

Acknowledgement



We acknowledge and pay respect to the traditional custodians past and present on whose lands we meet today.

We acknowledge the deep feelings of attachment and the relationship of Aboriginal people to country and respect the cultural authority of the elders in each community

Multiple Sclerosis Limited





Informed Choice



This presentation has been prepared and is presented by an independent expert.

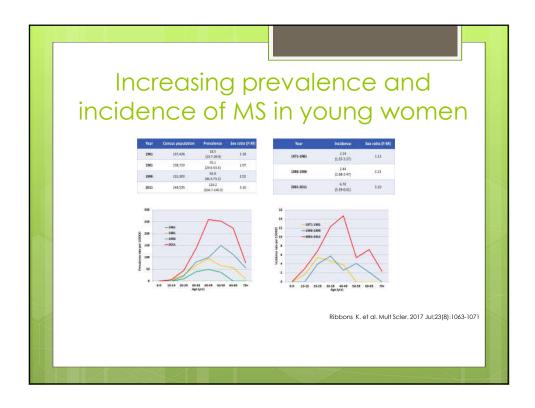
The views presented are not necessarily the views of Multiple Sclerosis Limited.

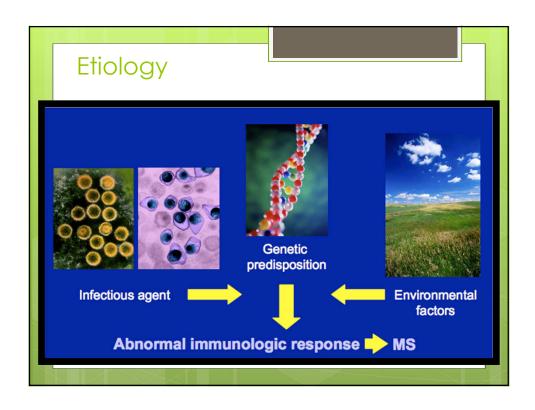
Individuals are encouraged to seek further advice regarding the relevance of the information presented for their situation.

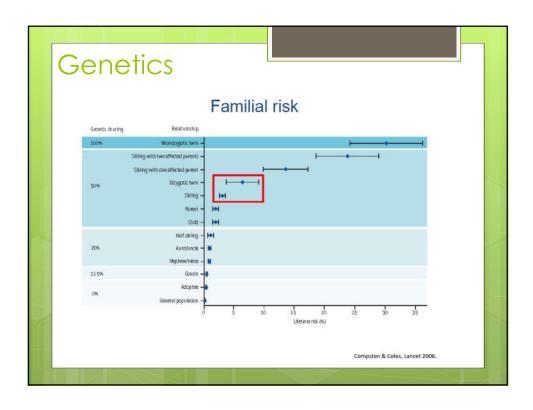
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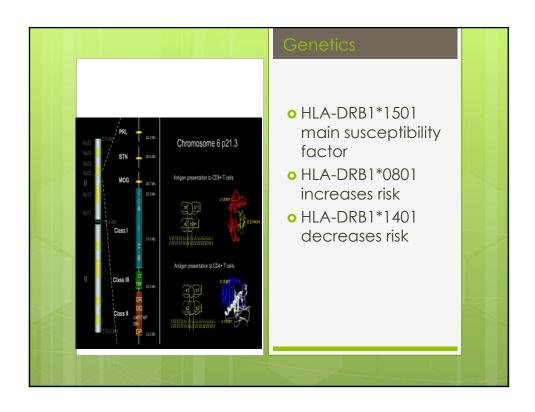


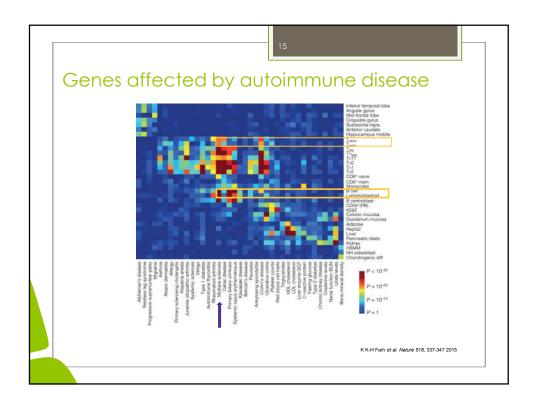
Overview Pathophysiology Epidemiology Clinical course Therapeutic option Disease modifying therapies Symptomatic therapies Life style changes

