Viking voyages: the origin of multiple sclerosis?

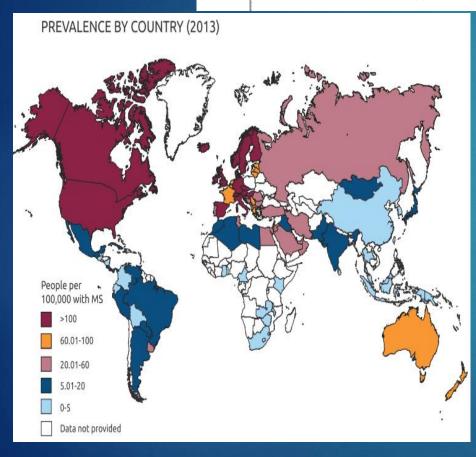
An essay in medical history

Poser M. Viking voyages: the origin of multiple sclerosis? An essay in medical history.

Acta Neurol Scand 1995: Suppl. 161: 11-22

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The 'Viking theory' suggests that the distribution is strongly linked to the spread of Scandinavian genes, initially by the Vikings and later by a second wave of Scandinavian migration.

Vitamin D and exposure to sunlight

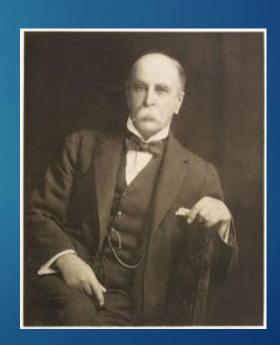
- Another important environmental factor, which has a strong association with the risk of MS is sunlight exposure and vitamin D levels, with a high likelihood of them playing a role in a prenatal period.
- That hypothesis is based on the close relationship between geographical differences in sunlight exposure and the influence of latitude on MS worldwide prevalence, the direct effects of sunlight exposure on serum vitamin D levels and the immunomodulatory effects of vitamin D on cells homeostasis.

William Osler

To study the phenomena of disease without books is to sail an uncharted sea, while to study books without patients is not to go to sea at all

The value of experience is not in seeing much, but in seeing wisely

-Osler



Video- 24 year old girl 1 week hx of double vision



3 weeks later after IV Methylprednisolone



MS symptoms (not relapses)

Residual symptoms from previous relapses or non-relapse-related symptoms:

- Fatigue
- Pain, spasticity, spasms, Ataxia
- Uhthoff's phenomenon- Pseudorelapses
- Depression, anxiety, rarely psychosis
- Bladder dysfunction
- Seizures
- Memory problems, cognitive issues

MOGAD



Demyelination Secondary to systemic diseases Ischemic/inflammatory...

- Non-specific Age-related WM changes- UBO's!
- Small vessel disease
- ► Migraine,
- ► Vasculitis (SLE, APLA syndrome*, Sjogren's, Behcet's)
- ►Infection (Lyme disease)
- Sarcoidosis, Susac's syndrome
- ▶B12 deficiency/ Hyperhomocystinemia





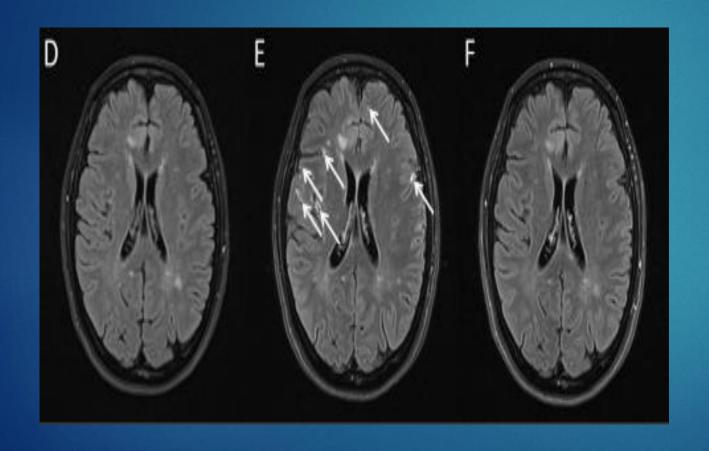
Ufo overvie

- What is a UFO ?
- Is there really any evidence of UFOs?
- Do Eye witness reports count?
- What about Alien abductions ?
- Is it a Government Conspiracy?
- What about crop circles ?
- What about other evidence ?

DMT and infections

| DMT | VZV/HSV | ТВ | PML | Hepatitis B reactivation risk | Rates of serious infections versus comparator in phase 3 trials* |
|-------------------|--------------------------------|-----------|----------|-------------------------------|--|
| Teriflunomide | Low | Moderate† | Low | Low | No excess |
| Dimethyl Fumarate | Low | Low | Moderate | Low | No excess |
| Fingolimod | Moderate | Low | Moderate | Low | No excess |
| Cladribine | Moderate | Moderate† | Low‡ | High | Small excess |
| Alemtuzumab | Moderate(Low with prophylaxis) | Moderate† | Low‡ | High | Small excess ³⁹ 48 49 212 |
| Natalizumab | Low | Low | High | Moderate | No excess |
| Ocrelizumab | Moderate | Low | Low | Very high | No excess |
| Ofatumumab | Low | Low | Low | High | No excess |

VZV





MS and Pregnancy

