

# A Rare Case of Orofacial Granulomatosis

Richmond Medical Center

Dennis Keselman BA, David Swender D.O., Leah Chernin D.O., Robert Hostoffer D.O. and Haig Tcheurekdjian M.D.

A Campus of UH Regional Hospitals

University Hospitals Richmond Medical Center Allergy/Immunology Fellowship, Cleveland, OH

University Hospitals
Richmond Medical Center
A Campus of UH Regional Hospitals

## ABSTRACT

Introduction: Orofacial Granulomatosis(OFG) is a rarely occurring disease with greater propersity for females which presents with swelling of the maxilidacial and oral fissue worsening overfilme. It is often considered as part of a spectrum of diseases including the more severe process, Chellitis Granulomatosa (CG) which may be a sign of Mellersson-Rosenthal Syndrome (MRS) which includes facial paralysis along with CG and Ilmost fissures.

Case Report: A 49ylo female presented with possible chronic angioedema. She has experienced chronic lower lip swelling over the past 9-10 with episodes lasting 1-2 days. Recurrence, chronicity and severity of swelling have increased in the past 2 years. Physical exam showed enlarged lower labia as well as some minor facial swelling and several small fissures on the tongue.

Results: Biopsy showed mild lymphocytic and histocytic infiltrate of the lip with no signs of amyloid on congo red stain. Diagnosis of Orofacial Granufomatosis (OFG) was made. Patient was started on Dapsone 50mg QD.

Conclusion: OFG is a rare disorder but must be evaluated for in a patient with this presentation do to its association with more severe debilitating disease.

### INTRODUCTION

Ordical grandomatosis is a term for a disease first coined in 1985 which normally presents with recurrent soft tissue enlargement amount the mostllary facial and our legion (Johan, Mikes, Hodgoen, Petre, & Fedele, 2009). Wescreekled, 2009; Parthermore lip teacheron and gingingly assessling may take place (Grave, McCillough, & Wiescreekled, 2009). Parthermore lip teacheron and gingingly assessling may take place (Grave, McCillough, & Wiescreekled, 2009). A study of 49 individuals found the mean age of diagnosis in fermles to be 43 (syeas in contrast males presented significantly ordine 21 323) years (Johan, Moles, Hodgoen, Petre, & Fedele, 2009). Another study of 119 Recembers in Ireland Ground a 1:1 male to formule ratio (McCartan, Healy, McCrean, Filiar, Rogers, & Toner, 2011). This same study noted average years before definitive diagnosis was made of OFG after intial presentation of symptoms was 44 months (Johan, Moles, Hodgoen, Petre, & Fedele, 2009). Delay in diagnosis is caused by the complexity and lack of Insordege of the Grasee.

As the name implies there are often noncasseating garandorms present on biopsy however this is not always a finding and thereferore from tendatory for diagnosis (Johan), Modes, Hedgoon, Petree, & Fedele, 2009). In this case of localized granulcarustos inflarmation of the lips the manifestation is known as, Granulcarustos schellits and/or Meesher Chellits (Johan), Modes, Hedgoon, Petree, & Fedele, 2009). The finding that is necessary to diagnose. OFG on histopathology is lymphatic dilution, with slight fitnosis (Johan), Modes, Hedgoon, Petree, & Fedele, 2009). Langestim gatar cells and lymphocytes are common as well on hispopy (Johan), Modes, Hedgoon, Petree, & Fedele, 2009). Langestim gatar cells and lymphocytes are common as well on hispopy (Johan), Modes, Hedgoon, Petree, & Fedele, 2009). Cobelistoning of the oral mucosal sense seen in 63% of patients (McCatura Hedgo, McCare, Pitti, Rosen, & Roze, Care, 2009).

The disease is considered by many to be a symptom of larger diseases processes with Cohra disease, Servoidosis and Delayed pherperessistivity all being implicated as underlying causes however that point there is no definitive connection and the diagnosis is made by exclusion of these as much as with biopsy. (Grave, McCullough, & Wescnield, 2009). Of Gla base ten reported to be a printing presenting symptom is some patients with Cohras disease (Begenrieche, Rogler, Vogl., Landhaller, & W. 2005). Arnalgam and Cobol have both been implicated as possible chemial agents which when removed may ruckes 26 feet (symptom between evidence at the gainst is transitive. Desputies of the contract of the contract of the size of the contract of the contract

The triad of facial paralysis, tongue fissuring or scrotal tongue and labial facial swelling are known as Melkersson-Rosenthal Syndrome (MRS) which was first described in 12% many gase before CPC was was first identified as its own process. This syndrome can cause significant paralysis of the face and therefore should be evaluated as neartonic parallel for the control of the syndrome is usually the labial swelling which may make it appear as isolated OFG (Grean, McM.Cludge), & Westenfeld, 2009).

