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MANAGEMENT PHYSIOTHERAPY FOR BELL'S PALSY DEXTRA WITH CHEMOTHERAPY TUMOR'S NEUROENDOKRIN ON *CAVUM NASI* IN RSUD KRMT WONGSONEGORO SEMARANG : A CASE STUDY

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Abstract

Introduction: Physiotherapy for *Bell's Palsy Dextra* with chemotherapy Tumors Neuroendocrine on *cavum nasi*. Implementation of therapy with modalities infra- red , massage and Propiceptif Neuro Facilitation / PNF face. **Case Presentation:** To report the results of a program of physiotherapy on the bell's palsy dextra with chemotherapy tumors of neuroendocrine on *cavum nasi*. The patient was a woman aged 57 years with a primary diagnosis of *Bell's palsy Dextra* the moment is undergoing chemotherapy for tumors of neuroendocrine on *cavum nasi* . Physiotherapy was done as much as 12 times the detail infra- red on the face side of the right for 10 minutes , massage performed for 5 minutes , exercise with techniques Propioceptif Neuro Facilitation / PNF. Implementation of therapy 2 times a week . **Management and Outcome:** Having done 12 times therapeutic obtained results occurs increase the value that is measured by the scale of Ugo Fisch from 0 becomes 18 **Discussion:** therapy for 1.5 months is still with a score scale ugo fisch 18, while the evidence of clinical improvement occurs in spontaneously in a time of three weeks in 85 percent of cases , and most great people eventually recover the function of the face are normal **Conclusion:** In case this does not happen an increase in the significant value of the Scale Ugo Fisch . It is the possibility because the patient still undergo chemotherapy so that the immune patients disturbed.

Keyword: Physiotherapy, Bell's Palsy, PNF, Cemotherapy , Neuroendocrine Tumor



Introduction

Paralysis of the nerves of the facial peripheral (Bell's Palsy) is a lesion idiopathic nerve cranial VII which cause disruption in the muscles of the face . The term Bell's Palsy first time used by Sir Charles Bell, an expert surgeon origin Scotland in the year 1830 in order to describe the condition resembles a stroke occurs suddenly with symptoms of clinical paralysis of the face of unilateral ⁽¹⁾ Symptoms of bell's palsy unable to move the affected side⁽²⁾ occur in eyelids eyes someone so difficult to shut down and when someone trying to close the eyelid eyes then the eye will be rotated to the top , the eye is not able close and remain visible⁽³⁾ . Symptoms of this so-called phenomenon of bell. Signs and symptoms of others are marked with attraction of the mouth of the weak to the direction of the mouth are healthy , food collected in between the cheeks , gums and loss of taste sensation on the face , the folds of skin forehead disappeared, water eyes will continue to come out if the part the eye that is affected is not able to close ⁽²⁾ Cause certainly paralysis of nerve facial peripheral yet unknown , but associated with pathogenic infection when the onset of symptoms . Etiology who allegedly is a pathogen causes syphilis, herpes zoster, Lyme disease, human immunodeficiency virus (HIV), influenza, herpes simplex, and otitis media acute . The cause of the other may be abnormalities of metabolic , trauma, tumors, or abnormalities of congenital ⁽⁴⁾ .In the case of this Bell's Palsy with diseases concomitant tumor endocrine Most large tumors Neuroendocrine occurred on channel gastrointestinal (67.5%) and in the system of the respiratory (25.3%) . In line gastrointestinal , mostly Nets found on intestinal smooth (41 , 8 %), rectum (27.4%) and stomach (8.7%). Data from The Suveveillance Epidemiology and End Results (SEER) and the National Cancer Institute showed that happening increase dramatically from incidents Nets from 1973 to 2014 ⁽⁵⁾

Case Presentation

Patients a policewoman (Ny S) were aged 57 years who currently is suffering from Bell's Palsy Dextra In dated 3 May 2021 after conducted the chemotherapy (the seventh) suddenly felt face drooping/”merot” to the left . The next day the patient checked himself into the KRMT Wongsonegoro Hospital and was advised for physiotherapy . At home often to use fan winds are directly routed to the agency . When this patien feel the

complaint has not been able to lift the eyebrows right , eyes right has not been able to shut up , and when talking , smiling, movement " mecucu " still looks face drooping/"merot" to the left . If for gargling , still leaking . When eating also gather on one side . The right side of the face feels thick . Air eyes still out themselves . To the senses of taste normal. Not there is a sense of pain in mastoideusnya . If calculated by the Ugo Fisch scale the score is 0 (heavy category). When it is given a program of physiotherapy a week 2 times with modalities infra- red , massage, exercise PNF face . In addition to the patient is undergoing chemotherapy at the Hospital Dr Karyadi Semarang for tumors of neuroendocrine on *cavum nasi* .

