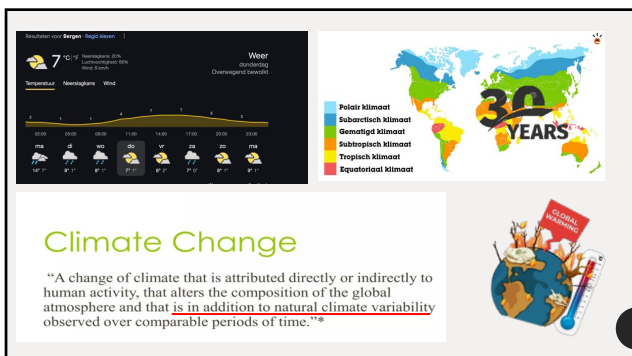




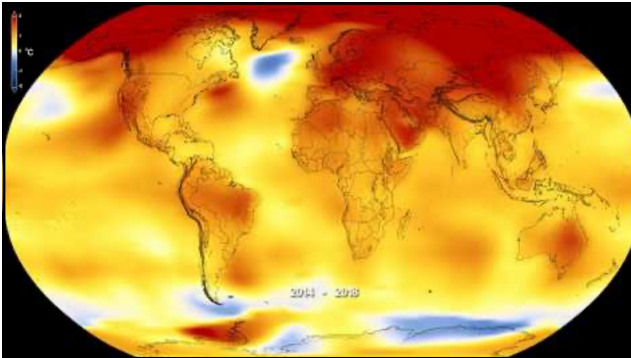
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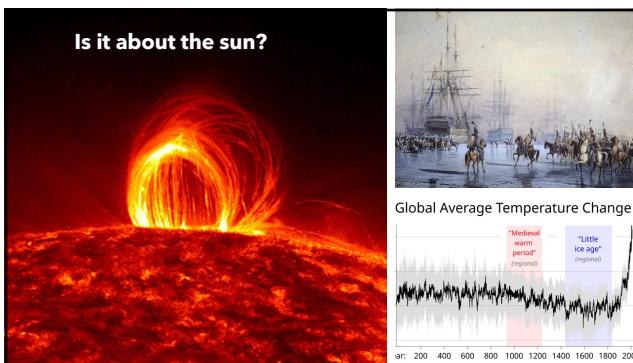
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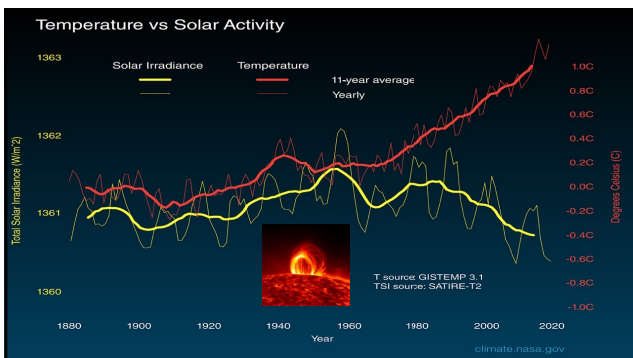
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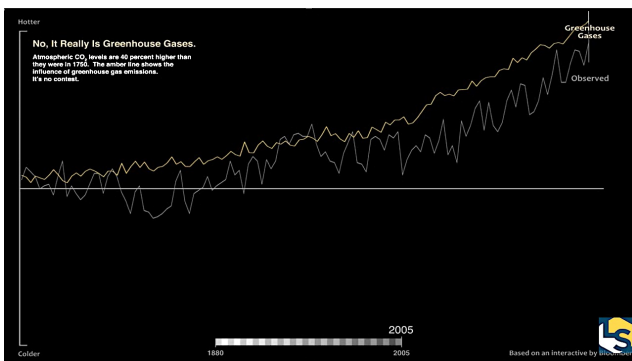
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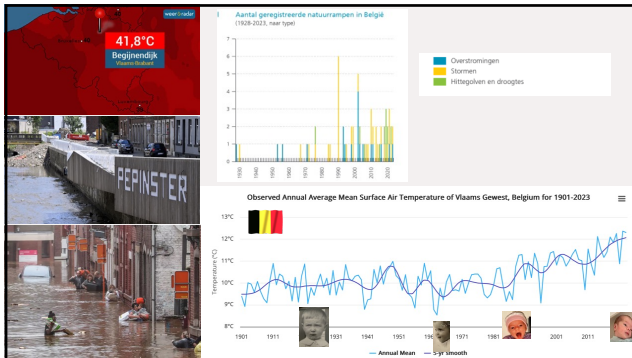
