



INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

An International Open Access, Peer-reviewed, Refereed Journal

THE ROLE OF HOMOEOPATHIC MEDICINE- NATRUM MUR 200 ACT AS AN ELIXIR IN CASE OF BELL'S PALSY

DR. PALAK HETANKUMAR PAREKH¹, DR. SHAILENDRA BHAMAR² and DR. HITARTH MEHTA³, DR. URMILA BHARGARIYA⁴, DR. VANI OZA⁵

¹P.G SCHOLAR, PRACTICE OF MEDICINE, RAJKOT HOMOEOPATHIC MEDICAL COLLEGE, PARUL UNIVERSITY

²PROFESSOR AND GUIDE, DEPARTMENT OF PRACTICE OF MEDICINE, RAJKOT HOMOEOPATHIC MEDICAL COLLEGE, PARUL UNIVERSITY

³PRINCIPAL, HOD OF PRACTICE OF MEDICINE, RAJKOT HOMOEOPATHIC MEDICAL COLLEGE, PARUL UNIVERSITY

⁴ASSISTANT PROFESSOR, PRACTICE OF MEDICINE, RAJKOT HOMOEOPATHIC MEDICAL COLLEGE, PARUL UNIVERSITY

⁵PG COORDINATOR, RAJKOT HOMOEOPATHIC MEDICAL COLLEGE, PARUL UNIVERSITY

Abstract- Bell's palsy is a condition that causes sudden weakness in the muscles on one side of the face. The exact cause is unknown. But in this case the patient shows the psychosomatic responses. The mental cause which affects the somatic part i.e. the body. Prolonged use of modern medicines such as corticosteroids which can cause many side effects such as constipation, chronic headache, diarrhea, etc. but only temporary relief takes place, after withdrawal of medicines can cause recurrent episodes. By the dynamic approach, on the basis of individualization of the patient and fundamental law of homoeopathy i.e. - law of similar, permanent cure takes place from the root cause.

Keywords- Bell's palsy, elixir, homoeopathic medicine, Natrum Mur

Article type- Case Report

INTRODUCTION

Bell's palsy is characterized by an acute, unilateral, partial or complete paralysis of the face. Bell's palsy occurs in a lower motor neuron pattern. ^[1] Bell's palsy also known as acute peripheral facial palsy of unknown cause. It can occur at any age. The exact cause is not known. ^[2] Bell's palsy occurs due to swelling of the facial nerve in the area where it travels through the bones of the skull. ^[3] Symptoms of bell's palsy- weakness of one side of the face, or not being able to move one side of face, a drooping of eyelids, drooling of saliva, dry mouth, loss of taste, a dry or watery eye, blinking of eyes, difficulty in smiling, headache, tinnitus, etc. ^{[4],[5]}

Natrum Mur is one of the best constitutional medicines in cases of psychosomatic diseases. Suppressed grief, sadness, sensitivity to criticism, depression, ailments from mental trauma, fatigue, pains that are better from

the warm application, desire for salt, etc are the key symptoms of natrum mur.^{[6],[7],[8],[9]} The Natrum Mur selected on the basis of miasmatic approach, constitutional approach as well as on the matching of symptoms. The fundamental law of homoeopathy- law of similar- the remedies are selected. The potency, repetition is on the basis of susceptibility, sensitivity, miasm of the patient.^{[10],[11]}

CASE REPORT: - A female patient came in OPD on date- 15/10/24, age of about- 65 years belonging from Muslim community.

The **PRELIMINARY DATA** are as follows:-

Name of patient- ABC

Date- 15/10/24

Time- 10:30 am

Age- 65 yr

Sex- female

Religion- Muslim

Nationality- Indian

Education- 6th STD

Occupation- housewife

Marital status- married

Name of husband- xyz

Occupation of her husband- driver

Age of spouse- 65 yr

Brother- 2- elder

Sister-4- 3- elder- died and 1- younger- alive

Children- 3

Diet- veg, non veg, eggs

PRESENTING COMPLAIN

COMPLAIN WITH DURATION	LOCATION AND EXTENSION	SENSATION/ CHARACTER AND PATHOLOGY	MODALITIES AILMENTS FROM, AGGRAVATION, AMELIORATION	CONCOMITANTS/ ACCOMPANYING SYMPTOMS WITH DURATION
Twitching over one side of face and blinking in right side of eye and dribbling of saliva since 10 years, frequency- on/off and duration- 2 minutes	Face ↓ Right side of face with involving eye and mouth Onset- since 10 year Frequency- on and off Duration- 2 minutes	Twitching+2 Stretching felling+2 Blinking+2 Dribbling of saliva+2	A/f- grief+3 of father and mother death, Suppression of emotions+2 <+2 night >+3 warm water application No effect – during talking, eating	Body ache+

