Department of Biochemistry, Govt. Medical College Jammu

To
The Principal & Dean,
Govt.Medical College,
Jammu.
No: - GMC/Bio/21/383.

Dated: - 16,12,2021.

Subject:-Updation of College Website.

Respected Madam,

In reference to the letter No.GMC/Misc/2297 dated 14.12.2021 regarding the subject cited above, in this connection, I amfurnishing herewith detail as per the devised format:-

Department	Name of Faculty Qualification IMP Number	Current Designation & Date of Promotion	Nature of Employment		Details of	Service in the Last	5 years		No.of lectures taken/year. (Topics
				1 (2016-17)	2 (2017-18)	3(2018-19)	4(2019-20)	5[2020-21]	covers)
Department of Biochemistry	Dr. A.S. Bhatia (MBBS,MD Blochemistry) (TMR-4035)	Professor (March 2018)	Permanent	Associate Prot.	Associate Prof. till 24 March 2018,Professor 25 March 2018	Professor	Professor	Professor	22
Department of Biochemistry	Or. Rachna Sabharwal(MBBS.MD Blochemistry)(IMR-697)	Associate Professor (9,10,2019)	Permanent	Lecturer (j.1.3.2011- 10.08.2017)	Assistant Prof (11.8.2017- 8.10.2019)	Assistant Prof. [11.8.2017-8.10.2019]	Assistant Prof till 8.10-2019, Associate Prof. 9.10.2019	Associate Prof	20
Department of Blochemistry	Dr. Kapita Raina [MSc-Biochemistry, PhD Biochemistry]	Assistant Professor (10.4.2018)	Permanent	Lecturer	Lecturer till 9 April 2018, Assistant Prof. 10.4.2018	Assistan) Prof.	Assistan t.Prof	Assistant Prof.	16
Department of Biochemistry	Dr. Ashlma Badyal(MBBS,MD Biochemistry)(IMR- 1871)	Assistant Professor (26.4.2021)	Permantent	Contractual Lecturer	Contractual Lecturer	Permanent Lecturer	Permanent Lecturer	Permanent Lecturer tilf 25 April 2021 Assistant Professor 26.4.2021	16

Show Problem

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Department of Biochemistry, Govt. Medical College Jammu

Department of	Dr. Anil Kumar MSc-	Lecturer (15.6.2010)	Permanent	Lecturer	Lecturer	becturer	Lecturer	Lecturer	16
Biochemistry	Biachernistry, PhD							Lacturer	3,63
	Biochermstry)			1					
Department of	Mr. Laktibir	Lecturer(11.3.2011)	Permanent	Lecturer	Lecturer	Lecturer	Lecturer	Lecturier	10
Blochemistry	Singh(MSc-						A0-9/33/ 54.	ACCIDIE	16
	Bluchernistry)						1 3	1	
Department of	Dr. Tehsven	Lecturer(23.4,2014)	Permanent	Lecturer	Lecturer	Lecturer	Lecturer	Lecturer	06
Biochemistry	Hassan(MSc-						o.c.m.c.	December.	06
	Blochemistry, PhD								
	Blochemistry)					ľ		†-	
Department of	Dr.Palla.vi Mahajan	Lecturer (19.5.202-1)	Permanent	Demonstrator	Demonstrator	Contractual	Contractual	Contractual	13
Biochemistry	(MBBS,MD			10.11.2015	till 93 1.201g	Lecturer	Lecturer	Legitfill	ria
	Biochemistry)(IMR-					23.7.2019		18.5. 2021 Permanent	
	2798)							Lecturer	
Department of	Dr.Gazata	Lecturer [Nov.2020]	Contractual		Demonstrator	Demonstrator	PS	19.5:2021	
Biochemistry	Abbas(MBBS,MD	.1		1	Jan 2018	pamonstratur	Demonstrator till Nov.2020	Contractual Lecturer	08
	Biochemistry](IMR-						Contractual		
	4582)						Lecturer Nov.2020		

Prof.(Dr.)A.S Bhatia,MD Head Deptt. of Biochemistry, Govt. Medical College, Jammu.

