University of Baghdad				
College Name	the Iraqi board for	medical specialti	es	
Department	Plastic and Reconstructive Surgery			
Full name as				
written in	Auhood Ka	Auhood Kareem Merza		
passport				
e-mail				
Career	ssistant Lecturer : Lecturer	Assistant Profes	sor :: Professor	
	:::: Master :::: PhD	: Diploma	Board	
Thesis Title	Impact of war on mental health of	of women		
Year	2022	CD: 1		
Abstract	Background: Women are the silent them differently. For every man who that will takes care of him and faces mental health situation is affected by factors and is associated with rapid discrimination and stressful conditions prevalence of anxiety, depression are among Iraqi women post war. Methodology: we conducted a cross among 1000 women from January to was addressed through assessing an symptomatic basis using standard quantity. Statistical manual of Mental disorder Results: Of 1,000 women, 911 (91.19) trauma since 2003, either personally symptoms were reported in 397 (39, symptoms were reported by 342 (34). Suicidal thoughts / suicide attemption women. About 30.3% of the studied 38.7% of them had an early married a clear impact of the general stree relationships of the participants respondents experienced difficultively relationship with the environment. That negative expectations regarding result, more than half of the response emigrate outside the country. Conception of the participants are increasing Community support plays an important among Iraqi women in suicidal attempts are increasing Community support plays an important and stress on a woman's metal.	o suffers, there is a red difficulties with him y multiple psycholog social changes, gend ons. Objectives: is to not suicidal thoughts a sectional study in Base o September 2020. It is to not suicidal thoughts a sectional study in Base o September 2020. It is is to not suicidal thoughts a sectional study in Base o September 2020. It is is in the Dier (DSM-5) scale. When the section is in the section of the	related woman n. Women"s rical and social er explore the attempts aghdad city fental condition agnostic and war-related ber. Anxiety epressive by 358 (35.8%) g children while holds. There was ar on the social othirds of the life and their estudied women Iraq, and as a heir intention to l depression are uicide thoughts/ previous era.	

University of Baghdad				
College Name	Medicine			
Department	Medical M	icrobiology		
Full name as				
written in	Rana Ak	ram Hadi		
passport				
e-mail				
Career	issistant Lecturer is Lecturer	: Assistant Professor : Professor		
	Master :: PhD	:: Diploma :: Board		
	Frequency of Hepatitis C Vi	ral Infection In relation with		
Thesis Title	Interleukin 12 and 18 among	thalassemia Major patients in		
	Baghdad			
Year	2022	CD: 1419		
	Hepatitis C virus (HCV) is responsible for nearly 80 - 90% of post-			
	transfusion hepatitis in beta-thalassemia patients. This study aimed to			
	evaluate the rate of HCV infection in a set of beta-thalassemia patients in Baghdad and to assess the serum levels of IL-12, IL-18, and serum			
	liver enzymes levels among β-thalassemic patients infected with HCV.			
	Methodology:			
47 4	A total of patient samples 150 sample included in this study, 70 male; 70			
Abstract	female in Baghdad, 140 beta-thalassemia patients, and 10 healthy			
	control group (9 male ;1 female) who were attended Al Karama			
	teaching hospital and Ibn AL-baladi hospital maternity &children's			
	hospital; aged 4-46 years, from January to September, 2020. Blood			
	samples collected from the study groups and sera were separated and			
	then tested for anti-HCV Ab by ELISA and confirmed by western blot			
	technique, IL-12 concentration, IL-1	to concentration, liver enzymes		

AST, ALT, and ALP.

Results:

% 17.9) (Twenty five out of 140 of the major thalassemic patients were positive for HCV antibodies . More than half of HCV- positive thalassemic patients were in age group 21-30 yrs old (56%, n=14/25) and females are more frequently infected with HCV (56%, 14/25) than males (44%, 11/25). The median of serum concentrations for IL-12 in HCV- positive thalassemic patients were (0.41) pg/ml was lower than the corresponding median of control group while the median concentration of IL-18 in sera of HCV-

II

positive thalassemia major patients (17.07) pg/ml, was significantly higher than the corresponding median in control group(p<0.001). The median concentration of AST in sera of HCV- positive thalassemic patients (71.0 U/L) was significantly higher than the equivalent median in HCV- negative thalassemic group and control group respectively while the median ALT for HCV- positive thalassemic, HCV- negative thalassemic , and control groups were 32.0 U/L, 24.0 U/L, and 30.0 U/L, respectively. The medians of ALP concentrations for the same groups were 84 U/L, 121 U/L, and 85 U/L , respectively. The correlation coefficient for anti-HCV Abs concentrations and their corresponding IL-12 concentrations was 0.084; while for the anti HCV antibodies with IL-18 was 0.0979

Conclusion:

The prevalence of HCV infections was high among $\beta\text{-thalassemia}$ major patients in Baghdad, especially among young adult patients. ELISA technique is a perfect choice of detection anti-HCV Abs with very high sensitivity. The infected patients have decreased IL-12 concentration, elevated IL-18 concentration, elevated serum relatively normal Serum ALT .

