

Centre d'Esclerosi Múltiple de Catalunya

The invisible facets of MS and everyday challenges – clinician's perspective

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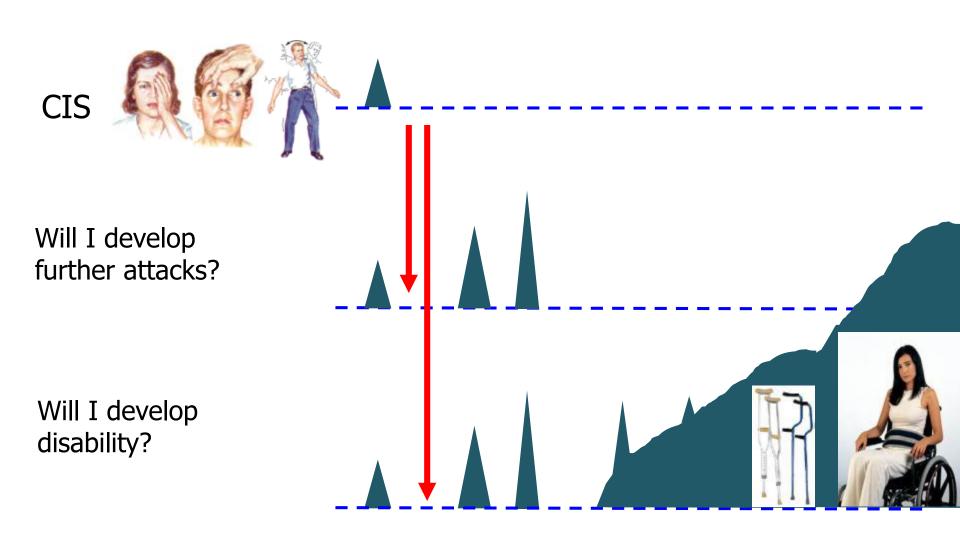


Disclosures

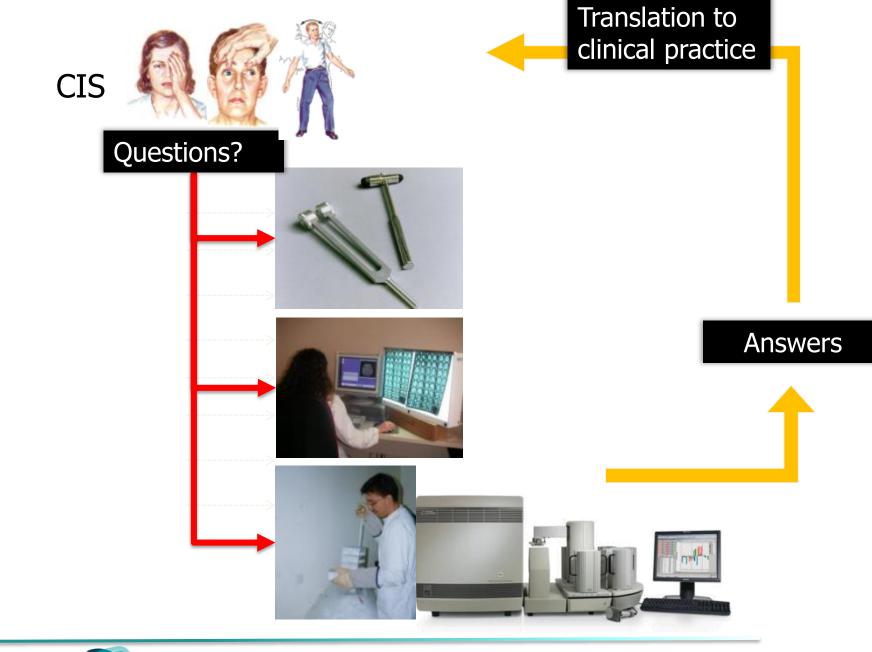
M Tintoré has received compensation for consulting services and speaking honoraria from Bayer-Schering, Merck-Serono, Biogen-Idec, Teva, Sanofi-Aventis, Novartis, Almirall and Roche.