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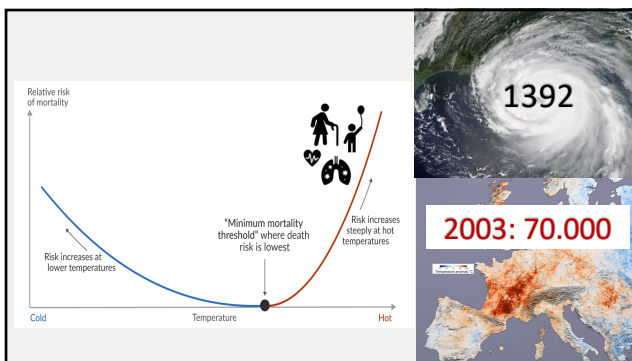
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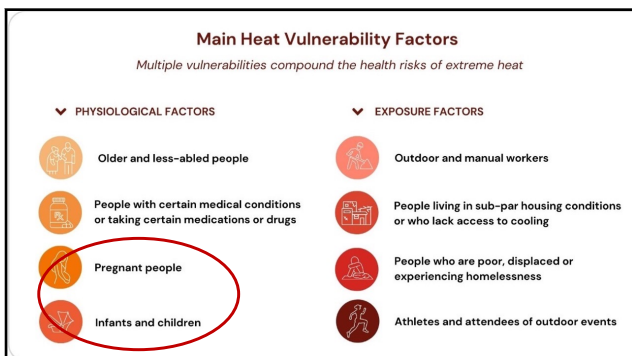
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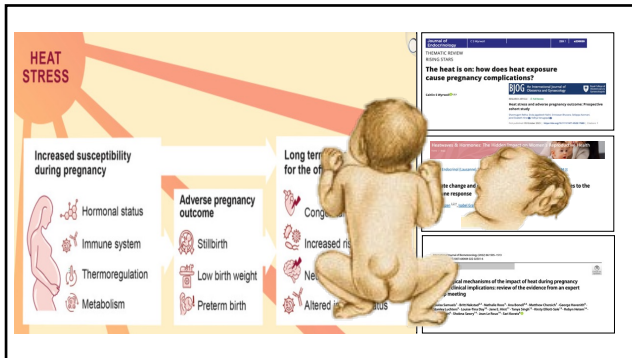
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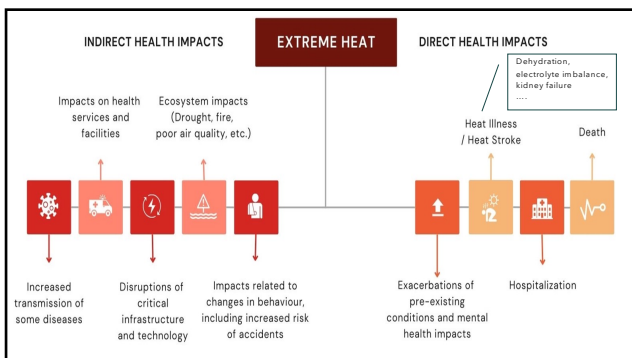
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Know The Signs