University of Baghdad			
College Name	Medicine		
Department	Physiology		
Full name as			
written in	Mohammed Kadhim Awajel		
passport			
e-mail			
Career	ssistant Lecturer : Lecturer : Assistant Professor : Professor		
	Master : PhD : Diploma : Board		
Thesis Title	Assessment of carpal tunnel syndrome severity by ultrasound and electrodiagnostic study		
Year	2022 CD: 1418		
Abstract	Carpal tunnel syndrome is a common peripheral entrapment neuropathy. Nerve conduction study is the gold standard for diagnosis. However, nerve conduction study is not always abnormal in carpal tunnel syndrome. Besides its relatively high cost, which requires searching for alternative modalities, such as ultrasonic examination, it is helpful as a diagnostic method for carpal tunnel syndrome. The main advantages of ultrasonography are simple, quick, non-invasive, and economical. The study aims to investigate the role of ultrasound and electrodiagnostic study in diagnosisng of carpal tunnel syndrome and determining disease severity. This is a case-control study that was conducted in Al-Shaheed Ghazi Al-Hariri teaching hospital, Iraq, Baghdad in period from January/2021 to July/2021., which included 50 CTS patients (hands) and 50 healthy subjects (50 hands). Nerve conduction studies were performed for all included hands, and ultrasound was used to measure the cross-sectional area of the median nerve. The association of the cross-sectional area with the disease severity was calculated,		

while the receiver operating characteristic curve was used to find out the

diagnostic value of ultrasound in discrimination between patients and controls

and in discrimination between different severities of the disease.

The results were classified into mild (sensory fibers affected), moderate (sensory and motor fibers affected), and severe (severe motor fiber affected)

according to the local severity scale of neurophysiological reference values, out

of 65 affected hands, 40~(61.15%) hands mild disease, 19 hands (29.23%)

demonstrated a moderate disease and 6 hands (9.23%) had severe disease. The

mean cross-sectional area of the median nerve in mild, moderate, and severe

cases was 11.21 ± 1.22 mm2, $15.09\pm0.1.14$ mm2, and $17.88\pm0.2.1$ mm2, respectively, with highly significant differences between the three categories.

Furthermore, all three categories had a higher cross-sectional area than control

 $(8.73\pm0.45\ mm2)$ with highly significant differences. In patients, the crossIII

sectional area demonstrated a significant positive correlation with each median

nerve. sensory distal latency (r=0.718, p<0.001), median nerve motor distal

latency (r=0.818, p<0.001) and age (r=0.316, p=0.01) and a negative significant correlation with median nerve conduction velocity (r=-0.837.

p<0.001). The sensitivity and specificity of ultrasound in the context of discrimination between patients and controls at a cut-off value of cross-sectional

area= 10 mm2 were 92% and 100%, respectively.

The cross-sectional area of the median nerve is enlarged in patients with carpal

tunnel syndrome, and the degree of enlargement significantly correlates with the

nerve conduction study parameters of disease severity. However, ultrasound of

carpal tunnel syndrome of the median nerve has an excellent diagnostic value in

the discrimination between patients and controls, with a sensitivity and specificity of 92% and 99%, respectively. The optimum cut-off value is 10

mm2. Also, ultrasound can effectively discriminate between mild,

moderate, and severe cases of carpal tunnel syndrome with sensitivity ranges between 83%-100% and specificity 94%-100%. The optimal cut off values of the crosssectional area ranges between 13.2-16.2 mm2

	University of Baghdad		
College Name	Medicine		
Department	Biochemistry		
Full name as written in passport e-mail	Basil Esmail Khalaf		
Career	ssistant Lecturer : Assistant Professor Professor		
	: Master PhD : Diploma : Board		
Thesis Title	Vitamin D Status among a sample of Iraqi Adults: Geographic and Demographic effects		
Year	2022 CD: 1416		
Abstract	Vitamin D status is currently assessed by measuring circulating 25(OH)D, which exists either free in the circulation or bound to albumin or the vitamin D binding protein, serum 25OHVD is the main circulating vitamin D metabolite that is considered to best indicate overall vitamin D status. Many factors affect the level of vitamin D like lattitude, seasonal variation, skin colour, pollution, age, gender, food type, physical activity, BMI, WC and others, also deficiencies of vitamin D are related with many disease states like Hypertension, Diabetes Mellitus, Multiple Sclerosis, obesity, auto immune diseses and others. Objectives: To determine the normal range of serum levels of total 25 hydroxyvitamin D (25OHVD) in Iraqi adult healthy subjects and to relate its level with demographic profile and socioeconomic status. In addition, to invesigate the relationship between total 25OHVD and its free fraction, albumin, calcium, inorganic phosphate and alkaline phosphatase. Subjects, Materials and Methods: This cross sectional control study was carried out at Department of Biochemistry, College of Medicine, University of Baghdad and the samples were collected from three governorates (Baghdad, Al-Anbar and Al-Basrah), Iraq, during the period from August 2019 to January 2020. It included 819 adult subjects apparently healthy, of them 87 subjects were taken vitamin D supplement and 83 were pregnant women. Investigations included serum measurement of total 25OHVD in all 819 included individuals and after excluding supplemented and preganant ones (n=649). Age, gender, marital state, sunshine exposure (%), hours of exposure/day, percentage of body surface area exposed, body mass index XI		

