

SJOGRENS SYNDROME : A TRUE CHAMELEON

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SENIOR RESIDENT
DEPARTMENT OF NEUROLOGY

- 40/F (housewife) admitted with
- Imbalance while walking (sways to either side) since 2 days
- Difficulty in swallowing (nasal regurgitation)
- Double vision

She then complained of bilateral dropping of eyelids on day 3

- NO history of
- Weakness in limbs
- Tingling , numbness , pain.
- Urinary incontinence/ constipation
- Fever
- Upper respiratory tract infections
- Breathlessness, palpitations
- No Diurnal variation
- No history of toxin consumption/ medications/ addictions .

- P- 80 /min
- BP - 110/70 mmhg
- SPO2 - 98 % On Room air
- Single breath count - 38
- General examination - normal - (No bite marks)

- NEUROLOGICAL EXAMINATION
- Higher Mental Functions- Normal
- **Bilateral ptosis +**
- Pupils bilaterally equal reactive to light
- Fundus Examination - Normal
- Extra Ocular Movements - **Complete bilateral ophthalmoplegia.**
- **Bilateral LMN Facial Paresis** present
- GAG Reflex - **Weak**

- MOTOR EXAMINATION -
- Tone - Normal
- Power-

	RIGHT	LEFT
UPPER LIMBS	5/5	5/5
LOWER LIMBS	5/5	5/5

- Planter - Flexor
- Reflexes- **Absent**
- Sensory Examination - Pinprick normal, **Impaired Joint Position.**
- **Sensory Ataxia- Present**
- No cerebellar signs
- Bowel / Bladder - Normal.

Summary

- 40/F
- Acute onset
- Ataxia
- Ophthalmoplegia and bilateral ptosis
- Dysphagia
- Bilateral Facial Paresis
- Areflexia

- ? MILLER FISHER SYNDROME
- ?Pharyngeal cervical brachial variant of GBS
- ?? Myasthenia Gravis

- LABORATORY INVESTIGATIONS

- Haemogram, electrolytes , liver function test , Renal function test, vit B12 , CPK total , seromarkers was normal.

- Csf (done on day 7)

Proteins	51
Cells	2 (100%L)
Glucose	87(Bsl 110)

- NERVE CONDUCTION STUDY - NORMAL
- MRI BRAIN AND WHOLE SPINE SCREENING WAS NORMAL

	Observed Value	Reference Range	Disease association
GM1	Negative,1	Negative	Multifocal motor neuropathy Guillian Barre syndrome
GM2	Negative,0	Negative	Multifocal motor neuropathy, Guillian Barre syndrome & variants
GM3	Negative,1	Negative	Multifocal motor neuropathy
GD1a	Negative,4	Negative	Guillian Barre syndrome & variants
GD1b	Negative,0	Negative	Sensory neuropathy
GT1b	Negative,0	Negative	Guillian Barre syndrome & variants
GQ1b	Negative,0	Negative	Miller Fisher syndrome

- Started on IVIG 2g/kg over 5 days
- However patient did not have any improvement even after 2 weeks.

- ANA by IF - 1+ , Speckled

ANA Blot test

The assay detects ANA of IgG class against 17 different antigens, each of which has been shown to be associated with specific autoimmune disorders as listed below -

Sample : Serum

Test Description	Observed value	Biological Reference Interval	Disease association
Antigens nRNP/Sm	Negative	Negative	1. Systemic lupus erythematosus (SLE) 2. MCTD (Sharp syndrome) 3. Systemic Sclerosis 4. Polydermatomyositis.
Sm	Negative	Negative	Systemic Lupus Erythematosus (SLE)
SS-A	Negative	Negative	1. Sjogren syndrome(40-80%) 2. SLE 3. Neonatal lupus erythematosus
Ro-52	Positive	Negative	Sjogren syndrome
SS-B	Negative	Negative	1. Sjogren syndrome(40-80%) 2. SLE 3. Neonatal lupus erythematosus
Scl-70	Negative	Negative	Progressive systemic sclerosis - diffuse & limited
PM-Scl	Negative	Negative	1. Systemic sclerosis including overlap syndrome 2. Polymyositis, dermatomyositis 3. Progressive Systemic sclerosis
Jo-1	Negative	Negative	1. Polymyositis(25-35%) 2. Dermatomyositis
CENP-B (Centromere Protein B)	Negative	Negative	1. Systemic sclerosis diffuse & limited 2. Primary biliary cirrhosis
PCNA (Proliferating Cell Nuclear Ag)	Negative	Negative	SLE(3%)
ds DNA	Negative	Negative	SLE(40-90%)
Nucleosomes	Negative	Negative	SLE
Histones	Negative	Negative	1. Drug induced lupus(95%) 2. SLE 3. Rheumatoid arthritis (15-50%)
Ribosomal P-protein	Negative	Negative	SLE
AMA-M2 (Mitochondrial)	Weak Positive	Negative	Primary biliary cirrhosis
Mi-2	Negative	Negative	Dermatomyositis
Ku	Negative	Negative	SLE/Myositis/SSC

Suggested clinical correlation and ANA by IF.

Ro- 52 POSITIVE

HISTOPATHOLOGY REPORT

HPE no. :

B/174/24

Clinical details :

Nature of specimen

HPE of 4 mm Punch biopsy from lower lip mucosa.

Gross Examination
:

Received disc of skin measuring 0.4 cm in diameter.
01 - ALL

Microscopy :

Section shows stratified squamous epithelium with underlying fragment of salivary gland tissue. The salivary gland shows mild focal ductal dilatation with mild to moderate lymphocytic infiltrate in the periductal region.
No evidence of basal cell hyperplasia or parenchymal fibrosis.
No evidence of dysplasia / malignancy.

Diagnosis :-

Chronic Sialadenitis favouring Sjogren's syndrome.

Advice: Kindly correlate with antibody titres to confirm the diagnosis of sjogren's syndrome.