Heat Exhaustion

- Excessive sweating
- Headache
- Nausea or vomiting
- Weakness or dizziness
- Heat Rash
- Dark Urine

Heat Stroke

- Hot, dry skin
- Altered mental status
- Seizures
- Coma

Diagnostic criteria heat stroke:

- $\geq 38-40^{\circ}\text{C}$
- Altered GCS +/- encephalopathy
- exposure /no infective prodrome

Differential diagnosis:

Infectious (sepsis, malaria, ...),
endocrine (thyrotoxicosis,...)
neurological (seizures, stroke,...),
toxicology (cocaine, amf,...)
Malignant hyperthermia

You say you'd never forget them, but never happens.

Heat stroke is a life-threatening condition that can lead to death. It is caused by exposure to high temperatures and dehydration. Symptoms include confusion, loss of consciousness, and a body temperature above 40°C. If you suspect heat stroke, call 999 immediately.

It's getting hot in here: heat stroke in children and young people for paediatric physicians

Clinical Spectrum of Pediatric Heat Illness and Heatstroke in a North American Desert Climate

Heat stroke: a life-threatening condition

16

HEAT EXHAUSTION

ACT FAST

- Move to a cooler area
- Remove or loosen clothing
- Use cool water
- Seek medical help if symptoms do not improve

Call 999

>5y: 1-7"
<5y: lukewarm!

Target $T^{\circ} < 30\text{ min } (38.5^{\circ}\text{C})$

HEAT STROKE

ACT FAST

- Call 999
- Move to a cooler area
- Remove or loosen clothing
- Use cool water
- Seek medical help if symptoms do not improve

Treatment

ABCDE: Crystalloids, DEFGI, core T°

Shivering: Benzo, RSI (NMBA)

EOF
Rhabdomyolysis/ARF
DIC
HypoNa dehydration
Cardiogenic shock
Lungedema
Liverfailure (Tx)
Cerebral edema, seizures

NO PCM/NSAID/dantrolene

Prognosis ~duration/degree

1-15% (adults 63%) exertional neurological

Summer 2018
Daily hottest on record
15.8C
(UK average temperature)

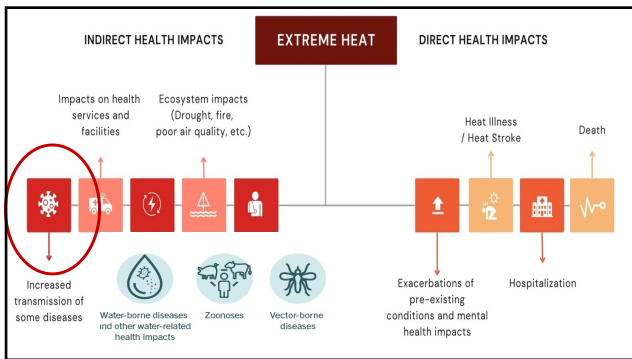
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RSV: < 20

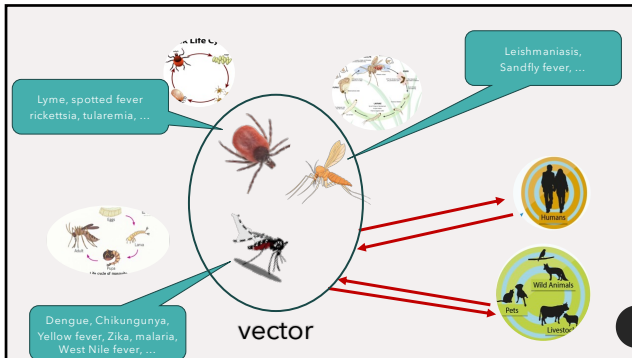
Heat stroke: knowledge and practice of medical professionals in pediatric emergency medicine departments: a survey study

Severity of Critical Care Medicine Outcomes for the Treatment of Heat Stroke

17

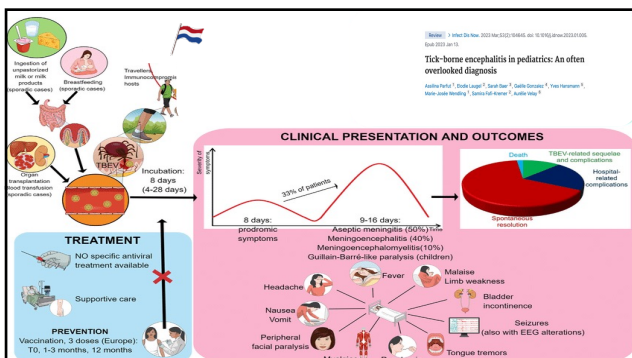


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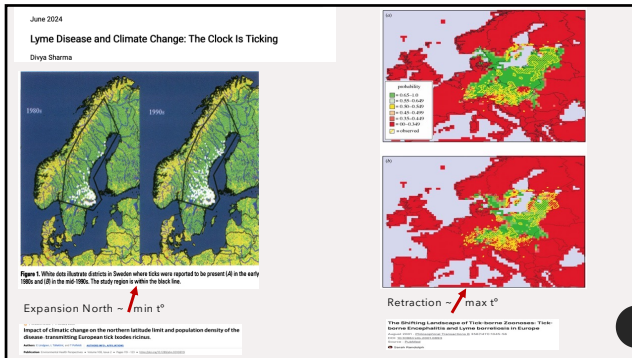