(BMI) subgroups, waist circumference (WC) subgroups, educational degree, season variation through monthly sample collection, sport type (A: one type of sport, B: two type, C: three or more types, D: no exercise), sport time (A<30 minute, B=30m and C>30m), diet type (A: meat, egg and dairy products, B: meat and egg and C: others), blood pressure, geographic factor (governorate) were measured and / or calculated and the levels of 25OHVD were studied according to each of these factors. In addition, Free 25(OH)D, albumin, total calcium, inorganic phosphate and alkaline phosphatase were measured in a random sample (n=88) of studied individuals (n=649). Total and free 25OHVD were measured by using the Enzyme-Linked Immunosorbent Assay

technique, while the other parameters by spectrophotometer. Results:

The mean \pm SD level of 25OHVD in total (n=819) studied Iraqi subjects was (17.58 \pm 8.29 ng/ml). The mean value of 25OHVD after excluded subjects (n=649; 16.29 \pm 8.22 ng/ml), with women were significantly defficient than men (15.76 \pm 6.89 ng/ml, 17.14 \pm 6.85 ng/ml; p < 0.01 respectively). However, there was no significant differences in mean values of serum 25OHVD levels among studied governorates, subgroups of BMI, WC, marital status, smokers and nonsmoker and subgroups of age. The mean value of serum 25OHVD levels of individuals who elevated blood pressure was significantly deficient that of normotensive

ones (p < 0.001), also in January (p <0.001), October (p=0.01) and November (p<0.001) were significantly lower than that of August as well as that of January and November were significantly lower than that of September (p =0.02). The mean value of T25OHVD levels in diet type of

group B (p=0.001) and group C (p<0.001) were significantly less than group A, sport type of group A (P<0.001), C (P<0.001) and D (P<0.001) XII

were significantly lower than group B, sport duration\day of group A (P=0.001) and C (P<0.001) were significantly lower than group B. There were significant positive corelation between total 25OHVD and sun exposed surface area (r= 0.14, P= 0.001), sun exposure duration (r= 0.12, P= 0.001) and with sun exposure area % (r= 0.14, P= 0.001). There was no significant differences in mean (\pm SD) values of serum T25OHVD levels and sun exposure area % between pregnant women and nonpregnant ones. The mean of serum 25OHVD levels of non-supplemented subjects was significantly lower than that of supplemented ones (p <0.0001), although the mean of sunshine exposure area % of VD

supplemented subjects were significantly lower than that of nonsupplemented ones (p< 0.0008). The mean (\pm SD) values of serum total and free 25OHVD of subjects (n=88) were (18.12 \pm 8.44 ng/ml) and

 $(7.25\pm5.50 \text{ pg/ml}, \text{respectively})$. There was weak positive corelation between T25OHVD and F25OHVD but did not reach significant level r= 0.19, P = 0.08). Conclusion The mean (±SD) of seum total 25OHVD in Iraqi healthy subjects was 16.29 (±8.22) ng/ml reflecting the actual body status of this vitamin with lower concentration in women (15.76 \pm 6.89 ng\ml) than in men $(17.14 \pm 6.85 \text{ ng/ml})$. Type and time of sport and diet type were the major vitamin D dependent factors. Supplementaion of vitamin D was superior to sun exposure in providing the daily requiremnt of vitamin D in Iraq. Measurement of free 250HVD which is costy has no advantage over that of total one in healthy subjects.

	University of Bagh	dad		
College Name	Medicine			
Department	Microbiology / Virology			
Full name as				
written in	Aya Raed Abdu	lwahab Alheany		
passport		yy		
e-mail				
Career	: ssistant Lecturer : Lecturer	Assistant Professor Professor		
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Thesis Title				
Year	2022	CD: 1415		
Abstract	period between January 2020 and M sample was collected and then plasm 20°C/-80°C till used. Studied group six months and were not on antivira	errate inverses with the age but sentage of deaths associated to B virus (HBV) serology and es with the viral load can expect sedications. HBV genotyping is vital uring HBV persistent infection, the set to a higher rate of mutation. The basal core promoter (BCP) and and abolish Hepatitis B e antigen and abolish Hepatitis B e antigen are to an active viral replicative event thers. As a result, the virus may be chancing the persistence of HBV me the correlation of hepatitis B enotypes in different stages of and to determine the impact of depatients on various baseline tests. patients (48 males and 42 females) erology and Hepatology Teaching was carried out at the department set, University of Baghdad during the March 2021. Five to ten ml of blood may was obtained and stored at had positive HBsAg for more than all treatments. Other routine articipant such as liver function test, HBV viral load and genotypes ally isolates of core gene that were		

