

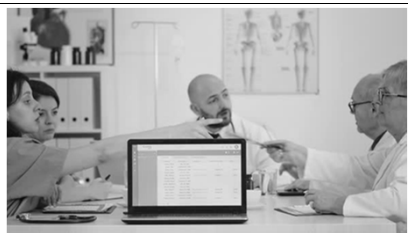


Zebras In Neurology

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 ALLINA HEALTH

If you hear hooves, think horses!

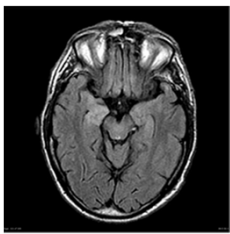


61 year old woman with changing behavior

- 3 weeks
- memory loss
- change in balance
- found at the gas station



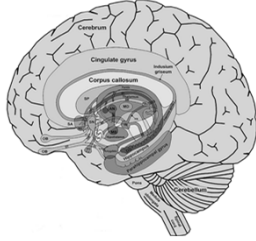
MRI brain



Autoimmune Limbic Encephalitis

Limbic Structures:

- Cingulate Gyrus
- Amygdala
- Hippocampus
- Hypothalamus



Kluver Bucy Syndrome



22 year old man presents with weakness

- 3 weeks of progressive deficits
- All limbs are weak
- Numbness in the arms and legs
- Balance loss

The Girlfriend

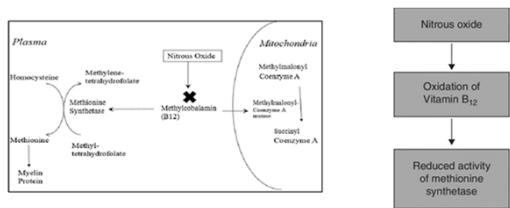


MRI C spine

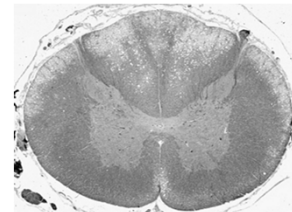


[Whippits Video](#)

Nitrous Oxide inhibition of B12 function



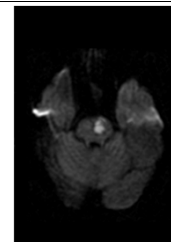
N2O induced Subacute Combined Degeneration



32 year old woman with new right sided weakness

- 1 week after delivering a beautiful boy
- with a 3 year old at home
- headache, nausea, double vision

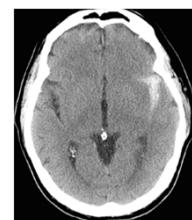
MRI Brain



Day 2

- Worsening headache
- Increase in weakness

CT Head

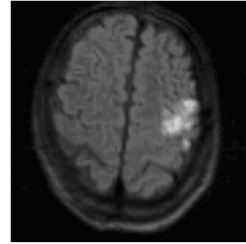


Day 4

Speech Trouble

Right sided weakness worse

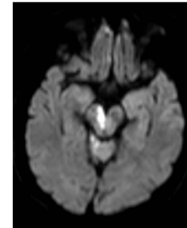
MRI Brain



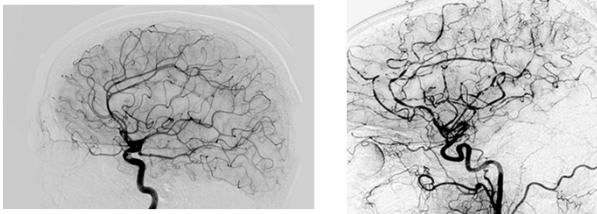
Day 6

Locked in!

MRI brain



Post Partum Angiopathy/ Reversible Cerebral Vasoconstriction Syndrome



55 year old man presents with speech troubles

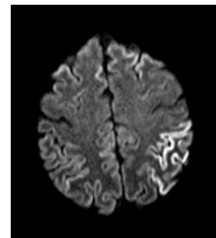
- Started 5 weeks prior and worsening
- Recent diagnosis of stroke
- No improvement with rehab
- Myoclonic jerking of the right arm

Gerstman Syndrome

- Acalculia
- Agraphia
- Finger agnosia
- Left right differentiation difficulty



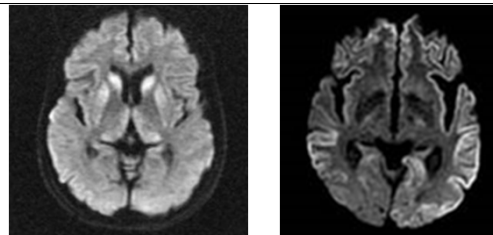
MRI Brain



Seizure Treatment

- Keppra
- Fosphenytoin
- Vimpat
- Depakote
- Propofol
- Versed

Repeat MRI Brain 2 weeks later

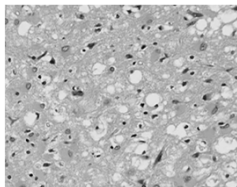


Creutzfeldt Jakob disease

Pp^C is a normal protein



Pp^S is the disease-causing form of the prion protein



Spongiform encephalopathy

How rare is this?

- 300-400 cases of CJD per year in the USA
- Incidence of 1 per million people
- < 5% associated with status epilepticus

37 year old woman with rapidly progressive weakness and dysphagia

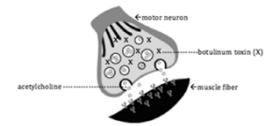
- started 3 days prior to admission
- rapidly progressed to respiratory failure
- descending paralysis
- Hx of Crohn's disease with an ileostomy in

1 week into hospitalization

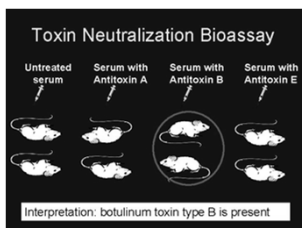
Locked in!

Differential Diagnosis

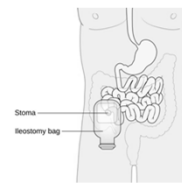
- Guillain Barre Syndrome
- Brain stem Stroke or Hemorrhage
- Neuromyelitis Optica
- Amyotrophic Lateral Sclerosis
- Myasthenia Gravis
- Botulism
- Tetanus
- Belladonna (deadly nightshade)



Botulism confirmatory test

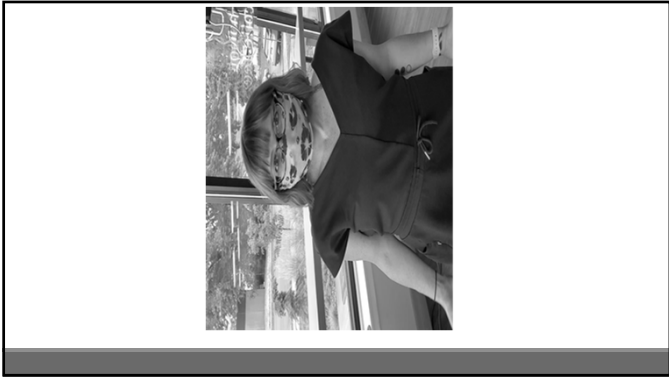


Ileostomy



How rare is this?

- Between 2001 to 2018 only 2 adult cases of Botulism in MN
- Both from improper canned food
- Globally, ileostomy related Botulism has occurred in less than 20 people since 1990.



THE END