- SCHIMERS TEST- WETTING >10 MM IN BILATERAL EYES (NORMAL)
- TEAR BREAK UP TIME - NORMAL

- Inj methylprednisolone 1gm iv 1-0-0 for 5 days followed by oral steroids.
- Patient clinically improved after steroids.
- Planned for starting immunosuppression
- Currently in improving phase.

CASE REPORT

Neuropathy similar to Miller Fisher syndrome associated with primary Sjogren's syndrome

Response to intravenous immunoglobulins

Genç, Emine; Genç, Bülent Oguz; Avunduk, Mustafa Cihat^{*}; Kozak, Hasan Hüseyin; Ilhan, Nurhan

[Author Information](#) 

Annals of Indian Academy of Neurology 9(2):p 116-118, Apr–Jun 2006. | DOI: 10.4103/0972-2327.25985

CASE 2

- 36/F
- Presented with
- Tingling and numbness in bilateral hands and feet since 15 days
- Progressive proximal lower limb weakness

- History of fever for 3 days (20 days back)
- No history of cranial nerves or bladder bowel involvement.

PAST HISTORY

August 2012- GBS (paraparesis) received IVIG took 2 months for recovery

September 2014- GBS (quadriparesis) had hypoxemia , required BIPAP ventilation —received IVIG —recovered in 4 months

April 2015- GBS (paraparesis) Received IVIG recovered in 4 months

MAY 2022 (DY PATIL) - GBS (quadriparesis) Received IVIG - recovered in 4 months

All episodes preceded by fever (first 3 episodes had URTI, 4th episode had UTI)

No residual weakness /sensory symptoms after each episode .

- P - 80 / MIN
- BP - 120/80 mmhg
- SPO2 - 98 % On room air
- Single breath count - 34

- CRANIAL NERVES- Normal
- MOTOR EXAMINATION
- TONE - Normal

POWER	RIGHT	LEFT
UPPER LIMBS	5/5	5/5
LOWER LIMBS	PROXIMAL 4/5 DISTAL 5/5	PROXIMAL 4/5 DISTAL 5/5

- **AREFLEXIA** IN BILATERAL LOWER LIMBS
- **PLANTERS - FLEXOR**
- **SENSORY** - **Impaired joint position and vibration** sense in bilateral upper limbs and lower limbs
- **NO cerebellar signs/ bowel bladder involvement**

- **PREVIOUS REPORTS (MAY 2022)**
- NCS - Demyelinating sensorimotor polyneuropathy with secondary axonal degeneration involving all four limbs.
- CSF-R/M

Proteins – 45

Glucose – 78 mg/dl (corresponding BSI- 112)

Cells -2 (both lymphocytes)

Previous Nerve Biopsy Report -

NERVE BIOPSY - Date: 05/05/2022 09:47 AM

Nature Of Specimen:

Received a curved flattened nerve segment measuring 2cm in length. All processed -A1,A2.

Grossed by Dr. Sridevi. Dt: 29/4/22

Histopathology Report:

Section from nerve biopsy shows hyperosmolar artefacts. There is mild subperineurial edema. There is no acute axonal breakdown or onion bulb formation. There is no inflammation or vasculitis. Kpal stain shows mild non uniform loss of myelinated fibres, with several thinly myelinated fibres and occasional regenerating clusters.

Final Impression:

Demyelinating neuropathy; right sural nerve biopsy

MAY 2022

ANA BY IFA - 1+

ANA – BLOT - Ro52 positive

SCHIMERS TEST and Tear Break up time - Normal

Advised for minor salivary gland biopsy (not willing)

- **During the current admission** she was treated with Inj methylprednisolone 1gm IV OD for 5 days ———> **Improved** .
- Advised for salivary gland biopsy and planned for immunomodulatory therapy .

Rheumatic Diseases Presenting with Guillain-Barré Syndrome: Sjögren's Syndrome and Systemic Lupus Erythematosus

Guillain-Barré Sendromu ile Prezente Olan Romatolojik Hastalıklar: Sjögren Sendromu ve Sistemik Lupus Eritematozus

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However **sjogrens syndrome** presenting as **Recurrent GBS** has not yet been reported

CASE 3

29/Female

Episodic muscle contractions and abnormal posturing in bilateral upper limbs and lower limbs

Since 5 months

Symptoms used to last for 2-3 min with 10-12 episodes per day.



DYSTONIA

No Behavioral abnormalities.

No Diurnal variation

No symptoms during sleep.

ON EXAMINATION

P – 78/min

BP – 138/70

RR – 18 /min

NEUROLOGICAL EXAMINATION

Tone was increased in all 4 limbs.

Generalized Hyperreflexia

Plantars were b/l extensor

INVESTIGATIONS

- Routine investigations were normal
- Serum ceruloplasmin , serum iron profile, ionised calcium levels, serum Magnesium , phosphorous, vitamin D, total CPK Nac , Thyroid profile was normal
- Nerve conduction study - Normal
- MRI Brain - Normal

Dental caries



- TREATMENT

- Patient was treated with IV steroids and symptomatic management .