HBeAg serostatus and HBV-DNA viral load (p value =0.042), as more than half of the cases (55.6%) had high levels of HBV serum DNA (≥2000 IU/ml) and positive HBeAg compared to 24.7% of cases with negative HBeAg. No statistically significant differences were observed regarding HBeAg status with demographic and other baseline characteristics. In the present study, genotype D was the most predominant in 64 out of 90 (71.1%) of samples while mixed D and A were (2.2%). There was highly significant association between HBV genotypes and HBV DNA load (p=0.001) but not with other studied characteristics The percentage of HBeAg negativity in genotype D patients was higher in comparison to positive HBeAg. HBV genotype D is associated with elevated ALT and AST (20.3% and 23.4%) respectively.

Out of 66 HBsAg positive cases with detected HBV-DNA viral load there were only 35 samples positive for PCR amplification of HBV core gene with strong positive bands that were sent for sequencing. All nucleotide sequences reported in this study have been discovered for core gene partial sequencing specifically for D genotype were further aligned and only ten sequences showed 97-100% similarity and 4 newly registered sequences that were deposited in the National Center for Biotechnology Information GenBank database with definition numbers of (Ay149881,Ay149882, Ay149883, Ay149884) and accession numbers of (LC610896, LC610897, LC610898, LC610899) respectively. In this study, one isolate from a newly registered sequences (Ay149883,sr=LC610898) of precore mutation was identified out of 35 isolates (2.86%). Nucleotide mutations in genotype D, including precore stop codon variant for HBeAg were G1839A, A1901G, C1980A, T2015A and T2094A.

Phylogenetic tree of HBV precore/core -gene partial sequence constructed using 4 isolates from this study along with 19 Genbank reference sequences.

Ш

In conclusion, the findings of the current study suggest that most of studied CHB patients are HBeAg negative with the predominance of D genotype suggesting long term monitoring for disease progression are needed. Five unique mutations in the precoe region were identified in one sample with HBeAg negative, co-infected with HDV ,associated with high viral load and elevated liver enzymes, indicating the existence of precore stop codon variant aided in the absence of HBeAg and the disease was in reactive phase.

	Una	iversity	y of Bagh	dad	
College Name	Medicine				
Department		Medical Microbiology			
Full name as					
written in		Khade	eja Abdul	salam Abdulhac	di
passport			·		
e-mail					
Career	issistant Lectu	rer 🗀	Lecturer	: Assistant Prof	essor Professor
	Master	****	PhD	: Diploma	::: Board
Thesis Title Year	Resistant Gene	es (CDF	_	1	with Candidiasis
Abstract	immunocompro antifungal arsen broad-spectrum long-term immu infection risk far mortality. Aims of the stud by ELISA test in hematology once and determinati , Voriconazole, of Flucytosine by V genes that respo Materials and in fifty immunoce from the Hema eight out of nin	Resistant Genes (CDR1 and MDR1) in Patients with Candidiasis 2022 CD: 1417 Background: Invasive candidiasis, has been increasing in incidence in immunocompromised patients in recent years. Despite our increased antifungal arsenal, fungal strains that are less sensitive and resistant to broad-spectrum antifungals emerge as a result of their overuse and long-term immunosuppressive therapy. These opportunistic fungal infection risk factors result in a significant amount of morbidity and mortality. Aims of the study: Determination of the level of serum beta D. glucan by ELISA test in the samples of leukemic patients who recumbent in hematology oncology department, Identification of Candida species and determination of the Candida species susceptibility to Fluconazole, Voriconazole, Caspofungin, Micafungin, Amphotericine B, Flucytosine by VITEK 2 system and Detection of CDR1 and MDR1 genes that responsible for some of the antifungal resistance. Materials and methods: This case control study included one hundred fifty immunocompromised patients divided into two groups, sixty from the Hematology Oncology Center (HOC patients), and thirty eight out of ninety from various floors of Baghdad Teaching Hospital			
		ctions duration	n of work wa	the majority of majority of majority of majority of majority of majority of the majority of majority o	ber 2019 to

disease unit in the College of Medicine University of Baghdad. Ninety samples were sent to the medical Mycology Unit at Baghdad teaching hospital. The samples taken then transported to the laboratory to be processed and cultured before being examined. The serum samples were frozen for immunological analyses, while the remainder were examined using traditional methods.

Results: Out of sixty samples (sera) were collected from Hematology Oncology Center patients with respiratory symptoms showed that 49 (81.7%) of D-glucan cases were positive.

In mycological wards patients the VITEK Identification showed that C. albicans represents 10(27.78%), C. ciferrii 6(16.67%), C. dubliniensis 5(13.89%), C. parapsilosis 4(11.11%), C. tropicalis 3(8.33%), C. lipolytica, C. famata and C. lusitaniae 2(5.56%), 1 isolate for C. rugosa and C. krusei. While the antifungal susceptibility test was C. albicans, C. ciferrii, C. parapsilosis, C. tropicalis and C. famata isolates were sensitive to Fluconazole, Voriconazole, Caspofungin, Micafungin, Amphotericin B and Flucytosine. C. dublinensis was resistant to flucytosine, C. lusitaniae was resistant to Amphotericin B and C. krusei isolate was resistant to Caspofungin, Amphotericine B, Flucytosine. C. lipolytica and C. rugosa isolates were intermediate to Flucytosine.

