



آزمایشگاه پاتوبیولوژی
AMIRKABIR LABORATORY

آدرس: تهران، چهار راه یافت آباد، ابتدای بلوار معلم، پلاک ۳

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Serology , Immunology , Hematology

Cold Agg	B cell (Flow cytometry)	T cell (Flow cytometry)	IgG
IgG subclass 1,2,3,4	IgM	(IgM ,IgG)(CLIA)	RH factor
Serum Electrophoresis	IgA Serum & Saliva	IgE	Coomb test
Ind.Coombs	C3& C4/C1q/ CH50	C1-inhibitor	NBT
CRP	Highly sensitive CRP	RF	Anti thyroid Peroxidase
IL-6	ROMA (HE4/CA125)	HE4	CA125
Stool IF OB	Cryoglobulin	Respiratory allergy Panel	Childhood Allergy panel
Anti Centromer Ab	M2pK stool	Anti CMPO (P-ANCA)	Anti- Thyroglobulin (ECL) Ab
Anti- Thyroglobulin Ab (IgG)	Anti saccharomyces cerevisiae antibody (ASCA)	Acetylcholine receptor antibody	Anti B2 Glycoprotein (IgM&IgG)
Anti Cardiolipin Ab (IgM, IgG)	Anti Phospholipid Ab (IgM,IgG)	Russell (DRVVT)	AntiRNP/Sm Antibody
Anti -NMO Ab	Anti- DNA (DS)	Anti PR3 (C-ANCA)	Anti- SCL-70 Ab
Anti JO1 antibody	Anti- Mitochondrial Ab(AMA)	ANA & ANCA	Anti- platelet Ab
Anti – Histone Ab	Anti G.B.M antibody	Anti- Smooth Muscle Ab	Anti-Sm-RNP Ab
Anti Desmoglein-1 Ab	Anti -SSB (La) Ab	Anti- SSA (Ro) Ab	Anti Gliadin AB (IgG IgA)
MCV Ab (IgG1, IgG2,IgG3,IgG4)	Thyroid peroxidase Ab (TPO Ab)	Anti MPO Ab	F.ANA(HEP-2)
ANF	Anti Chlamydia Antibody (IgM, IgG)	Circulating Immune Complex (CIC)	Anti Sacharomyces Cerevisiae Ab
Anti Endomysial Antibody(IgA/IgG)	Anti Smith Antibody	Anti Musk Antibody	Anti LKM Antibody
Chlamydia PCR	Anti Tissue Ab	Anti Topoisomerase Ab	Anti CCP AB
H.Pylori Stool Ag	HSV(1-2)AB (Igm, IgG)	Anti Sperm Ab	H.Pylori Urea breath test
Tetanus Ab	FTA (IgG and IgM)	H.Pylori (IgM/IgG/IgA)	Strongyloides Stercorialis AB



نمونه برداری و بخش عفونی

Diect Smear	Gram Smear	RBC	Wet Smear
Trichomonas Vaginalis	Yeast Cells	Colony count	Culture
Urine (S&C)	Vaginal Discharge (S&C)	Blood (S&C)	Urethral discharge (S&C)
Abscess (S&C)	Nasal (S&C)	Eye (S&C)	CSF
Synovial Fluid Culture	Ascite Fluid smear	Pleural Fluid Culture	Fluid bacteriology
Myco.Vaginal	Ear (S&C)	Wound (S&C)	Rubella
Leishmania IgG (Kala azar)	Pleural (S&C)	Fungal Culture	Hepatitis B ,C, D,E
Nasopharyngeal Swab	Throat (S&C)	Throat smear for Diptheria	Sputum (S&C)