CASE REPORT

Case of primary Sjogren's syndrome preceded by dystonia

Kerime Ararat,¹ Idanis Berrios,² Anas Hannoun,¹ Carolina Ionete³

CASE 4

24 Year old female

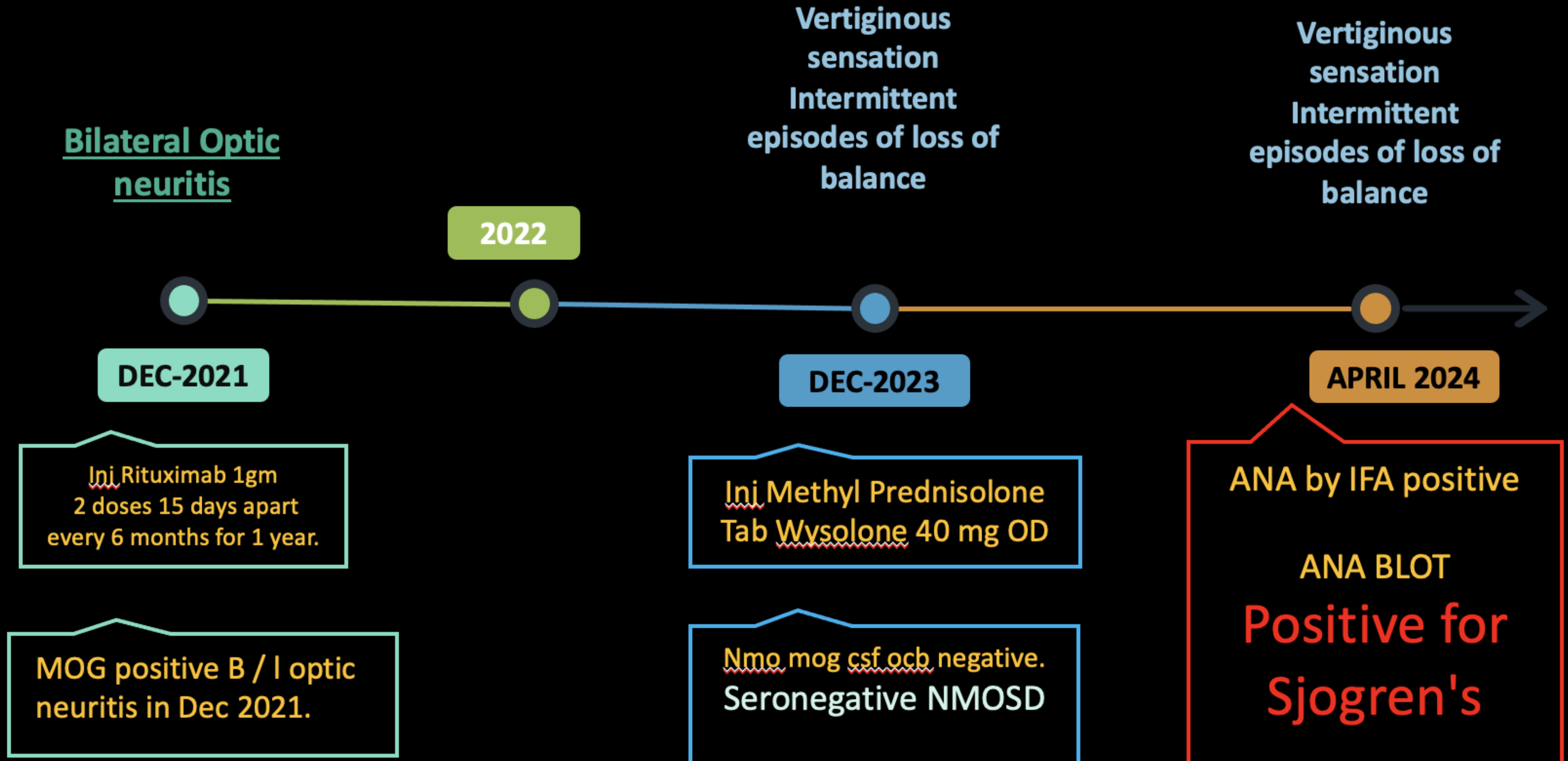
- Imbalance while walking

since 3 months

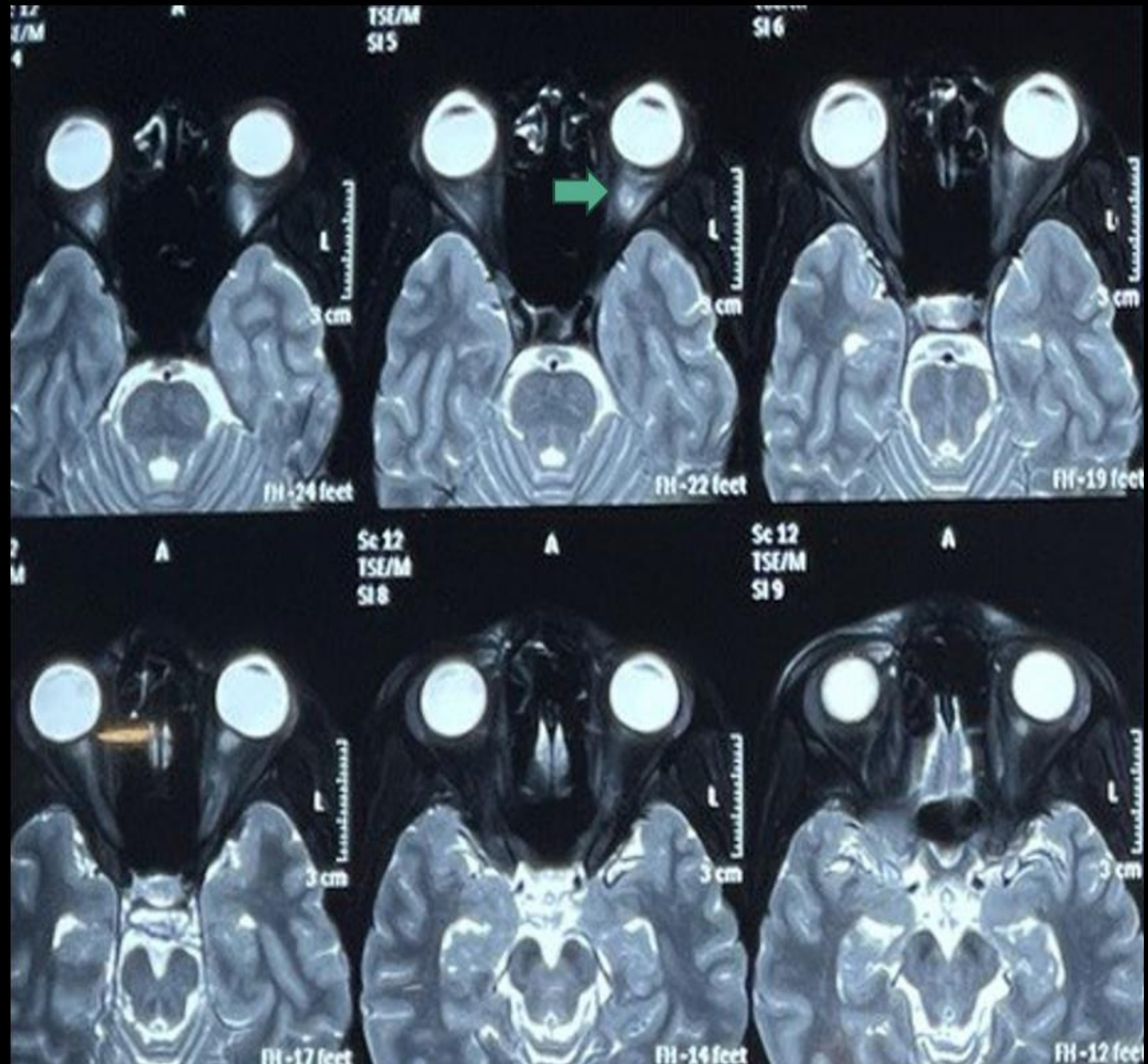
- Dizziness and multiple episodes of vomiting.