The molecular detection was done for 20 samples out of 38 which were positive culture for Candida spp. only reported that MDR1 gene was detected in all Candida albicans 5 (100%), C. ciferrii 3 (100%), and C. dublinensis 4 (100%), C. krusei 1 (100%), C. lusitaniae 1 (100%), otherwise it was not detected in C. famata and C. lipolytica, C. parapsilosis, C. rugosa and C. tropicalis. While, the frequency of CDR1 positive in Candida spp. was 4/5 (80%) were positive in C. albicans, 2/3 (66.67%) in C. ciferrii and 3/4 (75%) in C. dubliniensis otherwise all were negative for this gene.

Conclusions: Enzyme Linked Immunosorbent Assay test was the more sensitive and a good reliable test used to detect the beta D- glucan antigen in the HOC patients . In the Mycological wards patients the VITEK identification test showed that the most common species was C. albicans , C. ciferrii, C. dublinensis , and some other rare type of yeasts responsible of respiratory infection were seen in immunocompromised patients . Flucytosine was the most resisted drug then Amphotericin B and Caspofungin . The most resistant species were C. krusei , C. lusitaniae and C. dublinensis .

The molecular detection reported that MDR1 gene was detected in all Candida albicans , C. ciferrii , and C. dubliniensis , C. krusei , C. lusitaniae , otherwise it was not detected in C. famata and C. lipolytica, C. parapsilosis, C. rugosa and C. tropicalis. While, CDR1 was positive in C. albicans, C. ciferrii and C. dubliniensis otherwise all were negative for this gene in this study .

	University of Bagh	dad	
College Name	Medicine		
Department	Philosophy in Pathology		
Full name as			
written in	Bushra Zul	bair Khalaf	
passport			
e-mail			
Career	ssistant Lecturer : Lecturer	Assistant Professor Professor	
	: :: Master PhD	: : Board	
Thesis Title	Programmed Death Ligand 1 (PDE) Expression with Kirsten rat sarcon homolog(KRAS) and murine sarcon (BRAF) mutations detection by Foundation In Colorectal Carcinoma, A Cline	oma 2 viral oncogene coma viral oncogene homolog B Polymerase chain reaction (PCR)	
Year	2022	CD: 1453	
Abstract	Colorectal cancer is the second most the Western world and its incidence Most cancers of the colon and rectur Genetic alterations of CRC are basic instability, which can operate three general ways: chromicrosatellite instability (MSI) and CpG island meas familial CRC. Programmed death-ligand 1(PD-L1) differentiation 274 (CD274) or B7 homolog 1 is a traspeculated to play a major role in suduring particular events such as pregnancy, disease. Kirsten rat sarcoma 2 viral oncogene makes a protein called KRAS, which	is increasing. m arise in adenomatous polyps. cally attributed to genomic omosomal instability (CIN), ethylator phenotype (CIMP) known) also known as cluster of ansmembrane protein that has been appressing the immune system , tissue allografts, auto immune e homolog (KRAS): A gene that	

pathways that

control cell growth, cell maturation, and cell death. The natural, unchanged form

of the gene is called wild-type KRAS. Mutated (changed) forms of the KRAS

gene have been found in some types of cancer,

Knowing whether a patient's tumor has a wild-type or mutated KRAS gene may help plan cancer treatment.

The mutations in KRAS arise after the loss of APC (the tumor suppressor

gene) during colon cancer this protein plays important roles in cell division, cell

differentiation, and the self-destruction of cells (apoptosis).

BRAF(murine sarcoma viral oncogene homolog B): Is a human gene that

encodes a protein called B-RAF, this protein is involved in sending signals

inside cells which are involved in directing cell growth Transcripted data from

colorectal cell lines with mutations in KRAS or BRAF demonstrated that

glucose deprivation may drive the acquisition of KRAS pathway mutation in

Tumors, and that glycolysis inhibitors suppress the growth of those tumor cell

line.

Aim of the Study

1- Detection of PD-L 1 in colorectal carcinoma by immunohistochemical method.

- 2- Detection of KRAS and BRAF mutations by PCR in colorectal carcinoma.
- 3- Correlation between the immunohistochemical expression of PD-L1 and

KRAS, BRAF mutations with clincopathological parameters (age, gender

stage and grade).

4- To detect any correlation between PDL-1 expression and KRAS, BRAF

gene mutations.

IV

Materials and Methods

Retrospective study of 50 cases with colorectal carcinoma patient colectomy specimens. (27 male and 23 female) were selected randomly covering

the period from 2018 till 2019. They were collected from the

Gastroenterology

and Hepatology Teaching Hospital and from Teaching laboratories / Medical

City-Baghdad and from Private labs.