Sputum direct smear for BK	Sarcoptes Scabiei (Gall)	HBV (qPCR), (PCR)	Stool (S&C)
Gastric juice	Mycoplasma semen	Mycoplasma urine	Semen (S&C)
Nipple (S&C)	HCV(genotypingPCR)	O/B	Anti Varicella Zoster Virus Ab (IgG & IgM)
RPR	Scotch Test	Anaerobic Culture	Syphilis (VDRL)
Mononucleosis test	Paul Bunnell test	EBV (Viral capsid Ag)	EBV Ab (IgG & IgM)
Listeria Ab (IgG & IgM)	Listeria IF	HIV (Quantitative)PCR	HIV (Viral load)PCR
HIV AB (I+II)	Salmonella para typhi (OD)	Salmonella para typhi (HA)	Salmonella para typhi (OB)
Salmonella para typhi (HB)	Stool reducing substances	Pus cells	Anti Toxoplasma AB (IgG) Avidity
Stool pH	ASO	HCV Ab	HCV qPCR
HSV Ab (IgG & IgM)	HSV (PCR)	HBsAg	HBsAb
HBeAg/Ab	HAV AB	HBc Ab (IgG/IgM)& Total	HEV Ab
HDV Ab	JC Virus viral load	Mycoplasma Pneumonia	Anti parvovirus (B19)AB (IgM, IgG)
T.B (IgM,IgG)	Toxocara	Islet cell	Leptospira Ab (IgM/IgG)
Anti Brucella Ab (IgM, IgG)	Wright Test	ZME	Anti Borrelia Burgdorferi Ab(IgM,IgG)
Anti Toxo AB (IF) (IgG, IgM)	intermediate	Widal AgglutinationTest	Anti Rubella AB (IgG, IgM)
Anti Rubella AB (IgG) avidity	Toxocara Ab (IgG)	Mumps Ab (IgG&IgM)	Anti Measles Ab (IgG & IgM)
Anti CMV AB (IgG & IgM) & Avidity	CMV Antigen	CMV(genotyping) PCR	HCV real time PCR (Quantitative)
Clamidia Antibody (IgM,IgG)	Anti fasciola AB (IgG)	Diphtheria Ab (IgG)	Amoebiasis (Entamoeba Histolytica) (IgG)
FTA-ABS (titer& IgM)	Hydatid Ab (IgG)	Colestridium difficile toxins	HTLV (I,II) Ab
Bacterial resistance	Bacterial sensitivity and	Fluid cell count	Breast discharge (C&S)
Yeast	OVA of parasites	Protozoa cyst	Scotch test
Stool examination (1x, 2x,3x)	Occult blood (1x,2x &3x)	Fat droplets	Tuberculin test (PPD)



Hematology

Bleeding Time (BT)	Clotting Time (CT)	Blood Group & Rh	PT (Prothrombin Time)
Prothrombin(GA20210)	CBC	APTT	Coombs Direct & Indirect
Fibrinogen	Eosinophil Count	D-dimer	ESR (1 st h, 2hrs)
FDP	G6PD	Protein C	Hemoglobin
Protein S	Leishman Body	Anti-thrombin III	LE Cell
Reticulocyte	Osmotic Fragility	MTHFR mutations (PCR)	Leiden Factor (Factor V/ PCR & qPCR)
Lupus Anticoagulant	Lipoprotein Electrophoresis	Hemoglobin A2	Evaluation and Classification of Gammopathies
HB F	Protein MCH Electrophoresis	Fibrinogen	HCT
MCV	MCHC	Platelets	CBC
WBC	RBC	Hemoglobin	RDW-SD
RDW-CV	PDW	MPV	P-LCR
RBC Morphology	Neutrophils	Lymphocytes	Monocytes
Eosinophils	Blast cells	Promyelocytes	Myelocytes
Metamyelocytes	Lymph. Variant Forms	Immature cells	Monoblasts
Prolymphocyte	Basophils	N.R.B.C	Microcytosis
Macrocytosis	Anisocytosis	Hypochromia	Ovalocytosis
Target Cells	Tear Drop Cells	Poikilocytosis	Rouleaux Formation
Acanthocyte	Basophilic Stippling	Echinocytosis (Burr Cells)	Cabot Ring
Dimorphism Pattern	RDW(SD-CV)	Promyelocytes	Myelocytes
Band cells	Islet Cell	Du Factor	Rh Factor
Keratocyte (Helmet Cells)	Myeloblast	Polychromasia	Hypersegmented PMN
Stomatocytosis	Elliptocytosis	Macroovalocyte	Pencil Cells
Crenated Cells	Schistocytosis	Pyknocytosis	Spherocytosis
Peripheral blood smear	BG&RH	Erythroblast	Immune Anti-A
BCR/ABL P190	Immune Anti-B	BCR/ABL P210	Free Kappa (Urine)
Free Lambda (Urine)	WBC- Cross Match	CD3	CD4
CD8	CD20	CD19	CD55
CD59	CD16	CD56	BCR/ABL P210

BCR/ABL P 210 t (9-22) CML	BCR/ABL P190 t(9-22) ALL	HLA Typing	HLA class I
HLA B27	HLA B7	HLA B8	HLA B5
HLA B51	HLA B35	Panel reactive Antibody	
Malaria (Plasmodium)	JAK-2 mutation PCR	Factor 8	Factor 7
CA72-4	Ca19.9	CA -242	NSE
CEA	Factor 11	Factor 2	