Many different treatments for OGG laves been described. Treatment however are not 100% officiative and have been seen to be less officiative with more of slop in diagnosis (Genv. McC allough, & Westerfeld, 2009). The final finances also may cause severe problems which often are more than cosmetic with obstruction of speech and ability to est being concerning findings (Genv. McCallough, & Westerfeld, 2009). These may require suggical treatment which is preferred for the most severe of cases. Continostrowids are the most effective therapy for recurrent opisodes however does the dampers of probaged serious time many other medications have been stated as possible curses (Genve, McCallough, & Wiscontield, 2009). For rail of cases topical steroids may be used. In more severe cases Trianscineded Wescentield, 2009. Singuial returnative was only undertaked in severe cases and only after the disease proposation was controlled by steroids. Du to the possible association with mycohocterium Dipsone and other autiropolatorist and ungla have also been trained in several studies for treatment with little evidence to support effectiveness at this point (obsani, Moles, Hodgoon, Porter, & Folde, 2009). Confiziration and low does thallofemine there also been researched in possible controlling agents with some reports of access (Dalmi, Moles, Hodgoon, wall find complete resolution in Sysars and 25% in the first year of initiating therapy (Johan, Moles, Hodgoon, wall find complete resolution in Sysars and 25% in the first year of initiating therapy (Johan, Moles, Hodgoon, wall find complete resolution in Sysars and 25% in the first year of initiating therapy (Johan, Moles, Hodgoon, wall find complete resolution in Sysars and 25% in the first year of initiating therapy (Johan, Moles, Hodgoon,

#### CASE REPORT

Our patient is a 49% A friend. American feralle with history of Paypertension, DMIL glasscoms and sultura presented with partneral and more onl swelling over the past 10 years with recent soversing over the past 2.5 years. The patients smakes half a pack of eigentest saily. The swelling initially began with recurrent episodes which would lest 1-2 days and then resolve spectamenously. However over time the diseases has solved to the part of where he lip is always swollen easing cosmetic problems as well as disconfect. At this time she denied any difficulty swallowing or swelling of her tongone. The patient had previously tried controlling the worlding with heat, cold and mosterizer at

The patient had also had coughing and increased swelling 2 years ago. She was evaluated and diagnosed with ACEI included analycedem. At this pion tab expend eaking her literaged which the starting at 1007 offers a left full amine stoke. This however did not cause overling to resolve. The patient also claims to have been on steroids in the past but never at the same time as when he had availing occurring. Recent colonoscopy showed several polys and divertically into mountain of Credens diesses. Sleep study was done earlier this month which showed moderate obstructive sleep many forms.

Physical exam showed enlarged lower labia with questionable mucillary facial swelling. The patients tongue had possible early developing fissure. No enal ulters were identified. The patient was started on predistone with a taper On follow up she did feel there was decrease of swelling during her course however that since discontinuing steroids the swelling had returned.



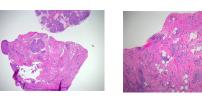
Figure 1: Significant chronic lip swelling in our



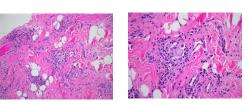
Figure 2: Possible early fissuring of tongue

#### RESULTS SUMMARY

- C1 esterase inhibitor and C4 were in normal limits to rule out possible hereditary angioedema.
- Patient had an instance of elevated Anti-SM antibodies in 2006 with no other markers of autoimmune disease identified.
- · Recent colonoscopy ruled out Crohns disease.
- Biopsy was performed and showed dilation of blood vessels as well as lymphatics with focal histocytic and mild lymphocytic infiltrate which is consistent with OFG.
- No granulomae ware Identified
- Congo Red stain for amyloid of the biopsy showed no signs of localized amyloidosis.
- Diagnosis of Orofacial Granulomatosis was made. The patient was advised to follow up with her neurologist with diagnosis in order to monitor possible evolution to MRS do to questionable tongue fissuring.
- The patient was started on Dapsone 50mg Daily and advised to have weekly labs drawn for first month
- · Patient is to follow up in one month for re-evaluation.







20X 40X

Figure 3: Biopsy of lip showing dilation of blood vessels as well as lymphatics with focal histiocytic and mild lymphocytic infiltrate which is consistent with OFG.

#### DISCUSSION

OFG is a run but exiros condition and must be a differential diagnosis in all patients processing with chronic labelas scaling. Bo but the marry of the condition as well as the agree data available it may be correlated by many physicisms (obant, Moles, Hadgoon, Porte, & Fedele, 2009). In our patient the definitive diagnosis took 10 years and in many a delay such as this may lead to obblithing repolement with airway, enting or communication. Delaying diagnosis in a patient mean delayed initiation of treatment and with this there has been reports of poorer quality contourned (Grew, McCallouds, & Wesserfeld, 2009).

Crobins disease is mother important consideration in all patients presenting with detroic labial swelling. Crobins disease should be in particular evaluated for in those with ideeration and bocard-stead involvement as these are the most common distinguishing and factors (Campbell, et al., 2011). In general younger age is more common in OFG then Crobins (Campbell, et al., 2011), shorted and control with a law younger age is more common in OFG then Crobins (Campbell, et al., 2011), shorted and control with a law younger age is more common in OFG then Crobins (Campbell, et al., 2011), shorted with a law of the control with a law of the c

#### CONCLUSION

Many treatments have been successful in causing remission of CPG and therefore even with the spansenablibility of research there is a bright promotes for most pollents. This case should be used to litisstrate the importance of properly evaluating the cause of dronic lip swelling. Because the swelling itself is often inversable and the quicker it is diagnosed the sooner we may at to prevent consequences, identifying systemic diseases through this relatively harmfess presentation may both help reduce cosmelic symptoms awd as protect the patient from more delibiliting symptoms down the road.

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