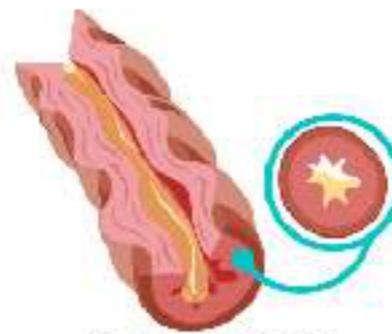
Heredity



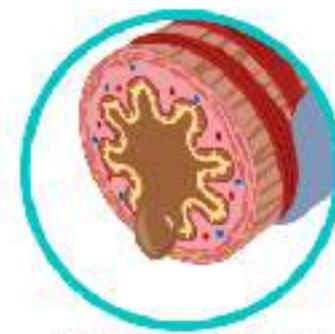
Normal airway



Normal airway 2



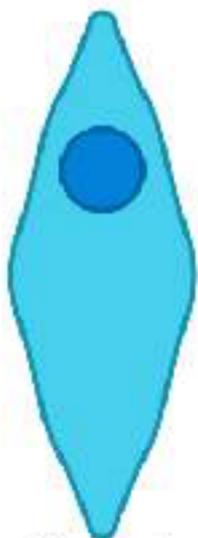
Asthmatic airway



Asthmatic airway 2



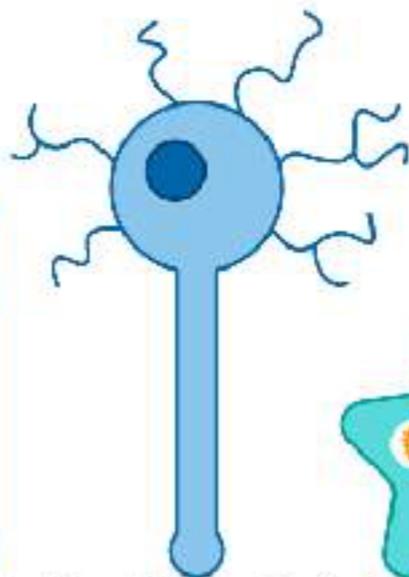
Human fetus



Fibroblast



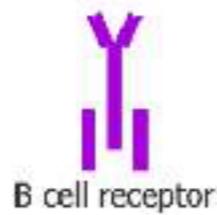
Lymph node cell



Nerve cell



Antigen-presenting cell



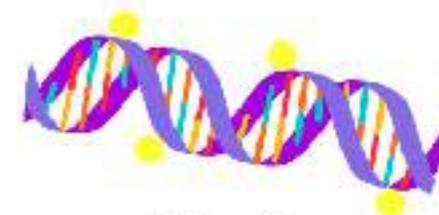
B cell receptor



Receptor FcεRI



CD63



Epigenetics



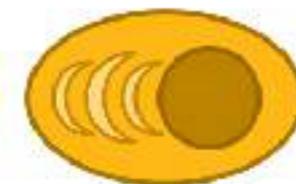
Neutrophil cell



B cell



Eosinophil



Plasma cell

20 YEARS LATER

ALLERGIES

- ▶ Increasing trend.
- ▶ Allergology : very specialised
- ▶ LEAP and EAT study
- ▶ Weaning

Welcome to Our **Specialised** Allergy Unit

We're committed to finding the right treatments to change the lives of our patients and their families.

If you're struggling with allergies, give us a call or read further to find out how we can help you!

[MAKE AN APPOINTMENT NOW](#)

