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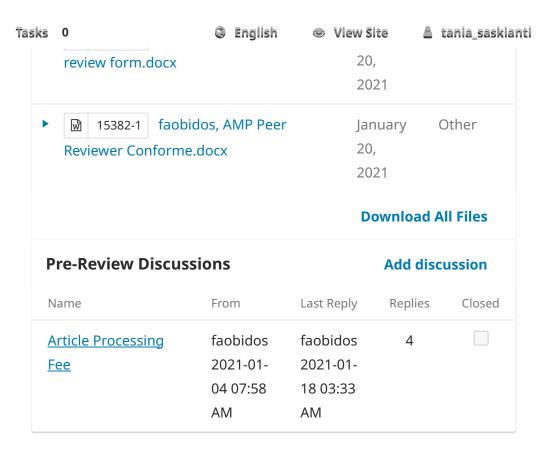
## Bohn's Nodule: A Rare Case in a 7-month-old Male Infant Ali Taqwim, Sukeksi Dyah Intannin...

**Copyediting Submission** Review

#### **Production**

Submission Fil	es		Q Search
	tania_saskianti, Article odule Case Report.doc	January 4, 2021	Article Text
D 14479-1 signature Form	tania_saskianti, Autthor n.pdf	January 4, 2021	Other
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# **Participants**

Fevito A. Obidos Jr. (faobidos)

tania saskianti (tania\_saskianti)

Messages	
Note	From
Dear Dr. Tania Saskianti,  We would like to respectfully inform you that the publication fee is currently set at USD 200.00 per manuscript. This covers payment for the support services for peer review, copy editing, layout, and pdf format as well as communication costs and maintenance of our website.	faobidos 2021-01-04 07:58 AM
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(mmdelima@up.edu.ph) for further details.  Sincerely,  FEVITO A. OBIDOS JR.	
<ul> <li>Dear Dr Fevito</li> <li>Thanks for reply.</li> <li>We agree for the APC, please inform us regarding the bank account.</li> </ul>	tania_saskianti 2021-01-04 08:30 AM
Thanks inadvance,	
Tania	



# **Participants**

Fevito A. Obidos Jr. (faobidos)

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Dear Dr. Tania Saskianti,  We would like to respectfully inform you that the publication fee is currently set at USD 200.00 per manuscript. This covers payment for the support services for peer review, copy editing, layout, and pdf format as well as communication costs and maintenance of our website.  We do not begin work on the submitted manuscript until payment is made in full. Acceptance of this publication fee is not a guarantee by the journal that the manuscript that has been submitted but does not comply with scientific and ethical standards will be published.  You may contact our Managing Editor, Ms. Marjorie De Lima, (mmdelima@up.edu.ph) for further details.  Sincerely,  FEVITO A. OBIDOS JR.	faobidos 2021-01-04 07:58 AM
<ul> <li>Dear Dr Fevito         Thanks for reply.         We agree for the APC, please inform us regarding the bank account.         Thanks inadvance,         Tania     </li> </ul>	tania_saskianti 2021-01-04 08:30 AM



#### Submissions

## Bohn's Nodule: A Rare Case in a 7-month-old Male Infant

Ali Taqwim, Sukeksi Dyah Intanningr...

Submission	Review	Copyediting	Production	
Round 1				

#### **Round 1 Status**

Submission accepted.

### **Notifications**

[AMP] Editor Decision	2021-02-02 06:33 AM
[AMP] Editor Decision	2021-02-12 08:01 AM
[AMP] Editor Decision	2021-03-24 07:22 AM
[AMP] Editor Decision	2021-03-25 08:24 AM

Reviewer's	Attachments	Q Search
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February	Article
26, 2021	Text

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tania\_saskianti Tasks 0 English View Site Feb.doc ₩ 18406-2 Other, Summary revisi February Other article text - Bohn's nodule a rare case in 26, 2021 7 months old infant - case report - rev 26 Feb.doc (2) Article Text, Revisi article w 19513-1 March Article 16, 2021 text - Bohn's nodule a rare case in 7 Text months old infant - case report - rev 16 Mar.doc ₩ 19516-1 Other, Summary of Other March 16, 2021 reviewer comment\_template - rev 16 Mar.doc ₪ 20389-1 Other, 2638-Article Text-March Other 24, 2021 20308-1-18-20210323 AMP.doc **Review Discussions Add discussion** Name Closed From Last Reply Replies Revision tania saskianti 0 (Reviewer 2021-02-26 02:20 1 and PM Reviewer <u>2)</u> <u>Acta</u> acpascualdomingo tania\_saskianti 7 **Medica** 2021-03-01 09:46 2021-03-25 **Philippina** AM 12:28 PM concerns