MS diagnosis and prognosis



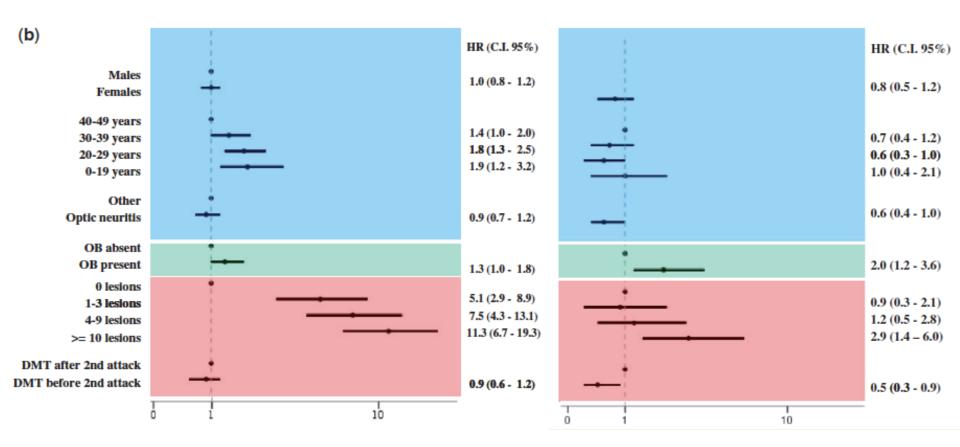




Barcelona CIS cohort: Multivariate analysis at baseline

Risk of conversion to CDMS

Risk of reaching EDSS \geq 3.0

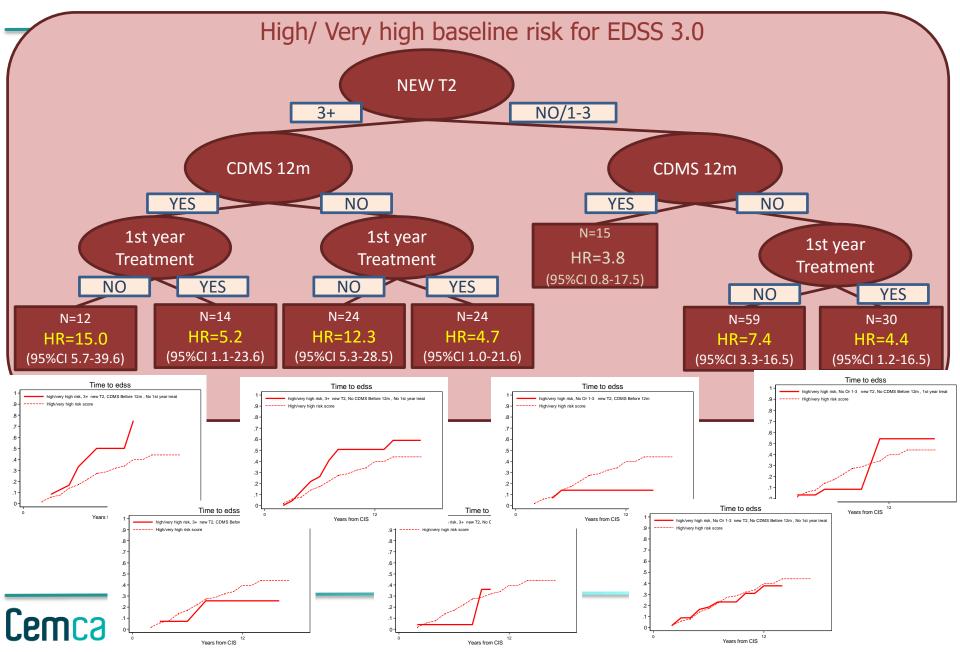


Cemcat 🗿

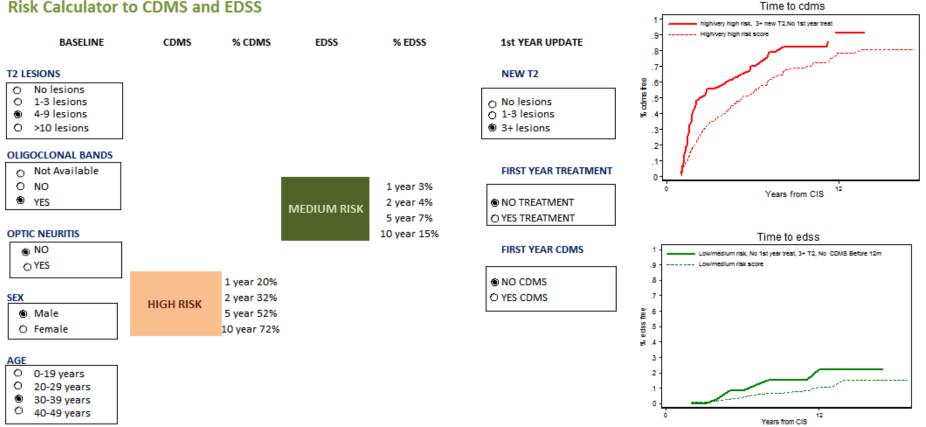
ABCRE=Avonex, Betaseron, Rebif, Copaxone, Extavia (IFNβ/glatiramer acetate); HR=hazard ratio; OCB=oligoclonal bands.