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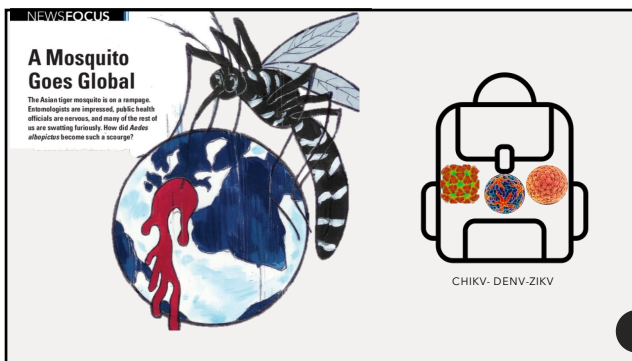
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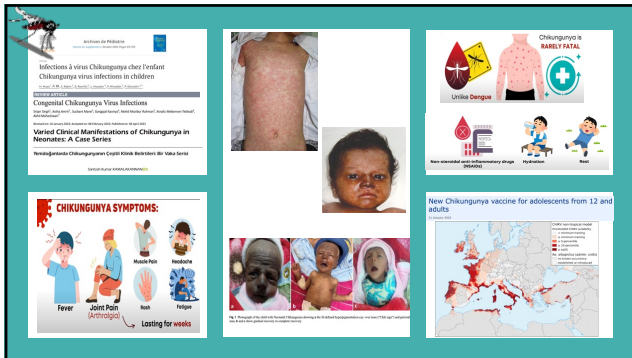
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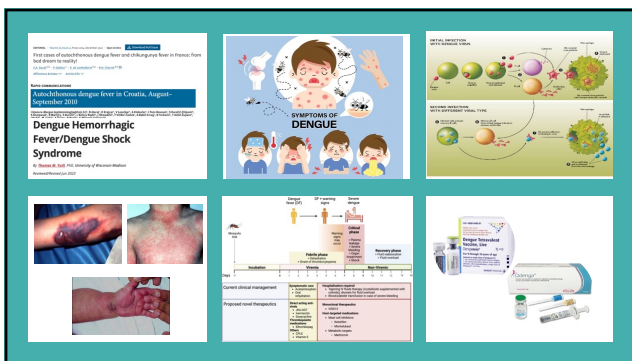
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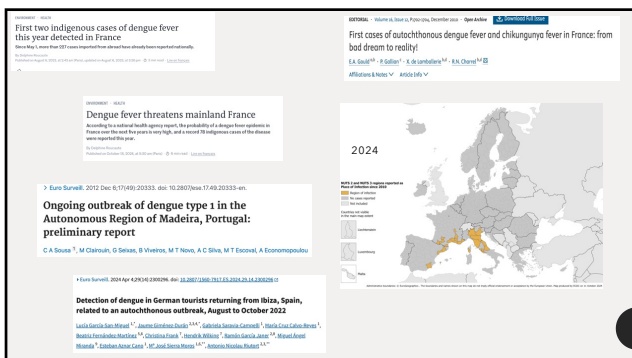
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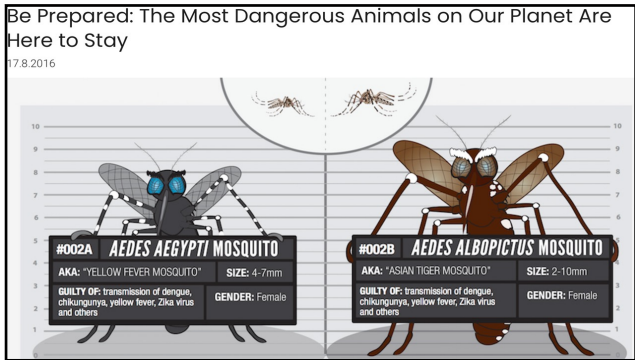
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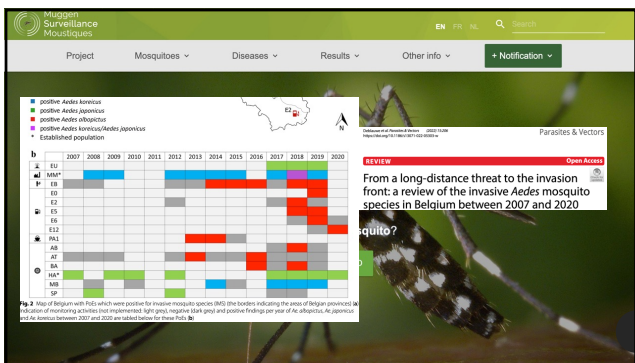
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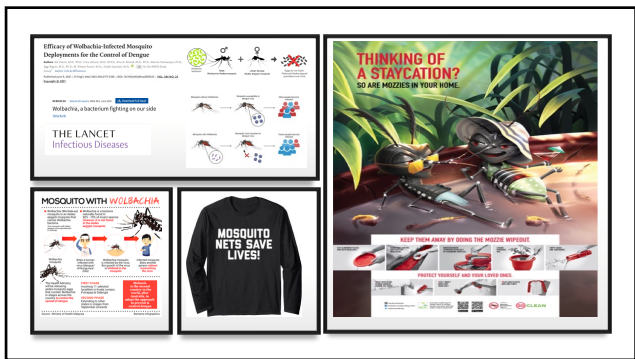
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> *Pediatr Infect Dis J*. 2023 Sep 1;43(9):733–738. doi: 10.1093/pid/kia0000000000003986. Epub 2023 Jun 28.