PAST HISTORY AND FAMILY HISTORY:-

Right eye- cataract- operated – 3 years ago

Vision- nearsightedness – specs- d-2 in both eyes

Menopause- 20 yrs

F/h- father- DM, HTN- death due to age

Mother- DM- death due to age

Husband- DM

Elder son- DM

2 elder sister- HTN- died, 1- IHD- death and 1 is alive – younger than patient

PHYSICAL EXAMINATION:-

Appearance- fair complexion, medium built up

T- 96.4F

Bp- 126/78 mmhg

Weight- 58 kg

Pulse- 84/min

Nails- pink

Conjunctiva- pink

Sclera- pink

Tongue- pink and moist

Rs- Clear, BS- vesicular

CVS- S1S2- normal

Per abdomen- soft

Gait- normal

Eyes closure is incomplete

Bell's phenomenon is present- pt shut the eyes. The upward movement of right eyeball

Skin- smooth, warm, elasticity- maintain, no lesions, no rashes.

LAB REPORTS:-

CBC

Hb- 12.6gm%

WBC- 4120 cells/ micro liter

Plat- 204000 platelets/ micro liter

FBS- 88 mg/dl

S.creat- 0.5 mg/dl

ADVICE FOR LAB INVESTIGATIONS:-**Electromyography**

It is a diagnostic procedure that measures the electrical activity of muscles. Help to detect the nerve and muscle problems and used to diagnose neurological diseases. It is used to assess the severity of facial nerve damage by measuring the electrical activity of facial muscles, helping to determine the extent of nerve involvement and predict the potential for the recovery in a patient with Bell's palsy; it is particularly useful when performed a few days after symptoms onset to evaluate the degree of nerve damage.

MRI of facial nerve

Helps to diagnose Bell's palsy and also rule out other cause of facial nerve paralysis.

Contrast enhancement- asymmetric enhancement of facial nerve, particularly in labyrinthine portion. Seen in 60-90% of pt with Bell's palsy.

Neoplasm- helps to identify tumors that compress the facial nerve such as hemangioma, meningioma.

CT scan

Used to evaluate the temporal bone and rule out the causes of facial paralysis.

PERSONAL HISTORY:-

App- decreased since birth

Perspiration- profuse

Perspiration on- face, back

Craving- sour+, tea+3, salt+3

Aversion- sweets+2, egg+. Milk+, chicken+

Stool frequency- once/day

Consistency- semisolid

Urine- color- yellow

Frequency of urine- 5-6 times/ day

Sleep- duration- 5-6 hr/ night and noon nap- 2 hr/day

Position of sleep- left side

Sleep disturbed by- anxiety, noise+2

Dreams- death of relatives

Thermal- hot patient- from C2H2 to C2H3-

[summer- bath- lukewarm water, no covering, fan- on 5, winter- bath with warm water, cover- blanket, fan- 3, monsoon- bath- lukewarm, cover- thin cover, fan- full]

LIFE SPACE-

Childhood-

Pt's mother nature- cool and calm. Pt's father nature- strict and aggressive in nature. Pt – fear of her father because of her father aggressive nature. Pt's father occupation- farmer.

Financial condition – poor. Pt's elder brother nature- irritable. Pt is less talk with everyone.

School life-

Studied up to 6th std. Average in studies. Left to study further because her father denied because of financial condition. She thinks – if she will study further then she is doing something in her life.

Marriage life-

Married at the age of 22 yrs. She was not happy – when her father and mother arranged her marriage due to poor financial condition. Husband nature- cool and calm. Brother- in - law expired- heart attack.

Her father and mother died since 10 yrs because of age.