Tintoré M et al; Brain. 2015

Updated score for EDSS 3.0



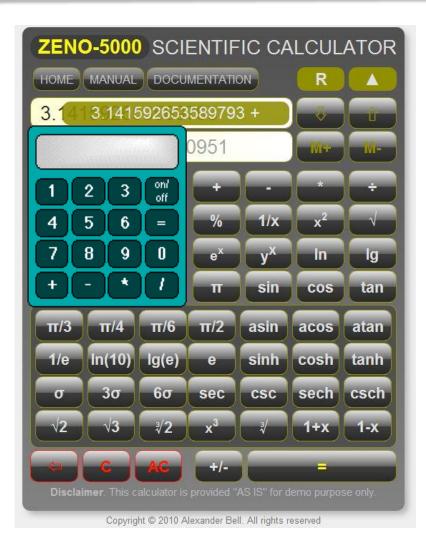
Updated Risk calculator example



Risk Calculator to CDMS and EDSS



Calculating risks in MS





Can I improve my prognosis ?

MULTIPLE SCLEROSIS IN 2013

Novel triggers, treatment targets and brain atrophy measures

Xavier Montalban and Mar Tintoré

2013 witnessed advances in many aspects of multiple sclerosis (MS) research. Two studies highlighted a potential role for salt as an MS trigger, and one immunomodulatory drug performed well in clinical trials. Moreover, treatment effects of MS drugs were shown to correlate inversely with brain atrophy and disease progression.

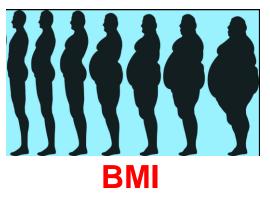
Montalban, X. & Tintoré, M. *Nat. Rev. Neurol.* 10, 72–73 (2014); published online 7 January 2014; doi:10.1038/nrneurol.2013.274

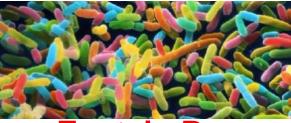






Vitamin D





Salt

Smoking

Epstein Barr virus

Is there a treatment for me?

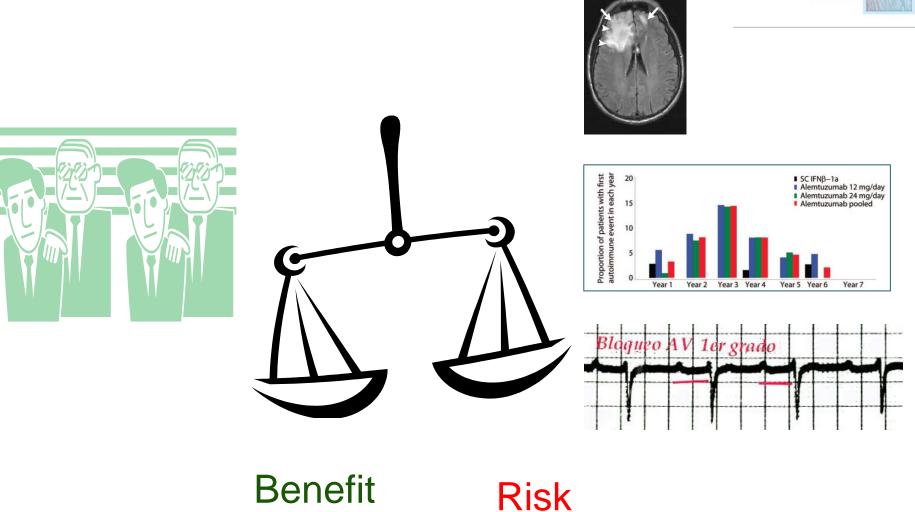
DRUGS LICENCED TO TREAT RELAPSING MS

- ✓ Interferon beta 1a s.c.
- ✓ Interferon beta 1b s.c.
- ✓ Interferon beta 1a i.m.
- ✓ Glatiramer acetate
- Mitoxantrone
- Natalizumab
- ✓ Fingolimod
- ✓ Teriflunomide
- ✓ Fumarate
- ✓ Peg IFN
- Alemtuzumab
- ✓ Daclizumab
- ✓ Ocrelizumab



Which is the risk benefit ratio?