20 YEARS LATER

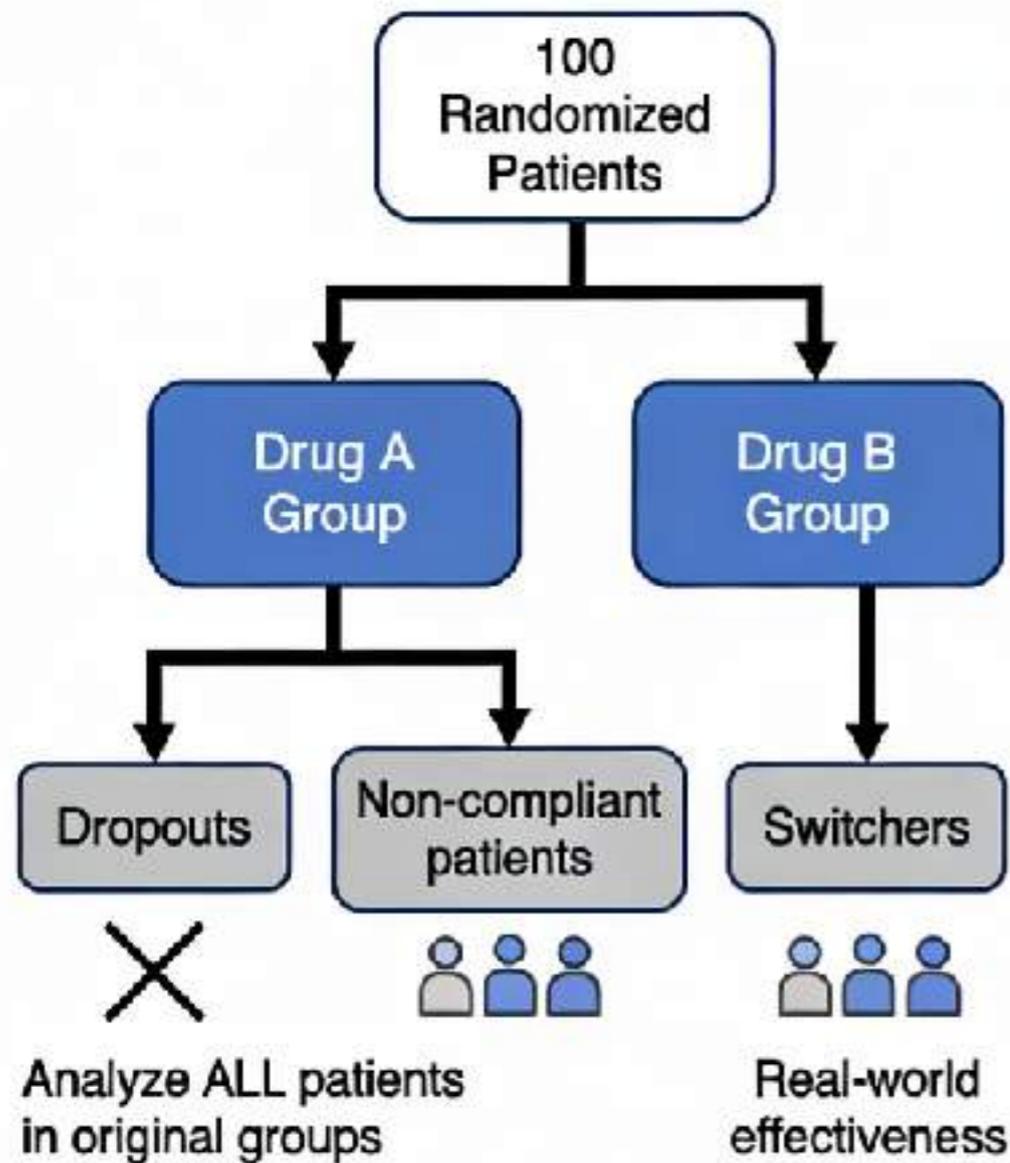
LEAP STUDY : GIVING "PEANUT" TO BABIES —> PEANUT ALLERGIES AT 5 YEARS

4-11 months babies

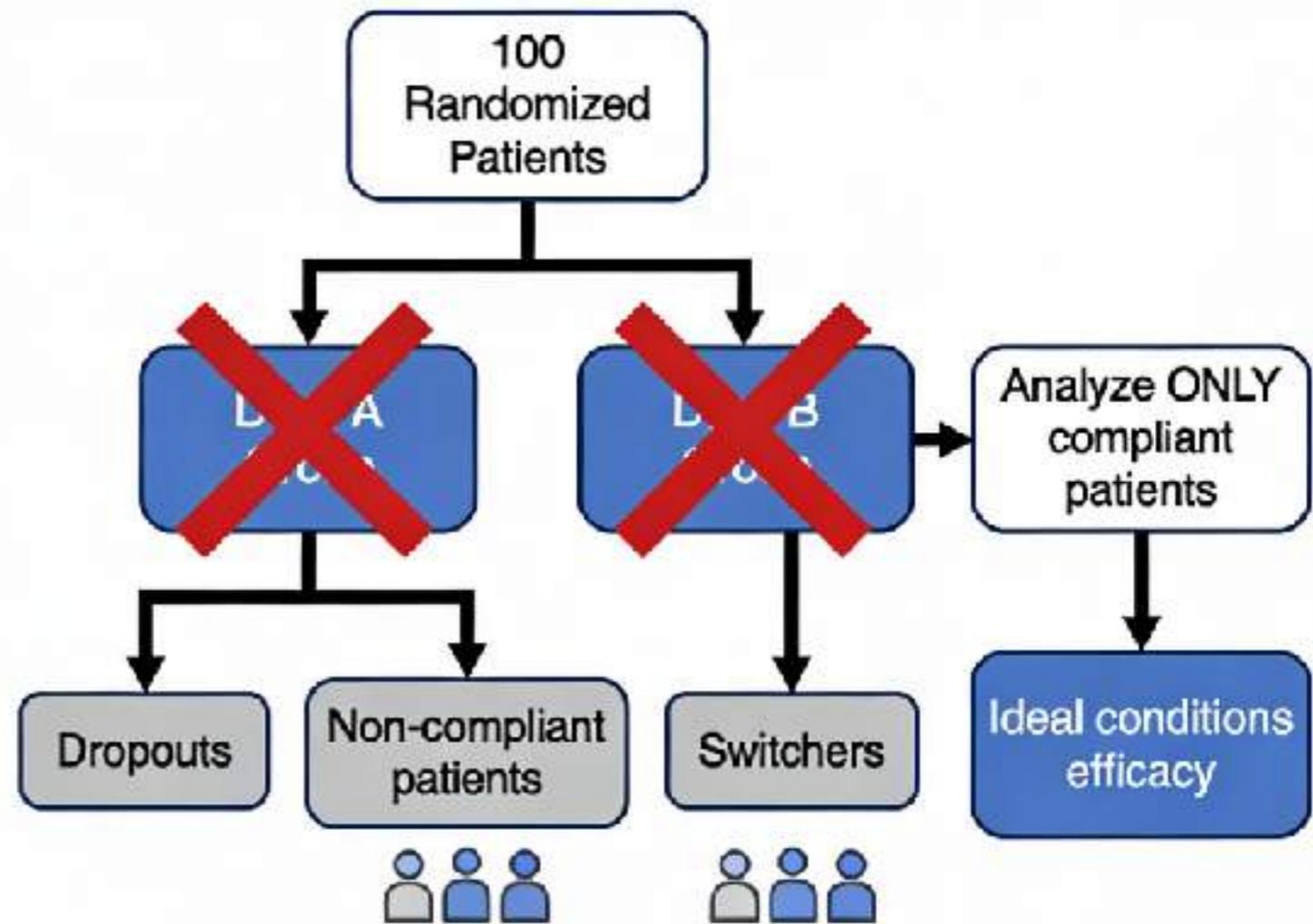
834 → 640 included

Allergic already (Skin Prick test)	542 (-) No allergy		98 (+) Allergic	
Peanut Avoidance vs Consumption	270 A	272 C	51A	47C
Intention to treat analysis (p<0.05)	14% Allergic	2%	36% Allergic	11%
Per protocol analysis (p<0.05)	14% Allergic	0.4%	34% Allergic	0.0%

ITT - Intention to Treat



PP - Per-Protocol



ITT = Gold standard for superiority trials | PP = Important for non-inferiority trials

20 YEARS LATER

LEAP STUDY

▶ INTENTION-TO-TREAT (ITT)

- ▶ "ONCE RANDOMISED = ALWAYS ANALYSED"
- ▶ Even if non compliant or switched

▶ PER PROTOCOL ANALYSIS

- ▶ "ONLY THOSE WHO FOLLOWED THE PLAN"
- ▶ Complaint to protocol
- ▶ Shows ideal / best-case efficacy