DEPARTMENT OF BIOCHEMISTRY, GOVT. MEDICAL COLLEGE, JAMMU

S. No.	Name Of Faculty	Department	Designation	Medical Educator Training	Basic Course in Biomedical Research
1.	Dr Rachna Sabharwal	Biochemistry	Associate Professor	 Revised Basic course Workshop, 25th-27th April 2018, attended at CMC Ludhiana. AETCOM attended at CMC Ludhiana on 28th April, 2018 Curriculum Implementation Support Programme attended at CMC Ludhiana, on 18th-20th February, 2019 ACME- Successfully completed in 2018, B Batch at CMC Ludhiana 	Basic Course in Biomedical Research done in August- December 2020- successfully passed
2.	Dr.Kapila Raina	Bjoche mistry	Assistant Professor	 Done Revised Basic course Workshop at GMC Jammu conducted by MCI Nodal Centre of Medical Education Technologies CMC, Ludhiana from 17th 19th July 2019. Done Curriculum Implementation Support Programme at GMC Jammu conducted by MCI Nodal Centre of Medical Education Technologies CMC, Ludhiana from 22 -24 July 2019 	+]
3.	Dr.Ashima Badyal	Biochemistry	Assistant Professor	 Revised Basic course Workshop, 8-10 Nov 2021, attended at GMC Jammu Research Methodology done result declared 15 Jan 2021 	
4.	Dr.Anil Kumar	Biochemistry	Lecturer	 Done Revised Basic course Workshop at GMC Jammu conducted by MCI Nodal Centre of Medical Education Technologies CMC, Ludhiana from 17th - 19th July 2019. Done Curriculum Implementation Support Programme at GMC Jammu 	Successfully passed Basic Course in Blomedical Research done in March—June 2021

DEPARTMENT OF BIOCHEMISTRY, GOVT. MEDICAL COLLEGE, JAMMU

				conducted by MCI Nodal Centre of Medical Education Technologies CMC, Ludhiana from 22-24 July 2019.	Basic Course in Biomedical
-	Mr.Lakbir Singh Dr Pallavi Mahajan	Biochemistry	Lecturer	Revised Basic course Workshop , attended at ASCOMS, Jammu conducted by CMC Ludhiana 3 rd to 5 th June, 2019 Curriculum Implementation Support Programme attended at ASCOMS, Jammu conducted by CMC Ludhiana, 6 th -8 th June, 2019	Research done in March – June 2020 successfully passed Basic Course in Biomedical Research done in March-June 2020 - successfully passed

Publications of Prof.(Dr) A.S.Bhatia, Head Department of Biochemistry Government Medical College Jammu.

Ashima Badyal, Amarjeet Singh Bhatia

Reference Range of glycated haemoglobin in the diagnosis of diabetes mellitus. International Journal of Research in Medical Sciences, 2015 Oct3(10) 2669-2671

Ashima Badyal, Amarjeet Singh Bhatia

Reference Range Serum TSH and its comparison with values from other laboratories. Indo American Journal of Pharmaceutical research 2015, Vol5, issue 08,2595-2596

Kapila Raina, HN Verma, A.S.Bhatia.

Prevalence of Vitamin Deficiency in Jammu region, JK Science Journal, Vol 16 No1, Jan- March 2014

Rachna Sabharwal, Amarjeet Singh Bhatia, Lakhbir Singh

Screening of Prostate cancer by Prostate specific Antigen and its Prevalance in Jammu Region – National Journal of Laboratory Medicine 2016 Jan, Vol 5(1): 8-11

Pallavi Mahajan, Amarjeet S Bhatia

Diminished Levels of Vitamin D and Altered Lipid Profile, IMSCR Vol 05 issue 06 (23694 – 23697) June, 2017

Pallavi Mahajan, Amar Jeet S Bhatia

Deficiency of Vitamin D and its relationship with Hypothyroidism., Indo American Journal of Pharmaceutical Research, Vol. 6, (5123-5126) issue 04, 2016

Mohit Thalquotra, Amarjeet Singh Bhatia, Rajesh Pandey.

Kidney and Thyroid glands: Interrelation in health and Disease.

Lambert Academic Publishing

Ashima Badyal, Amarjeet Singh Bhatia

Reference Range of glycated haemoglobin in the diagnosis of diabetes mellitus. International Journal of Research in Medical Sciences, 2015 Oct3(10) 2669-2671

Ashima Badyal, Amarjeet Singh Bhatia

Reference Range Serum TSH and its comparison with values from other laboratories. Indo American Journal of Pharmaceutical research 2015, Vol.5, issue 08,2595-2596

Kapila Raina, HN Verma, A.S.Bhatia.

Prevalence of Vitamin Deficiency in Jammu region, JK Science Journal, Vol 16 No1,

lan- March 2014

Rachna Sabharwal, **Amarjeet Singh Bhatia**, Lakhbir Singh Screening of Prostate cancer by Prostate specific Antigen and its Prevalance in Jammu Region – **National Journal of Laboratory Medicine** 2016 Jan; Vol 5(1): 8-11

Pallavi Mahajan, Amarjeet S Bhatia

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(23694 – 23697) June, 2017

Pallavi Mahajan, Amar Jeet 5 Bhatia

Deficiency of Vitamin D and its relationship with Hypothyroidism., Indo American
Journal of Pharmaceutical Research, Vol. 6,(5123–5126) issue 04,2016.