Pt as a person-

Sympathetic, suppressed all emotions, does not want to live alone

Fear of being alone at night, weeping disposition, fastidious but do work slowly

MENTAL SYMPTOMS:-

Grief+3 of father and mother death

Desire for company+3

Weeping disposition+3

Fear of being alone at night+2

Sympathetic+2

Suppressed of emotions+3

Fastidious+2 in work but do work slow

PROVISIONAL AND DIFFERENTIAL DIAGNOSIS:-

Bell's palsy [ICD 10 code G51.0]

Mild weakness to paralysis of one side of the face

Dribbling of saliva

Twitching of facial muscles

Blinking of affected eyes

DIFFERENTIAL DIAGNOSIS:-

Lyme disease [A69.2] - can cause facial palsy, but other symptoms such as muscle and joint aches, swollen lymph nodes, and affected on both the side of the faces, occurs in summer months, caused by bacteria Borelli, rash on skin, fever, headache, etc.

Parotid neoplasm's [D11.0] - spasm specifically in parotid gland area often associated with pain and inflammation, sharp and sudden pain in cheek areas occurs due to infections etc.

Otitis media [H66.9] - Otitis media impacts the middle ear, causing ear pain and hearing issues and sometimes fluid drainage from the ear, but severe cases of otitis media causing facial paralysis due to inflammation of facial nerve damage and mimic Bell's palsy.

FINAL DIAGNOSIS- BELL'S PALSY

IMMEDIATE INTERVENTIONS:-

It is to seek medical attention as soon as possible and begin a course of oral corticosteroids, along with eye ointments and antiviral medications ideally within 72 hours of the onset of symptoms which reduce the inflammation of nerve and chances of recovery, but early diagnosis is very difficult but prolonged corticosteroids cause's side- effects.

Non- pharmacological management:-

Physical therapies like facial exercises, acupuncture, massage, electrical stimulation and eye care to protect the cornea from dryness.

Homoeopathic management-

Pt taking medicines for so many years, after taken medicine, temporary relief, but cured not take place since 10 yrs she suffers. By the dynamic approach, cured take place.

Referred by- patient

EVALUATION AND CLASSIFICATION OF THE SYMPTOMS

► MENTAL SYMPTOMS

1. Grief+3 of father and mother death
2. Sympathetic+3
3. Weeping disposition+3
4. Fear of alone at night+2

5. Wants Company+3
6. Dreams of death of relatives+2
7. Emotions suppressed+3
8. Fastidious+2 in work but do slow

► PHYSICAL GENERALS

1. Perspiration- profuse
2. Craving- salt+3
3. Craving- tea+3
4. Craving- sour+
5. Aversion- sweets+2
6. Aversion- egg+
7. Aversion- milk+
8. Aversion- chicken+
9. Sleep position- left side
10. Sleep disturbed by noise+2
11. Sleep disturbed by anxiety+
12. Hot patient
13. Fair complexion
14. Medium build up

► PHYSICAL PARTICULAR

1. Perspiration- on face and back
2. Twitching+2 of right side of face
3. Stretching feeling+2 over the right side of the face
4. Blinking+2 of right side of the eye
5. Dribbling of saliva+2
6. Twitching +2 of the right side of the face A/F-- grief+3 of father and mother death
7. Twitching+2 of right side of the face- A/F – suppressed of emotions
8. Twitching +2 of right side of the face- <+2 at night
9. Twitching of right side of the face- >+3 warm water application

ANALYSIS AND EVALUATION OF SYMPTOMS

- [short forms- sym- symptoms, sen- sensation, men- mental, emo- emotion, phy- physical, part- particular, ch c/o- chief complain, chr- chronic, fun- functional, n dia- non diagnostic, str- structural, attri- attribute, gen- general, char- characteristics, syco- sycotic miasm, tub- tubercular miasm, sub conc- sub conscious, a/f- ailments from, <, agg- aggravation, >, ame- amelioration from, mod- modalities, com- common]

1. Grief+3 of father and mother death- sym/ sen/ men/ emo/ char/ n dia/ ch c/o/ Chr/ fun/ syco
2. Sympathetic+3- attri/ men/ emo/ char/ psora
3. Weeping disposition+3- attri/ men/ emo/ char/ psora
4. Fear of alone at night+2- attri/ men/ emo/ char/ psora
5. Wants Company+3- attri/ men/ emo/ char/ syco
6. Dreams of death of relatives+2- attri/ men/ sub conc/ chr/ syco
7. Emotions suppressed+3- attri/ men/ emo/ char/ syco
8. Fastidious+2 in work but do slow - attri/ men/ action/ char/ psora
9. Perspiration- profuse- attri/ phy/ gen/ char/ syco

