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Characteristics Of Chronic Supurative Otitis Media: Literature Review

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Article Info	ABSTRACT
Keywords:	Introduction:Chronic suppurative otitis media (OMSK) was previously
Characteristics,	called otitis media perforata (OMP) or colloquially known as congek.
CSOM	What is called chronic suppurative otitis media is a chronic infection in
	the middle ear with perforation of the tympanic membrane and
	secretions coming out of the middle ear continuously or
	intermittently.Objective:This literature aims to look at the picture of
	chronic suppurative otitis media. Method: This research uses a
	literature review method. Scientific articles or journals are downloaded
	from PubMed, Garuda Portal, and Google Scholar with SINTA IV and V
	standards in the 2015-2023 period. The keywords in the search for
	this article are characteristics, chronic supportive otitis media. Results:
	In this literature, there were 6 research articles that reported the
	description of chronic suppurative otitis media. Conclusion:The
	description of chronic suppurative otitis media based on gender is more
	common in men than women, CSOM patients based on type have more
	benign types than malignant types, in CSOM patients based on the
	main complaint there are more otorrhea than hearing loss and otalgia.
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INTRODUCTION

Chronic suppurative otitis media (OMSK) was previously called otitis media perforata (OMP) or colloquially known as congek. What is called chronic suppurative otitis media is a chronic infection in the middle ear with perforation of the tympanic membrane and secretions coming out of the middle ear continuously or intermittently. The discharge may be thin or thick, clear or in the form of pus. The course of acute otitis media with perforation of the tympanic membrane becomes chronic suppurative otitis media if the process lasts more than 2 months. If the infection process lasts less than 2 months, it is called subacute suppurative otitis media. Several factors that cause OMA to become CSOM include therapy that is given too late, inadequate therapy, high germ virulence, the patient's immune system is low (undernutrition) or poor hygiene. (Soepardi, EA et al. (2017)

CSOM can be divided into 2 types, namely safe type CSOM (mucosal type = benign type) and dangerous type CSOM (bone type = malignant type). The inflammatory process in safe type CSOM is limited to the mucosa only, and usually does not affect the bones. The perforation is centrally located. Generally, the safe type of CSOM rarely causes dangerous complications. In the safe type of CSOM there is no cholesteatoma. What is meant by



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malignant type of CSOM is CSOM accompanied by cholesteatoma. CSOM is also known as dangerous type CSOM or bone type CSOM. The perforation in dangerous type CSOM is marginal or attic, sometimes there is also cholesteatoma in CSOM with subtotal perforation. Most of the dangerous or fatal complications arise in the dangerous type of CSOM. Soepardi, EA et al. (2017)

Several studies have proven that based on research, data obtained from 32 people who sought treatment at the Buleleng Regency Regional Hospital polyclinic for the period January 2020-December 2022. The profile of CSOM patients based on age is mostly in the 41-60 year age group as many as 17 people or 53%, based on gender, the majority are women, 19 people (59.375%), based on the highest main complaint with complaints of otorrhea, namely 25 people (78.125%), based on the type of CSOM, the benign type is the type that is most commonly suffered, namely 28 people (78.125%), the CSOM profile is based on the side that is most affected on the unilateral side, 28% or 87.5%. (Bagus, et al (2023)

Based on research conducted at the Regional General Hospital Dr. H Chasan Boesoirie for the period January-July 2019, it can be concluded that CSOM patients based on age were more likely to be in the 11-20 year age group by 11 people (33.3%) compared to other age groups, CSOM patients based on gender were more male as many as 18 people (54.5%) compared to women, CSOM patients based on the main complaint were more otorrhea as many as 20 people (60.6%) compared to hearing loss and otalgia, CSOM patients based on the type were more benign types as many as 33 people (100, 0%) compared to the malignant type, CSOM patients based on a history of otitis media were 14 people (42.2%). (Umar, NS Et al (2019)

Based on the background described above, researchers want to know more about the description of chronic suppurative otitis media patients. Many studies have shown the incidence of ENT diseases in Indonesia. Therefore, it is necessary to conduct a literature study so that a conclusion can be drawn from these various studies. This is what makes researchers interested in conducting this literature review. This literature review aims to see the picturechronic suppurative otitis media patients.

METHOD

This research uses a literature review method. Literature was obtained by reviewing scientific articles or journals downloaded from PubMed, Garuda Portal and Google Scholar with SINTA IV and V standards. Articles were screened based on provisions including articles published in 2015-2022, published articles can be downloaded in full text and has open access, articles with qualitative, quantitative, mixed method designs as well as literature reviews regarding descriptionschronic suppurative otitis media patients. Key words in article searches include characteristics, ENT disease.