Acta Medica Philippina

Tasks 0

🚨 tania\_saskianti

OJS/PKP



## Participants **Edit**

Fevito A. Obidos Jr. (faobidos)

Dr. Abigail Pascual-Domingo (acpascualdomingo)

tania saskianti (tania\_saskianti)

Messages
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Note From

Dear, Fevito A. Obidos Jr and Dr. Abigail Pascual-Domingo.

Thank you for reaching us out and giving us very helping correction suggestion.

we already corrected few parts of our journal:

We have described the "key message" of the manuscript

We have already improved the grammar manuscript

we have already fixed the minor concern of figure 2b

we have already fixed the problem about correlation between the sentences "the infant was born at 40 months and that Bohn's nodule is more common among full-term babies"

We have improved the sentence construction in abstract

We have added the keyword

We have improved the sentence construction in introduction

We have rearranged the discussion

We have added the table about differential diagnosis

We have improved the sentence construction in conclusion

We have mentioned what makes our case is rare

We have improved the highlight of introduction
We have mentioned what makes our case report is different

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## Participants **Edit**

Fevito A. Obidos Jr. (faobidos)

Dr. Abigail Pascual-Domingo (acpascualdomingo)

tania saskianti (tania\_saskianti)

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tania\_saskianti 2021-02-26 02:20 PM

### Revision (Reviewer 1 and Reviewer 2)



## Participants **Edit**

Fevito A. Obidos Jr. (faobidos)

Dr. Abigail Pascual-Domingo (acpascualdomingo)

tania saskianti (tania\_saskianti)

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2021-02-26 02:20 PM



# **Participants**

tania saskianti (tania\_saskianti)

Arianne Patana (arianne\_galley)

Messages	
Note	From
Dear Dr. Saskianti,	arianne_galley
Please see the attached file galley proof - Bohn's Nodule: A Rare Case in a 7-month-old Male Infant	2021-05-26 02:54 AM
For your approval.	
If you have corrections, please message us ASAP.	
Maraming salamat po.	
Sincerely,	
Arianne Patana Acta Medica Philippina <u>ALPATANA@UP.EDU.PH</u>	
mcadorniga, 050621_AM (in press)_CR-15_[2638]_4pp (Bohn's Nodule).pdf	
Dear Arianne Patana	tania_saskianti
Thank you for your contribution of our manuscript revision.	2021-05-26 12:52 PM
There is minor revision of our manuscript:  1. Spelling our name Ali Taqwim, DDS	
2. Spelling our name Sukeksi Dyah Intanningrum, DDS	
3. The arrow placement in "Figure 1".	
We already attach the new image with the revision of arrow placement.	



## **Participants**

tania saskianti (tania\_saskianti)

Arianne Patana (arianne\_galley)

## Messages

Dear Dr. Saskianti,

Please see the attached file galley proof - Bohn's Nodule: A Rare Case in a 7-month-old Male Infant

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Sincerely,

Arianne Patana Acta Medica Philippina ALPATANA@UP.EDU.PH

mcadorniga, 050621\_AM (in press)\_CR-15\_[2638]\_4pp (Bohn's Nodule).pdf

Dear Arianne Patana

tania\_saskianti 2021-05-26 12:52 PM

arianne\_galley 2021-05-26

02:54 AM

NoThank you for your contribution of our manuscript revision.

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- 2. Spelling our name Sukeksi Dyah Intanningrum, DDS
- 3. The arrow placement in "Figure 1".

We already attach the new image with the revision of arrow placement.

#### Bohn's nodule: a rare case in 7 months-old male infant

#### **Abstract**

Bohn's nodule is a soft white cyst which is filled with keratin and often found in the oral cavity of the newborn. This case has high prevalence in newborns and rarely seen after three months of age. In this case, we report the observation and evaluation of a Bohn's nodule case in 7 months-old male infant. Clinical diagnosis of the conditions is important to avoid unnecessary therapeutic procedure and provide suitable information for parents about management of the lesion.—Herein, we report the observation and evaluation of a Bohn's nodule case in 7 months-old male infant.