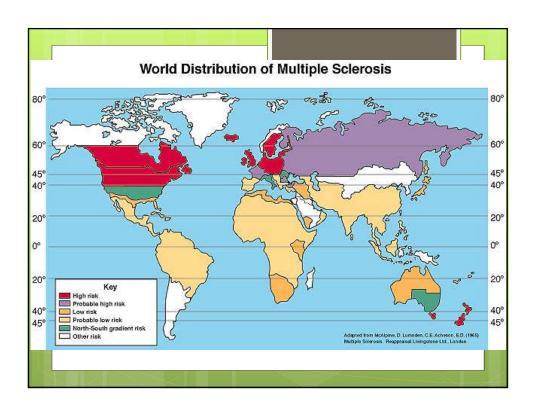


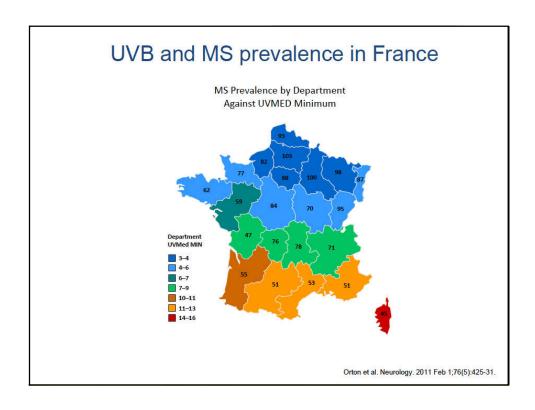


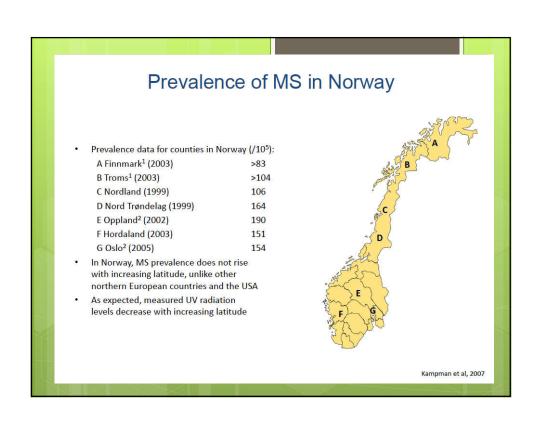


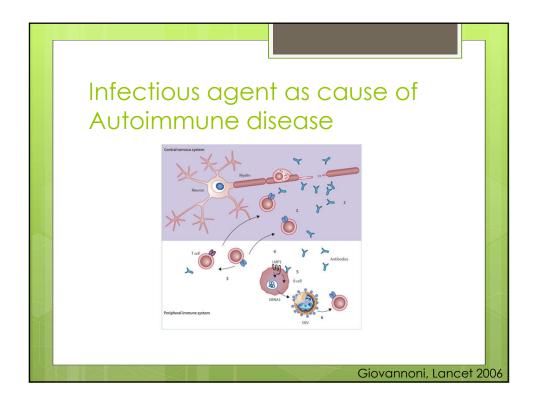






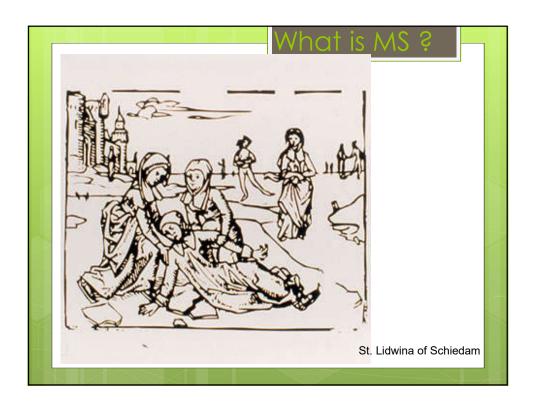






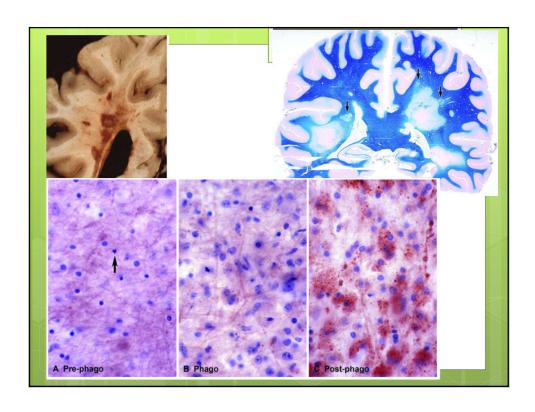
Question 1 Which one is true?