Mohit Thalquotra, Amarjeet Singh Bhatia, Rajesh Pandey Kidney and Thyroid glands: Interrelation in health and Disease. Lambert Academic Publishing

Sr. No	Faculty Name	Publication in Vancouver referencing style.	Pubmed Indexed Yes/No	Scopus
1.	Dr Rachna Sabharwal	 R Sharma, V. Anandharaman, D. Gajalakshmi, R. S Mahajan, K. N. Sahare, M.V.R. Reddy, K. Goswami. Oxidative Rationale as a novel tool for antifilarial drug designing. FRNPH 2008. 		
		2. R. S. Mahajan, V. Anandharaman, D. Gajalakshami, R. Sharma, K. goswami, M.V.R. Reddy. Effect of Certain Antibiotics Against Filarial Parasite Brugiamalayi In Vitro: Possible Role of Oxidative Stress Indian J. Clin Biochem. 2010 Oct; 25(4): 362–366		
		3. Sabharwal R, Goswami K, hande S, Bhoj P. Evolution of anti-filarial therapeutics: An overview. Journal of Microbiology and Antimicrobial Agents 2015; 1(1): 16-22	=	
		4. Sabharwal R, Sabharwal S kataria SP Hypertriglyceridemia in Acuta Pancreatitis. J. App. Med. Sci. 2015; 3(9C):3345-3348		

5. Sabharwal R , Kataria SP Glycated HbA1c: A Potential Biomarker for Diagnosis of Type 2 Diabetes Mellitus and its Correlation with Dyslipidemia RJPBCS 6(5) 2015: 1501-6.	
6. Sabharwal R. Bhatia A.S. Singh L. Screening of Prostate Cancer by Prostate Specific Antigen and its Prevalence in Jammu Region. National Journal of Laboratory Medicine. 2016 Jan, Vol 5(1): 8-11	
7. Sabharwal R, Mahajan P, Bhatia A.S. Association of Subclinical Hypothyroidism with Dyslipidemia JK Science Vol. 19 No. 2 April-June 2017	Scopus
8. Sabharwal R, Mahajan P. Age; Sex and seasonal variation of vitamin D level in children of Jammu region, Journal of Clinical and diagnostic research 2018 Aug; vol 12(8) BC 09-BC 11	Şcopüs
O. Sabharwal R, Singh L, Bhatia A.S.Dyslipidemia in Diabetic patients with Acute Myocardial Infarction. JK Science, volume 21 No 4,October-December 2019	Scopus

.Dr. Kapila Raina

Current designation: Assistant Professor

Nature of employment: Permanent

Details of service in Last five years:

Number of lectures /Year, Topics covered

Publications of faculty

- Raina K, Verma N, Bhatia AS, Khanum S. Prevalance of conventional risk factor in acute myocardial infarction among Jammu Division population. Ijcbr. 2020; 7(1): 91-97
- Raina K, Sharma B, Verma N. Alarming Rise of Haemoglobinopathies in Jammu Division, Ijobr. 2017;4(4):391-394
- RainaK, Verma HN, Bhatia AS. Prevalence of vitamin D deficiency in Jammu region. jkscience.org. 2014; 16(1):21-23.
- Tandon VR, Sharma S, Mahajan S, Raina K et al. Prevalence of Vitamin D deficiency among Indian menopausal women and its correlation with diabetes: A first Indian cross sectional data. J.Midfife Health. 2014;5
 (3):121-5 (PUBMED)
- TandonVR, Khajuria V, Raina K, Mahajan V. Role of Biomedical Investigations and Diagnostic tools in Detection of adverse drug reactions. JCDR. 2014;8(9): 23-6 (PUBMED).
- Gupta K, Raina K, Kalkkar T, Veer Y. Pregnancy outcome in women with Polycystic Ovarian Syndrome. Jkscience.org.2009;11(2):82-84.

Government of Jumpin and Kashmir Health & Medical Education Department Civil Secretarial, Jammid.

Bunject

Subject:-Placement of Ms. Kapıla Raina es Assistanı. Professor Bio-chemistry , Govt. Medical College, Jaminu.

Ref -

Case LPA No 82/2016 titled Kapila Raina Vs Dr. Rachna Sabharwal and others LPA No. 85/2016 Dr. Rachna Sabharwal and others LPA No.32/2017 titled Kapila Raina Vs Dr. Rachna Sabharwal and others LPA No. 33/2017 Kapila Raina Vs Rachna Sabharwal and others LPA No. 34/2017 Kapila Raina Vs Rachna Sabharwal and others and LPA No. 35/2017

iii) Letter No GMC/Es-1/PF/1601 dated 24:02.2018 received from Principal GMC Jammu