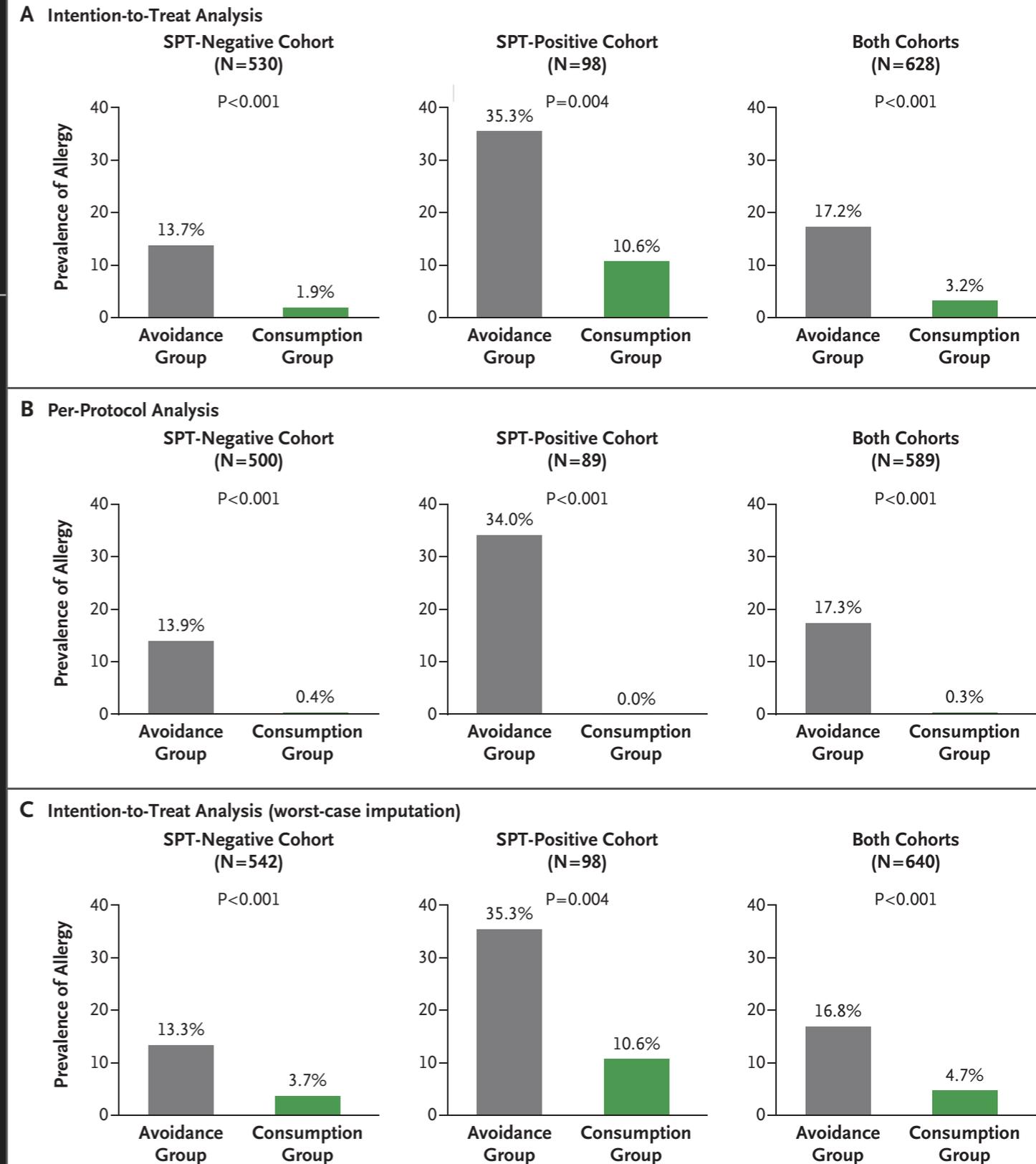


Figure 2. Primary Outcome.

The prevalence of peanut allergy at 60 months of age is shown among participants who had a negative result on the skin-prick test at baseline, among those who had a positive result at baseline, and in both groups combined, in the intention-to-treat analysis (Panel A) and the per-protocol analysis (Panel B). Among the 640 participants who underwent randomization, peanut-allergy status was determined by means of an oral food challenge in 617 (96.4%) and by means of a diagnostic algorithm in 11 (1.7%). Peanut allergy