Age, gender, site of tumor, grading and staging were collected for all cases, PD-L1 immunohistochemical study was performed to detect its expression in colorectal carcinoma.

DNA was extracted from the formalin-fixed, paraffin-embedded tumor samples, and K-RAS mutations in codons 12, 13, and 61,117 were identified

using polymerase chain reaction (PCR), and BRAF evaluated for V600E, each

individual case evaluated for BRAF and K RAS.

Results

The age of the 50 cases ranged between (22-80) years with a mean of 56.76 years \pm SE 13.092 and a median of 55.50 years. Out of the 50 patients 27

(54.0%) were males and 23(46.0%) were female. Male to female ratio was 1.7:1.

Thirty four Patients have had moderately differentiated grade II (68%) was the most common with predominance of left colonic tumors 33(66.0%).and

27(54,0%) patient have stage 3 and 33(66%) of CRC patients presented with T3.

Regional lymph node involvement was seen in (34) patients and more commonly N2.

The 50 patients studied for PDL-1 marker showed only 11 (22%), 8 of them were female. No statistically significant association between PDL-1expression and age, sex, stage, grade, lymph node status.

Positive K-RAS mutations were detected in 15 (30%) patients 13 of these

cases show codon (12) and 2 of them show (117) codon, there were statistically

significant association between KRAS mutation and lymph node state p value

0.042.

BRAF mutations were detected in 2 patients (4.0%) with v600E codon. No statistically significant association between BRAF and age, sex, stage, grade,

lymph node status

Conclusion

1- The 50 patients studied for pdl-1 marker showed only 11 (22%) PD-L1 $\,$

expression increases as the ages of the patients increase, and with presence of lymph node status.

2- The 50 patients studied for KRAS gene showed 15 (30%) and for

BRAF gene showed only two (4%).
3- There were statistically significant association between KRAS mutation
and lymph node state p value = 0.042.

University of Baghdad					
College Name	College of Dentistry				
Department		Scie		l Microbiology	
Full name as					
written in			Mustafa K	areem Aziz	
passport					
e-mail					
Career	issistant Lectu	rer :	Lecturer	:: Assistant Profe	essor Professor
	Master	****	PhD	::: Diploma	: Board
	DETERMINA	TION	OF SALIV	ARY ALPHAAM	IYLASE
Thesis Title	LYSOZYME, MELATONIN AND TOTAL COUNT OF				
Thesis True	MUTANS STREPTOCOCCI AND CANDIDA AMONG				
	COVID-19 PATIENTS				
Year	2022		CD:	1457	
Abstract	aspects of people lockdown to pre people's mental environmental cimpact on the beimpact on the body's abthis study the prin the level of sabiomarkers and	e's lives vent th health, auses c ody's he dility to eesent s livary a melate strepto /ID-19	s when these the virus from the depression a contribute to comeostasis. A conflict with tudy were to alpha amylas onin and their becocci and ca healthy cont	ant impact on many people commended spreading which has and stress. Many in this stress, which has a result, stress massess the difference, salivary lysozymer relation with total andida among COV rol	I quarantine and ad a major effect ternal and as a detrimental ay have an senergy. Aims of ces e as stress

84 samples were collected from adults who have been divided into two groups: the COVID-19 group consisting of 42 patients and the COVID-19

free group which consists of 42 subjects. All subjects undergo PCR tests confirm their healthy status, collection of unstimulated saliva was done Laboratory investigations were carried out to measure the total viable count

of salivary bacterial flora by culturing on Mitis Salivarius Bacitracin Agar

and Sabouraud Dextrose Agar salivary. Alpha-amylase, lysozyme and melatonin ELISA kits had been used to estimate their values. Results:

The statistical analysis of the present study showed non significant difference in salivary alpha amylase (U/ml), and total viable count of salivary mutans streptococci in COVID-19free group than in COVID-19

group showed high significant difference in salivary lysozme, melatonin and candida between COVID-19 group and COVID-19 healthy controls group was found There is non significant salivary alpha amylase and total viable count of salivary mutans streptococci between COVID-19 group and COVID-19 healthy control group was found There is non significant correlation of salivary alpha amylase with salivary lysozyme, melatonin ,total viable count of salivary mutans streptococci and candida

between COVID-19 group and COVID-19 healthy control group was found

There is non significant correlation of salivary lysozyme with melatonin ,total viable count of salivary mutans streptococci and candida in COVID-

19 healthy control group was found There is non significant correlation melatonin with total viable count of salivary mutans streptococci COVID-

19 group and COVID-19healthy control group and total viable count of salivary mutans with candida.

Conclusion:

Salivary alpha-amylase increased in the Covid-19 group more than in the

Covid-19 healthy control group. Salivary lysozyme decreased among covid-19 group more than in the covid-19 healthy control group. Salivary

melatonin decreased in among covid-19 group more than among the covid-

19 healthy control group. The Total Viable Count of Salivary Mutans streptococcus increases Non-significant in the covid-19 group more than

covid -19 healthy control group.