Behn's nedule is a common occurrence among newborns up until three months but has been found in this case in a 7-month-old infant. Because of its unlikelihood to occur in said age group, proper diagnosis is necessary so as to avoid any unnecessary treatment. Behn's nodule is a soft white cysts which are filled with keratin, which is seen in the oral cavity of the newborn or infant. This case has high prevalency in newborn but rarely seen after 3 months of age. Clinical diagnosis of the conditions are important to avoid unnecessary therapeutic procedure and provide suitable information for parents about the type of the lesion. Herein, we report the observation and evaluation of a rare Behn's nodule case in 7 months-old male infant.

Keywords: Bohn's nodule, gingival cyst, inclusion cyst, infant, oral lesion.

#### Introduction

Bohn's nodule is a soft white cyst which is filled with keratin and eften found in the oral cavity of the newborn or infant. This case has high prevalence in newborns but rarely seen after 3 months of age. Clinical diagnosis of the conditions is important to avoid unnecessary therapeutic procedure and provide suitable information for parents about the type of the lesion. Herein, we report the observation and evaluation of a rare Bohn's nodule case in 7 months old male infant.

Many features of the oral cavity are unique and peculiar during developmental period of birth. Some benign oral mucosal conditions are frequently found since newborn, which are transient in characteristic<sup>1</sup>. Among these conditions, we highlight the emergence of inclusion cysts, which are is still developed during embryonic period. Inclusion cysts or developmental nodules of the oral mucosa are intraoral swellings located in the palate or alveolar ridges<sup>2</sup>. They are observed in 50 85% of newborns. As such, they represent the most frequent oral disorder in the first year of life<sup>2</sup>.

There are three different types of cysts have been identified: Bohn's nodules, Epstein's pearls, Bohn's nodules, and dental laminar cysts. These terms are often used as synonyms, since all cysts similarly present as white or translucent roundish solitary or multiple papules localized in the mucosa of the palate or gums<sup>3</sup>. This pathology has common features

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while its nomenclature depending on the location of the cyst. Bohn's nodules are cysts located in the gingival region on buccal or lingual surface of alveolar ridge (not the crest) or on the hard palate away from the midline. Thus, wWhen cysts are found in the midline of the palatine bone, they are referred as Epstein's pearls or palatal cyst of the newborn. However, if the cysts are located in the gingival region on buccal or lingual surface of alveolar ridge (not the crest) or on the hard palate away from the midline, they are classified as Bohn's nodules. Dental laminar cysts are found on the crest of the alveolar ridges. Thise cysts are presumably derived from remnants of the ectodermal component of the tooth bud—so they called as dental lamina<sup>2, 3</sup>. The inclusion cysts are oral highly frequent abnormalities among newborns and rarely occur after 3 months of age.<sup>4, 5</sup>.

Bohn's nodules, described by Heinrich Bohn in 1886 as "mucous gland cysts". They were derived from minor salivary glands. They were found at the junction of the hard and soft palate, along lingual and buccal parts of the alveolar ridges, away from the midline. These nodules were 1–3 mm in size and filled with keratin. Bohn also classified cysts in the alveolar ridges as mucous gland cysts. However, a century later it was shown that these cysts are microkeratocysts 46.

The inclusion cysts are oral highly frequentee abnormalities among newborns which <u>but\_rarely seen occur\_after 3 months of age<sup>5, 6</sup>.</u> The existence of Bohn's nodules is often not realized by parents and even considered as normal condition. <u>Parents rarely seek treatment for this lesion.</u>, but sometimes it makes parents panic. Parents often does not seek for professional opinion because they think that the cysts are the beginning of the tooth cruption which also indicates lack of knowledge about this condition. When the afflicted parents seek for a treatment, the dentist should be able to explain about the transient nature of the lesions, which are need no invasive treatment except regular follow up.

Bohn's nodule is a common occurrence among newborns up untilenthree months but has been found in this case in a 7-month-old infant. Because of its unlikelihood to occur in said age group, proper diagnosis is necessary so as to avoid any unnecessary treatment.

