20	urnal or P	ORIGINAL RESEARCH PAPER		Biochemistry		
Indian			OY OF BIOCHEMICAL PARAMETRES IN ICOVID PATIENTS IN 3RD WAVE OF COVID.	KEY WORDS:		
Dr. K.S. Motghare			Associate Professor Department Of Biochemistry GMC Chandrapur			
Dr. M Chavan			$\label{eq:solution} Associate Professor in the deaprtment of Medicine GMC Chandrapur$			
Dr. S.W. Masram		m	ProfessorandHeadofDepartmentofBiochemistryGMCChandrapur			
ACT	We studied the concentration of bichemical markers in serum of outdoor patient {OPD} wih presence of symptoms like fever, cough and cold in 3rd wave of covid.Many patients were diagonesed with viral fever. Their RTPCR test was					

we studied the concentration of bichemical markers in serum of outdoor patient (OPD) win presence of symptoms like fever, cough and cold in 3rd wave of covid.Many patients were diagonesed with viral fever . Their RTPCR test was negative. pateint complaint were not severe .We had analysed their blood urea, SGOT, SGPT, blood glucose, creatinine, alkaline phosphtase and bilirubin. Most of biochemical markers level are within noraml limit. and it suggets that in noncovid patients having only viral fever their is no multiplication of virus in hepatic cells and also their is no damage to renal system.

INTRODUCTION:

A virus is a subicroscopic infectious agent that replicates only inside living cells of organisms {1}.

Virus are found in almost every ecosystem on the Earth and are the most numerous type of biological entity{2,3} The most common cause of fever in India is viral. The causative organism are like influenza virus and others.

The fever is associated with headache, cough, cold, bodyache. Physician should advice biochemoical test to know the status of organ or severity of disease.

We had measured LFT parametres and Sr. creatinine and blood urea in such symtamatic patients in 3rd wave of covid in february and marc 2022.

MATERIAL AND METHOD

Preaparation of blood sample :

The blood sample of patient were collected at centrai clinical labortory after they had attended rsespective opd like Medicine or pediatrics. Study were conducted from feb 2022 to march 2022. Patients of age group from 10 to 80 years were selected who were not suffering from covid.

Analysis of biochemical marker :

The serum is separated from bood and analysis of concentration of biochemical markers in serum is carried.

The cncentration of LFT parametres and Sr. creatinine and blood urea and blood glucose in some patients were determined on fully autoanalyser {Transasia 640 company of India}.

Statistical Analysis :

The cncentartion o biochemical parametres were analysed and were compared to each other and it was to find out whether any significant changed had occured. The concentration of biochemical parmetres in symptomatic patients are as follows:

Biochemical	Reference	Sample of patient A		sample				
of patient B parametre								
1.Creatinine	0.7-1.5 mg\dl	0.86 mg\dl	0.95 mg\dl					
2.Blood urea	20-40 mg\dl	ll.7 mg\dl	11.8 mg\dl					
3.AST\SGOT	5-35 IU\L	39.6 IU\L	31.6IU\L					
4.ALT\SGPT	5-45 IU\L	27.1 IU\L	23.2 II	J∕L				
5.Alkaline								
Phosphtase	25-90 IU\L	67 IU\L	114 I	J/L				

The blood glucose is done by GodPod method , enzymes were studied b kinetic method , blood urea by Berthlot

method, serum creatinine Jafee's Principle. All tests were analysed by fully autoanalyser machine.

OBSERVATION AND RESULT :

In the symptomatic non coid patients levels of most of the biochemical parametres like SGOT, SGPT and others were normal. On comparison of each patients biochemical markers values it was found that there was no significant difference was observed. Most of the patients were cured by simple treatment.

DISCUSSION:

Many viruses can temporarily increase liver enzymes levels. These includes rhinovirus{common cold} or EBV{Epstein Barr virus} the virus that causes mononucleosis{mono}. It is observed that there is no significat changes in biochemical parametres, it suggets that there was no inflamation in the hepatic cells, no damage seen in renal system of the patient. Because of improvement of patients health it suggets that immunity power is good.

CONCLUSION:

In the 3rd wave of covid, patients who have fever or cold or cough or mix featue of symptoms, that is in non covid patients whose RTPCR was negative their biochemical parametres were within noraml limits i.e. there was neither replication of virus in hepatic cells nor any damage to the renal system by virus.

REFERENCES:

- Wu K.J.[15 April 2020] National Geographic society. Retrieved 18th May 2020.
- Lawrenle C.M., Menon S., Eilers B.j., Bothener B., Khauatr, Donglas T., Young M.J. May 2009, structural and futional studies of archaeal viruses. The Journal of biological chemisry 284[19] 12599-608.
- Edwards RA, Rohwer F[June 2005] viral metagenomics nature reviews micribiology 3[6]504-10