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Research Article

On the Epstein - Barr Virus Infection (Glandular Fever): The Kissing Disease

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Abstract

Glandular fever is a prevalent infection among teenagers, adults, and tertiary students Symptoms include fever, sore throat, swollen glands and lymph nodes, and hepatitis at times. It is usually triggered by an extremely contagious herpes virus, the Epstein-Barr disease (EBV). We conducted a survey to develop awareness among the postgraduate students of the faculty of public health about the disease. Questionnaire was distributed among 4 boys and 16 girls. 90% of the students agreed that glandular fever is a viral disease. All students recognize that there is no cure for glandular fever, and generally glandular fever goes without therapy, but fatigue can last for a while.

Introduction

Glandular fever is an Epstein Barr virus (EBV) infection. It is also called Infectious Mononucleosis and the' Kissing Disease' at times. Once an individual is infected by Epstein Barr virus, the disease is thought to remain in his or her body for life, although it does not generally trigger further disease. Glandular fever is spread from individual to individual through saliva contact, exposure to sneezing and cough, kissing, sharing toothbrushes, sharing food and drinking utensils like cups, glasses and unwashed utensils. Glandular fever may affect people of all ages, but most cases affect teens and young adults. Symptoms of glandular fever are thought to take about one to two months to develop after infection with Epstein-Barr virus (EBV). The most prevalent signs of the disease are fever, jaundice, rash, fatigue, and sore throat, etc. Not everyone who can pass on EBV will themselves have symptoms. These are regarded as asymptomatic carriers After recovering from glandular fever, some individuals may have the virus in their saliva for a few months and may continue to have the virus on and off in their saliva for years. This is because after they have been subjected to it, the virus stays dormant in the body for the remainder of their lives. The inactive virus will not trigger any diseases for most individuals. However, there is a chance that the virus will reactivate periodically, which may mean that it will re-enter the saliva. This reactivation may have no signs or may trigger a recurrence of the symptoms for a short time. Diagnosis is usually made by a blood test, and the incubation period is between four to six weeks. There is presently no effective antiviral medication for the treatment of Glandular fever, medication may be needed to regulate fever. Over-the-counter pain killers such as paracetamol or non-steroidal anti-inflammatory drugs such as ibuprofen can assist to relieve pain and fever. Children under the age of 16 should not be given aspirin because there is a tiny danger that it may cause a rare but severe disease called Reye's syndrome. Regular gargling with a salty water or warm water solution may also assist reduce the sore throat.

The basic purpose of this study was to determine the awareness of university students about Glandular fever.

Methodology

Questionnaire development survey

A questionnaire was designed to access the public health student's understanding of Glandular fever. The questionnaire comprised of 15 questions based on yes or no response boxes. To mark the option of their choice, individual students were given a copy of the questionnaire. 20 postgraduate students from the faculty of Public Health, college of Medicine, University of Ibadan were chosen to study Glandular fever awareness.

Result and Discussion

Epstein-Barr virus infection (Glandular fever) etiology awareness is provided in tables 1-8. We performed the study involving 20 graduate students including 4 boys and 16 girls. There were 15 questions about Glandular fever for which the students responded to. 81% Boys and 92% Girls





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Table 1: Awareness about etiology of Glandular fever

	Glandular fever is a	Yes	No
1	Glandular fever is caused by viral infection		
2	Glandular fever is caused by bacteria		
3	Glandular fever is caused fungi		
4	Glandular fever is caused by genetic factors		
5	Glandular fever is caused by metabolic		

Table 2: Contact with Glandular fever

	Ever suffered from Glandular fever	Yes	No
	Ever Suffered from Glandular lever	162	INO
6	You		
7	Your family		
8	Your friend		
9	Your neighbor		
10	Your relative		

Table 5: Perception of the students

		Transmission

	Glandular fever is transmitted by	Yes	No
11	Blood		
12	Saliva		
13	Sex		

Table 4: Treatment Method

	Glandular fever is treated by	Yes	No
14	Antibiotics		
15	Aspirin		
16	Surgery		
17	No Cure		

having suffered. 35% of boys and 30% of girls reported suffering from glandular fever. 25% of boys said their friends had this disease, but girls reported a higher incidence. 99% of the respondents agreed that it is not spread by blood. 96.5% of the respondents agreed that it is

	Pegnanga	Male		Female		Total	
	Response	Yes	No	Yes	No	Yes	No
1	Glandular fever is caused by viral infection	81%	19%	92%	8%	90%	10%
2	Glandular fever is caused by bacteria	33.30%	66.60%	94.50%	5.40%	80%	20%
3	Glandular fever is caused fungi	33.30%	66.60%	77.30%	22.60%	65%	35%
4	Glandular fever is caused by genetic factors	0%	100%	0%	100%	0%	100%
5	Glandular fever is caused by metabolic	0%	100%	0%	100%	0%	100%

Table 6: Have you suffered from the Glandular Fever?

	D	Male		Fen	nale	Total		
	Response	Yes	No	Yes	No	Yes	No	
6	You	35%	65%	30%	70%	30%	70%	
7	Your family	0%	100%	0%	100%	0%	100%	
8	Your friend	25%	75%	40%	60%	35%	65%	
9	Your neighbor	0%	100%	0%	100%	0%	100%	
10	Your relative	0%	100%	0%	100%	0%	100%	

Table 7: Glandular fever can be transmitted by?

Response		Ma	Male		nale	Total	
		Yes	No	Yes	No	Yes	No
11	Blood	5%	95%	5%	95%	1%	99%
12	Saliva	95%	5%	97%	3%	96.50%	3.50%
13	Sex	0%	100%	0%	100%	0%	100%

agreed that Glandular Fever was a viral infection. 33.3% boys and 94.5% of the girls agreed that Glandular fever is a bacterial disease. 33.3% of boys and 77.3% of girls said it was a fungal disease. 100% of boys and girls said this disease was not present in their family, neighbors and family. 35% of the boys and 30% of the girls reported

spread through saliva. All participants agreed that there is no spread of glandular fever through sex. 100% boys and girls said that it cannot be treated by Antibiotics, Aspirin or Surgery. 100% boys and girls said that Glandular fever has no cure.



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Table 8: Glandular fever can be treated by?

			ale	Female		Total	
	Response	Yes	No	Yes	No	Yes	No
14	Antibiotics	0%	100%	0%	100%	0%	100%
15	Aspirin	0%	100%	0%	100%	0%	100%
16	Surgery	0%	100%	0%	100%	0%	100%
17	No cure	100%	0%	100%	0%	100%	0%

Reference

- WHO Initiative for Vaccine Research (IVR). Viral Cancers. Epstein-Barr
- 2. Fernandes L. Human immunodeficiency virus and cancer: A population of HIV-infected patients at Hospital de Santa Maria and predictors of cancer. GERMS. 2012; 2:60-74
- McKeown E, Pope JE, Leaf S. Epstein-Barr Virus (EBV) Prevalence and the Risk of Reactivation in Patients with Inflammatory Arthritis Using Anti-TNF Agents and in those who are Biologic Naive. Open Rheumatol J. 2009; 3: 30-34.
- Shannon-Lowe C, Rowe M. Epstein-Barr virus infection of polarized epithelial cells via the basolateral surface by memory B cell-mediated transfer infection. PLoS Pathog. 2011; 7: e1001338.
- Maxwell O, Chukwu A. Perception about bacteria vaginosis: a common 5. vaginal infection. Obstet Gynecol Int J. 2019; 10: 270-272.