Government Order No. 259 -HME of 2018 Dated: 04-2018

Whereas Dr. Tehseen Hassan Lecturer Bio-Chemistry has been promoted as I/C Assistant Professor in Bio-chemistry in his own pay and grade with Charge allowance as admissible under rule for a period of six months or till the post is filled up on regular basis Government Order No. 673-HME of 2017 dated 18.12.2017to; and

Whereas, as per the sentority list issued vice Government Order No. 194-HME of 2018 dated 20.03.2018 Ms. Kapila Raina. figurers at serial No. 01 of the said sentority list and Dr. Tehseen Hassan figure at serial No. 5 and

Whereas as per the SRO 517 of 1979 the Jammu & Kashmir Medical Education (Gazetted) Service Recruitment Rules, 1979, the requisite qualification for Assistant Professor Biochemistry for non-medical persons have been prescribed as Ph.D in Bio-Chemistry with three years as Lecturer in Bio-Chemistry In any Medical College or from any recognised medical institution; and

Whereas Dr. Tehseen Hassan was considered on the basis of his Ph.D Degree which she had acquired prior to her appointment and whereas Dr. Kapila Raina was left out as she had not the requisite qualification and

Whereas Miss Kapila Raina has been awarded the Ph D Degree by Jaipur National University Rajasthan vide No. JNUjpr/Ph.D/LS/2017/55 dated 19 12 2017.



n war says. There was been, so he conveyers a color Pr. D. Degree is poncerned, and Papil Rains name Mind a SWP No. 2141/2013 Wherein the process of contement of the PH D. Degree was complited by the court but the declaration of the final result had been stayed and

Whereas Horible Division Bench of High Court diabled LFA No 82/2016 fixed Kapita Raina Vs Dr. Rachna Sabharwal and others LPA NO. 85/2016 Dr. Rachna Sabharwal and others, LPA No 32/2017 titled Kapita Reina, Vs Dr. Radhna, Sabharwal and others ,LPA No 33/2017 Kapila Raina Vs Rachna Sabherwal and others, LPA No. 34/2017 Kapital Raina Vs Rachna Sabharwal and others and LPA No 35/2017 Kapila Raina Vs Rachna Sabharwal and others and disposed of by the following common judgement on 26.04 2017:

"6. In fact, the learned counsel appearing on behalf for the Health & Medical Education Department informs us that the case of DR. Rachna Sabharwal has already been recommended by the Principal GMC along with requisite papers as required under the rules for placement as being eligible for promotion to the post of Assistant Professor Bio-Chemistry, that

process may be completed.

7.We are told that there is yet another post of Assistant Professor Bio-Chemistry which is vacant, Ms. Kapila Raina be considered for that post immediately upon her attaining the Ph D Degree. Since the results were withheld because of the court order, we direct the Jaipur National University to declare the result of Ms. Kapila Raina within two weeks. In case she is conferred the Ph. D Degree, then she would become immediately eligible for promotion to the post of Assistant Professor Bio-Chemistry and consequent upon the conferment of the degree of Ph. D Degree, consequent upon the declaration of the result, here PHD Degree shall operate from today. It is made clear that in case Ms. Kapila Raina is considered and given the promotion to the post of Assistant Professor in the Bio-Chemistry Department she will be junior to Dr. Rachna Sabharwal."

Whereas, Principal GMC Jammu vide her communication dated 4.2.2018 has intimated that provisional Degree Certificate of Ph D has been issued by the University of Jaipur and now she may considered for promotion as I/C Assistant Professor in Department of Bio-Chemistry.

ייטים פון זה עופוע או מפרות המא הפלי מצבו מבל מבר מצבות ולייטים אין וייטים אין וייטים אין וייטים אין וייטים איני מארות בייטים איני בייטים איני מארות ווייטים איני בייטים ווייטים איני האינים איני ווייטים איני די אינים אינים

New therefore, in view of the Honbie Count direction in is hereby order that -

- 1 Government Order No 673-HME of 2017 dated 18 12 2017 to the extent of promotion of Dr Tehseen Hassan as I/C Assistant Professor is hereby withdrawn ab-initio;
- 2 Dr. Kapila Raina Lecturer Bio-Chemistry is promoted as I/C Assistant Professor Bio-chemistry in her own pay and grade with charge allowance as admissible under rules with mmediate effect/.

By order of the Government of Jammu & Kashmir.

(Nissar Ahmad Wani)

Under Secretary to Government

Dated: 10 -04-2018

No. ME/Gaz/309/2011

Copy to the :-

Principal, Govt. Medical College, Jammu.

- 2. OSD to Hon'ble Minister for Health & Medical Education Department
- 3. Spl. Assistant . Hon'ble MOS Health & Medical Education.
- 4 Private Secretary to Principal Secretary to Govt. Health & Med. Edu. Deptt.
- 5. Concerned Doctor
- 6. I/c web site.