Imported Malaria in Children: A Study Over an 11-Year Period in Brussels

Yolbena Salim Karami¹, Tessa Geirghabauer², Marc Hainaut², Anna Vanderfaesle², Vo Thanh Phuong Nguyen¹, Sarah Janssens¹, David Peeters¹

¹ Malaria in Children
² Robert Koch Institute, 1200 Brussels, Belgium

Malaria in Children: The European Experience
In the last 20 years, the number of malaria cases in Europe has increased significantly. In 2020, there were 1,100 cases in Europe, with 1,000 cases in the EU and 100 cases in non-EU countries. The number of cases in the EU has increased from 100 in 2000 to 1,000 in 2020. The number of cases in non-EU countries has increased from 10 in 2000 to 100 in 2020.

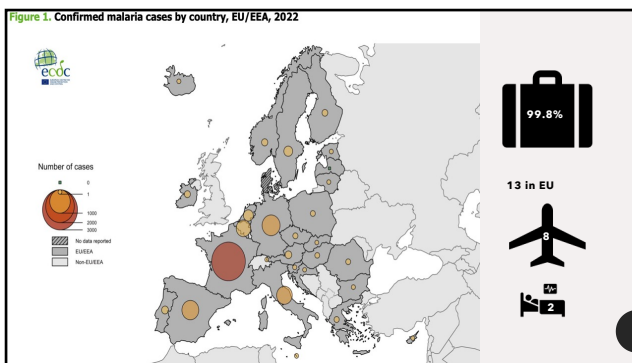
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SYMPTOMS OF MALARIA

SYMPTOMS OF MALARIA

- Fever
- Chills
- Sweating
- Fatigue

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West Nile Virus

Adult/West Nile Virus infection outbreak in humans, Latvia, Germany, August to September 2022.

West Nile Virus (WNV) is a mosquito-borne virus that can cause illness in humans. It is most commonly found in Europe, Africa, and Asia. In 2022, there were outbreaks in Latvia and Germany.

West Nile Virus Transmission Cycle

West Nile Virus Transmission Cycle

- Mosquitoes (Culex, Anopheles, Aedes)
- Birds (Columba, Streptopelia, etc.)
- Humans

Environmental Temperature on the Vector Competence of Culex univittatus (Diptera: Culicidae) for West Nile Virus

Environmental temperature affects the vector competence of Culex univittatus for West Nile Virus. The vector competence is highest at 25°C and decreases at 15°C and 35°C.