Management and Outcome

In the implementation of physiotherapy given modality infra- red ⁽⁷⁾ on the face side of the right for 10 minutes , do massage ⁽⁸⁾for 5 minutes and are given exercises PNF⁽⁹⁾ face for 5 minutes . Physiotherapy done a week 2 times per day Monday and Thursday . As a home program, family members (husbands) are asked to do exercises at home .

At the initial examination using scale ugo fisch ⁽¹⁰⁾ obtained a score of 0, as do therapy as much as 12 times (week 2 times) obtained a score of 18. The results which are subjectively : the patient had not felt thick on the face side of the right, and also if the meal is already not too accumulate in right side . To water the eyes also had not come out again .

		T 1	T 4	T 7	T 10	T 12
1	Rest	20 x 0% = 0	20 x 0% = 0	20 x 0% = 0	20 x 0% = 0	20 x 0% = 0
2	wrinkled forehead	10 x 0% = 0	10 x 0% = 0	10 x 0% = 0	10 x 0% = 0	10 x 0% = 0
3	Close your eyes	30 x 0% = 0	30 x 0% = 0	30 x 0% = 0	30x30% = 9	30x30% = 9
4	Whistling	10 x 0% = 0	10 x 0% = 0	10 x 0% = 0	10 x 0% = 0	10 x 0% = 0
5	Smile	30 x 0% = 0	30 x 0% = 0	30 x 0% = 0	30x30% = 9	30x30% = 9
Amount		0	0	0	18	18

Table 1. Results of the Ugo Fisch Scale



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Discussion

The prognosis is generally very good . The severity of nerve damage determines the healing process . The improvement is gradual and the length of time it takes varies . With or without treatment , most large individuals improved in the period of two weeks after the

onset of symptoms and improved in full , function returned to normal in the period of 3-6 months . But for some patients it can take longer. In some cases , interference may appear back in place the same or on the other face ⁽¹¹⁾ will be but in case it can be said results were obtained not as the expected . With therapy for 1.5 months is still with a score scale ugo fisch 18, while the evidence of clinical improvement occurs in spontaneously in a time of three weeks in 85 percent of cases , and most great people eventually recover the function of the face are normal. Some individuals may have mild residual facial weakness or exhibit moderate to severe deficits . Bell's palsy can have the consequence of an injury or condition previously , such as the movement of the mouth that is not intentional when trying to blink the eyes or recovery weakness of muscles face that did not complete that lead to difficulty speaking or forming words ⁽¹¹⁾ . A pakah case is Bells palsy greatly influenced by the power of the immune / immune someone , remember when this Mrs. S undergoing chemotherapy for tumors of neuroendocrine , that the system is immune associated closely with the pathogenesis and treatment of cancer . On the one hand , the cancer is a manifestation of a malfunctioning immune , because the cells are malignant managed to escape from the recognition and elimination by the system immune . Infection Chronic and inflammation that is associated with the response of the immune limited or polarized also contribute to carcinogenesis and the development of Tumor ⁽¹²⁾

Report of a case is among other sample that only one thus not be used to generalize the case of the others. The author has not found literature that states the right dose for the implementation of massage and PNF exercises . Implementation of the home program has not been able to do as that expected for husband / family sometimes forget to give a massage and exercise , and also the author is not able to control the family to provide therapy at home .

Conclusion

Bell's palsy is a peripheral facial nerve palsy due to acute edema of the facial nerve in the *stylomastoid* foramen . The exact pathophysiology of *Bell's palsy* is still debated . A theory suspect edema and *ischemia* derived from the compression of nerves *in the facial* in the canal bone it . Disruption of nerve *facial* at the foramen *stylomastoid* can cause paralysis of the whole muscle expression of the face , Angle 's mouth fell , lines and folds of skin are also affected , the line of the forehead disappeared , the folds of *the eyelid* wide , and the *lid margin* eyes are not closed . with Bell's Palsy is also greatly affected by the virus, immune , power resistant patients . With the presence of tumors of neuroendocrine on *cavum nasi* and does chemotherapy that would impede on the success of the program of physiotherapy , so as to Mrs S requires a time that is long in *mencapi*

healing .

The severity of nerve damage determines the healing process . The improvement is gradual and the length of time it takes varies

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