	University of Bagh	edad			
College Name	College of Dentistry				
Department	Science in Prosthodontics				
Full name as written in passport	Ali Saad	l Ahmed			
e-mail					
Career	ssistant Lecturer : Lecturer	Assistant Professor Professor			
	Master :: PhD	:: Board			
Thesis Title	ADDITION OF STRONTIUM 7	DFACIAL SILICONE AFTER ΓΙΤΑΝΑΤΕ NANOPOWDER			
Year	2022	CD: 1458			
Abstract	results. A total of 180 specimens were (without nanofiller) and two experir SrTiO3 NP). Each group was subdivibuted subgroups. For each subgroup, tensile strength, elongation percent hardness, surface roughness, UV absolubility). Significance level was set was performed. Results: Both experimental groups in tensile strength, tear strength and 1.5 wt% group revealed a highly sig (P<0.01), while 1 wt% group revealed both experimental groups showed helongation percentage (P<0.01). This in water absorption and solubility of experimental groups to contract the strength and solubility of experimental groups when compared to contract the strength and solubility of experimental groups the strength and solubility of experimental groups the strength and solubility of experimental groups when compared to contract the strength and solubility of experimental groups the str	igin as cancer or trauma. Although ccept silicones, additional se their performance. Researches ew generation of polymer with er, resulting in better material that in the flexibility of the polymer. The strontium titanate nanopowder serties of VST-50 maxillofacial to percentages (1 wt% and 1.5 wt%) of study, which yielded most suitable re prepared and divided into control mental groups (1 wt% and 1.5 wt% wided into seven identical specimens were utilized for each test stage, tear strength, shore A sorption, water absorption and that p=0.05 when statistical analysis revealed highly significant increase in surface roughness (P<0.01). The quificant increase in hardness led a significant increase (P<0.05). Sighly significant decrease in the ere was highly significant increase the mental groups as well as in UV light			

enhanced tear strength and tensile strength particularly at (1 wt%).
Hardness and surface roughness were increased, but only to clinically
acceptable levels. Percentage of elongation was decreased significantly.
Water absorption, solubility, and UV absorption levels all increased.
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University of Baghdad						
College Name	medicine					
Department	Echocardiography					
Full name as						
written in	Husam Khalid Mahmood					
passport						
e-mail	- 1					
Career	ssistant Lecturer : Lecturer	: Assistant Professor : Professor				
	:::: Master :::: PhD	Diploma : Board				
Thesis Title	Dobutamine Stress Echocardiography in Iraqi Patients. Single Center Experience					
Year	2016	CD: 1459				
Abstract	Background: Coronary artery disease is one of the major causes of mortality and morbidity in the world. Coronary artery disease is characterized atherosclerosis in the epicardial coronary arteries. The reduction in coronary artery flow may be symptomatic or asymptomatic, occurs with exertion or at rest, and culminate in ,depending on obstruction severity and the rapidity of development. Dobutamine stress echocardiography is a noninvasive ultrasound imaging technique that allows evaluation of cardiac conditions that cannot detected by resting echocardiographic examination. Aim of the study: To analyze the indications, results and complications of dobutamine stress echocardiography in a single cardiac center in Iraq Patients and method: A cross sectional study was conducted at Ibn-Al					

Nafees hospital during the period between September 2015 and June 2016

and a sample of 100 patients was selected.

Results: The mean age of patients was (57 ± 8.4) years; male gender (78%)

and female (22%),

About half of the patients (58%) were hypertensive, (54%) were diabetic,

(38.3%) were hypertensive and (68%) had hyperlipidemia, (64%) were smoker and (48%) had a family history of coronary heart disease.

The findings of Dobutamine stress echocardiography for viability study were:

biphasic response 57 %, monophasic response was 11.6 % and non-phasic

response was 31.9 %.

84.7% of the referred patients for viability test were within the period of 3

months after myocardial infarction.

 $23\ \%$ of Patients were referred for detection of myocardial ischemia and

30.4% of the patients had positive dobutamine stress echocardiography. 5% of patient were referred with left ventricular dysfunction for evaluation of

low gradient aortic stenosis by low dose dobutamine stress echocardiography

and four patients had positive test and had developed severe aortic stenosis.

The adverse effect of dobutamine stress test was 16% patients developed

chest pain and 12 % of them had headache, dizziness and nausea, 1 % severe

hypotension, 1% severe hypertension and 2 % ventricular arrhythmia's Dobutamine stress test discontinuation criteria was: 90 % Patients of patients

reached 85% of target heart rate and 25 % of them had required Atropine

addition, 5% Patients developed new regional wall motion abnormality ,2%

Patients had developed hypotension ,1% Patients had developed severe hypertension and 2% Patients had developed ventricular arrhythmias, Conclusion: Dobutamine stress echocardiography is a feasible, costeffective,

and widely available imaging study that can be used in evaluation of different

cardiac cases. The incidence of adverse effects of dobutamine stress echocardiography are small and usually self-limiting.

