

## RESEARCH ARTICLE

## Awareness about etiology and transmission psittacosis

Muhammad Imran Qadir<sup>1</sup>, Muazam Jelani\*<sup>1</sup>Institute of Molecular Biology and Biotechnology, Bahauddin Zakariya University, Multan, Pakistan

Received on: 30/10/2018, Revised on: 30/11/2018, Accepted on: 25/12/2018

**ABSTRACT**

Objective of the present study was evaluating awareness about etiology of psittacosis. This disease is caused by bacterium *Chlamydia psittaci* which is present in the cell. It is also known as parrot fever. In 1892, Morange used it first time. Parrots, parakeets are infected by this bacterium. It is also caused by non psittacine birds and known as ornithosis. A questionnaire was prepared that contains the questions like psittacosis is a bacterial, viral and fungal disease, Ever you suffered from psittacosis, it is transmitted by blood transfusion, psittacosis may be treated by medicine or surgery.

**Keywords:** Ornithosis, Bacterium, Psittacosis**INTRODUCTION**

This disease is caused by bacterium *Chlamydia psittaci* which is present in the cell. It is known as a parrot fever. In 1892, Morange used it first time. This bacterium infects parrots, parakeets etc. It is also caused by nonpsittacine birds and known as ornithosis. It is mostly occurred in zoo employees, poultry farmers. It is rare transmit from a man to others. It is directly infects through the respiratory system. *C psittaci* attached with epithelial cells. After this lung infection occurred. By handling sick birds, this disease may transmit to human. If zoo visitors also handle the birds which are infected by psittacosis, transmission of this disease may possible. Annually about 200 cases are showed up. It is difficult to diagnose this disease. Psittacosis has no observed sexual predilection. This disease causes infection in all age groups, included child also. But this infection is mostly occurred in those people which are 30-40 years old.

Objective of the present study was evaluating awareness about etiology of psittacosis.

**MATERIAL AND METHOD**

A questionnaire was prepared that contained the questions like psittacosis is a bacterial, viral and fungal disease, Ever you suffered from psittacosis, it is transmitted by blood transfusion, psittacosis may be treated by medicine or surgery. These questions were asked to the people. We prepared a paper and wrote the questions on it. Then people gave the answer of those questions on the paper. 100 people in whom male and females were

included gave the answer of these questions which are given below in the following tables 1-4.

**Table 1: Questionnaire to awareness about etiology of Psittacosis**

Which kind of disease is psittacosis?	
1.	Is it a viral?
2.	Is it a bacterial?
3.	Is it a fungal?
4.	Is it a genetic?
5.	Is it a metabolic?

**Table 2: Questionnaire to evaluate views about prevalence of Psittacosis**

Who suffered from Psittacosis?	
1.	Are you suffered from it?
2.	Is your family member suffered from it?
3.	Is your relative suffered from it?
4.	Is your neighbor suffered from it?
5.	Is your friend suffered from it?

**Table 3: Questions to evaluate views about transmission of Psittacosis**

How psittacosis is transmitted?	
1.	Is it transmitting by Contacting or blood transferring?
2.	Is it transmitted from parents to child?

**Table 4: Questionnaire to evaluate views about Hope for Psittacosis**

How psittacosis is treated?	
1.	Is it treated by medicines?
2.	Is it treated by surgery?
3.	Is it needed none of the treatment?

**Statistical Analysis**

Statistical analysis was performed by MS Excel.

**RESULTS AND DISCUSSION**

A total number of 100 people took part in this research, in which 39 males and 61 females.