could not be evaluated with the use of the diagnostic algorithm in 2 participants (0.3%). A total of 10 participants (1.6%) voluntarily withdrew or were lost to follow-up. The worst-case imputation analysis (Panel C) assumes that participants with missing data in the peanut-consumption group would have been allergic to peanuts and that participants with missing data in the peanut-avoidance group would have been nonallergic. P values are based on chi-square analyses.

20 YEARS LATER

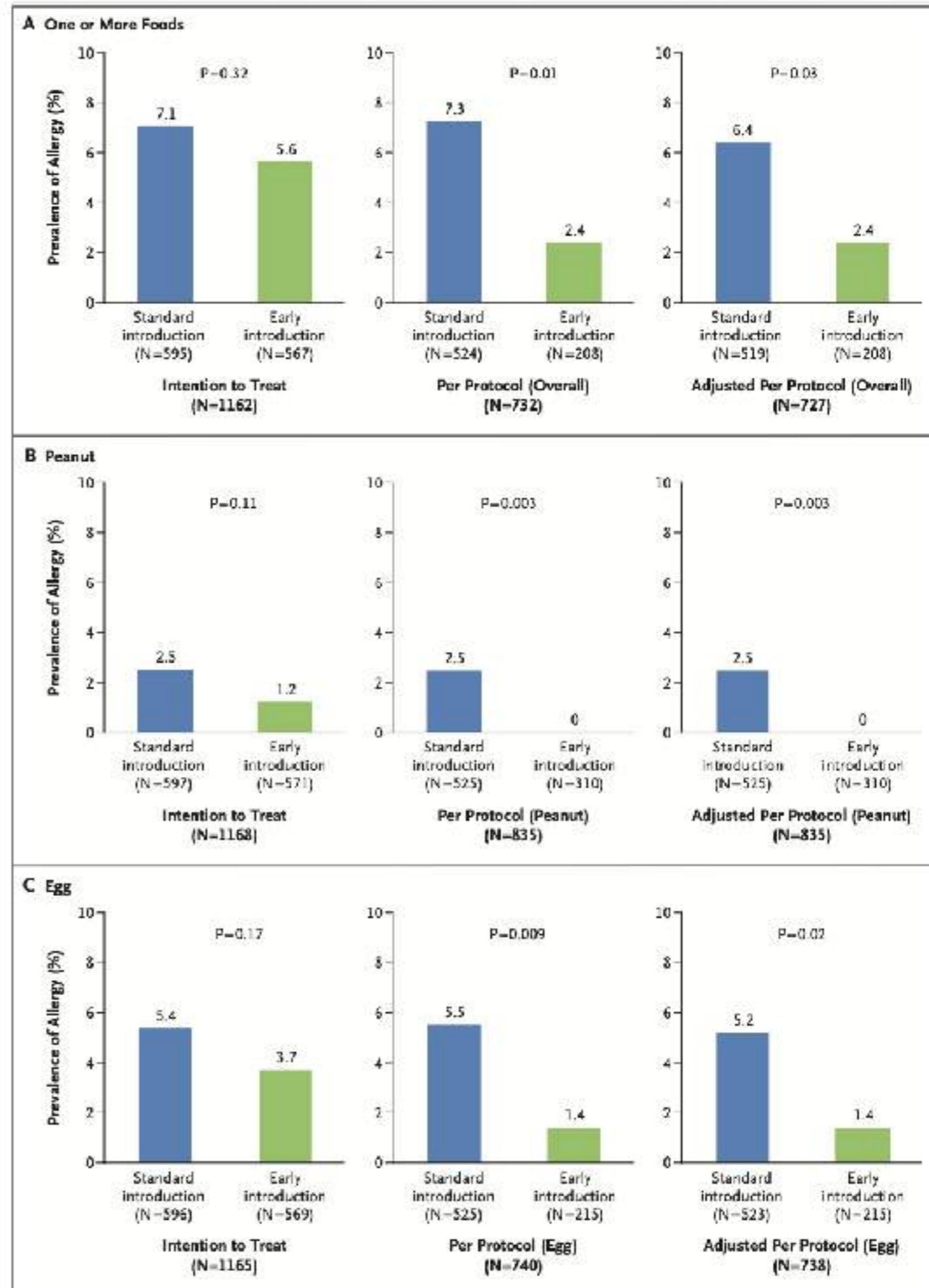
EAT STUDY : GIVING ALLERGENS TO BABIES —> ALLERGIES AT 1-3 YEARS