since 1 month

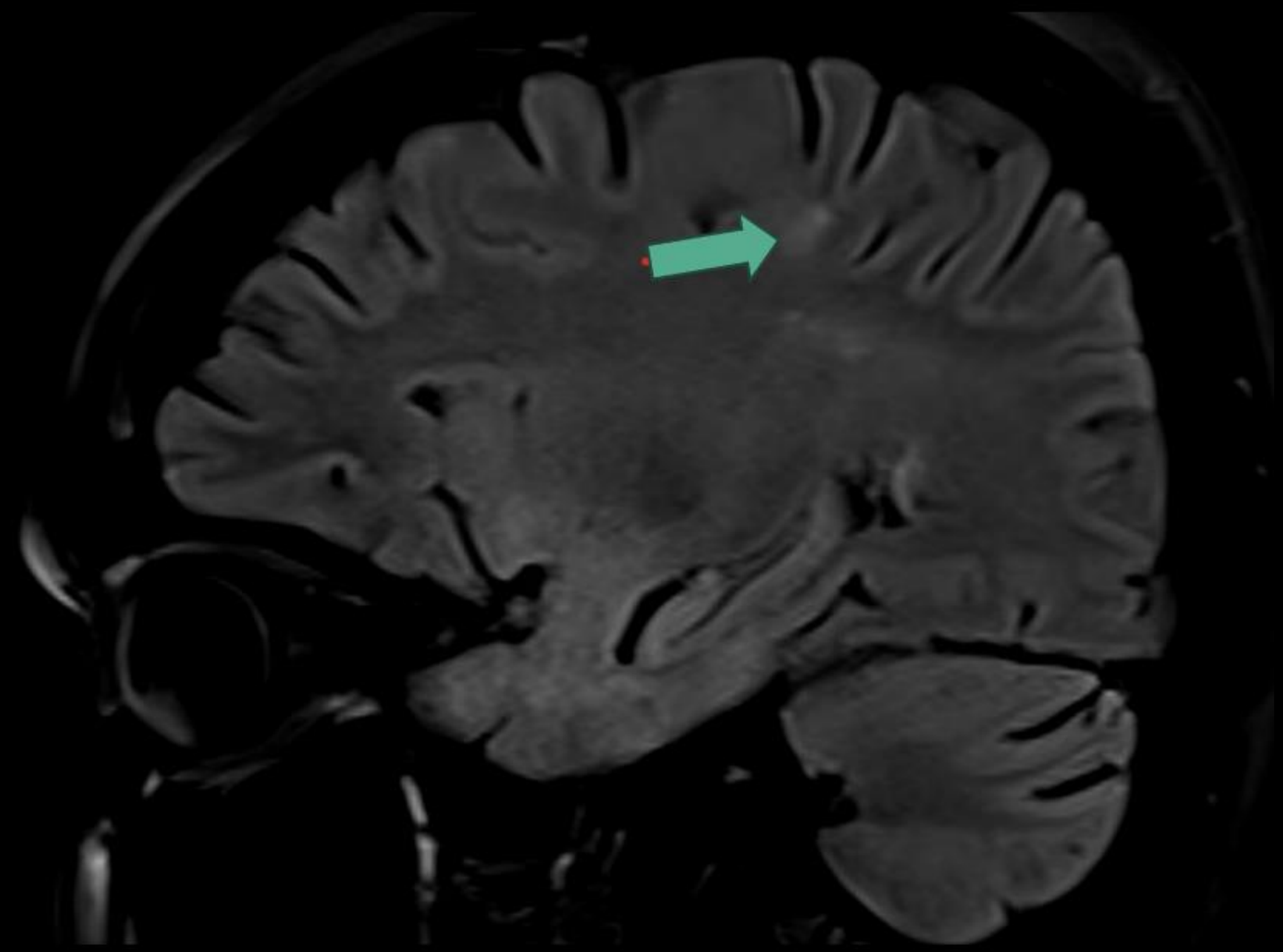
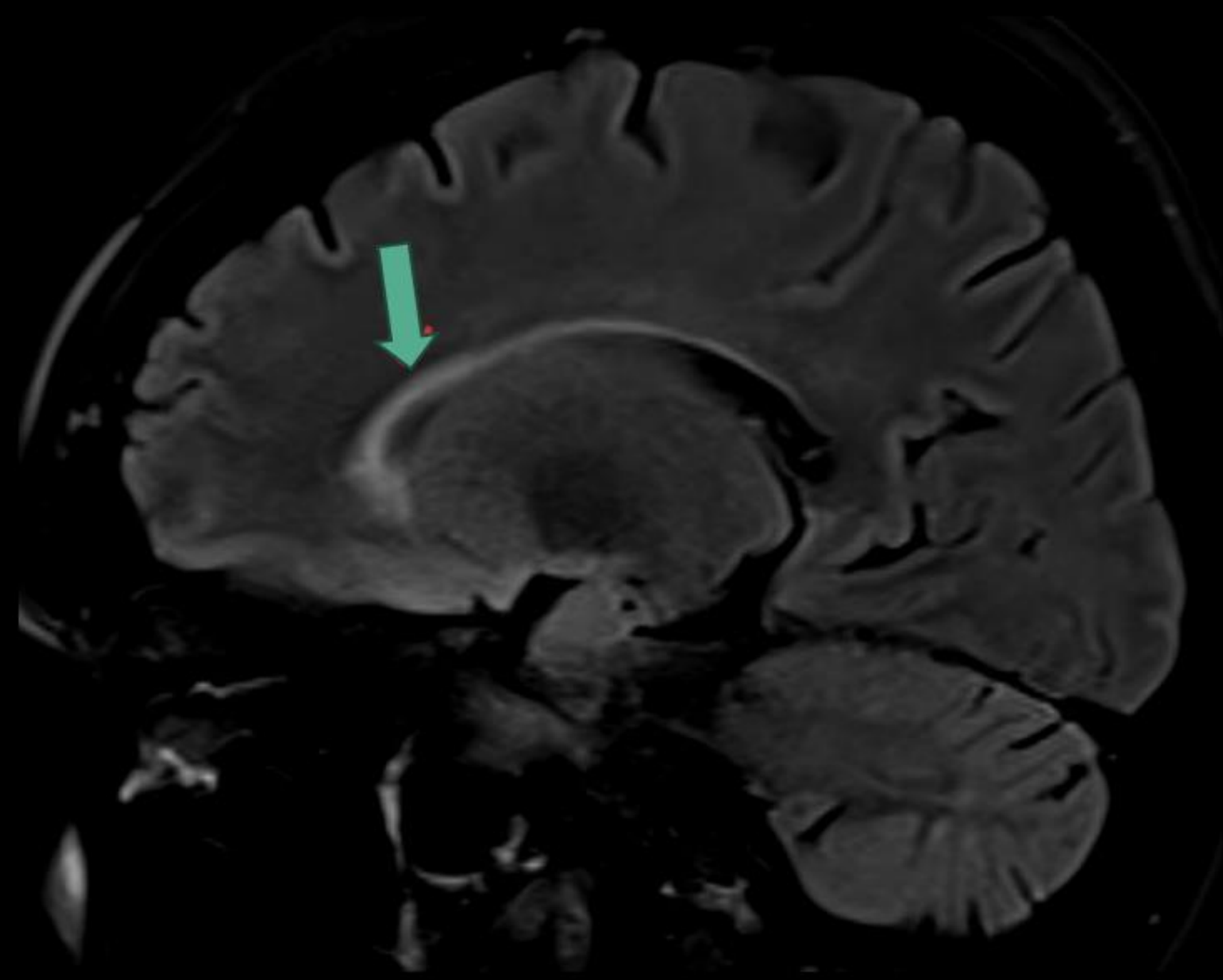
Chronology of clinical events