**Corresponding Author:** Muazam Jelani, **Email:** muazam359@gmail.com

When those questions were asked to those people they gave answer in the form of yes or no. The people gave viewed about the disease psittaco. From the males no one viewed that psittacosis is a viral disease. Similarly from the females same answer was found. So, 100% result was that psittacosis is not a viral disease. In the same way, all the males had viewed that psittaco is a bacterial disease. From the females, about 85.25% females gave viewed that psittacosis is a bacterial disease and 14.75% females not considered it a bacterial disease. So, total 88.00% result was that psittacosis is a bacterial disease and 12.00% people not considered it a bacterial disease. In the same way, no one male considered it a fungal disease. Same answer was found from females. So, 100% people ignored it as a fungal disease. Another thing that was also finds that no one from males considered it a genetic disease and 8.20% females considered the psittacosis a genetic disease and 91.80% ignored it. So, 95.00% people ignored it as a genetic disease. At the end, no male considered it a metabolic disease and about 4.92% females considered it a metabolic disease and 95.08% females not considered it a metabolic disease. So, overall result was that 90.00% people ignored it as a metabolic disease and 10.00% people considered it as a metabolic disease. Overall result is given in the table 5 which is given below.

.Bedson et al 1932 Oct; 13(5):461 already concluded that psittacosis varies clinically, which makes early diagnosis difficult, thus establishment of a rapid diagnostic method is desirable. It is important to keep in mind that digestive symptoms can develop in psittacosis patients. <sup>[11]</sup>

**Table 5: Awareness about etiology of Psittacosis: Views of the people.**

Questions	Male		Female		Total	
	Yes	No	Yes	No	Yes	No
Is psittacosis is caused by a virus?	0.00 %	100%	0.00%	100%	0.00%	100%
Is bacteria caused the psittacosis ?	100 %	0.00%	85.25%	14.75%	88.00%	12.00%
Is fungal is main cause of psittacosis ?	0.00 %	100%	0.00%	100%	0.00%	100%
Is psittacosis is a genetic disease?	0.00 %	100%	8.20%	91.80%	5.00%	95.00%
Is psittacosis is	0.00 %	100%	1.64%	98.36%	10.00%	90.00%

metabolic disease?						
--------------------	--	--	--	--	--	--

**CONCLUSION**

It was concluded from the above study that psittacosis is a bacterial disease. This disease is caused by bacterium *Chlamydia psittaci* which is presents in the cell. It is transmitted from one to another by contacting. Medicine is also present of this disease. Mostly those people are affected from it which have pet birds or work in the zoo and those which contact with birds in any field work.

**REFERENCES**

1. Meyer KF. The ecology of psittacosis and ornithosis. *Medicine*. 1942 May 1;21(2):175.
2. Bedson SP, Bland JO. A morphological study of psittacosis virus, with the description of a developmental cycle. *British journal of experimental pathology*. 1932 Oct;13(5):461.
3. Qadir MI, Javid A (2018) Awareness about Crohn’s Disease in biotechnology students. *Glo Adv Res J Med Medical Sci*, 7(3): 062-064.
4. Qadir MI, Saleem A (2018) Awareness about ischemic heart disease in university biotechnology students. *Glo Adv Res J Med Medical Sci*, 7(3): 059-061.
5. Qadir MI, Ishfaq S (2018) Awareness about hypertension in biology students. *Int J Mod Pharma Res*, 7(2): 08-10.
6. Qadir MI, Mehwish (2018) Awareness about psoriasis disease. *Int J Mod Pharma Res*, 7(2): 17-18.
7. Qadir MI, Shahzad R (2018) Awareness about obesity in postgraduate students of biotechnology. *Int J Mod Pharma Res*, 7(2): 14-16.
8. Qadir MI, Rizvi M (2018) Awareness about thalassemia in post graduate students. *MOJ Lymphology & Phlebology*, 2(1): 14-16.
9. Qadir MI, Ghalia BA (2018) Awareness survey about colorectal cancer in students of M. Phil Biotechnology at Bahauddin Zakariya University, Multan, Pakistan. *Nov Appro in Can Study*, 1(3): NACS.000514.2018.
10. Qadir MI, Saba G (2018) Awareness about intestinal cancer in university student. *Nov Appro in Can Study*, 1(3): NACS.000515.2018.

11. Bedson SP, Bland JO. A morphological study of psittacosis virus, with the description of a developmental cycle. *British journal of experimental pathology.* 1932 Oct;13(5):461.