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RESULTS AND DISCUSSION

			ESULTS AND D				
No	Writer	Research	Location	Number	Research	Results	Determinant
		purposes		of	design		Factors
				Sample			
				S			
1.	Taufan Hendra	To understand the	Sanglah	144	Descriptive	 The highest 	Total number
	Wirawan, I Made	characteristics of	Central		with a	age is 10-20	of sufferers,
	Sudipta, Sari	chronic	General		retrospective	years	age, gender,
	Wulan Dwi	suppurative otitis	Hospital		cross	(25.7%), the	type of CSOM,
	Sutanegara(2020)	media sufferers in	(RSUP).		sectional	smallest is	clinical
		the period January-			design.	more than 60	symptoms and
		December 2014.				years (4.9%).	complications
						- The most	
						common	
						gender was	
						male 74	
						(51.4%),	
						- The most	
						common type	
						of CSOM is	
						the benign	
						type 135	
						(93.8%),	
						- The most	
						frequent	
						complaint	



No	Writer	Research purposes	Location	Number of Sample	Research design	Results	Determinant Factors
				S		was otorrhoea (97.2%), the least was vertigo (3.5%).	
2.	Endi Ananda Khrisn, I Made Sudipta (2019)	Knowing the characteristics of Chronic Suppurative Otitis Media sufferers in 2015.	Sanglah General Hospital Denpasar	45	Descriptive, total sampling	- The highest age was 31-40 years, namely 13 (28.9%). lowest at age 61-70 years, namely 2 (4.4%) The most common gender is male 23 (51.1%) - KThe most common main	Characteristics Chronic Suppurative Otitis Media,



No	Writer	Research	Location	Number	Research	Results	Determinant
		purposes		of	design		Factors
				Sample			
				S			
						complaint	
						was	
						ottorrhea, 27	
						(60%), and	
						the least	
						vertigo, 3	
						(6.7%).	
						- The most	
						common type	
						of CSOM is	
						the benign	
						type, 37	
						(82.2%).	
3.	Syopyanah Sri	Knowing the	Ibnu Sina	50	Observational	- The highest	Chronic
	Puspa, Hermiaty	characteristics of	Hospital		with a	age is 20 – 60	suppurative
	Nasaruddin, Andi	chronic suppurative	Makassar		descriptive	years 35	otitis media
	Tenri Sanna	otitis media patients			approach.	(70%), while	(CSOM); Cross
	Arifuddin,	Period June 2018-				the lowest is	Sectional
	Ahmad Ardhani	December 2021.				0 – 1 year 1	Study; benign
	Pratama, Syamsu					(2%).	
	Rijal. (2023)					- The most	
						common	



No	Writer	Research purposes	Location	Number of Sample	Research design	Results	Determinant Factors
				S			
						gender is	
						female 31	
						(62%)	
						- The most	
						common main	
						complaints	
						were otorrhea	
						22 (44%), at	
						least tinnitus	
						2 (4%), and	
						feeling of	
						fullness in the	
						ears 2 (4%).	
						- The most	
						common type	
						of CSOM is	
						benign 48	
						(96%).	
4.	Eka Arie Yuliyani,	Identifying the	NTB	33	Total	- The most	Hearing
	Didit Yudhanto,	characteristics of	Provincial		sampling	common	disorders,
	Hamsu Kadriyan,	CSOM sufferers for	Hospital			gender is	Characteristics



No	Writer	Research purposes	Location	Number of Sample	Research design	Results	Determinant Factors
	Prima Belia Fathana, Mohammad Faisal Libryan Syamsul, IGA Trisna Aryani (2023)	the period July- December 2021.	ENT Polyclinic	S		male 19 (57.6%), The highest age was 9-23 years 18 (54.6%), while the lowest was >63 (3.03%) Types of CSOM, most commonly Benign Type, namely 25 (75.8%)	CSOM
5.	Nabila Sidi Umar, M. Isa Pary, Soesanty 2019)	KnowCharacteristics of Chronic Suppurative Otitis Media Patients for the Period January– July 2019	Ear Nose Throat Polyclinic, RSUD Dr. H Chasan Boesoirie	33	Cross- sectional	- The most common age group was 11-20 years, 11 (33.3%), and fewer than 1 (3.0%).	Chronic Suppurative Otitis Media



No	Writer	Research purposes	Location	Number of	Research design	Results	Determinant Factors
				Sample			
				S			
						- Gender,	
						mostly men	
						18 (54.5%).	
						- The main	
						complaint, the	
						most common	
						was otorrhea	
						as many as	
						20 (60.6%),	
						- Based on the	
						type of	
						CSOM, the	
						most common	
						type was	
						benign, 33	
						(100.0%).	
6.	Eka Prasasti	Knowing the	Section/SMF	174	Retrospective	- The number	CSOM
	Clearinsyah,	characteristics of	Ear Nose		descriptive	of female and	characteristics.
	Christian Lopo, M.	Chronic Suppurative	Throat-Head		with a	male CSOM	
	Sabir. (2021)	Otitis Media (OMSK)	Neck Health		quantitative	patients is	
		in 2017.	Sciences		approach.	comparable in	
			(THT-KL)		•	gender.	



