

Opinions about Mumps Disease and its Severity among Different Individuals

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Abstract

Objective of present study was to evaluate the knowledge of mumps disease. Opinions of different students were asked about Mumps in Bahauddin Zakariya University. Swelling of parotid glands is a common symptom of this disease and these glands are present on one or both sides of face. Mumps is a viral disease and pass from one person to another person and also transmitted by respiratory droplet. A person is usually immune for his life when an infection has completed its period once. It was concluded from present study that maximum subjects including male and female about 97% said it was viral disease while minimum 1% said it was bacterial disease. Maximum 76% male and female answered that their friend had not suffered from mumps while. Maximum 79% male and female said it was not transmitted from parents to offspring. Maximum 91% male and female answered that there was no need of treatment.

Keywords: Mumps, Viral, Transmission, Swelling, Parotid Glands Zakariya University.

Introductions

Mumps is a viral disease and pass from one person to another person and also transmitted by respiratory droplet. Mumps can also transfer by using shared cups and utensils. This disease is caused by mumps virus. This disease usually affects children more than adults. Swelling of parotid glands is a common symptom of this disease and these glands are present on one or both sides of face. Swelling of glands usually occurs due to high serum level of amylase enzyme. Patient feels headache, malaise and fever during mumps. Symptoms occur 16 to 18 days after exposure to virus. These symptoms are very harsh in adults than in children. Other symptoms can be dry mouth, difficulty while talking and sore face or ears. While some people about 20-40% with mumps disease don't show proper symptoms. A person is usually immune for his life when an infection has completed its period once. Diagnosis is done for determining the exposure of mumps virus. For this, physical examination is done to confirm the presence of swollen glands. This disease is diagnosed on clinical levels not in a lab. But in some cases, blood sample may be carried out for confirmation test. Vaccines have been discovered for prevention of mumps like MMR vaccine. About more than 90%, there is decline in rate of disease due to the vaccination in which two doses of mumps vaccine are given. Single dose of vaccine is not much more effective. The best method to prevent mumps is vaccination against this disease because there is no proper treatment for mumps [1, 2].

Objective of present study was to evaluate the knowledge of mumps disease.

Materials and Methods

Opinions of different students were asked about Mumps in Bahauddin

Table 1: Questionnaire to estimate awareness about severity of Mumps

Mumps is a	Yes	No
1. Viral disease		
2. Bacterial disease		
3. Fungal disease		
4. Genetic disease		
5. Metabolic disease		
Have ever suffered from Mumps		
6. You		
7. Your family member		
8. Your relative		
9. Your neighbor		
10. Your friend		
Mumps may be transmitted by		
11. Through contacts or blood transfusion		
12. From parents to offspring		
Mumps can be treated by		
13. Using Medicines		
14. Surgery		
15. There is no need of treatment		

Results

Opinions about Mumps disease and its severity among different individuals are given in table 1. We asked questions related to mumps and put data in table. We asked subjects first question which type

of mumps was disease then 97% female & male said it was viral disease and 3% said no. 1% female & male said it was bacterial disease and 99% said no. 3% female and male said it was fungal infection while 97% said no. 28% female and male said it was a genetic disorder while 72% said no. 6% male and female said it was metabolic disorder while 94% said no. We asked next question that had you ever suffered from mumps then 37% female and male said yes while 63% said no. 38% subjects said that their family members had suffered from mumps while 62% answered no. 29% female and male said that their relative and neighbor had suffered from mumps while 71% male and female answered no. 24% female and male said that their friend had suffered from mumps while 76%

said no. Similarly, we asked next question that how mumps can be transmitted then 44% female and male said it may be transmitted through blood or contacts while 56% said no through blood or contact. 21% female and male said mumps can be transmitted from parents to offspring while 79% said that mumps disease not passed from parent to offspring. Our last question was how mumps can be treated then 68% subjects including male and female said it can be treated by using medicine while 32% said it was no. 13% said surgery was done while 87% said no surgery was done. 9% female and male said yes that there was no need of treatment while 91 subjects answered no means there was need of treatment.

Table 1: Opinions about Mumps disease and its severity among different individuals

Questions	Female		Male		Total	
	Yes	No	Yes	No	Yes	No
1. Disease caused by virus	76%	1%	21%	2%	97%	3%
2. Disease caused by bacteria	0%	78%	1%	21%	1%	99%
3. Disease caused by fungi	1%	76%	2%	21%	3%	97%
4. Genetic disorder	22%	55%	6%	17%	28%	72%
5. Metabolic disorder	6%	71%	0%	23%	6%	94%
6. Have you suffered from Mumps?	33%	44%	4%	19%	37%	63%
7. Have your family member suffered from mumps?	32%	45%	6%	17%	38%	62%
8. Have your relative suffered from mumps	24%	53%	5%	18%	29%	71%
9. Have your neighbor suffered from mumps?	20%	58%	9%	13%	29%	71%
10. Have your friend suffered from mumps?	18%	59%	6%	17%	24%	76%
11. Mumps may be transmitted contacts or blood transfusion	38%	39%	6%	17%	44%	56%
12. Mumps may be transmitted from parents to offspring	17%	60%	4%	19%	21%	79%
13. Mumps can be treated by using medicines	51%	26%	17%	6%	68%	32%
14. Mumps may be treated by surgery	13%	64%	0%	23%	13%	87%
15. There is no need of treatment for mumps	9%	68%	0%	23%	9%	91%

Discussion

Questionnaire based studies have given an important advancement in recent researches [3-10]. Paramyxovirus caused mumps disease which is a cute infection. However, this disease is not much more severe but certain times complications can cause death (According to global review by S.E. Robertson & A.M. Galazka 1999). On the basis of genome, MuV part of genome in mumps following different distribution. There is single serotype existing in mumps virus and several genotypes may spread at the same time within region or country (Chinese Journal of vaccine and immunization 2006) According to world health organization, national immunization used mumps vaccine in 92% developed countries.

Conclusion

It was concluded from present study that maximum subjects including male and female about 97% said it was a viral disease while minimum 1% said it was bacterial disease. Maximum 76% male and female answered that their friend had not suffered from mumps while Maximum 79% male and female said it was not transmitted from parents to offspring. Maximum 91% male and female answered that there was no need of treatment.

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