Hemostasis

Fibrinogen	Platelets	D-Dimer	Bleeding Time (BT)
Clotting Time (CT)	PT (patient & control)	I.N.R	A.P.T.T(patient /control)
Circulating immune	FDP	Anti- Thrombin III	Protein C
Protein S	Von Willibrand Factor	Factor 13	Factor 10
Factor 8	Factor 7	Factor 11	Factor 2
Factor 12	Jak-2 mutation PCR	Leiden factor F5 (qPCR)	Prothrombin G20210 A PCR

Miscellaneous

Volume (ml)	Epithelial Cells	Stone cells	Source of Calculi
Pieces of calculi	Weight	Size	Color
Surface Appearance	Chemical Analysis	Stone biliary Gallbladder	

Post Coital Test

Bacteria	Post coital test	pH	Color
Appearance	Viscosity	Ferning	Spinnbarkeit
RBC	WBC	Sperm count (HPF)	Motility
PCT	Remarks	Volume	Liquifaction
Viscosity	Epithelial Cells	Fast forward motility	Slow forward motility

Electrophoresis

Serum Protein	Alpha1	Alpha2	HGB. Electrophoresis
HGB F (Chemical)	Hemoglobin A2	HGB. Electrophoresis	S or D or G
GAMMA	Elec-Beta	Elect. Albumine	



بخش بیوشیمی

ACE	ADA	Ammonia	Apo A1 & Apo B
Ceruloplasmin	Copper	Folic Acid	Cystatin C
Dopamine	Folate RBC	Fluid Analysis	Epinephrine & Norepinephrine
Homocysteine	Haptoglobin	Inhibin A & Inhibin-B	HbA1c
Blood glucose	Lipoprotein A	Micro Alb. (Urine & CSF)	Hemoglobin A1c HbA1c (Quant. HPLC)
Blood glucose(1hr)	Vitamin D (25OH)	CRP/ highly sensitive	Trace elements: Zn, Ag, Pb,...
VMA	Xylose Absorption Test	Creatine- Kinase-MB (CK-MB)	Adenosine Deaminase
Aldolase	Stool Trypsin Activity	Haptoglobin	Serum Osmolality
Alpha Fetoprotein	Acid Phosphatase(Total)	Fasting Blood Glucose (FBS)	Vitamin B12 (Cobalamin)
Acid Phosphatase (Prostatic)	Blood Glucose (2PM/4PM/5pm/6PM)	Glucose Challenge test GCT (1,2,3 hrs)	Glucose Tolerance Test (fasting, 30,60,90.120/180 min)
T4	T- uptake	T3	FTI
TSH	Anti TSH receptor Ab	Erythropoetin	Amino Acid Chrom (HPLC) Troponin I

Free T4	Free T3	Prolactin	Estradiol
Progesterone	17 OH Progesterone	Testosterone	
Testosterone Free	Androstenedione	GH (90 min after Clonidine)	
Renin Upright	Renin (Supine)	C Peptide	C Peptide (1& 2 h)
Fructosamine	Cholinesterase Serum	Gastrin	Albumin Serum
Globulin	A/G Ratio	Creatinine	Creatinine Clearance
Alkaline Phosphatase	Urea	Bilirubin Total	Bilirubin Direct
Bilirubin Indirect	Amylase	PRL	DHEA-SO4
Cortisol	Cortisol pm	SHBG	Aldosterone (Supine)
Aldosterone (upright)	ACTH	Calcitonin	Procalcitonin
PTH	Insulin	Insulin (2hpp)	Growth hormone (after exercise)
Cholesterol	Mg	PSA(Total &Free) Free/Total	Fe
Transferrin	Ferritin	TIBC	Ca
NA	K	P	Zn
Lithium	Hg (Mersury)	Cl	SGPT (ALT)
SGOT (AST)	Lipase	Protein Total	Selenium
Uric acid (blood)	Triglycerides	Total Lipid	VLDL
LDL	HDL	LDL/HDL ratio	Cholesterol/HDL Ratio
CPK-MB	Ceruloplasmin	Vit A (HPLC)	Vit B1
Vit E	Vit C	MTHFR C 677(PCR)	MTHFR A 1298 (PCR)
MTHFR A-C (PCR)	Factor 9	Unconjugated Estriol	Growth Hormone (30/60/90/120 min after medication)
D.H testosterone	Alpha 1 anti Trypsin	IGFBP-3	PAPP-A
IGF	C- peptide (1 &2 h)	Growth hormone (basal)	BNP (Brain Natriuretic Peptide)
Double marker	Free Beta HCG	Beta HCG Titration	Macro Prolactin (PEG)
Plasma lactate	Hg		