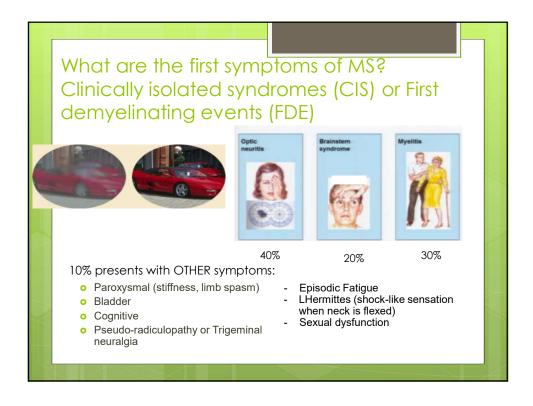
- a) MS is an infectious disease
- b) Children of PwMS have a 50% chance to get MS
- c) MS is increasing in prevalence and incidence
- d) Sun exposure can trigger MS
- e) MS protects from other autoimmune diseases











CLINICAL SYMPTOMS OF MULTIPLE SCLEROSIS (MS)

- Fatigue
- Visual disturbances
- Blurred vision, diplopia, nystagmus, red-green color dissociation
- Motor
- Spasticity, paresis, dysarthria, spasms, ataxia, muscle weakness
- Sensory changes
- · Paraesthesia, neuralgia
- Cognitive deficits
- · Memory loss
- Bladder / bowel urgency and incontinence

Deficit reported	Presenting	During course
visual/oculom otor	49	100
paresis	42	88
paraesthesia	41	87
incoordination	23	82
urinary/bowel	10	63
cerebral	4	39

Uhtoff's phenomenon

- Reversible and usually predictable decrements in physical (running walking reading etc) and cognitive (memory, thinking speed)
- Due to increased ambient body temperature and exercise
- Nerve conduction slowing and perhaps conduction block due to small (~0.5°C) increases in core temp

$\begin{picture}(100,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){10$

phenomenon

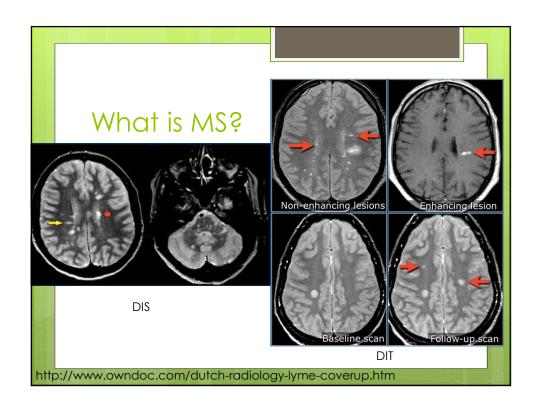
- Reversible worsening of symptoms associated with increased body core temperature:
 - Fever
 - Vigorous exercise
 - Hot water baths / showers
 - Environmental heating

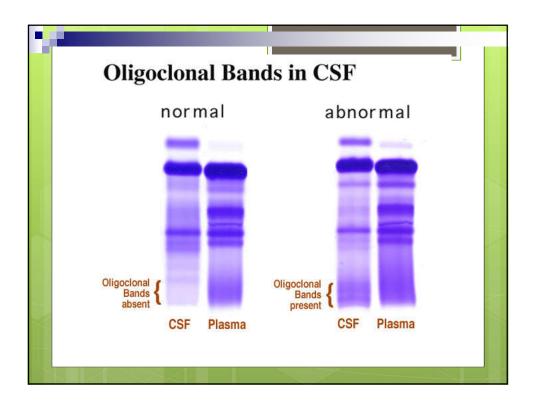
Question 2 Which statement is correct?