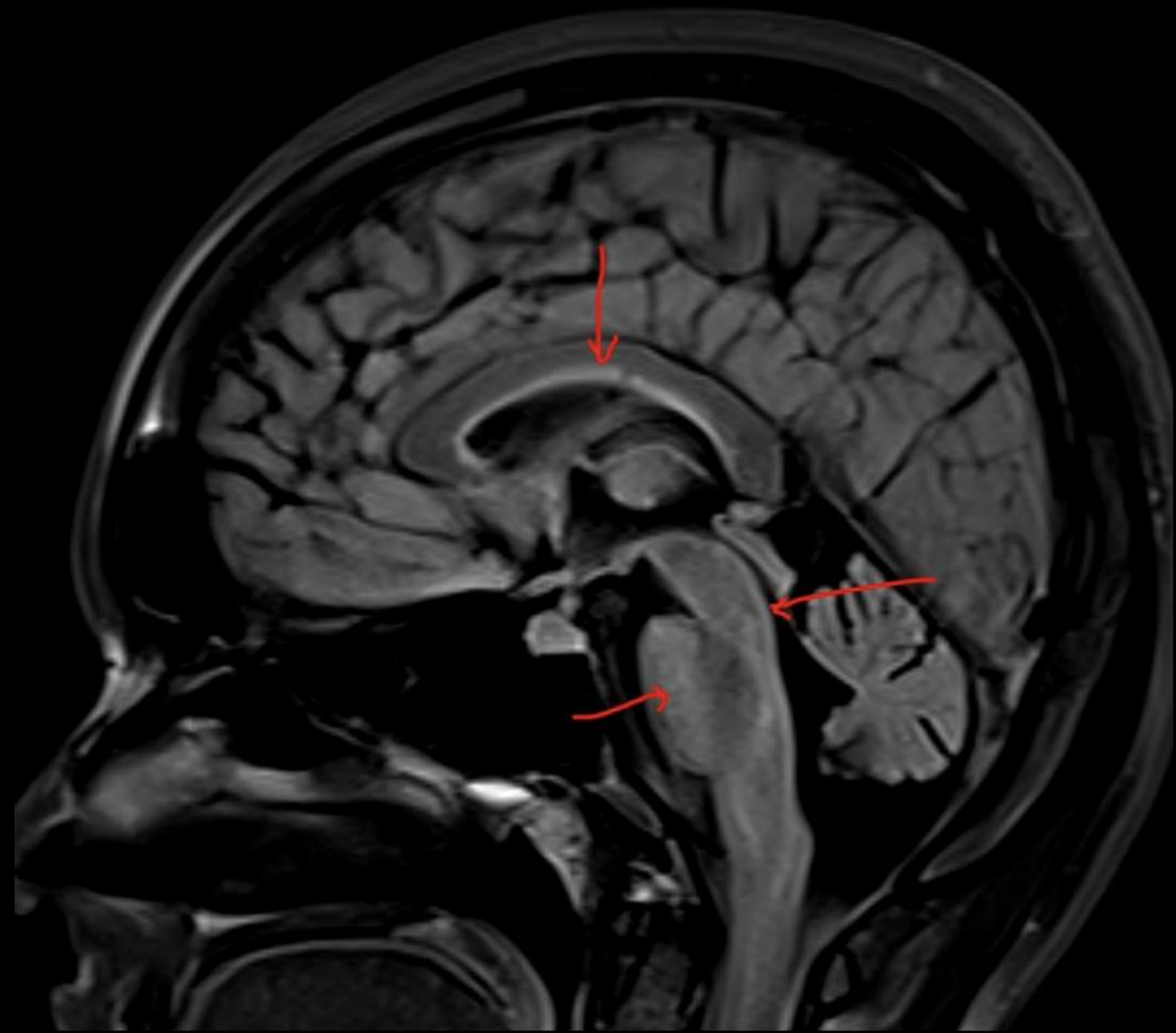
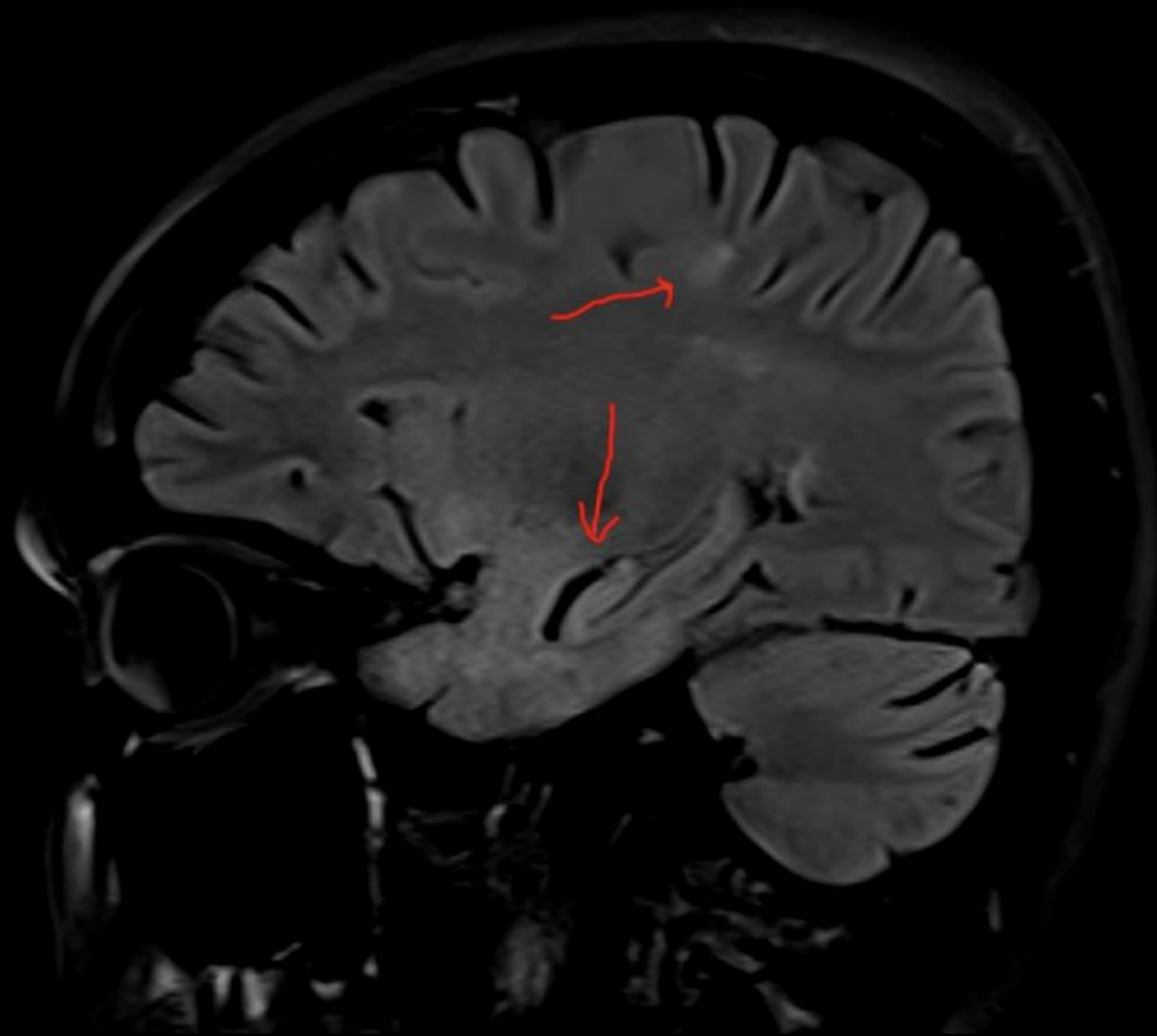
MRI Orbit - DEC-2021