WEST NILE VIRUS

COMMON SYMPTOMS OF WNV

- Fever
- Headache
- Joint pain
- Neck stiffness
- Weakness

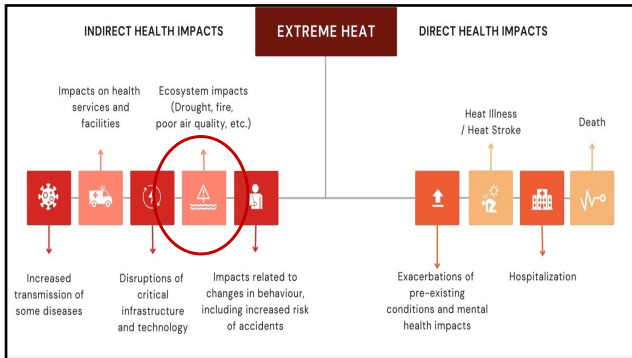
SYMPTOMS OF SEVERE WNV

- Encephalitis
- Myelitis
- Paralysis
- Death

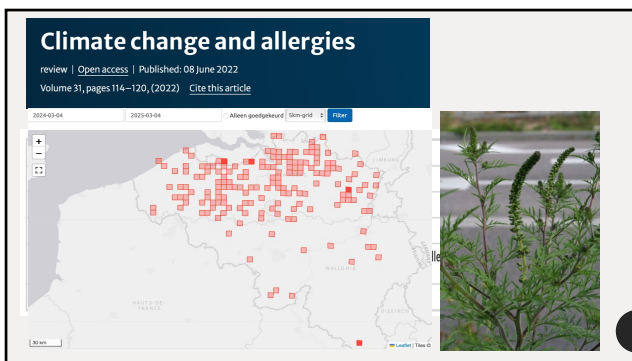
Prevent West Nile Virus with... The 4 D's:

- Drain** Drain any standing water in your yard each week. Bird baths, flower pots, and other containers are common breeding sites.
- Dress** Wear light-colored, long-sleeved shirts and long pants while outdoors. Spray clothing with insect repellent.
- Defend** Apply insect repellent sparingly to exposed skin. Use an approved repellent according to its label.
- Dawn/Dusk** Stay indoors around dawn and dusk. These are peak mosquito biting hours.