#### **Case Report**

A 7 months-old male infant who was born at 40 weeks gestational age was brought to the pediatric dental clinic of Dr. Syaiful Anwar Hospital – Malang due to small nodule and round-shaped protuberances on the left of maxillary gingival surface, which was assumed to be dental edges by parents (Fig. 1). The <u>nodulelesion</u> was solitary, 2 mm in size, white-colored, firm and not tender to palpation. There was no erythema around it, the deciduous teeth <u>were</u> not erupted yet, no other abnormality was seen in any other sites of the oral cavity and the physical examination was otherwise unremarkable.

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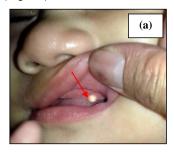
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**Figure 1.** Small nodule, 2 mm in size, white-colored, solitary, round-shaped protuberances on the left of maxillary gingival surface.

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#### **Case Management**

Based on the anamnesis, clinical examination (texture, consistency, and location), evaluation of nodule development, and compared with the differential diagnosis of other oral mucosal disorders, the diagnosis in this case is Bohn's nodules. Based on the anamnesis, clinical examination, and evaluation of nodule development, the lesion was diagnosed as Behn's nodules with a differential diagnosis of Epstein's pearls, dental lamina cyst, and natal/neonatal teeth. The management of this case is instruction for parents to maintain their infant's oral hygiene and regular follow-up by every month observation was chosen to evaluate the nodule development. The clinical follow-up after one month was failed to show manifestations of no clinical significant improvement. The white nodule is still attached on to maxillary gingival surface and there was no increase in size. Three months later, the nodule was spontaneously resolved (Fig. 2b).



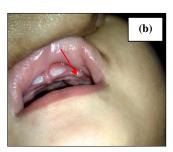


Figure 2. Regular follow-up and check-up by parents at home; (a) after 1 month; (b) after 3 months, Bohn's nodule was spontaneously resolved.

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Figure 2. Regular follow follow\_up and check\_up off by parents at home; (a) after 1 month; (b) after 3 months, Bohn's nodule was spontaneously resolved.

#### **Discussion**

 Bohn's nodules are scattered over the junction of the hard and soft palate and are derived from minor salivary gland. Histopathologic evaluation may reveal a cystic lumen filled with desquamated keratin and lined by stratified squamous epithelium occasionally with inflammatory cells in the connective tissue. Sometimes these "true cysts" demonstrate a communication with the mucosal surface. Due to pressure from the cyst, the epithelium can also be atrophy.<sup>7, 8</sup>.

Bohn's nodules are found in newborn and usually disappear spontaneously in the early months of life. They are more frequently observed in full-term babies compared with pre-term ones. Although this condition is congenital, Bohn's nodules cause no symptoms and may go unnoticed. They may be the cause of concern when the parents become aware of their presence. The nodules occur mainly in the vestibular portion of the gingiva and more frequent on the maxillary arch than mandibular one<sup>9</sup>. When they are noticed by parents on the gingival surfaces, they often mistaken for natal teeth, which lead parents to seek medical attention.

Bohn's nodule must be differentiated with other developmental inclusion cysts including Epstein's pearl, dental laminar cyst, natal/neonatal teeth, and gingival cysts. Epstein's pearl is a small, firm, white, keratin-filled cyst, located on the mid palatine raphe. Dental laminar cyst is a yellow-white cystic lesion over the alveolar crest that arises from epithelial remnants of the degenerating dental lamina. Natal/neonatal teeth usually erupt in the centre of mandibular ridge as central incisors. They have little root structure and attached to the end of the gum by soft tissue,10. Gingival cyst of newborn is a true cyst as it is lined by thin epithelium and usually shows a lumen filled with desquamated keratin, occasionally containing inflammatory cells. These structures originate from the remnants of the dental lamina and are located in the corium below the surface epithelium. The nodes are result of cystic degeneration of epithelial rests of dental lamina (rests of Serres). After invagination of the dental lamina to form the dental organ, the epithelial pedicle that connects the dental organ to the surface epithelium is broken down giving rise to the

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rest of Serres. Occasionally they may become large enough to be clinically noticeable as discrete white swellings on the ridges<sup>7</sup>, 118.