Writer	Research purposes	Location	Number of Sample	Research design	Results	Determinant Factors
		S				
		Undata			- The largest	
		Hospital,			age group is	
		Palu.			26-45 years	
					old, 29.3%.	
					Smallest of	
					the group	
					parents,	
					1.7%.	



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Discussion

Chronic suppurative otitis media (OMSK) was previously called otitis media perforata (OMP) or colloquially known as congek. What is called chronic suppurative otitis media is a chronic infection of the outer border of the middle ear with perforation of the tympanic membrane and secretions coming out of the middle ear continuously or intermittently. The discharge may be thin or thick, clear or in the form of pus. (Soepardi, EA et al. 2017)

The results of a literature review from journals obtained characteristics of chronic suppurative otitis media based on age according to Taufan et al, at age 10-20 years, Endi et al, at age 31-40 years, Syopyanah et al, at age 20-60 years, Eka et al, at age 9-23 years old, Nabila et al 10-20 years old, Eka Prasasti et al aged 26-45 years.

Anatomically, there are differences between children's ears and adult ears, the eustachian tube which connects the middle ear to the nasopharynx is about 38 mm long in adults, in children the length of the eustachian tube is shorter, namely 13-18 mm, wider and horizontal, and has drainage is minimal compared to adults so that protection in children's ears is poor which allows for a high incidence of middle ear infections in children. (Sari, MRN and Imanto, M. 2020). Based on surveys in several countries, the prevalence of CSOM is found to be high in school-age children, many cases are found in teenagers who are at school age and are studying, however, due to inadequate treatment in dealing with chronic infections, this causes a high number of CSOM cases. In line with research by Taufan, et al and Syopyanah et al. Meanwhile, in the research of Endi, et al, Sopyanah, et al, and Eka Prasasti, et al, there were more people in adulthood. This is caused by many factors, one of which is the result of ear infections that started at childhood, and also a history of fluid coming out of the ears since childhood and coming back when they grow up, CSOM that occurs is a continuation of complaints that occurred when they were small. (Suharni et al., 2023)

Gender also determines the incidence of CSOM. Infectious episodes of otitis media caused by Streptococcus pneumonia have been associated with recurrent otitis media and occur more frequently in boys than in girls. The incidence of CSOM in men is more than in women because men dominate the incidence of Acute Respiratory Infections (ARI) and differences in immunological responses due to hormonal factors between men and women which disrupt the function of the eustachian tube and CSOM occurs. (Sari, MRN and Imanto, M. 2020). Of the 6 journals, the majority of journals reporting more men than women were found in 4 journals (Taufan et al., Endi et al., Eka et al., and Nabila et al.), 1 journal with the most women (Syopyanah et al.), and 1 journals equally between men and women (Eka Prasasti et al.)

The classification of CSOM can be divided into 2 types, namely, the benign type of CSOM, usually on the mucosa only and not affecting the bones. The perforation is centrally located. Generally, the safe type of CSOM rarely causes dangerous complications. In the safe type of CSOM there is no cholesteotoma, and in the malignant type of CSOM there is cholesteatoma because this type is often associated with the risk of serious complications and can cause bone erosion due to cholesteatoma, so this type is also called the dangerous or unsafe type. Sometimes cholesteatoma is also found in CSOM with subtotal perforation.



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Granulation and osteitis are found in most cases. (Daniel, G. et al. 2018). From 5 journals, the benign type was obtained.

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The dominant symptom of CSOM is persistent ear discharge that does not improve with treatment. The benign type and the dangerous type can be accompanied by continuous or intermittent ear discharge for 3 months accompanied by lack of hearing, which can be accompanied by a cough, cold or sore throat, ringing in the ears, dizziness, headaches. (Ministry of Health of the Republic of Indonesia. (2018). Of the 4 journals, the main complaint was otorrhea.

CONCLUSION

Based on the results of identification and several studies in this literature review, it can be concluded that more adults suffer from chronic suppurative otitis media than children and adolescents. Gender is more male than female, CSOM patients based on type have more benign types than malignant types, CSOM patients based on the main complaint are more otorrhea than other hearing disorders.

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