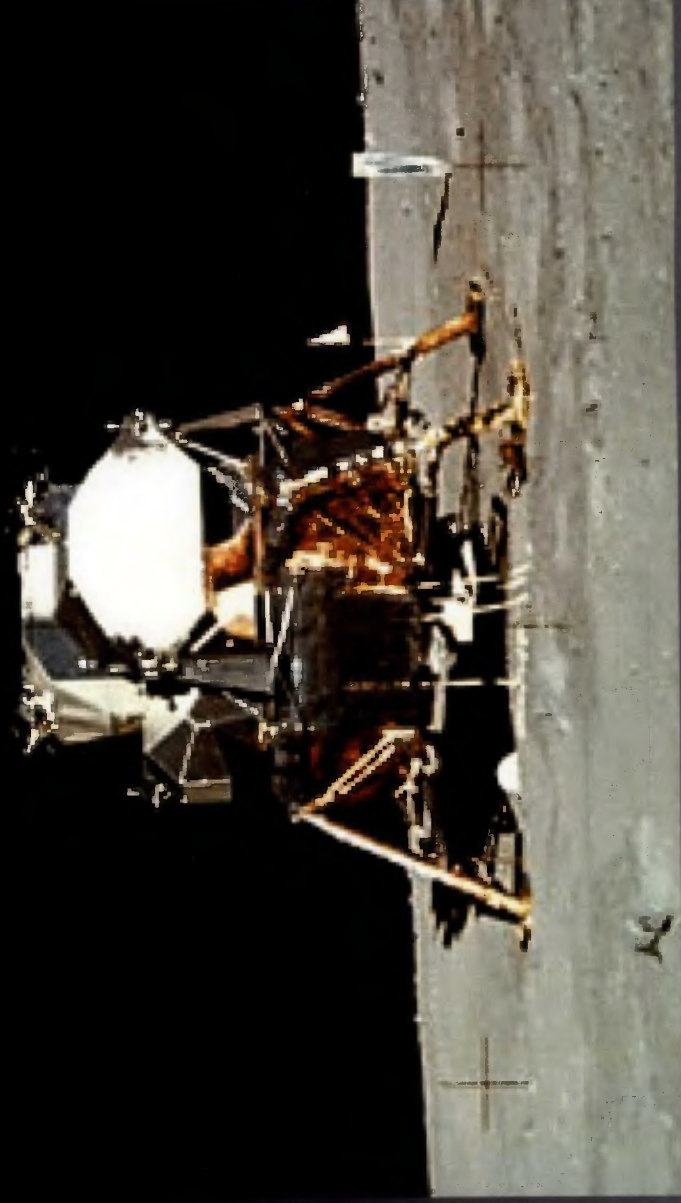


Alemtuzumab

The Eagle has landed...in Europe



Alemtuzumab was compared against the most widely used class of medications in the world. It was not compared against a placebo as in most other studies. At the end of the day, a reasonable person would conclude that alemtuzumab is better than the medications used in first line therapy for reducing relapses and reducing the rate of worsening disability.

Can the FDA justify a rejection of a transformational medication such as Alemtuzumab based on safety considerations?

Perspective on Safety From a Multiple Sclerosis Patient

Five Year Follow up Data on CAMMS223 Trial

Withdrawal From Therapy Due to Adverse Events:

Alemtuzumab=3.25%

Rebif=12.1%

THE PROOF IS IN THE PUDDING!

R

Summary of All Clinical Trials

Thyroid Disorders
alemtuzumab=39%
Rebif=28%

Regulators:

" There is concern about life long
risk of hypothyroidism resulting
from alemtuzumab"

Prevalence and Impact of Thyroid Disease

An estimated 20 million Americans have some form of thyroid disease.

One woman in eight will develop a thyroid disorder during her lifetime.

Most thyroid diseases are life-long conditions that can be managed with medication.

In fact, both of my sisters and my mother have hypothyroidism and will be on synthroid for the rest of their lives.