Alarming Risa of Haemoglobinopathies In Jammu Division.

Kupila Raino V., flageshwarl Sharena, Nevlinza Vermas

*Lexaurer, Gov. Medical Culings, Januari, Philiplogist, Switchk Diagnostic Laboratory, Januari, *Sentor Committee, Portle Hospitut New Delbi

*Curresponding Author: Brisil: kepilaminal 9@gradLogra

Abstruct

Introduction: Hasmoglobinopathics are major public health problems in India, Hasmoglobinopathies are inherited single gene disorders having abnormal globin protein. Genus in a globin and 6-globin genus chaters (on chromosomes 16 and 11) control globin chain production. Due to spontaneous mutation in globin genes harmoglobin variants are produced.

Disorders range from that assemin to many humoglotin variants with no, mild or severe consequences for the carrier. Muterials and Mothers: The present informacy-based retrospective study was conducted for a period of two years from Junuary 1, 2013 to December 31, 2014 in the Government Medical College, Jamuna. Data of 543 patients who had come as the laboratory for their hemoglobin electrophoresis was compiled and studied. Complete blood count was carried out on HMX (Beckman Coulier) and hemoglobin electrophoresis for diagnozing any abnormal hemoglobin disorder was done on D10 (BIO RAD). Results: Out of 543 patients, 368 (67 77%) were normal and 175 (32 23%) had abnormal bemoglobin patient. Spectrum of

traemogrobinopathics provalent in descending order were 13.99% p-timbessernic trait, 6.26% q-thalissemic trait, 4.6% elevated fetal haemoglobin, 2.57% fetae elevation of hemoglobin A2 because of param corpuscular volume, 1,29% β-thutassumic major, 0.03% hitemoglobin S homorygous, 0.74% borderline homoglobin A2, 0.53% patients were with other type of icmoglobleopathics.

Conclusion: High prevalence of hacmoglobinopublies in Jammu division makes the disease a major public health problem in our population. Population screening, genetic counseling and prenaual diagnosis can prevent these genetic disorders.

Keywords: Hacmoglobinopathics, Thulussemin, Anaemia, beta thalassemia, Iammu.

Received: 19th May, 2017

Accepted: 19th July, 2017

Introduction

Among all the inherited disorders of blood, haemoglobinopulnies are the major public health problem in the world. Inherited heemoglobin disorders were originally characteristic of tropics and sub-tropics but are now common worldwide due to migration. World Health Organisation estimates that globally at adults ince carriers. 50% of east approximately 2.9% neemeglobinopathies: thalassemia.(1) There is a tramendous amount of burden of haemoglobinopathies in India. It has been estimated that there would be about 45 million carriers and about each Infants. born 15.000 haemoglobinopathies in India. Major haemoglobin variant, i.e. HbA ranges from 15 to 45% of the total haemoglobin in the red cells. More than 100 alphachain variants have been described in the world.(2) The confulative gene frequency of haemoglobinopathies in India is 4.2%. The cumulative gene frequency of the three most predominant ninormal haemoglobins, i.e. sickle cell, haemoglobin D and haemoglobin E has been found to be 5.35% in India. Every year 10,000 children with thalassemia major are born in India, which constitute 10% of the total numbers in the world. (4)

characterized Haemoglobinopathies arre production of structurally defective haemoglobia because of abnormal globin moiesy formation. Hemoglobinopulty is the condition in which there is mutation in hacmoglobin which leads to alteration of its biological behaviour. It leads to moderate to severe hacmolytic anaemia among vulnerable segments of society like infants, children and adults. It leads to high degree of morbidity.

There are two forms of beta thalassemia.

- Theiassemia minor
- Thalassemia major (also called Cooley's anemia). The most familiar type of thalassemin is bota thalassemia:

particularly Thalassemia syndremet thulassemia major and certain alpha thalassemia are serious and a major cause of morbidity.(1) in India. 10,000 thatassemic children are born every year. In Gujarat, about 6000 thatassemic children are born every year.(5)

Individuals with thulassemia major usually present within the first two years of life with severe anemia, requiring regular red blood cell (RBC) transfusions. Findings in untreased or poorly transfused individuals with thalassemia major, as seen in some developing countries, are growth retardation, pallor, jaundice, poor leg. hepatosplenomegaly, musculature, extramedullary development masses from of. hematopolesis, and skeletal changes that result from expansion of the bone marrow. Regular transfusion therapy leads to from overload-related complications including endocrine complication (growth retardation,





ORIGINALARTICLE

Prevalence of Vitamin D Deficiency in Jammu Region

Kapila Raina, H.N Verma*, A. S Bhatla

Vitamin I) deficiency is a worldwide health problem. This cross sectional one year study was carried Abutract among healthy subjects of both sexes without known, thyroid, renal or hepatic disease or malignancy. The 25(OH)D concentrations were measured by competitive radiomenunoussay. The subjects were classified as vitumin D-deficient, or sufficient on the basis of 25(OH)D concentrations of <30 ng/mL, 30-100 ng/ ml. respectively, according to recent consensus. Total 702 subjects participated in the study female predominated the study. Vitamin D deficiency was prevalent among 76,39% of the total population. Thus the carrent study sugest high prevalence of vitamin D deficiency exist in Jammo region among healthy population.