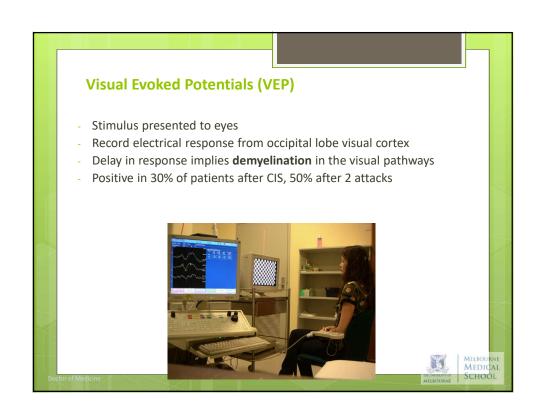
- a) MS is a disease of modern society.
- b) The symptoms depend on where the lesions are.
- c) Bladder symptoms are unlikely to be due to MS.
- d) A sudden onset of blindness is the most common presentation of optic neuritis.
- e) Fatigue is not a characteristic symptom of relapse.

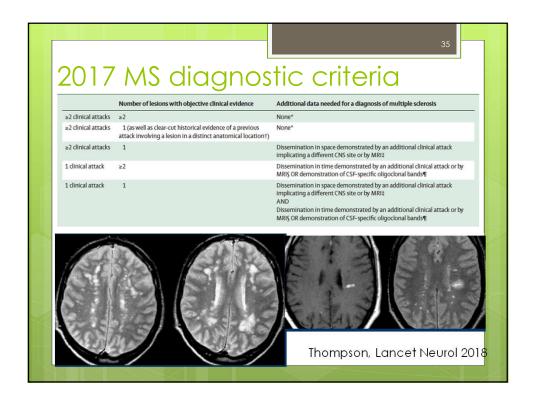


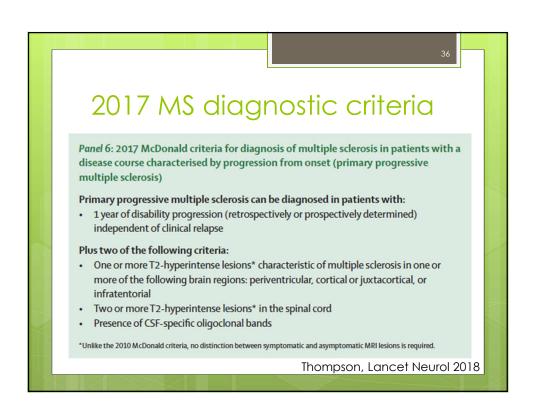






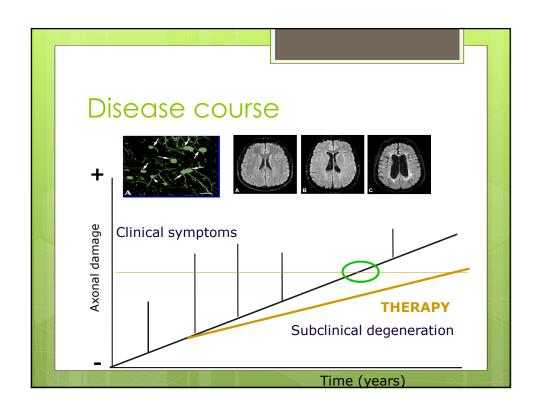


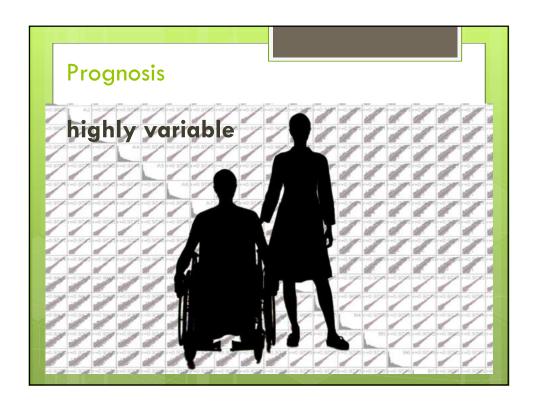


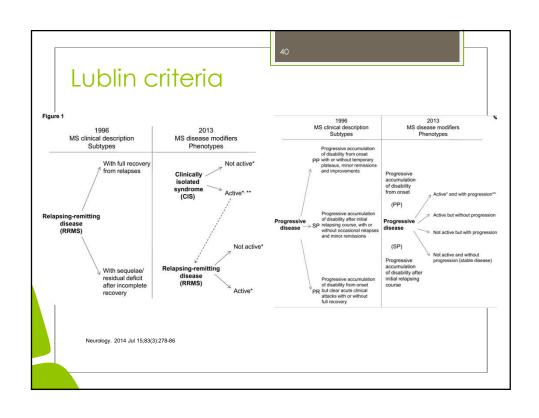


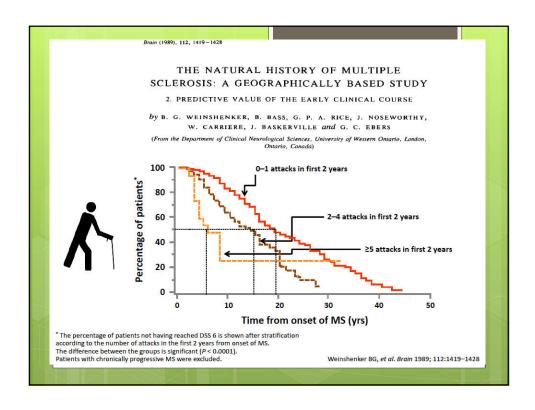
Question 3 Which statement is not correct?

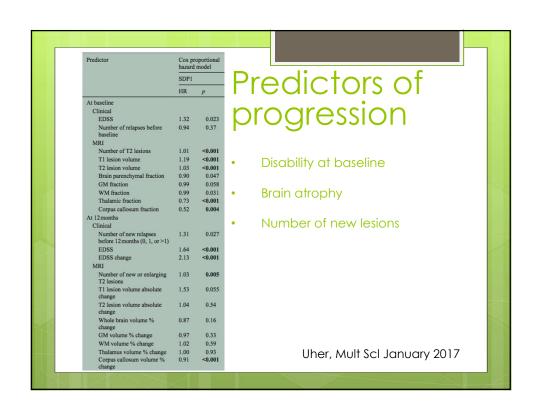
- a) MRI is the major diagnostic tool for MS.
- b) A lumbar puncture can confirm the diagnosis.
- c) Evoked potentials can confirm dissemination in space.
- d) You need to wait at least 6 months before the diagnosis of MS is confirmed.
- e) Giving contrast for an MRI can help with dissemination in time.