Generic synthroid was
prescribed 70.5 million times
last year in the United States

It would be absurd to reject
Lemtrada based on
concerns of thyroid disease.

I would gladly trade my
life long MS for life long
hypothyroidism.

You can replace thyroid
but you cannot replace
neurons!

Regulators:
There is concern for increased
incidence of thyroid cancer.

CARE MSI and CARE MSII Thyroid Cancer

Alemtuzumab=6
Rebif=0

Perspective:
PROGNOSTIC FEATURES — Most patients
with thyroid cancer do not die of their disease.
(From Up To Date)

Follow up on All Phase II and Phase III Trials

ITP

Alemtuzumab=1.8%

Rebif=0.9%

ITP is treatable and curable
There is no cure for MS.

Regulators:
There is concern for
increased rate of infections.

CARE MS I and CARE MS II

Infections:

Alentuzumab=67%-77%

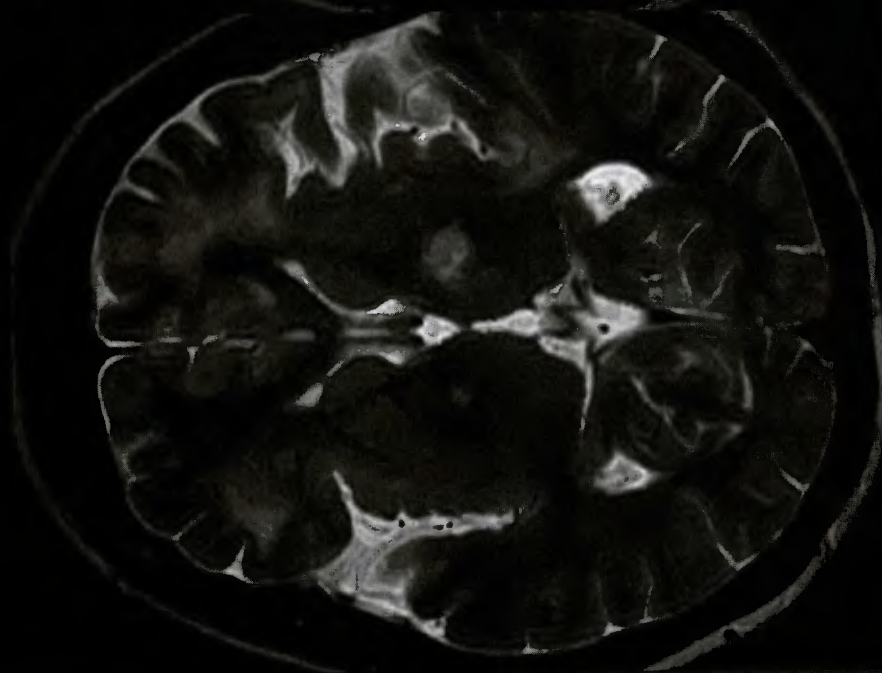
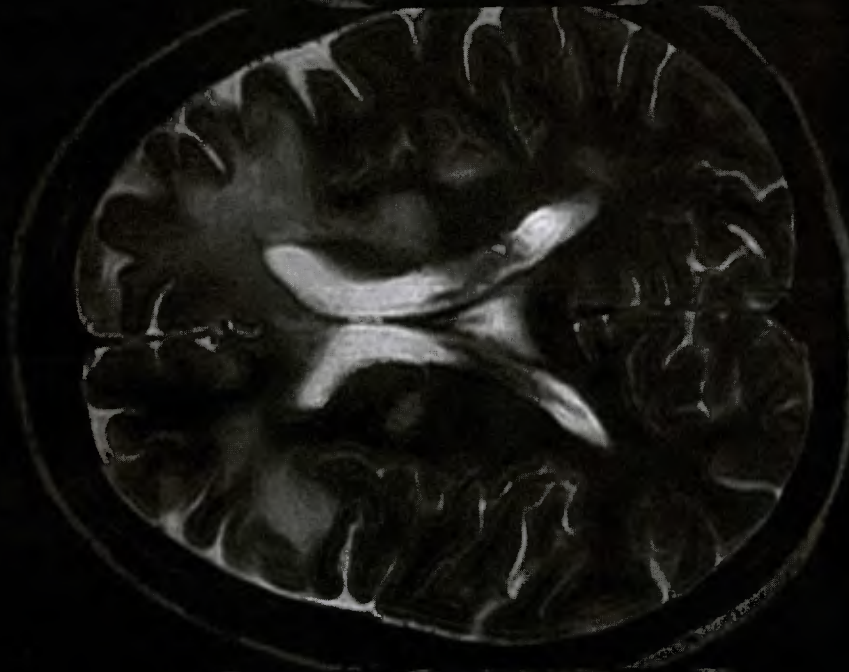
Rebif=45%-66%