10. Perspiration- on face and back- attri/ phy/ parti/ char/ psora
11. Craving- salt+3- attri/ phy/ gen/ char/ psora
12. Craving- tea+3 - attri/ phy/ gen/ char/ psora
13. Craving- sour+- attri/ phy/ gen/ char/ psora
14. Aversion- sweets+2- attri/ phy/ gen/ char/ psora
15. Aversion- egg+- attri/ phy/ gen/ char/ tub
16. Aversion- milk+- attri/ phy/ gen/ char/ syco
17. Aversion- chicken+- attri/ phy/ gen/ char/ tub
18. Sleep position- left side- attri/ phy/ gen/ char/ psora
19. Sleep disturbed by noise+2- attri/ phy/ gen/ char/ psora
20. Sleep disturbed by anxiety+- attri/ phy/ gen/ char/ psora
21. Hot patient- attri/ phy/ gen/ char/ psora
22. Fair complexion - attri/ phy/ gen/ char/ psora
23. Medium build up- attri/ phy/ gen/ char/ psora
24. Twitching+2 of right side of face- sym/ sen/ phy/ parti/ com/ dia/ ch c/o/ chr/ fun/ tub
25. Stretching feeling+2 over the right side of the face- sym/ sen/ phy/ parti/ com/ dia/ ch c/o/ chr/ fun/ tub
26. Blinking+2 of right side of the eye- sym/ sen/ phy/ parti/ com/ dia/ ch c/o/ chr/ fun/ syco
27. Dribbling of saliva+2- sym/ sen/ phy/ parti/ com/ dia/ ch c/o/ chr/ fun/ tub
28. Twitching +2 of the right side of the face a/f- grief+3 of father and mother death- sym/ mod/ a/f/ phy/ par/char/ ch c/o/ chr/ funct/ tub
29. Twitching+2 of right side of the face- a/f – suppressed of emotions- sym/ mod/ a/f/ phy/ par/char/ ch c/o/ chr/ funct/ syco
30. twitching +2 of right side of the face- <+2 at night- sym/ mod/ agg/ phy/ par/char/ ch c/o/ chr/ funct/ psora
31. Twitching of right side of the face- >+3 warm water application- sym/ mod/ ame/ phy/ par/char/ ch c/o/ chr/ funct/ psora
32. Body ache+ accompanied with twitching of right side of the face- sym/ sen/ phy/ gem/ char/ non dia/ conco/ chron/ struc/ psora

EVOLUTIONARY TIME LINE AND MIASMATIC EXPRESSION

Mind and body evolutionary time line:-

Childhood- cool and calm, good IPR with family member, fear of her father.

Marriage life- grief of death of father and mother, weeping disposition.

Presently- grief of father and mother death, desire for company, sympathetic, weeping disposition, twisting and stretching of right side of face, blinking of right eye, dribbling of saliva.