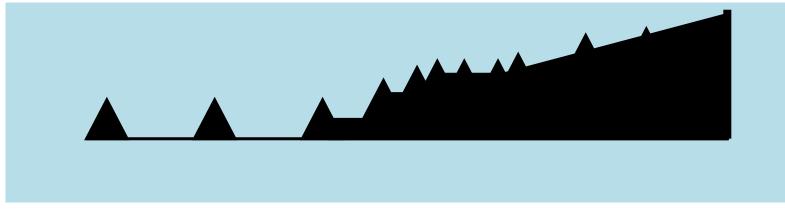


Shared Decision is crucial when discussing treatment options

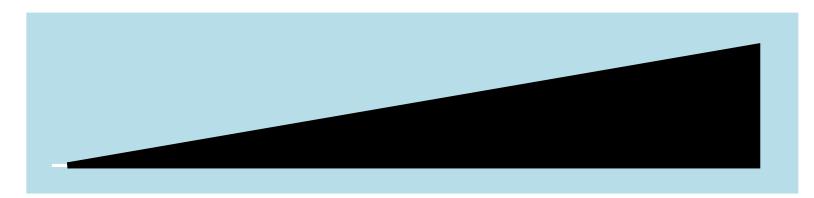




Many questions will araise during MS journey



Relapsing-remitting Secondary progressive





Primary progressive



- Which are the risks of a pregnancy for my disease?
- Which problems multiple sclerosis can cause to my pregnancy?



Why I am so fatigued?

- Frequency: 75-95%
- Main symptom: 50%
- Interferes with quality of life

• No existing treatment

Cencat Akshi R et al Mult Scler 2003; Freal JE et al, 1984; Branas P et al., 2002

What about depression?

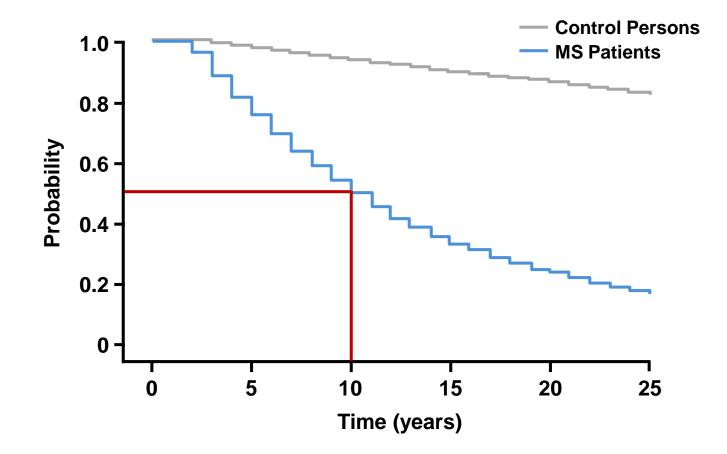
- Frequency, lifetime: 40-55%
- Frequency, 12 months prevalence: 25%
- Interferes with quality of life
- Should be identified and treated



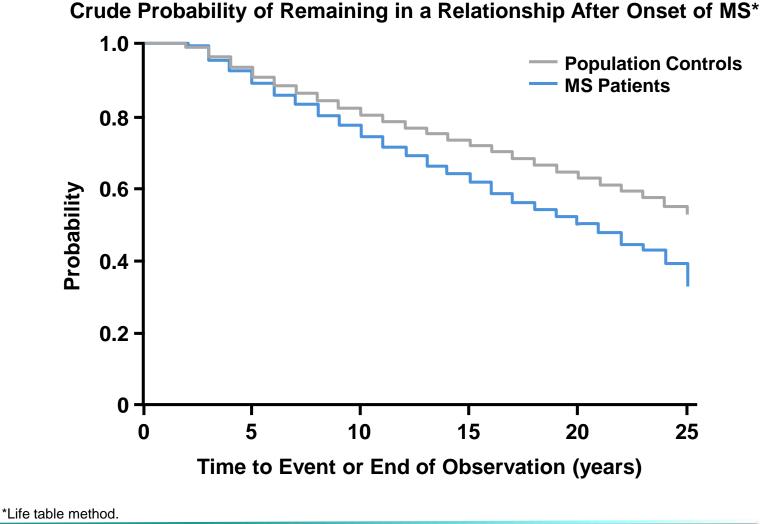


I have been fired out.... Unemployment

Probability of Remaining in Active Employment After Onset of MS



Divorce and Separation



Pfleger CC et al. *Mult Scler*. 2010; 16:121-126.

What about my earnings?

5 years after diagnosis...

- Mean earnings of MS patients:
 - 72% of earnings among References
- Higher education/qualified
 occupation
 - Higher levels of earnings
- Largest relative differences
 - Those with lowest level of earnings
 - …lower education
 - ...less qualified occupations
- Exception: Managers

arcelona 2015

- Large difference MS vs Ref

	MS	% of Ref
All	166	72%
Education		
-Higher	218	78%
-Secondary	145	68%
-Lower	84	53%
Occupation		
Managers	246	68%
Office	218	76%
Manual	134	65%
Unknown	102	55%
No work	28	68%

(1000 SEK ~100 Euro)



Who knows where life will take you the road is long and in the end the journey is the destination







MRI