The reported infections were mild in both groups of patients.

No infection led to a withdrawal from therapy. The most frequent reported infections in order of frequency:

- Nasopharyngitis (common cold)
- Urinary tract infection
- Herpes Simplex (mouth sores)
- Sinusitis
- Influenza

Risk of PML for a Patient on Tysabri From the Perspective of a Multiple Sclerosis Patient and Why the MS Population Needs Alternative Therapies



Status of PML Cases

- As of 2nd July 2013:
 - 88 patients have died (23%)
 - 289 patients are alive (77%)
 - It is too early to draw conclusions about the outcomes of patients who develop PML while on natalizumab treatment
- PML may be fatal or result in severe disability¹

The median time to death was 2.2 months (range, 0.1 to 15.2 months) for 44 deaths as of 29th February 2012.

1. TYSABRI Summary of Product Characteristics

2. Biogen Idec, data on file.

PML Reported Cases While on Disease Modifying Therapy as of Oct 2013

Alemtuzumab=0

Tysabri=401

How can you justify a rejection of Lemtrada due to "potentially lethal complications" when

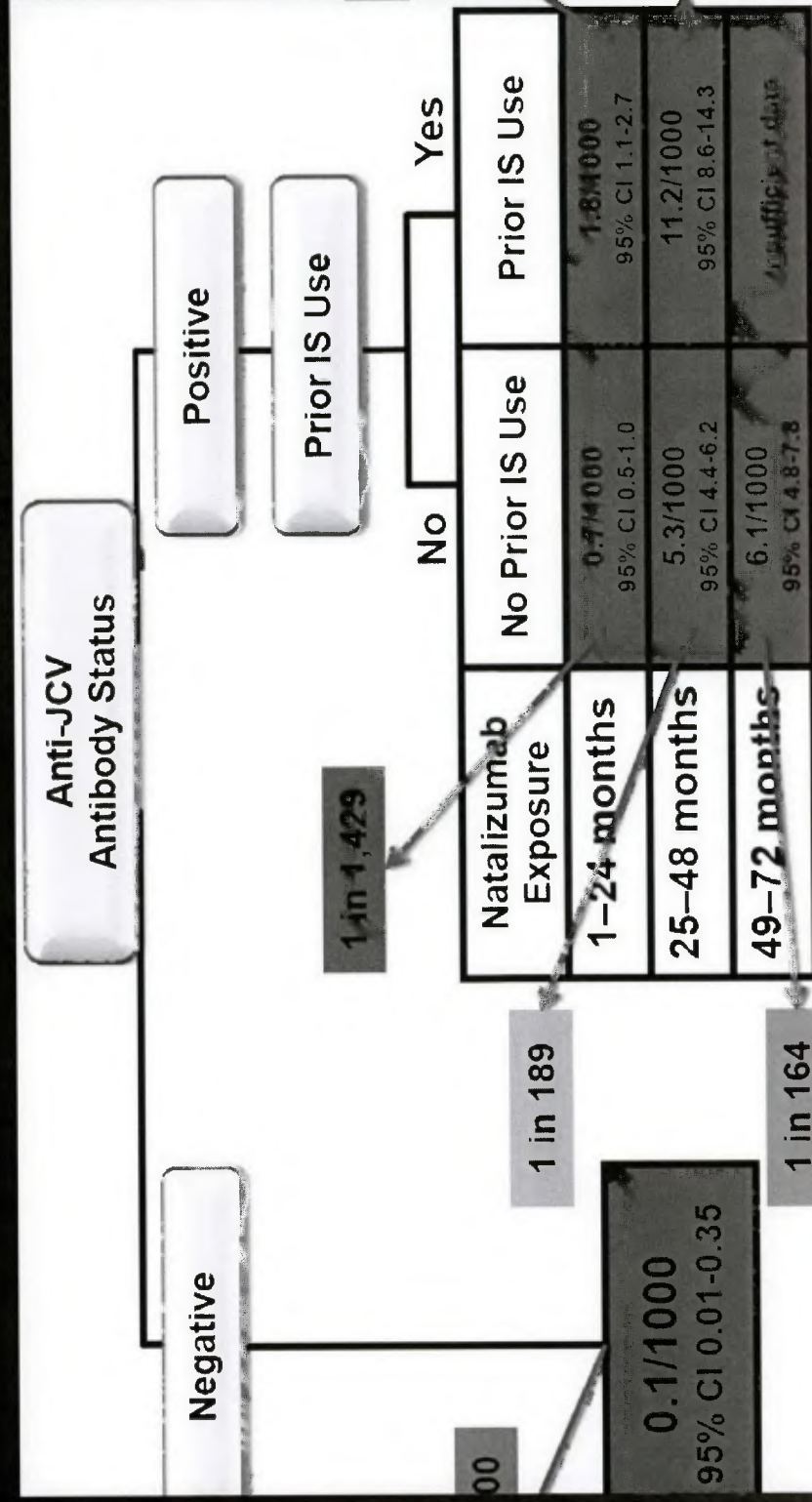
Tysabri has already resulted in 88 lethal complications and hundreds of patients with severe disability due to PML?

Death as a Complication of Disease Modifying Therapy

Alemtuzumab=1 (unrecognized ITP in phase II trial)
Tysabri=88

After adopting a risk management strategy for Lemtrada and comparing it to the risks of Tysabri, a reasonable person would conclude that Lemtrada is safer than Tysabri.

Risk of PML