MIASMATIC EXPRESSION:-

Fundamental miasm-

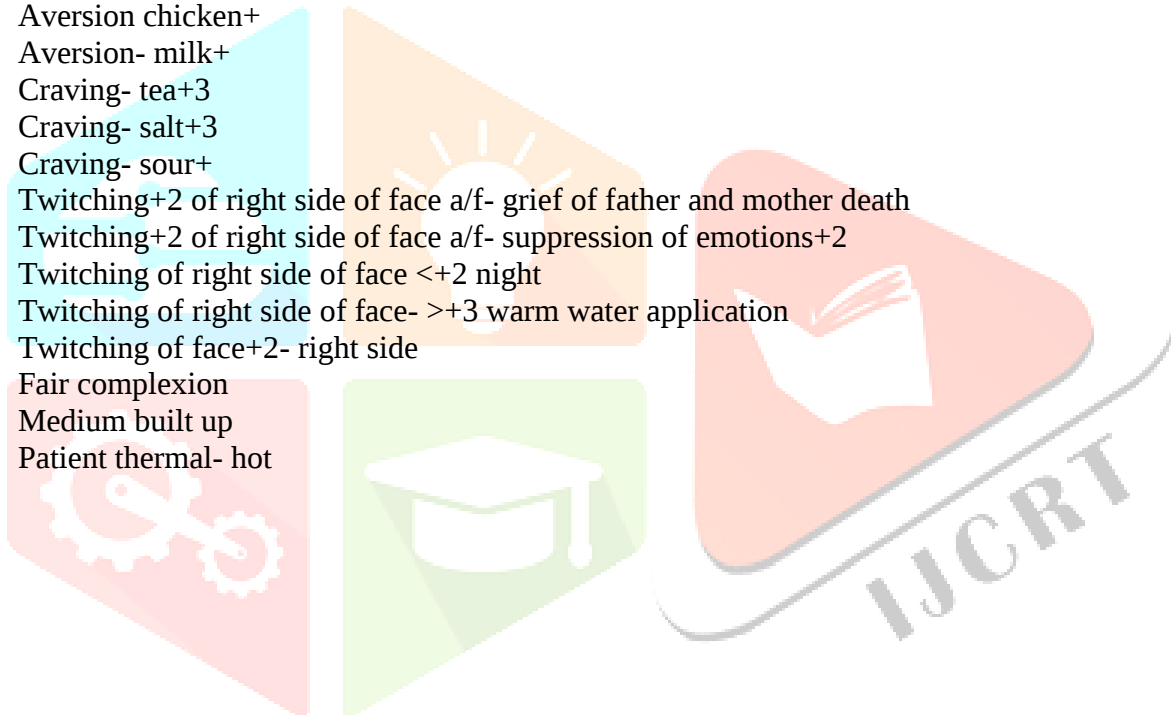
F/H- father- DM, HTN, mother- dm, 2 elder sister- HTN and 1- IHD- miasm- sycosis

Dominant miasm-

Patient- Bell's palsy since 10 yrs- twitching of right side of the face due to grief of father and mother death, cataract operated- 3 yrs ago- sycosis to tubercular miasm.

TOTALITY OF THE SYMPTOMS

- ▶ A/f- grief+3 of father and mother's death
- ▶ Sympathetic+3
- ▶ Weeping disposition+3
- ▶ Wants Company+3
- ▶ Fear of alone at night+2
- ▶ Suppressed of emotions+2
- ▶ Fastidious+2 in work but do slow
- ▶ Dreams of death of relatives+2
- ▶ Position of sleep- left side
- ▶ Sleep disturbed by noise+2
- ▶ Sleep disturbed by anxiety+
- ▶ Perspiration- profuse
- ▶ Perspiration on face+2, back+
- ▶ Aversion- sweets+2
- ▶ Aversion- egg+
- ▶ Aversion chicken+
- ▶ Aversion- milk+
- ▶ Craving- tea+3
- ▶ Craving- salt+3
- ▶ Craving- sour+
- ▶ Twitching+2 of right side of face a/f- grief of father and mother death
- ▶ Twitching+2 of right side of face a/f- suppression of emotions+2
- ▶ Twitching of right side of face <+2 night
- ▶ Twitching of right side of face- >+3 warm water application
- ▶ Twitching of face+2- right side
- ▶ Fair complexion
- ▶ Medium built up
- ▶ Patient thermal- hot