Key Words

Vitamin D deficiency, Diabetes, Chronic diseases, 25(OH)D

Introduction

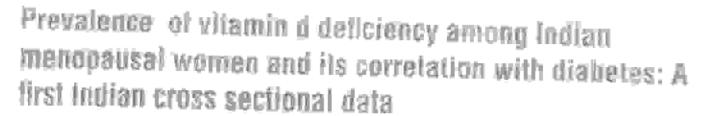
Vitamin D is an endogenous, naturally occurring, photochemically-produced steroidal molecule with essential functions in systemic homeostasis and physiology, including modulation of calcium metabolism, cell proliferation, cardiovasculas dynamics, immune/ inflatomatory balance, neurologic function, and genetic expression. Vitamin D deficiency is a worldwide health problem that affects not only musculoskeletal health but can affect many chronic diseases such as osteoporosis, cardiovascular disease, hypertension, cancer, depression, epilepsy, type 1 diabetes, insulin resistance, autoimmune disease, migraine, polycystic overy syndrome, and musculoskeletal pain (1)

There is widespread prevalence of varying degrees (50-90%) of Vit D deficiency with low dietary calcium intake in Indian population according to various studies published earlier (2). Most of the researchers report a uniformly high prevalence of vitamin D deficiency, in various groups of the population like school children, adolescent, rural girls, pregnant women and postmenopausal women (3-6).

Epidemiologic studies have shown association of vitamin D deficiency and increased risk of chronic diseases, such as cancer, cardiovascular disease, type 2 disbetes, and auroimmune diseases, such as multiple sclerosis and type 1 diabetes mellitus (7). The studies do

From the Deptt, of Blochemistry, Govt. Medical College, Januara and Deptt, of Life Science, Jaipur National University India Correspondence to: Dr Kapila Ruins, Village Pounichal: Post office Akaipur, Jamour J&K-India





Vishal R. Tandon, Sudhaa Sharma[†], Shagun Mahajan[‡], Kaplia Raina[‡], Annil Mahajan[‡], Vijay Khajuria. Zahid Gillani

Depluriments of Pharmacology and Thoropeutics, 10bstepics and Gynaecology, Biochemistry, Internat Madicine, Government Madical College, Jammu, Totalement of Arienshar Motory Sci Chander College, Jammu, Totalement of Arienshar Motory Sci Chander College of Madical Science, Stars, Jammu, Jammu, and Kashrik, India

ADSTRACT

Aim and Objective: To evaluate prevalence of Vitamin D deficiency and establish any correlation between diabetes and vitamin D deficiency among postmenopausal women. Materials and Methods: The 25-hydroxy vitamin D [25 (OH) D] concentrations were measured by competitive in-vitro quantitative immunoassay. The subjects were classified as vitamin D-deficient, insufficient or sufficient on the basis of 25 (OH) D concentrations of < 20 ng/ml., 20-30 ng/ml. on < 30 ng/ml. respectively. The appearantly normal postmenopausal women (Plaw) were subjected to fasting blood sugar levels to analyse any correlation between vitamin D deficiency and diabetes. Results: Vitamin D deficiency was observed in 53 35% of the population, 19.48% had insufficiency and 26.83% had adequate Vitamin D levels. In 12.14% of the study population fasting blood glucose was > 110 mg/dt and rest of the subjects were between the normal range which is 70-110mg/dt. Correlation between raised blood sugar levels and Vitamin D deficiency among PMW was non-significant (P = 0.324). Conclusion: High prevalence of vitamin D deficiency exists among apparently healthy Indian PMW. However, the current study failed to show any statistical correlation between vitamin D deficiency and existence of diabetes, which may be due to small sample size.