3 months old + EBF	Early introduction	Classic
Allergens introduction	3 months (n=595)	> 6 months (n=567)
1 or more food (p=0.01 in PPA)	2.4%	7.3%
Peanut (p=0.03 in PPA)	0%	2.5%
Egg (p=0.009 in PPA)	1.4%	5.5%

20 YEARS LATER

EAT STUDY

- ▶ PPA : Early introduction PREVENTS allergy !
- ▶ ITT : $p > 0.05$
- ▶ 3 months : too early ??
- ▶ More CS rate on early introduction cohort



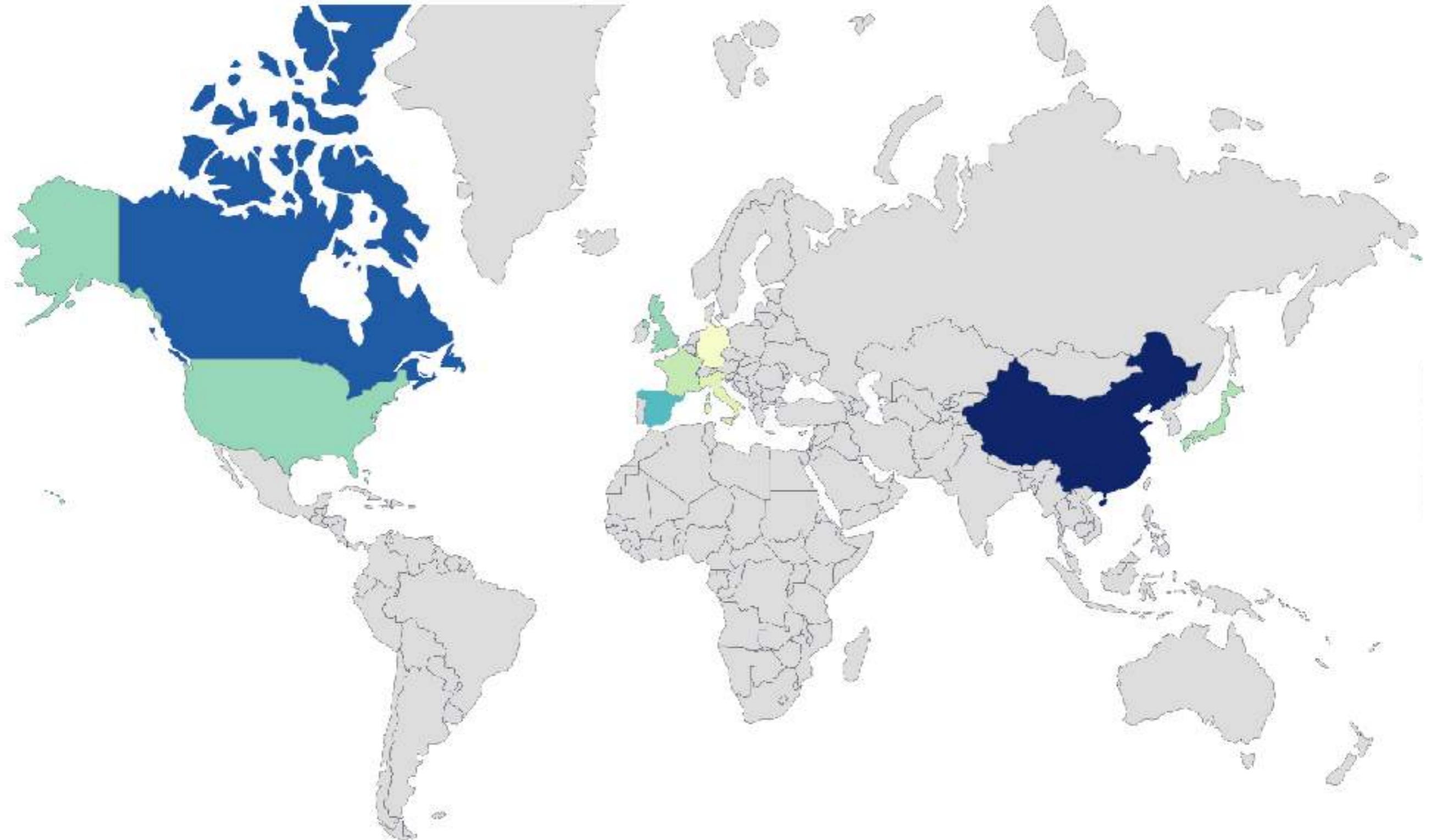
20 YEARS LATER

AGE OF ONSET OF WEANING

- ▶ 4-6 months vs 6 months
- ▶ WHO : 6 months
- ▶ USA/UK : 6 months flexible
- ▶ ESPGHAN : 4-6 months
- ▶ Germany : 5 months (readiness)
- ▶ France : 4 months



Allergy Rates by Country 2026



Canada/China : 6 months (WHO)
USA/UK : 6 mo flexible
Germany : 5 months (readiness)
France : 4 months



Sources

1. Global Prevalence of Pediatric and Adult IGE-Mediated Food Allergies Results: From the Assess FA Study - Science Direct
2. Oral Abstracts / Ann Allergy Asthma Immunol 131 (2023) S37513