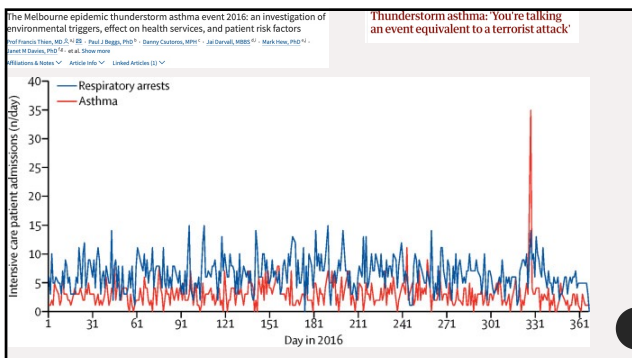
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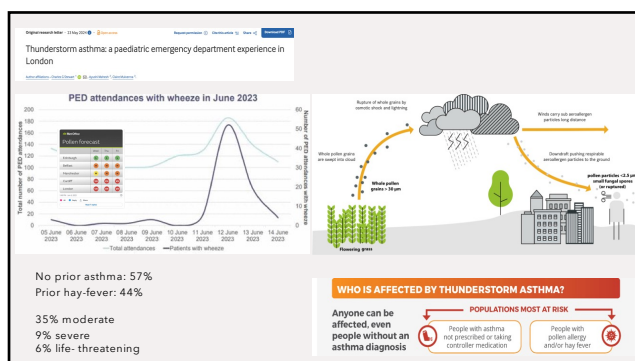
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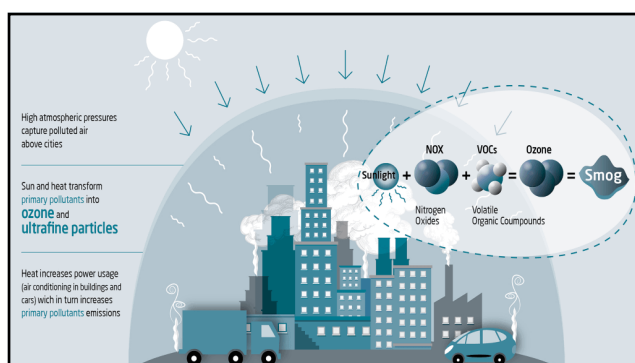
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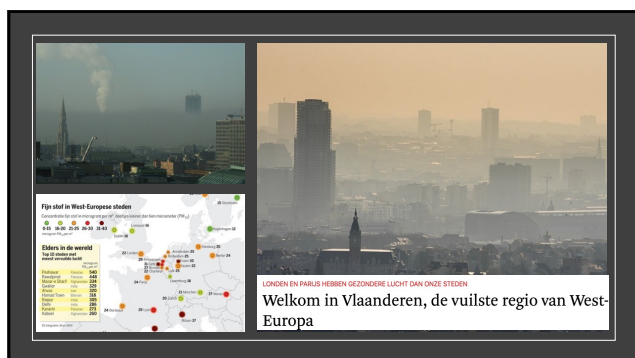
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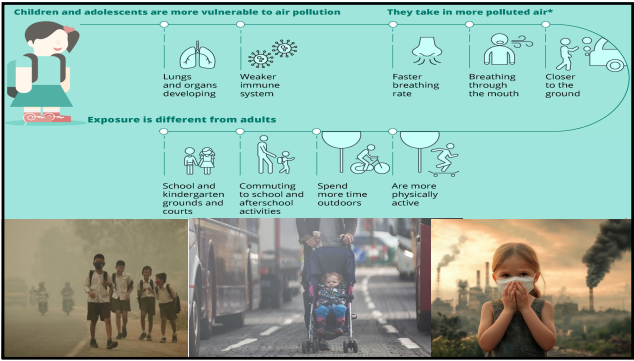
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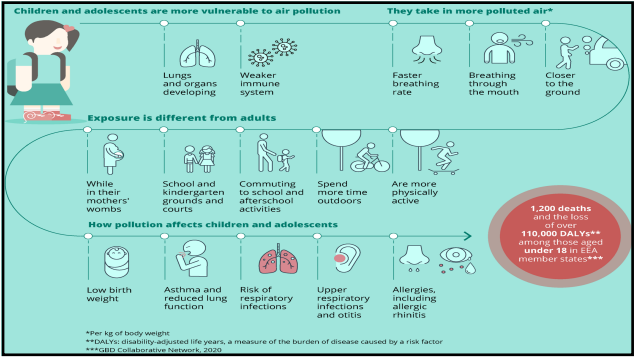
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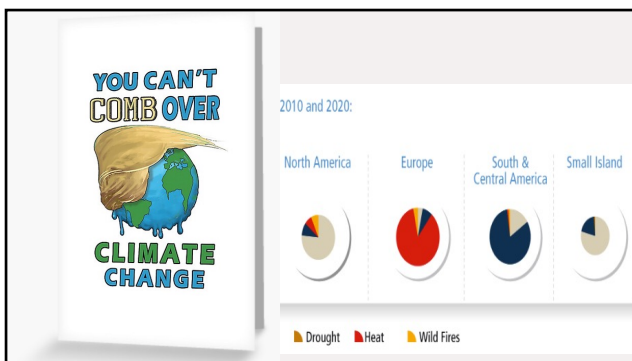
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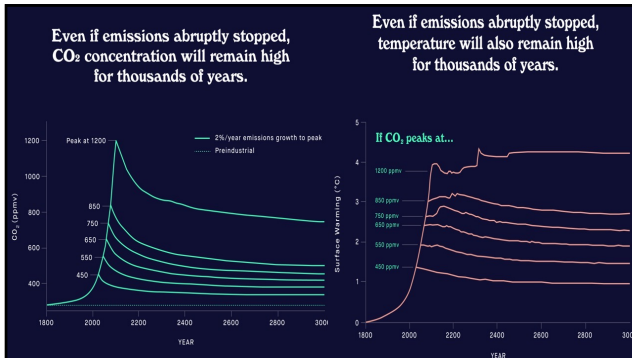
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Owing to the impacts of climate change, a special government initiative in Fiji has been trying to work out how to move the country. 42 Fijian villages have been earmarked for potential relocation in the next five to 10 years.

PREVENTION AND INNOVATIONS

Studenten geneeskunde worden voorbereid op oorlogssituaties

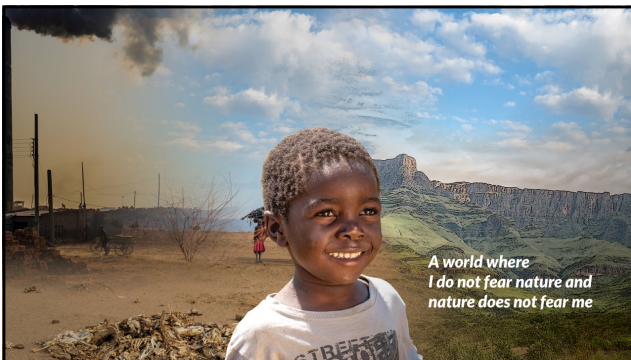
The Rescue Blanket for Kebnekaise

The Northern European Enclosure Dam - NEED

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