



Muhammad Imran Qadir and Misbah Rozi*

Institute of Molecular Biology and Biotechnology,
Bahauddin Zakariya University, Multan, Pakistan

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*Corresponding author: Misbah Rozi, Institute of
Molecular Biology and Biotechnology, Bahauddin
Zakariya University, Multan, Pakistan,
E-mail: misbahrozi6888@gmail.com

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Research Article

Overview of university students about causes and treatment of bacterial disease Brucellosis

Abstract

Objective of the present study was to evaluate the overview of Brucellosis disease. Brucellosis is a bacterial disease which is also called undulant fever. Both human and animals are affected from this disease. When people eat contaminated food like raw meat and unpasteurized milk, they suffered from brucellosis disease. A Questionnaire was prepared that contain the question like Brucellosis is a bacterial disease, viral disease or a fungal disease. Are you suffered from this disease? Is Brucellosis treated by medicines or a surgery? Total number of university students, which took part in this research are 90. All the students belong to Bahauddin Zakariya University in Multan, Pakistan age from 20-23. We concluded that we should avoid raw meat and unpasteurized milk to getting the chance of Brucellosis.

Introduction

Brucellosis is a bacterial disease. This disease can infect both human and animal. Brucellosis is a type of fever called undulant fever. When people eat contaminated food like raw meat and unpasteurized milk, they suffered from brucellosis disease. Highest chance of getting brucellosis to those people who work with animal and raw meat. The symptoms of brucellosis in humans are back pain, headaches, and pain in the joints, appetite loss, and weight loss, fever that comes and goes. To diagnose the brucellosis, there is some test for it like blood test, urine test, testing for antibodies to brucellosis, bone marrow culture. Diagnosis may be made serologically also. Brucellosis is usually treated with antibiotics like doxycycline and tetracycline. To decrease the chance of getting brucellosis, we should use pasteurized milk and avoid raw meat. We should also wear protective clothes when working with animal [1,2].

Objective of the present study was to evaluate the overview of Brucellosis disease.

Material And Method

The total number of university students who took part in this research work is 90. They were the students of Bahauddin Zakariya University in Multan, Pakistan. A Questionnaire was prepared that contain different question about etiology of Brucellosis like Brucellosis is a bacterial, viral or a fungal disease? Maximum students said that it is a bacterial. Some question about prevalence of Brucellosis like ever you, your

family member, your relative, your friend or your neighbour suffered from brucellosis? Some question about transfusion of brucellosis. Different question about treatment of brucellosis like is brucellosis treated by medicines or surgery? Mostly students answered that it is treated by medicines.

Statistical Analysis

Statistical analysis was performed by using Microsoft Excel. The percentage of every question in yes and no has been given.

Results And Discussion

Overview of university students about etiology, prevalence, transmission and treatment of Brucellosis is given. Percentages of the answers that are given by students also present in the table 1. In the table, 89.7% students said that Brucellosis is a bacterial disease and 10.2% students said that it is not a bacterial disease. Statistical analysis was performed by using Microsoft Excel.

Questionnaire based studies has been given important outcomes in current researches [3-11]. In results the percentages of yes, no is also present. E. Negash at all, studied the awareness about Brucellosis. This study could make a useful contribution towards the prevention of small ruminant brucellosis in the area. An effort should be focused on educating farmers on testing and removing affected animals, and using anti-brucellosis vaccines to protect the animals and stressing the necessity of boiling of milk and cooking meat obtained from small ruminants.

Table 1: A Questionnaire to evaluate knowledge about etiology, prevalence, transmission and treatment of Brucellosis.

Brucellosis is a	Yes	No
1. Viral disease	8.9%	91%
2. Bacterial disease	89.7%	10.2%
3. Fungal disease	14.1%	85.8%
4. Genetic disease	19.23%	80.7%
5. Metabolic disease	19.23%	80%
Ever suffered from Brucellosis		
1. You	8.9%	91%
2. Your family member	7.6%	92.3%
3. Your relative	16.6%	83.3%
4. Your neighbor	16%	83.3%
5. Your friend	10.2%	89%
Brucellosis is transmitted by		
6. Contacts or blood transfusion	43.5%	56.4%
7. From parents to offspring	21.79%	78.2%
Brucellosis is treated by		
8. Medicines	83.3%	16.65%
9. Surgery	11.5%	88.4%
10. No need of treatment	17.9%	82%

Conclusion

It was concluded from the above study that brucellosis (undulant fever) is a bacterial disease. It is caused by a group of bacteria. Antibiotics are available for its treatment. Avoid raw meat and unpasteurized milk to getting the chance of brucellosis. We concluded that the animal herders and their families should also be tested to confirm its public health threat.

References

- Ashford DA, Di Pietra J, Lingappa J, Woods C, Noll H, et al. (2004) Adverse events in humans associated with accidental exposure to the livestock brucellosis vaccine RB51. *Vaccine* 22: 3435-3439. [Link: https://goo.gl/4Cwa61](https://goo.gl/4Cwa61)
- Ariza J, Corredoira J, Pallares R, Viladrich PF, Rufi G, et al. (1995) Characteristics of and risk factors for relapse of brucellosis in humans. *Clinical infectious diseases* 20: 1241-1249. [Link: https://goo.gl/xd6y1K](https://goo.gl/xd6y1K)
- Qadir MI, Javid A (2018) Awareness about Crohn's Disease in biotechnology students. *Glo Adv Res J Med Medical Sci* 7: 062-064. [Link: https://goo.gl/joFaoi](https://goo.gl/joFaoi)
- Qadir MI, Saleem A (2018) Awareness about ischemic heart disease in university biotechnology students. *Glo Adv Res J Med Medical Sci* 7: 059-061. [Link: https://goo.gl/q2QTy3](https://goo.gl/q2QTy3)
- Qadir MI, Ishfaq S (2018) Awareness about hypertension in biology students. *Int J Mod Pharma Res* 7: 08-10.
- Qadir MI, Mehwish (2018) Awareness about psoriasis disease. *Int J Mod Pharma Res* 7: 17-18.
- Qadir MI, Shahzad R (2018) Awareness about obesity in postgraduate students of biotechnology. *Int J Mod Pharma Res* 7: 14-16.
- Qadir MI, Rizvi M (2018) Awareness about thalassemia in post graduate students. *MOJ Lymphology & Phlebology* 2: 14-16.
- 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: NACS.000514. [Link: https://goo.gl/7stokd](https://goo.gl/7stokd)
- Qadir MI, Saba G (2018) Awareness about intestinal cancer in university student. *Nov Ap.pro in Can Study* 1: NACS.000515. [Link: https://goo.gl/t7bHMK](https://goo.gl/t7bHMK)
- Negash E, Shimelis S, Beyene D (2012) Seroprevalence of small ruminant brucellosis and its public health awareness in selected sites of Dire Dawa region, Eastern Ethiopia. *Journal of Veterinary Medicine and Animal Health* 4: 61-66. [Link: https://goo.gl/7W9LFm](https://goo.gl/7W9LFm)