20 YEARS LATER

WEANING : 4 OR 6 MONTHS

4 MONTHS

ESPGHAN

Less allergies

Less sweet tooth

Fights obesity

~~Adult milk~~

6 MONTHS

WHO

Less malnutrition

Less AGE

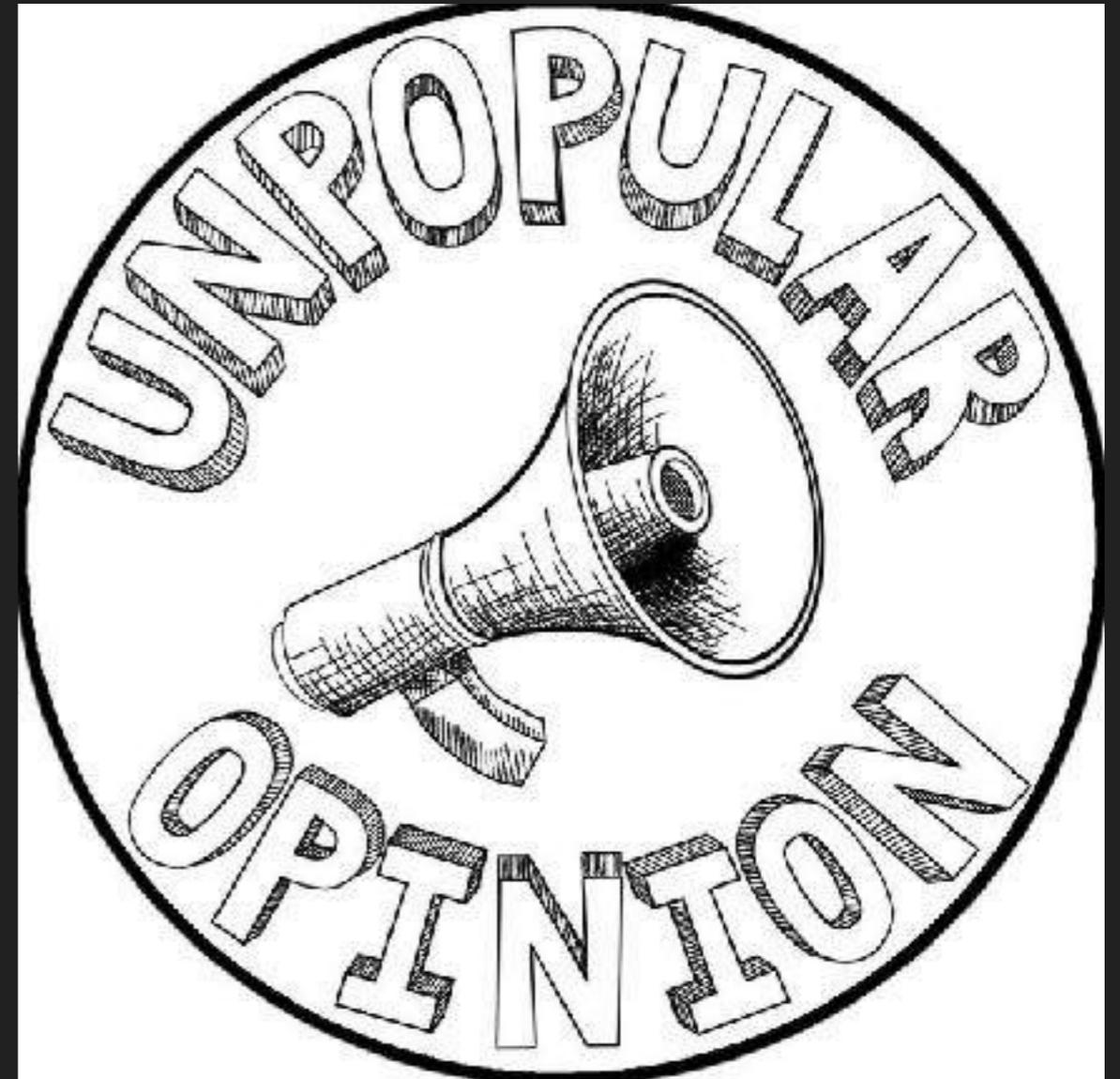
Fights underweight

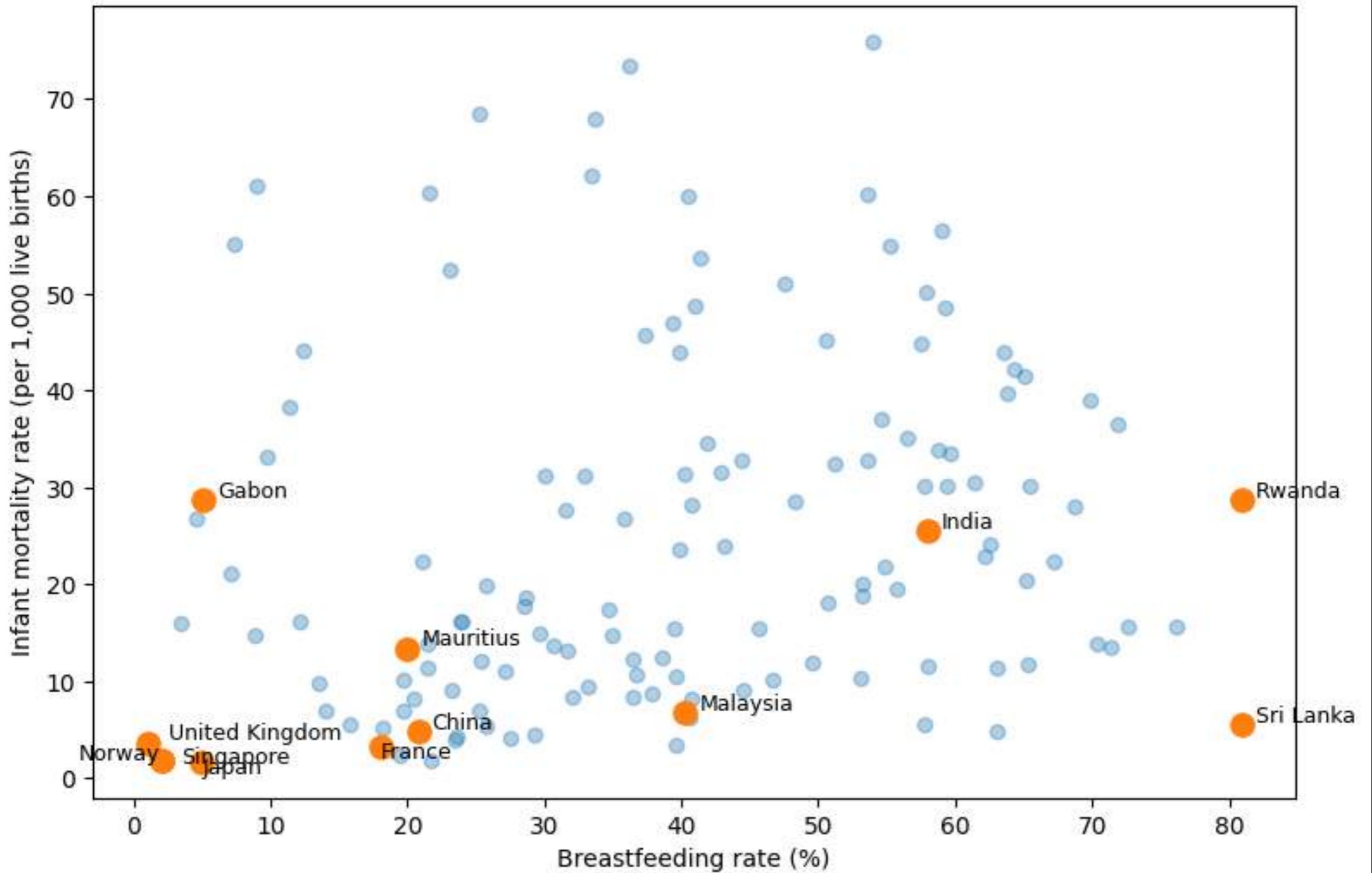
Adult milk allowed
> 6 months

20 YEARS LATER

BREASTFEEDING

- ▶ **MY** UNPOPULAR FACT
- ▶ BF vs IMR





Source : World Population Prospects UN, Mauritius Health Statistics, WHO, UNICEF, ChatGPT