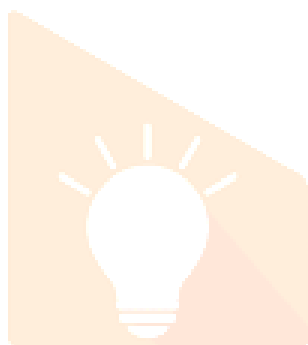


REPERTORISATION

Approach taken - Kent

Synthesis repertory used

1 MIND - AILMENTS FROM - grief			
2 MIND - COMPANY - desire for			
3 MIND - EMOTIONS - suppressed			
4 MIND - FASTIDIOUS - work; in his			
5 MIND - FEAR - alone, of bei night			
6 MIND - SYMPATHETIC			
7 MIND - WEEPING			
FACE			
8 FACE - PERSPIRATION			
9 FACE - TWITCHING - right			
10 FACE - TWITCHING - night during			
BACK			
11 BACK - PERSPIRATION			
SLEEP			
12 SLEEP - DISTURBED - anxiety, from			
13 SLEEP - DISTURBED - noise; by the slightest			
14 SLEEP - POSITION - side; left side; on			
DREAMS			
15 DREAMS - DEAD; of the - relatives			
PERSPIRATION			
16 PERSPIRATION - PROFUSE			
GENERAL S.			
17 GENERALS - FOOD and DE aversion			
18 GENERALS - FOOD and DE aversion			
19 GENERALS - FOOD and DE aversion			
20 GENERALS - FOOD and DE desire			
21 GENERALS - FOOD and DE desire			
22 GENERALS - FOOD and DE aversion			
23 GENERALS - FOOD and DE desire			
Remedies	ISym	ISDes	Symptoms
sulph.	17	32	1, 2, 4, 7, 9, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22
calc.	17	29	1, 2, 4, 6, 7, 8, 9, 11, 12, 14, 15, 16, 18, 19, 20, 21, 22
nat-m.	16	33	1, 2, 3, 6, 7, 8, 12, 14, 16, 17, 18, 19, 20, 21, 22, 23
phos.	15	34	1, 2, 4, 7, 9, 11, 12, 13, 14, 16, 18, 19, 20, 21, 22
puls.	15	28	1, 2, 4, 7, 8, 9, 11, 12, 15, 16, 18, 19, 21, 22, 23
vznsl.	18	19	1, 2, 4, 7, 8, 11, 12, 13, 14, 16, 18, 19, 21, 22, 23
sep.	14	26	1, 2, 4, 7, 9, 11, 12, 13, 14, 16, 18, 20, 21, 23
caust.	14	25	1, 2, 3, 5, 6, 7, 8, 11, 12, 15, 16, 20, 21, 22
lyc.	14	24	1, 2, 3, 5, 6, 7, 8, 11, 12, 14, 16, 19, 21, 22
magnc.	19	22	1, 2, 4, 7, 8, 11, 12, 13, 14, 16, 18, 22, 23
bell.	13	21	1, 2, 4, 7, 8, 11, 12, 13, 16, 18, 19, 21, 22
carb.	19	17	1, 2, 3, 4, 6, 7, 12, 14, 16, 18, 19, 20, 22
tritico-eg.	13	15	1, 2, 3, 5, 7,



IJCRT

Sulp- 18/34
 Calc- 18/31
 Nat m- 17/35
 Phos- 16/37
 Puls- 16/30
 Sep- 15/19
 Caust- 15/28
 Lyco- 15/27
 Bell- 14/24
 Nux v- 14/24
 Carc- 14/18
 Lach- 13/23

REMEDY DIFFERENTIATION

NAT MUR	CALC CARB
▶ Unresolved grief, especially from the death of loved ones. The emotional suppression and repressed sadness – emotional trauma is at the root of Bell's palsy. ▶ Deep fear of emotional isolation. ▶ Paralysis is more emotional in nature, linked to repressed grief. ▶ Craving for salt and sour food.	▶ Also prone to grief, is more focused on physical and health related anxieties, with emotional suppression rooted in insecurity and fear of being unable to handle life's challenges. ▶ Generalized fear, especially related to health or future. ▶ Paralysis may be more gradual, linked to physical exhaustion, overwork, or exposure to cold. ▶ Craving warmth food and eggs during illness

FINAL REMEDY WITH POTENCY

NAT MUR

Potency selected on the basis of susceptibility, sensitivity and miasm of the patient

Potency- 200 and repetition is infrequent

Final remedy- NAT MUR 200 1P HS

SAC LAC 3 PILLS TDS FOR 1 WEEK

PLANNING AND PROGRAMMING

<u>CHARACTERS</u>	<u>POTENCY CHOICE</u>	<u>REPETITION</u>
Susceptibility- moderate	200	Infrequent
Age- 65 year		
Sex- female		
Occupation- housewife		
Pod- gradual		
Sod- str. Reversible	200	Infrequent
Characteristics- ++		
Immunity- +		
Reactivity- +++		
<u>CHARACTERS</u>	<u>POTENCY CHOICE</u>	<u>REPETITION</u>
Sensitivity- high	1m	Infrequent
Mind- +++		
Dreams- +		
Sleep-++		
Nerves+++		
Correspondence- mind- +++ to body-++	1m	Infrequent
Structural changes present- rev	200	Infrequent