Key Words: Chronic diseases, deficiency, diabetes, portmanopaucal women, vitamin D

INTRODUCTION

Vitamin D deficiency is a worldwide epidemic health problem, with a range of prevalence in between 70%—100% in the general population, "Whereas, among Indian population with low dietary calcium imake, a prevalence of varying degrees (50–90%) has been reported. Most of the researchers have uniformly reported a high prevalence of vitamin D deficiency, in various groups of the population like healthy school children, adolescents, tural girls, pregnant women and health care professionals. [16]

Studies do exist reporting high prevalence of Vitamin D deficiency among postmenopausal women (PMW) from western world and India but data still remain scarty^{(j) 19}

Addinie for Commissional Dr. Varial R. Taudoj, Department of Pherriscology, Governor on Medical College, Jammu 180 VIII, Jammu and Kastonit, India Is-mult, dr. vierallundovigjerhousom Secondly, Viramin D deficiency and diabetes mellitus are widely prevalent diseases during menopause. Furthermore few epidemiological studies have shown an association of vitamin D deficiency and increased risk of chronic diseases like cancer, cardiovascular disease, type 1 and 2 diabetes (T1D, T2D) suggesting that that vitamin D deficiency not only affects musculuskeletal health but also affects a wide range of acute and chronic diseases. [10]

To best of our knowledge, no study exists from India evaluating correlation between diabetes and vitamin D deficiency among PMW. Moreover, such a data will be of immense use for the Indian health care providers.





First Indian Study Evaluating Role of Biochemical Investigations and Diagnostic Tools in Detection of Adverse Drug Reactions

MEMBER TRADER YOUN KINGLIDIA MARILA HALLA VIVEK MAHAJAN WATAN PARIMA ZAHAR ELLEKAR

ABSTRACT

Alm of Study: To evaluate the role of blochemical investigations (BI) and diagnostic tools (DT) in ADR detection

Materials and Methods: An observational prospective crosssectional study was close using suspected ADR data collection form:

Results: A total of 2381 ADR related events were recorded in two years. Total number/percentage of biochemical abnormalities (EA) related ADR detaction rate was 14.57% and of DT was 1.091% incontrast to 84.33% recorded with clinical presentation. Maximum cases were inward patients (87,13%), 97.02% were recorded by active surveillance. ADR detection rate at one point 8 detection on follow up was 56.31% Vs 46.38%, ADR detection

rate of ECG, endoscopy, X-ray were 0.57%, 0.22%, 0.22% and of CT scan, MRI, DEXA scan, USG and bloosy was 0.04% each, Maximum ADRs were severe/serious, tatent and Typo-//, in nature, Anemia (4.6%), followed by liver dystunction (2.8%), renal dystunction, electrolyte imbelance, hyperglycemia (1.1%), sach), abnormal coagulation profile (1%), decrease platelel count (0.8%), hypoglycemia (0.7%) were the most common SAs. Anti retroviral drugs (ART), throfiban and methotrexate accounted for anemia, ART and anti-tubercular drugs for liver & ranal dysfunction, insulin for hypoglycemia, throfiban, pacificasel, capecipablice and ifostamide for thrombocytopenia, hematuria by enoxeparin & dyslipidemia with ART were common ADRs.

Conclusion: B) and D7 can play very important rots in ADR detection.

Kuywords

INTRODUCTION

Adverse drug reactions (ADRs) account for considerable mortality, morbidity and in addition have immense economic impact on patients, health cam providers and society at large [1]. Most of the ADRs are preventable [2]. Under reporting of ADRs is a big challenge in phermacovigilance (PV) [3,4]. This is because primarily most of the countries follow spontaneous/voluntary system of ADR reporting including thelis.

There are patient and doctor related reasons for under-reporting. ADRs go unnoticed due to failure of medical teams to recognize ADR or comitate precisely with biochemical, pathological or radiological abnormalities [5].

However, intensive monitoring approach in PV empilies the ADR detection [6]. Various approaches have been recommended to imposity the ADR reporting [7-13].

The role of biochemical investigation and various basic diagnostic tools like X-Ray, ECG, endoscopy, OT scan, MRI, DEXA, FINAC and ultra-schography can be of immense value in picking up of various ADRs II active surveillance is carried out. However, their role in PV remains undermined. Moreover, there are various studies in the literature, where primarily dirilgal presentations have been used to describe trends of ADRs both from India [14-18] and Western world [15-72].

To best of our knowledge there exists no single study where the mile of these valuable Bi and DT in PV has been investigated. Hence, the first study of its kind was undertaken to underscore their role in ADP detection.

MATERIALS AND METHODS

An observational, cross-sectional prospective two year study was done in Adverse Drug Reaction Monitoring (ADRM) Centre, working under (PvPI) in a tertiary care teaching hospital from India w.o.f. 1" November 2010 to \$1" October 2012 using suspected ADR

data collection form after IEC permission vide number Pharms/ IEC/2014/3607/Research/6G/2012/2741.