20 YEARS LATER

BREASTFEEDING

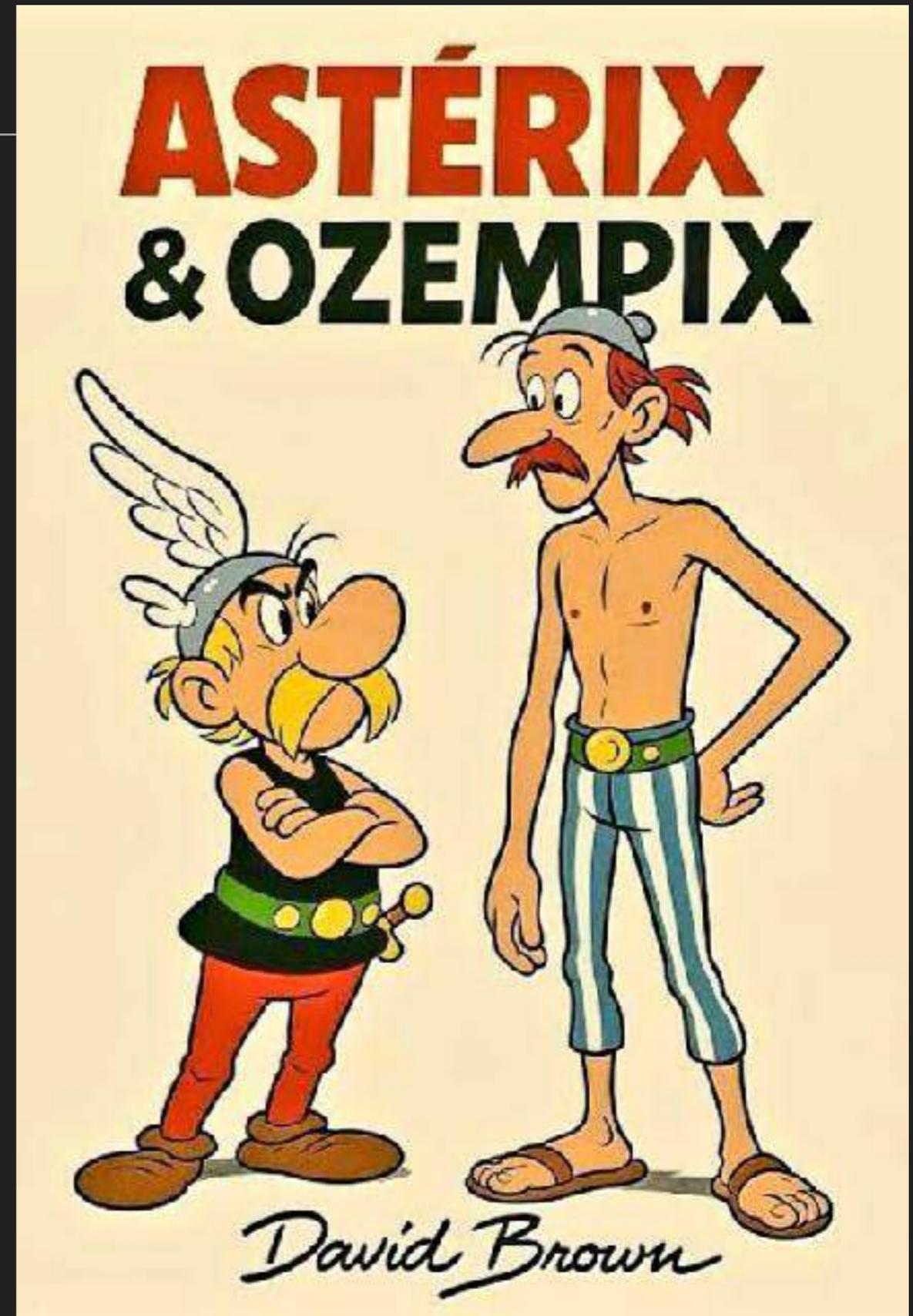
- ▶ **MY** UNPOPULAR FACT
- ▶ BF vs IMR
- ▶ We tried everything. Nothing works
 - ▶ WHO
 - ▶ Milk companies reprimanded
 - ▶ Paediatricians accused
- ▶ GenZ !!
- ▶ Take care of Plan B



20 YEARS LATER

NCD - OBESITY

- ▶ Some hope
- ▶ GenZ : Gym, image conscious
- ▶ Bariatric surgery
- ▶ New medicines



20 YEARS LATER

TAKE HOME MESSAGES

20 YEARS LATER

CAN WE SHAPE A BETTER GEN ALPHA -BETA ?

- ▶ Digital hygiene : time and CONTENT
- ▶ Screen together : a family moment
- ▶ Protect sleep and meal times
- ▶ Teach frustration tolerance.
- ▶ Prioritise real-world achievement.
 - ▶ Sports
 - ▶ Morality - religion



20 YEARS LATER

CAN WE SHAPE A BETTER GEN ALPHA -BETA ?

- ▶ Campaigns on screen toxicity
- ▶ No phone in school
- ▶ ↑ birth : IVF,
- ▶ Support (young) mothers :
 - ▶ Tertiary education
 - ▶ Work
- ▶ WHO guidelines
 - ▶ be critical
 - ▶ Stop the fight



PAEDIATRIC SOCIETY

caring for the community



UPCOMING EVENTS

Ocean's Creek Hotel
2-3 May 2026



UPCOMING EVENTS

Maritim Resort and Spa
18-19 July 2026



Paediatric Society

WhatsApp group



www.paediatricsociety.mu