آنالیز ادرار

Magnesium (Random, 24 hrs Urine)	Urine Calcium (Random, 24 hrs Urine)	Ca/Cr Ratio (Random & 24 hrs.)	Glomerular filtration rate (GFR)	Pr/Cr (Random, 24 hrs. urine)
Urea Clearance(24 hrs Urine)	Creatinine (random, 12 & 24 hrs)	Creatinine Clearance	Protein (Random & 24 hrs Urine)	Urine Chloride Random&24hrs
BUN Urine	Urine Na/K/P/Ca random & 24hrs	Urine 17- keto Steroids	Urine Cortisol Random &24 hrs.	Urine Citrate Random &24hrs
Urine Copper Random & 24 hrs	Uric Acid Random & 24 hrs	Zn Urine	Urine Amylase 24 hrs.	Urine Osmolality
Urine Phosphorus random & 24 hrs	Urine Random Urea	Urine Oxalate Random & 24 hrs.	Urine Albumin	Urine Microalbumin Random,12/24 hrs
Fasting Urine Glucose	Urine Glucose Random& 24 hrs.	Thin layer Chromatography	Reducing Substances	Dysmorphic RBC
Urine Reducing substances	Urine microscopy Random	Renal cells	Urine Myoglobin	Mucopolysaccharides
Urine color	Urine Appearance	Urine Specific gravity	Urine pH	Protein Random& 24 hrs Urine
Bilirubin	Urobilinogen	Ketone	Nitrite	Clumped WBC
Hemoglobin		Bacteria	Epithelial Cell	Volume
RBC	WBC	Epithelial Cells	Bacteria	Mucus
Cast	Crystal	Yeast	Sperm	Bence Jones Protein
Addis Count	Drug Adulteration Test	Tin layer Chromatography	Amphetamine	Volume(12/24 hrs)
Pregnancy Test	Urine Dismorphic RBC	Fasting Urine	Clue cells	Urine analysis

آنالیز مدفوع

Stool reducing substance	Stool Examination (1x, 2x & 3X)	Occult Blood (x1,x2 &x3)	Pus	Scotch
Direct examination	Specimen	Consistency	Fat Droplets	Mucus
Undigested food	Yeast	RBC	WBC	OVA of parasites
Stool pH	Other	H. Pylori Antigen	Elastase	

Cytology (Sputum)	Cytology (Body Fluid)	Pathology Level (1)	Pathology Level (2)
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Pathology Level (3)	Pathology Level (4)	Pathology Level (5)	Pathology Level (6)
Pap Smear	E-Prep	Staining (H&E)	Bone Marrow Aspira/biopsy
F.N.A - procedure	F.N.A - Report	Liquid Cytology	Urine cytology
Sputum cytology	Consultation	Barr bodies	Cytology (Nipple) Discharge)
Slide and block preparation	Slide Staining		

بخش پاتولوژی



Semen Analysis

Semen analysis	Appearance	Abnormal morphology	Aggregated Sperm
Agglutinated & Clumped	Semen Analysis (free)	Semen Analysis (CASA)	Alpha-lactoalbumine

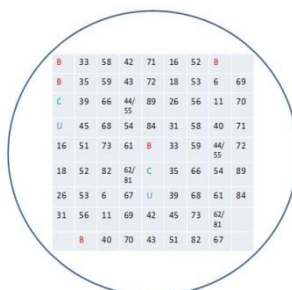
PCR tests

HLA Class I	JAK-2 Mutation	Leiden factor	MTHFR C 677
MTHFR A-C	MTHFR A 1298	HCV	HSV
HCV (qPCR)	MCV	HIV Viral load	HIV qPCR
Chlamydia	HBV	HPV	CMV
JAK2	PAI	Prothrombin G20210 A	

HPV Hybridization and typing

High-risk genotypes: 16, 18, 26, 31, 33, 35, 39, 45, 51, 53, 52, 56, 59, 66, 68, 73 and 82

Low risk genotypes: 6, 11, 40, 42, 43, 44, 54, 55, 61, 62, 67, 69, 70, 71, 72, 81, 84 and 89



Drug monitoring

Tyrosine	Alprazolam	Na Valporate	Chlordiazepoxide	Clonazepam
Cyclosporine	Cyclosporine 2hrs	Diazepam	Digoxin	Oxcarbazepine
Tacrolimus	phenylalanine	phenytoine	Tramadol	Buprenorphine
Keppra	Phenytoin	Carbamazepine	Lamotrigine	Phenobarbital
Primidone	Ethosuximide	Topiramate (Topamax)	Valproic acid	Morphine
Drug Alteration test	Methamphetamine	Loratadine	Meprobamate	Metoclopramide
Cocaine	Metadone	Amphetamine	Tetrahydrocannabinol (Cannabis)	Methylenedioxymethamphetamine

Arsenic	Lead	Phencyclidine	Benzodiazepines	Tricyclic Antidepressants
Mercury	Multidrug (3,6,10)			