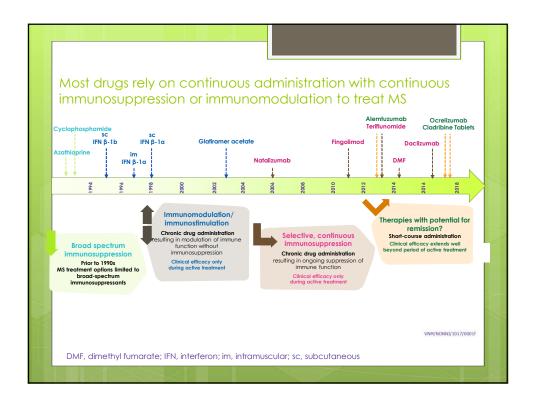




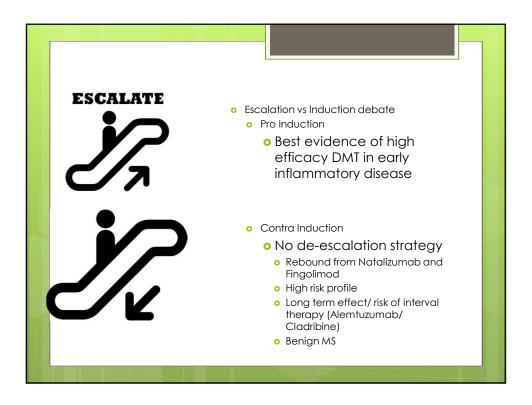


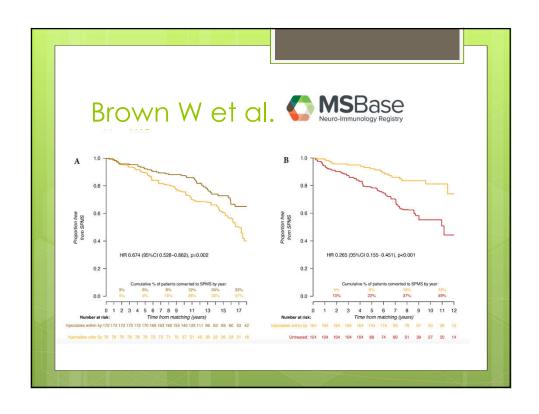


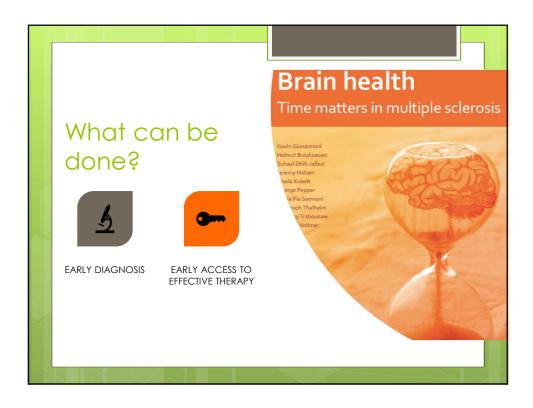




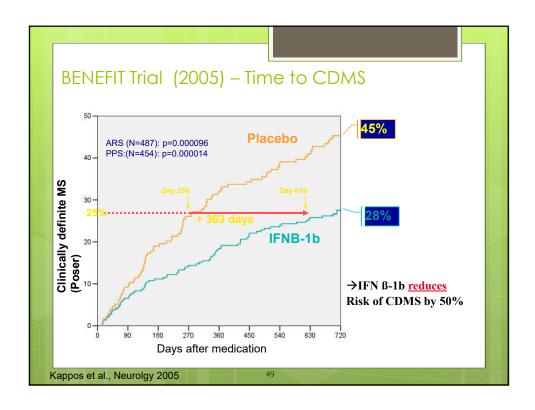