University of Baghdad					
College Name	Medicine				
Department	Pathology				
Full name as					
written in	Faez Shawqi Al-Mohsen				
passport	_				
e-mail					
Career	ssistant Lecturer				
	: Master PhD : Diploma Board				
Thesis Title	MICRORNA-126 AND LEUKEMIA STEM CELL ADHESION MOLECULES (CD44, OSTEOPONTIN, GPR56 AND CD184): CORRELATION WITH RESPONSE TO REMISSION INDUCTION IN ACUTE MYELOID LEUKEMIA				
Year	2022 CD: 1460				
Abstract	Acute myeloid leukemia (AML) results from genetic alterations in normal hematopoietic stem cell or its progenitors leading to the development of an autonomous clone large enough to dominate bone marrow activity and lead to marrow failure. The advent of flow cytometry and its application in various hematology fields have been a vital leap in the diagnosis, risk stratification and treatment choice of hematological disorders, in a short time and with a wide range of options. Many surface markers have been studied for their role in the initiation and maintenance of leukemia as well as their diagnostic, prognostic, and therapeutic relevance. MicroRNAs (miRNA, miR) are short non-coding nucleic acid sequences that regulate post-transcriptional gene expression by basepairing with their target mRNAs. MiRNAs can be circulating in extracellular fluids carried to target cells by extracellular vesicles or bound to specific proteins. Extracellular miRNAs might act as chemical messengers to mediate intercellular communication. Circulating miRNAs				

have been used in the diagnosis, prognosis and treatment of various cancers including AML.

Aim of this study:

To assess the expression of CD123, CD44, CD184, GPR56 and osteopontin (OPN) on CD34+CD38- blast cells to clarify their relationship

with the response to induction therapy, to measure the expression of plasma circulating miR-126-3p and miR-423-5p in AML and compare their expression with response to induction therapy.

SUMMARY

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Patients and Methods:

A cohort of 54 patients older than 13 years with newly diagnosed de novo AML were included in this study. Patients were recruited from Baghdad Teaching Hospital, Medical City during a period extending between December 2018 and September 2019. Thirty-five apparently healthy age- and sex-matched individuals were enrolled in this study as a

control group for the purpose of comparison with miRNA expression. The expression of CD34, CD38, CD123, CD184, GPR56, and osteopontin was assessed by multi-color flow cytometry. To determine the positivity of the studied markers, a cut-off value of 10% was used for

CD34 while 20% was used for the other markers. The expression of CD123, CD184, CD44, GPR56 and osteopontin on CD34+CD38- blast cell population was calculated. French American British (FAB) classification system was used in this study. The relative expression of plasma circulating miR-126-3p and miR-423-5p was measured by reverse

transcriptase PCR (RT-PCR) and calculated using Livak's Method (2- $\Delta\Delta Ct)$. Patients were followed up for morphological response four weeks

after the start of induction therapy, and after two years of diagnosis for the 2-year survival rate. Patients has ultimately been divided into two groups based on their response to induction therapy: the complete remission (CR) group, and the non-remission (NR) group. Results:

The peak incidence was found in the age groups 14-20 years, >30-40 years, and >50-60 years. The male to female ratio was 1:1.

Regarding

the FAB classification, M4 was the most common subtype. The CR rate was 40% while NR rate was 60%.

Regarding leukemia stem cell phenotypes, CD34+CD38-CD123+, CD34+CD38-CD44+, CD34+CD38-CD184+, and CD34+CD38-CDGPR56+,

CD34+CD38-OPN+ LSC phenotypes were expressed in almost all

studied SUMMARY

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patients. However, no statistically significant relationship was found between their expression neither with response to induction therapy nor

with the 2-year OS. Interestingly, there was a significant positive correlation among the expression of CD34+CD38-CD123+, CD34+CD38-

CD44+, CD34+CD38-CD184+, and CD34+CD38-CDGPR56+ LSC phenotypes. We further studied the expression of CD44, CD184, GPR56 and OPN on CD34+CD38-CD123+ LSCs. There was a significant relationship between the expression of GPR56 on CD34+CD38-CD123+ LSCs and poor response to induction therapy.

The expression fold change of miR-126-3p was 1.73 (p=0.010). The expression fold change of miR-423-5p was 2.13 (p=0.003). No significant correlation was found between the expression of miR-126-3p and miR-423-5p in the studied AML patients, (r=0.094, p=0.22). Furthermore, no relationship was found between the expression of the studied miRNAs and response to induction therapy or the 2-year survival

status.

Conclusions:

Leukemia stem cell phenotypes were expressed in almost all AML cases and were not correlated with response to induction therapy or 2-year survival. The expression of GPR56 on CD34+CD38-CD123+ LSCs was associated with a poor response to induction therapy.

There was a significant difference in the expression of miR-126-3p and miR-423-5p between controls and patients. There was no relationship

between the expression of the studied miRNAs and response to induction

therapy or the 2-year survival rate.