Fm- sycosis	200	Infrequent
Dm- sycosis to tub	200	Infrequent

FOLLOW UPS

Dt- 22/10/24

Dribbling of saliva >+

Twitching >+

Blinking of eyes- sq

For 4 days no sleep disturbed, after that sleep disturbed due to anxiety

Rx- NAT MUR 200 1P HS, SL 3 PILLS TDS FOR 1 WK

Dt- 06/11/24

Pt- comes 9 days late

Face- stretching <++, twitching – more, dribbling of saliva >++, blinking of eyes- sq

Rx- NAT MUR 200 1P HS, SL 3PILLS TDS FOR 1 WK

N.F.O- 13/11/24

DT- 13/11/24

Face stretching, twisting >++

Dribbling of saliva- >++

Blinking of eyes – sq

Rx- NAT MUR 200 1P HS, SAL LAC 3 PILLS TDS FOR 1 WEEK

N.F.O- 20/11/24

DT- 20/11/24

Face stretching, twitching - >++

No dribbling of saliva

Blinking of eyes occasionally

Rx- NAT MUR 200 1P HS, SAC LAC 3 PILLS TDS FOR 15 DAYS

N.F.O- 4/12/24

DT- 4/12/24

Twitching of facial muscles- frequency- once/12 days

No dribbling of saliva

Blinking of eyes- present

Rx- NAT MUR 200 1P HS, SAC LAC 3 PILLS TDS FOR 1 MONTH

N.F.O- 4/1/25

DT- 4/1/25

Twitching of facial muscles- frequency- twice in a month, intensity- less

No dribbling of saliva

Blinking of eyes – present

Rx- NAT MUR 200 1P HS, SAC LAC 3 PILLS TDS FOR 1 MONTH

N.F.0- 4/2/25

ADVICE

- ▶ Eye care- using lubricating eye drops frequently, wearing protective glasses during day time to shield the eyes from debris
- ▶ Taping the affected eye closed at night if not fully closed.
- ▶ Taken proper homoeopathic medication on time and avoids the others herbs or spices or onion.
- ▶ Advice for facial exercise
- ▶ Choose soft diet that is easy to chew and avoid straining the facial muscles.
- ▶ Drink plenty of fluids to stay hydrated.

PROGNOSIS-

Prognosis of the case is good and patient is in the tract of recovery with Nat Mur 200.

CONCLUSION

On the basis of law of similar and totality of the symptoms- Natrum Mur is indicated in case. The root cause of Bell's palsy is the grief which is unresolved one, repressed and sadness. The emotional trauma is the root cause of the physical affection i.e. is to development of the facial paralysis of the muscles. The potency 200 with infrequent repetition of the medicine selected on the basis of planning and programming criteria and patient is on the road of recovery with the Natrum Mur 200 medicine.

BIBLIOGRAPHY

1. N Jullian Holland, Jonathan M Bernstein, Bell's Palsy, Pub med Central, National Library Of Medicine, NIH, <https://pmc.ncbi.nlm.nih.gov>, Apr 9, 2014.
2. Bell's palsy- symptoms and causes, Mayo Clinic, <https://www.mayoclinic.org>, 15 Mar, 2024.
3. Joseph V. Campellone, Bell's palsy- symptoms and causes, Penn Medicine, <https://www.pennmedicine.org>, 25 Apr, 2022.
4. Zilpah Sheikh, Bell's palsy, WebMD, <https://www.webmd.com>, NOV 14, 2023.
5. Stuart H. Ralston, Ian D. Penman, Mark W.J. Strachan, Richard P. Hobson, Davidson's Principles And Practice Of Medicine, 23rd Edition, 2018.
6. William Boricke, Pocket Manual of Homoeopathic Materia Medica and Repertory, 14th Impression, 2016.
7. J.T Kent Lectures On Homoeopathic Material Medica, 1911.
8. S.R. Pathak, Materia Medica of Homoeopathic Medicine, 1977.
9. J.H Clarke, A Dictionary of Practical Material Medica, <https://www.homeoint.org>, 2000.
10. B. K. Sarkar, Hahnemann's Organon of Medicine, 6th Edition, 2007.
11. M.L Dhawale, principles and practice of homoeopathy- 4th edition, 8 Dec, 2014.