The sample collection was based on both active surveillance and spontaneous ADR reporting.

information about patient, suspected ADR, suspected medication and the reporter were recorded. Date of reaction, date of recovery and presentation of problem were also recorded. Suspected medication, hame of drug, brend of manufacturer, generic name of manufacturer (if known), expiry date, dose used, route, frequency and therapy dates as well as reason for prescribing suspected drug were recorded. This information about de-challenge and rechallenge, corloomitant medical treatment, the relevant laboratory biochamical investigation and various basic diagnostic tools like X-Ray, echocardiography (ECG), and oscopy, computed tomography. (CT) Scan, magnetic resonance (maging (MFII), dual-energy X-ray abnorotiomatry (DEXA), and fine needle aspiration cytology (FNAC) were reconted separately. Other relevant history including pre-existing medical conditions like allergy, pregnancy, emoking and alcohol intake and any organ dystunction was recorded. The seriousness of reaction, the outcome of reaction and onset time was recorded for every suspected ADR. The suspected ADRs were classified in term of causality using WHO-UMG scale as certain. probable, possible, unlikely, unclassified & unassessable and [23] using Nararijo scale as highly probable (score 9), probable (score 5-8), possible (score 1-4) and doubtful (score 0) [24].

Detailed subgroup analysis of ADRs detected by biochemical abnormality (BA) and diagnostic tools (DT) was carried.

STATISTICAL ANALYSIS

Analysis was carried out with the help of computer software SPSS Version 15 for windows. The data was expressed in number (n) and percentage (%). Chi-square test was applied for the parameters to prove their statistical agolificance, p-vulue < 0.05 was considered statistically agolificant.

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ORIGINAL ARTICLE

Pregnancy Outcome In Women with the Polycystic Ovarian Syndrome

Amita Gupta, Kapila Raina, Tania Kalldear, Yudhistiter Veer

Abstract

The aim of the study is to compare the pregnancy outcome, especially the prevalence of gestational diabetes mellitus in a group of patients with PCOS, with a group of healthy weight matched women. Retrospectively we evaluated the pregnancies of 56 women with PCOS some of who had been treated for infertility. These were compared with a group of 56 age and weight matched controls. Incidence of Pregnancy induced hypertension in cases of PCOS was 14.2 % (8/56), gestational diabetes was 14.2 % (8/56) IHCP 10.7% (6/56) as compared of age and weight matched controls is with the incidence of PIH was 7.10% (4/56), GDM 3.5% (2/56) IHCP 7% (4/56). The differences in the incidence of GDM & PIH in two groups was not significant. The outcome of pregnancy in controls & the test groups were not significant, though numerically found to be beigher. Thereby, suggesting PCOS must be screened for comorbid conditions like PIH, GDM & HICP.

KeyWords

Gestational Diabetes Mellitus, Polycystic Ovarian Syndrome, Pregnancy Induced Hypertension

Latroduction

PCOS is one of the most common endocrine disorders in women of reproductive age. It effects 4-12 % of women in reproductive age group (1). It is the leading cause of anovulatory infertility and hirsutism. PCOS is also associated with disorders of reproduction, metabolism and general health including increased risk of miscarriage, insulin resistance, hyperlipidaemia, cardiovascular disease and endometrial cancer, women with PCOS have high rate of type 2 diabetes mellitus (2). Overall data in our set is scanty comparing outcome of pregnancy in PCOS and age & weight matched controls. Hence, the purpose of this study was to compare outcome of pregnancy in PCOS and age & weight matched controls and to predict the complications during antenatal period for a better perinatal outcome.

Materials and Methods

We studied the outcome of pregnancy in the patients who were diagnosed and were having PCOS. The women met the following criteria for the diagnosis of PCOS.

- i) Oligomenorrhoea (menstrual cycle longer than 35 days)
- ii) Anovulntory infertility on followlar study
- iii) Typical morphology of polycystic ovaries on ultrasound scan.
- iv) Increase level of at least one androgen (reference values for normal concentrations). Testoterose 0.5 -2.63 nmoll/l androstenediose 1.57 - 5.4 nmol/l, dehydroepiandrostene 0.8 - 10.5 nmol/l & DHEA-S (2.4-14.5micromol/L) (3).

We studied total of 56 patients who presented during the period Jan 2005 to Dec 2006. Some patients had conceived spontaneously (n=|16|-29%) and 71% (n=40) some had some kind of treatment in the form of clossiphene, metformin & Gonadotropins. All these women with their controls were followed during pregnancy in Suvidha Mother and Child Nursing Home. All patients were interviewed personally to obtain the relevant information about their medical and family history. The diagnosis of Gestational diabetes mellitus was based on

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PUBLICATION RELATED INFORMATION AS DESIRED BY NMC

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Designation: Lecturer

	Publication as per Vancouver Referencing style	Type of publication Original article, review article, case report, case series or short article:	Indexed in Pubmed/ Medline	Indexed in Scopus
2016	Gazala A. Tahir, Tahir Afzal, Nita Garg Association of Vit D3 and Serum Calcium levels in Subclinical Hypothyroidism: UAR Vol 6/issue:7/July 2016. 309-310.	Original	No	Yes
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