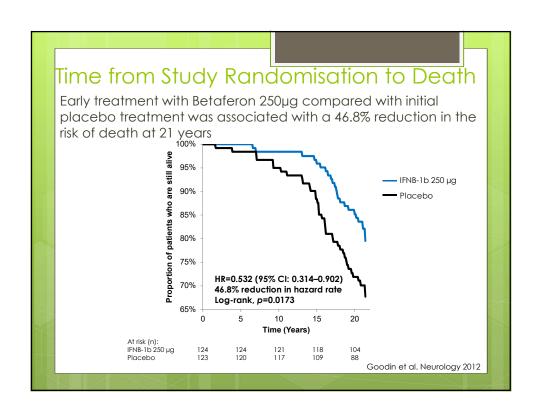


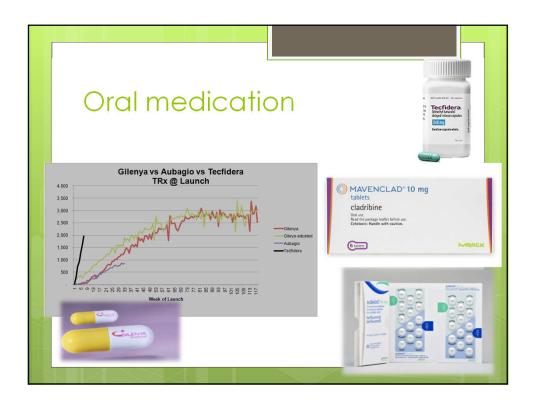


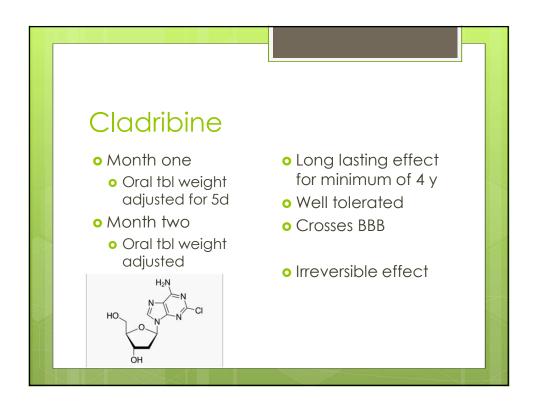


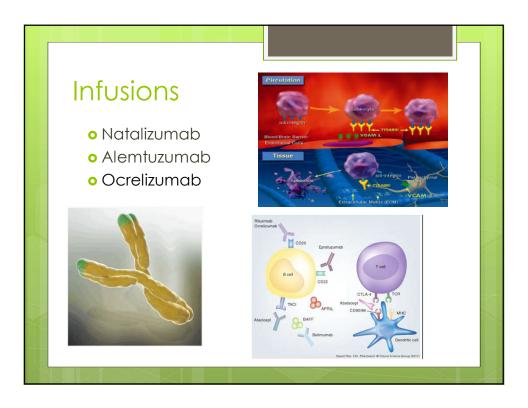


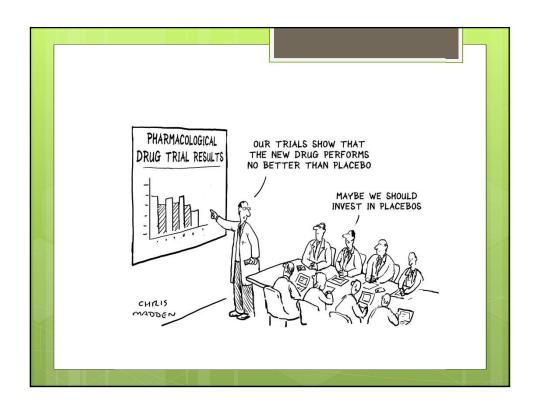




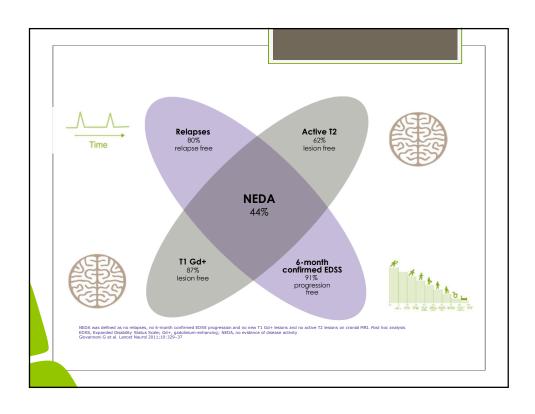