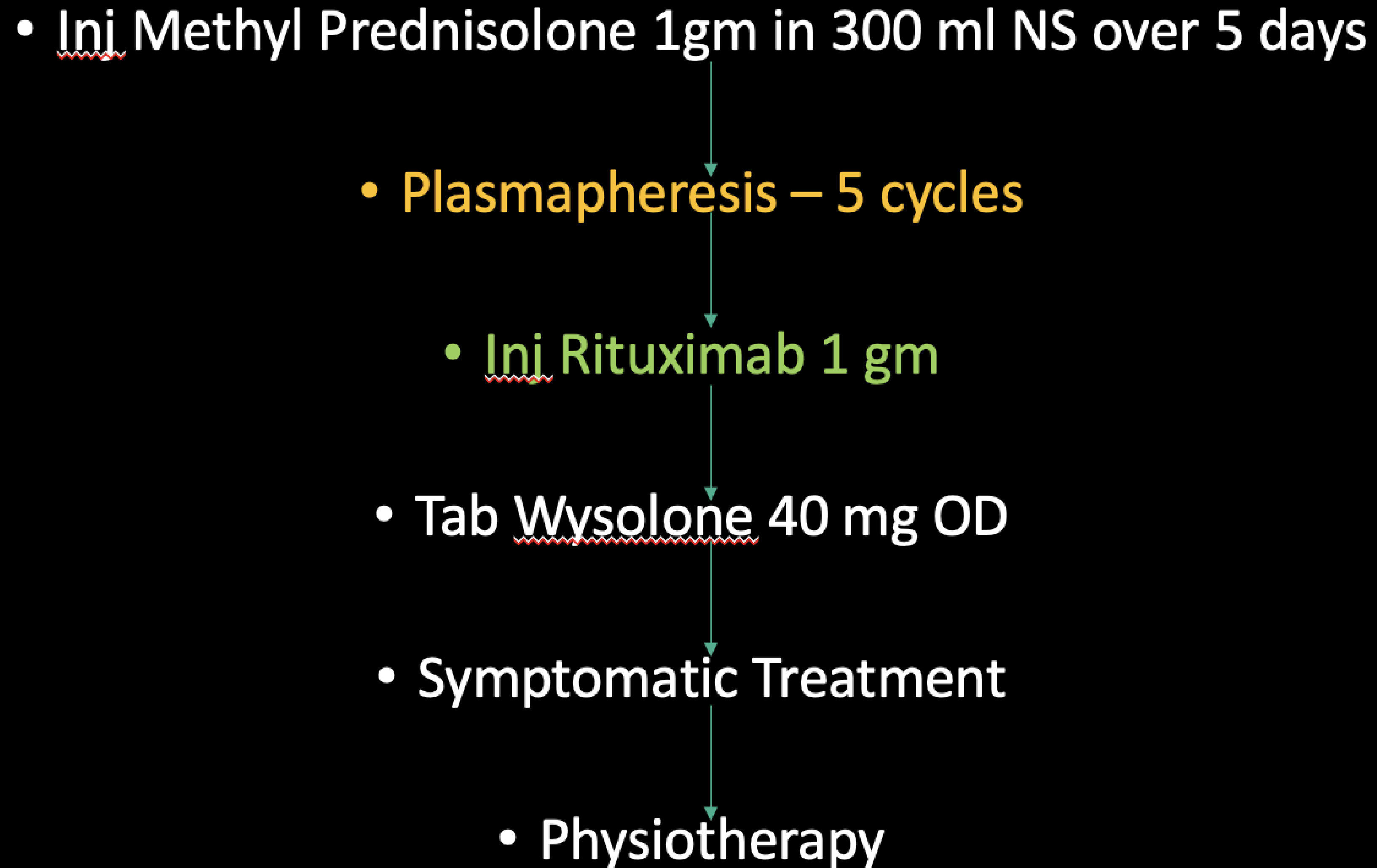
MRI Brain – DEC -2023



MRI JAN 2024



Treatment given

- Inj Methyl Prednisolone 1gm in 300 ml NS over 5 days
 - Plasmapheresis – 5 cycles
 - Inj Rituximab 1 gm
 - Tab Wysolone 40 mg OD
 - Symptomatic Treatment
 - Physiotherapy
- 



frontiers

CNS demyelinating events in
primary Sjögren's syndrome: A
single-center case series on the
clinical phenotype

TAKE HOME MESSAGE

- The co occurrence of both Primary Sjogren's Syndrome and symptoms mimicking GBS and MFS suggest that there is a clinical rationale for searching for **occult Sjogren's Syndrome** in such patients.
- Neurologic manifestations may precede sicca symptoms in 33 to 93 percent of patients.
- **Sicca symptoms can be so subtle while dystonia** can be the only presenting symptoms in primary Sjogren's syndrome.
- Sjogren's can present as a demyelinating disease like NMOSD.

NEUROLOGICAL PRESENTATION OF SJOGRENS SYNDROME

CENTRAL NERVOUS SYSTEM

Spinal cord dysfunction

- (i) Chronic progressive myelopathy
- (ii) Lower motor neuron disease
- (iii) Neurogenic bladder
- (iv) Acute transverse myelitis