and 6 years of treatment are limited. There are insufficient data to adequately determine PML risk in anti-JCV a patients with prior IS use and >48 months of natalizumab exposure.

If your risk of PML was 1
in 164, would you choose
to stay on Tysabri?

Patients like me were started on
Tysabri after we failed or could not
tolerate the other available
therapies.

Seventy percent of patients who
start on Tysabri, withdraw from
therapy by 48 months due to fear of
PML.

The patients who failed the injectables, who then switched to Tysabri, who now fear PML, can choose to go to an oral therapy. What happens if these patients can't tolerate the oral therapies or relapse?

An alternative therapy,
such as Lemtrada is
needed for these people.

Escalate Therapy Slowly as Disease
Worsens

vs

Treat Disease at the Earliest Presentation
With the Most Effective Therapy

Maintenance Therapy vs Induction Therapy

Who should make these choices? In the new era of personalized medicine, the regulators should enable the patients and neurologists to make these choices.

Alemtuzumab:

Durable remission?

Cure for some patients?

Both outcomes are beneficial.

Do we need to wait twenty years to find out?

Or...can we manage the risks and offer this
option now?

Alemtuzumab offers the MS patient a 50-60% chance of durable remission or cure in exchange for a 30% chance of thyroid disease and a 2% chance of ITP.

I call that a
"No Brainer"

TIME IS BRAIN

If one of your family members had MS, wouldn't you want them to have a choice? We, as patients, deserve the right to have a choice of therapy.



Control



Multiple sclerosis