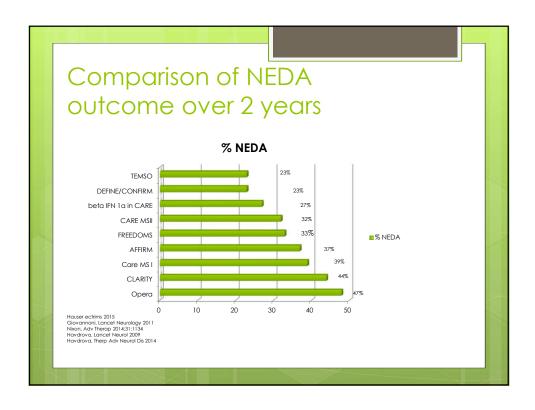


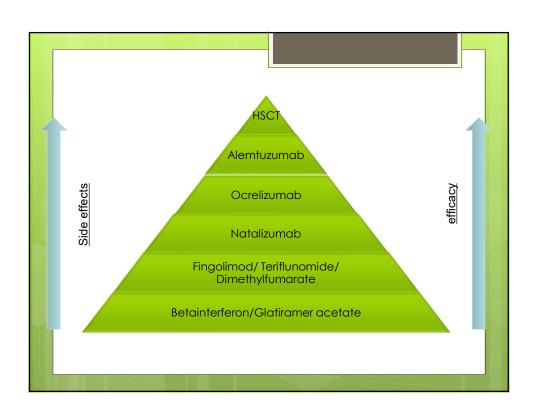








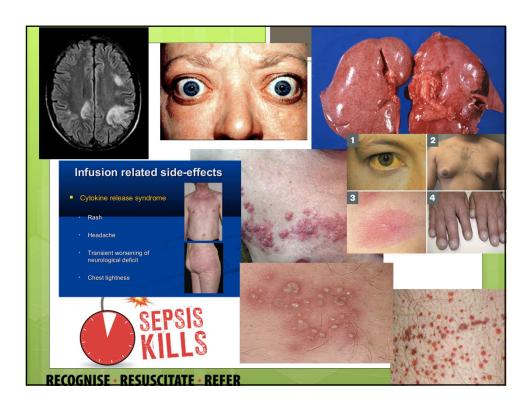




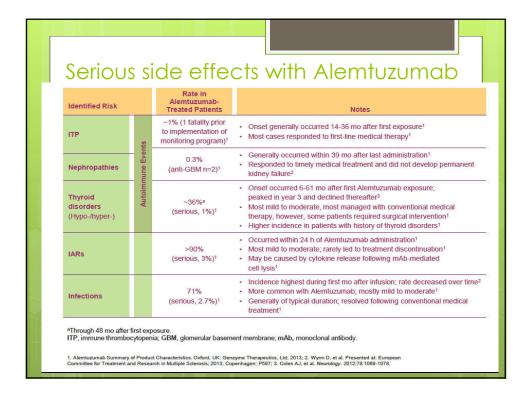


Question 4 Which statement is correct?