Progressive-multiple sclerosis-like syndrome

Central nervous system vasculitic involvement

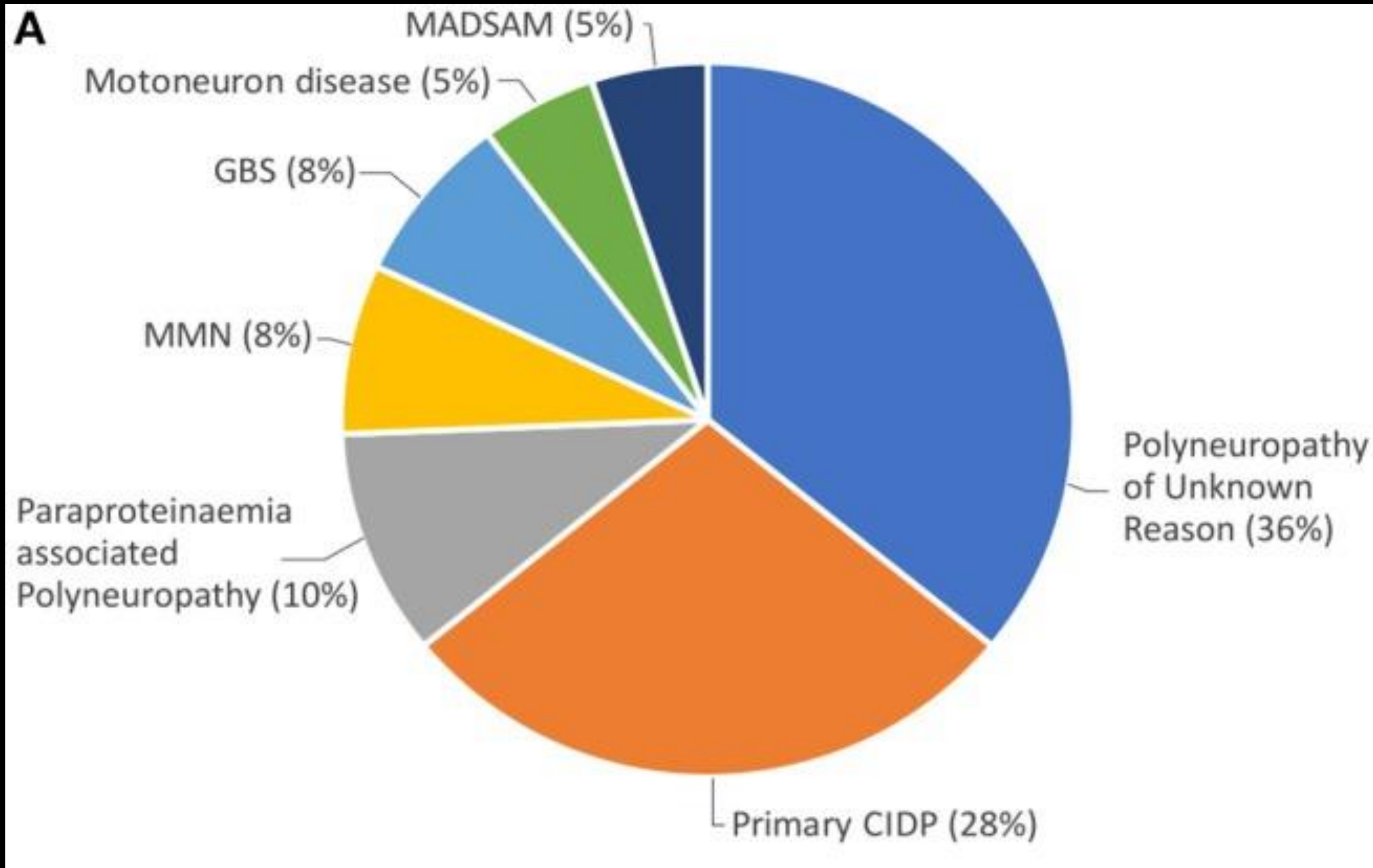
Focal

- (i) Seizures
- (ii) Movement disorders
- (iii) Cerebellar syndrome
- (iv) Optic neuropathies
- (v) Pseudotumor lesions
- (vi) Motor and sensory loss

Multifocal disease

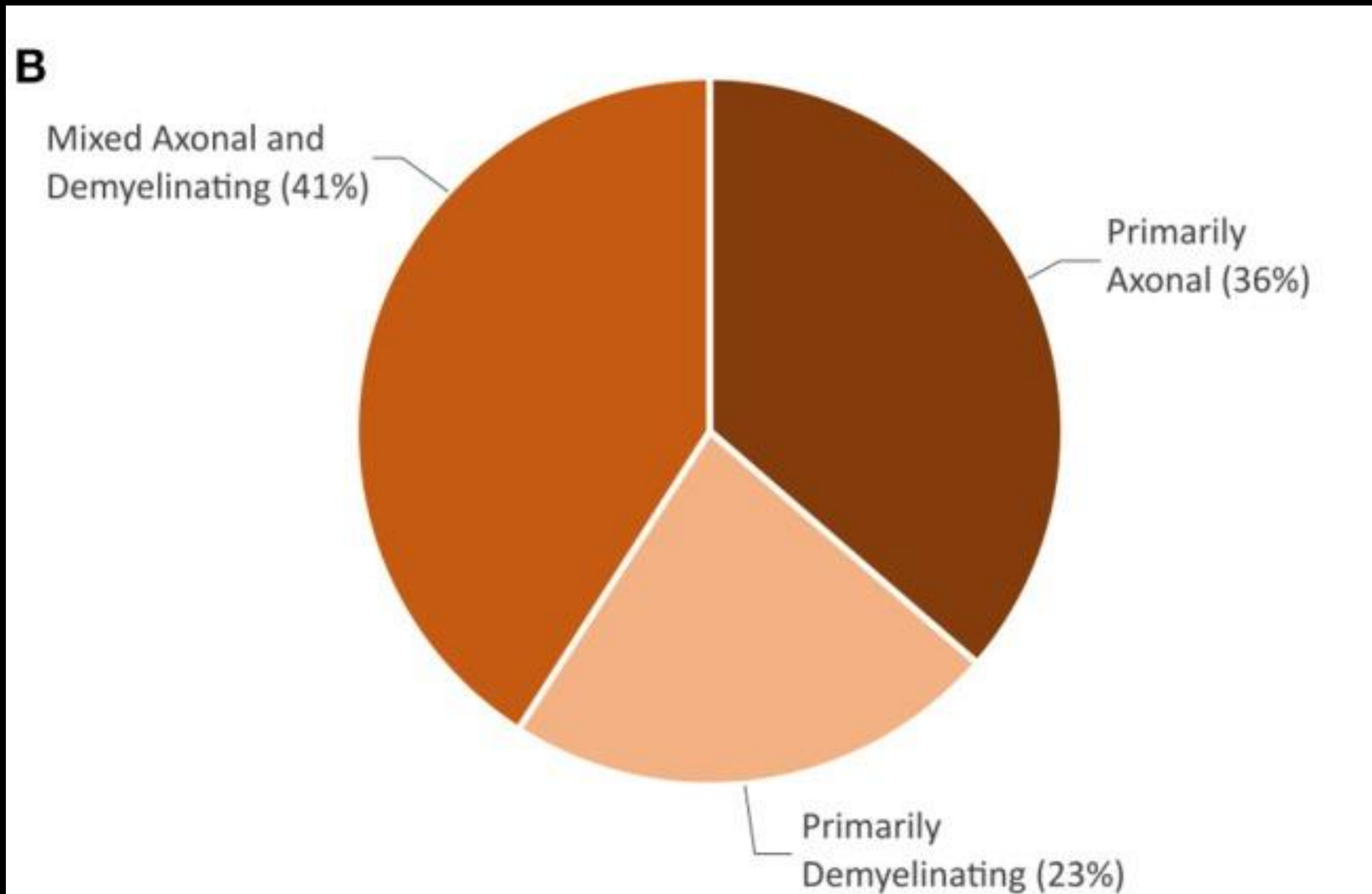
- (i) Cognitive impairment
- (ii) Encephalopathy
- (iii) Dementia
- (iv) Psychiatric abnormalities
- (v) Aseptic meningoencephalitis

Neuropathy Diagnosis prior to sjogrens syndrome diagnosis



Small-fiber neuropathy
Multiple mononeuritis
Trigeminal and other cranial nerves neuropathies
Autonomic neuropathies
Sensory ganglioneuronopathy

Distribution of electrophysiological damage pattern at initial neurographic analysis



THANK YOU