Bohn's nodule are present in neonates, rarely after three months<sup>4, 5</sup>. In this case, bohn's nodule found in 7 months-old infant. The parents said that there was no nodule found before. Parents do not seek professional opinion because they think that the cysts are the beginning of the tooth eruption which also indicates lack of knowledge about this condition. The nodule found in 7 months old infant, where this age is the normal age range for the eruption of the first deciduous incisive teeth. This condition can misdiagnose with the new tooth by parents. Education for parents is very important so that parents not panic and unnecessary treatment can be avoided.

The diagnosis of gingival cyst must be differentiated from other conditions, which are typically seen during the same time and possibly also have a similar location. Common differential diagnosis includeing other developmental oral inclusion cysts (Epstein's pearl, dental laminar cyst) and natal/neonatal teeth). Epstein's pearl is a small, firm, white, keratin-filled cyst, located on the mid palatine raphe. Dental laminar cyst is a yellow-white cystic lesion over the alveolar crest that arises from epithelial remnants of the degenerating dental lamina. Natal/neonatal teeth usually erupt in the centre of mandibular ridge as central incisors. They have little root structure and attached to the end of the gum by soft tissue<sup>9</sup>. Based on the anamnesis, clinical examination (texture, consistency, and location), evaluation of nodule development, and compared with the differential diagnosis of other oral mucosal disorders, the diagnosis in this case is Bohn's nodules.

Bohn's nodule is gingival cysts arise arising from remnants of the dental lamina. Bohn's nodules, so called after Bohn's description of the same in 1866, are scattered over the junction of the hard and soft palate and are derived from minor salivary gland. Bohn also classified cysts in the alveolar ridges as mucous gland cysts 10. Histopathologic evaluation may reveal a cystic lumen filled with desquamated keratin and lined by stratified squamous epithelium occasionally with inflammatory cells in the connective tissue. Sometimes these "true cysts" demonstrate a communication with the mucosal surface. Due to pressure from the cyst, the epithelium can also be atrophy<sup>8, 11</sup>-.

Bohn's nodules are found in newborn and usually disappear spontaneously in the early months of life. They are more frequently

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A dDentist should be able to recognize these lesions, explain that it is benign, self-limiting nature, to the parents or caregivers and reassure them to avoid unnecessary medical or surgical intervention 123, 143. Treatment is not necessary since Bohn's nodules are innocuous and disappear within a few weeks to a few months. The small cysts are thought to rupture spontaneously as they grow, their walls merging with the epithelial surface of the gums. Some authors suggest to ease their resolution by a gentle digital massage on the affected area, while others find any treatment useless or even noxious<sup>2, 912</sup>.

Table 1. Differential diagnosis of Bohn's nodule 13, 14, 13, 14, 15, 16

	Bohn's	<u>Epstein</u>	Dental laminar	Natal teeth
	<u>nodule</u>	<u>pearls</u>	cyst	
<b>Appearance</b>	Kkeratin-filled	<u>S</u> small	<u>lingrowth</u>	Semall and conical,
	cysts,	cystic,	ectodermal	but can assume the
	remnants of	keratin-filled	ectodermal	sizes and shapes of
	salivary	nodules		normal teeth. They
	<u>glands</u>		<u>laminar</u>	may be yellowish or
			surfaces of the	brownish and are
			oral cavity	usually immature,
				with enamel
				hypomineralisation
				and small roots
Region	tThe junction	Rroof of the	<u>mMandibular</u>	Mandibular primary
	of hard and	<u>palate,</u>	anterior region	<u>incisors</u>
	soft palate	<u>along</u>		
	and along	midline of		
	buccal and	the palate		
	lingual parts			
	of the alveolar			
	ridges away			
	from the			
	<u>midline</u>			
Characteristic	Sself-limiting	Sself-limiting	Sself-limiting	Required aggressive
				treatment

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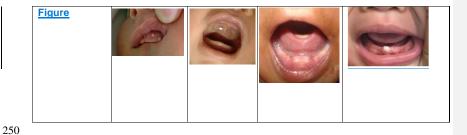
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#### Conclusion

There is no special treatment for Bohn's nodules case. Instruction to maintain infant's oral hygiene, periodically observation, and counseling for parents regarding its benign and self-limiting nature is all that is required in the management.

Bohn's nodule is a common occurrence among newborns up until three months. Although rarely seen

, this condition can be found in 7 months-old infant which the normal age range for eruption of first deciduous teeth so that can make misdiagnose and overtreatment. Recognize of this lesion is important to avoid unneccessary treatment since it is a self limiting condition.

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