- a) Stem cell therapy is effective in all MS types.
- b) Treatment decisions need to be made for each patient individually according to their risk and benefit ratio.
- c) You should always start with injectables first.
- d) Infusions are the safest therapy.









Not in the Paleo Diet

Life style recommendations Diet The Paleo Diet

- o Roy Swank 1948
 - Low polysaturated fats
- Terry Wahl
 - Raw foods, berry, fruits Paleo diet
 - Rich in nutrients for mitochondria
 - animal-based omega-3 fats, creatine, and coenzymeQ10, while your myelin needs vitamins B1, B9, B12, omega-3, and iodine
- Vitamin D

Cochrane Database Syst Rev. 2012 Dec 12http://www.msra.org.au/prevanz Jagannath VA, Filippini G, Di Pietrantonj C, Asokan GV, Robak EW, Whamond L, Robinson SA. Vitamin D for the management of multiple sclerosis. Cochrane Database of Systematic Reviews 2018(9).

Life style recommendations Diet

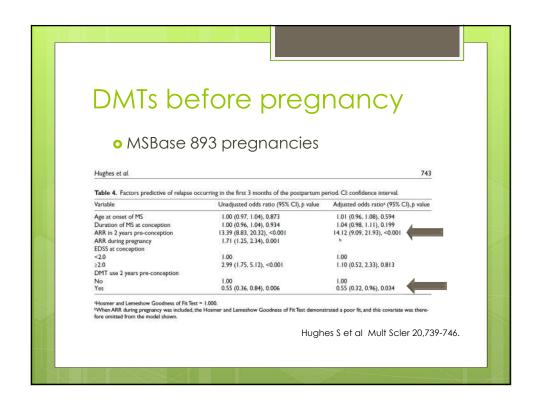
- 63% of PwMS in Australia take supplements
- 41% of PwMS in Germany are on modified diets
- Evidence of impact on disease outcome is limited
- Proven benefit on weight reduction and well being

PLos One. 2016; 11(10): e0165246 ASN Neuro. 2015 Feb 18;7(1)









Will my MS affect pregnancy outcome?

- Babies born from MS mothers are slightly smaller for gestational age by weight
- There is no difference in Apgar scores in babies of MS mothers
- There may be a slightly increased rate of operative deliveries in MS patients
- There is no increase in birth defects, perinatal mortality, or other adverse fetal outcomes.

wig et al. Acta Neurol Scand 2008, 118 (1):24-28; Chen et al., Mult Scler. 2009; 15(5):606-612; Hellwig, J Neurol 2009

Breastfeeding

One can prevent post-partum MS relapses by exclusive breast feeding: No Sandra Vukusic and Christian Confavreux

Mult Scler 2013 19: 1565 DOI: 10.1177/1352458513503054

One can prevent post-partum MS relapses by exclusive breast feeding: Yes
Annette Langer-Gould and Kerstin Hellwig
Mult Scler 2013 19: 1567
DOI: 10.1177/1352458513505161



Question 5 Which statement is correct?

- a) If I have Alemtuzumab, I don't need to see my doctor any more.
- b) Natalizumab has the highest risk of PML infection.
- c) To prevent my MS from getting worse I need to go on a vegan diet.
- d) Once diagnosed with MS you should not have any babies.





MSL Services - MS Practice





MS Practice is a free, online education series designed to support allied health professionals in the symptom management of people with MS.

https://www.msaustralia.org.au/about-ms/ms-practice

Multiple Sclerosis Limited

Registered NDIS Provider



MS is a registered NDIS provider in NSW, ACT, Vic and Tas. MS is approved to provide:

- Preplanning prior to your conversations (All areas)
- Support Coordination/Connection assistance to help make your plan active (All areas)
- Short term accommodation (Vic)
- Community Participation (NSW)
- Exercise physiology and personal training (NSW)
- Specialist Continence Assessment (NSW and Vic)
- Physiotherapy and Occupational Therapy (NSW and Vic)

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