



Awareness about Liver Cancer in Biotechnology Students



Muhammad Imran Qadir* and Sidra Noureen

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

*Corresponding author: Muhammad Imran Qadir, Institute of Molecular Biology and Biotechnology, Bahauddin Zakariya University, Multan, Pakistan

Submission: April 12, 2018; Published: May 29, 2018

Abstract

Liver cancer is a major disease caused by sudden mutation occurred in the genes. To cure this disease gemcitabine seems to be affective. Gemcitabine is anticancer agent that has profile containing mild toxicity. It seems to be affective in solid tumors. To check its effectiveness, a questionnaire was developed and the awareness about liver cancer is checked in the post graduate students. All the students were fully aware of this disease.

Keywords: Liver cancer; Mutation; Gemcitabine; Treatment; Effectiveness

Introduction

The liver plays a vital role in metabolism of nutrients and various antibiotics, like food additives, drugs and environmental pollutants. It is largest gland in the human body. The important processes are associated with regulation of the carbohydrate, lipid, amino acid and the hormone metabolism. Gemcitabine has been associated with important thrombotic and vascular side effects. Its use is being wider in different fields Dasanu [1].

Gemcitabine is used in the chemotherapeutic treatment. Patients respond to it but sometimes give a very poor response. Gemcitabine is a new anticancer agent with a mild toxicity profile, which has major activity in many solid tumors. Therefore we investigated the effect of gemcitabine in patients with different methods Kubicka et al. [2]. It forms complex with the SWI/SNF

and helps the cells to enter senescence. Senescence is a stage in which the cells can no longer divide and proliferation of cells stops. Gemcitabine dose will be given on daily basis two times a day to check its effect on the arid1b gene liver cancer. Gemcitabine is a cytotoxic cytidine analog, which is widely used in anti-cancer therapy. D'Costa et al. [3]. The basic purpose of this study was to provide the awareness of university students about the disease.

Methodology

This questionnaire was developed to check the awareness of students about the liver cancer. 39 students was selected from BZU, the inclusion criteria was M.Phil. Student and exclusion criteria were that they were not the students of BS (Table 1).

Table 1: Questionnaire to evaluate awareness about etiology of liver cancer.

Liver cancer	Yes	No
Viral disease		
Bacterial disease		
Fungal disease		
Genetic disease		
Metabolic disease		
Ever suffered from liver cancer		
You		
Your family		
Your relative		
Your neighbor		
Your friend		
Liver cancer transmitted by		
Contacts or blood transfusion		
From parents to offspring		
Liver cancer may be treated by		
Medicines		
Surgery		
Do not worry, it is easily curable		

Results

Awareness about etiology of liver cancer is given in table 2. The ratio of results varies among male and female students. It shows that 76% of the male and female said that it is a viral disease and

24% says it's not. While 18% said that it's a bacterial disease and 82% said it's not. 5% said that it's a fungal disease while 95% said it's not. Genetic disease ratio varies among them as 55% and 45%. 76% of them said as it's a metabolic disease while 24% said it's not (Table 2).

Table 2: Awareness about etiology of liver cancer: Views of Postgraduate Biology Students.

Questions	Male		Female		Total	
	Yes	No	Yes	No	Yes	No
Viral disease	83%	17%	75%	25%	76%	24%
Bacterial disease	0%	100%	21%	79%	18%	82%
Fungal disease	0%	100%	06%	94%	05%	95%
Genetic disease	17%	83%	62%	38%	55%	45%
Metabolic disease	50%	50%	81%	19%	76%	24%
Ever suffered from liver cancer						
You	0%	100%	0%	100%	0%	100%
Your family	0%	100%	15%	85%	16%	84%
Your relative	0%	100%	31%	69%	26%	74%
Your neighbor	17%	83%	18%	82%	18%	82%
Your friend	0%	100%	12%	88%	10%	90%
Liver cancer transmitted by						
Contacts or blood transfusion	83%	17%	43%	57%	50%	50%
From parents to offspring	33%	67%	40%	60%	39%	61%
Liver cancer may be treated by						
Medicines	100%	0%	93%	7%	94%	6%
Surgery	100%	0%	93%	7%	94%	6%
Do not worry, it is easily curable	0%	100%	7%	93%	6%	94%

Discussion

In the past, people were not well aware of this disease. The ratio of results among different people in Korea and other countries were different. Now a day, people in all the countries are well aware as discussed in this report about post graduate students.

Conclusion

This was concluded that the post graduate students were totally aware by this disease.

References

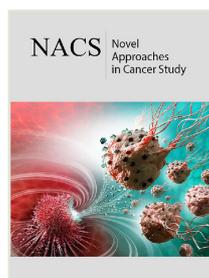
1. Dasanu CA (2008) Gemcitabine: vascular toxicity and prothrombotic potential. *Expert Opin Drug Saf* 7(6): 703-716.
2. Kubicka S, Rudolph KL, Tietze MK, Lorenz M, Manns M, et al. (2001) Phase II study of systemic gemcitabine chemotherapy for advanced unresectable hepatobiliary carcinomas. *Hepato-gastroenterology* 48(39): 783-789.
3. D'Costa Z, Jones K, Azad A, van Stiphout R, Lim SY, et al. (2017) Gemcitabine-induced TIMP1 attenuates therapy response and promotes tumor growth and liver metastasis in pancreatic cancer. *Cancer Res* 77(21): 5952-5962.



Creative Commons Attribution 4.0 International License

For possible submissions Click Here

Submit Article



Novel Approaches in Cancer Study

Benefits of Publishing with us

- High-level peer review and editorial services
- Freely accessible online immediately upon publication
- Authors retain the copyright to their work
- Licensing it under a Creative Commons license
- Visibility through different online platforms