



آزمایشگاه پاتوبیولوژی AMIRKABIR LABORATORY

1 Anemia Panel

CBC, Platelet
Iron w/TIBC
Ferritin , Transferrin
Vitamin B12, Hemosidirn
Erythropoietin
Folic Acid, Erythropoietin
Reticulocyte count
HB electrophoresis , Hepatoglobin,
Hem's test Erythropoietin, Osmotic
Fragility

2 Basic metabolic (BMP)

Glucose, Sodium, Calcium,
Potassium, Creatinine, Chloride,
BUN

3 Comprehensive metabolic Profile

Albumin
Alkaline phosphatase
Bilirubin, Calcium, Potassium
Creatinine, Chloride, Glucose
Protein, Sodium, Urea nitrogen

4 Atherosclerosis Cardiac infarct, Alzheimer

HDL, LDL, VLDL, Triglyceride
Cholesterol total, Fibrinogen
Lipoprotein (a) Apolipoprotein A1,B

5 Women's Health

Immunity to rubella, Gonorrhea,
Chlamydia Syphilis tests, PAP
Smear, HIV, Hepatitis B screening,
TORCH, Bacterial Vaginosis, UC/UA,
Herpes, Hemoglobin Test

6 Screening of First trimester of pregnancy

PAAP-A ,hCG β , total or free beta
subunit

7 Screening of second trimester of pregnancy

AFP, hCG β , UE3, Inhibin A

8 Second trimester checkup during pregnancy

Urine test for glucose & Protein,
Urine culture, Glucose / Glucose
Tolerance Test

9 Abortion

(IgM,IgG), Anti Cardiolipin (IgM,
IgG), Anti Tyroglobulin
Lupus Anti-Coagulant Ab
Anti Thrombin, Protein C, Protein S,
LH, FSH,PRL, TSH, Hemocysteine,
Flow cytometry
(CD3, CD16,CD56)
Ovarian Cancer
HE4, CA125, ROMA

10 Premature Ovarian Failure (POF)

Anti Mullnerian hormone, Inhibin B,
Anti Ovarian Ab
Polycystic Ovary Syndrome
LH, FSH, Estradiol, Anti Mullnerian
Hormone, Testosterone, SHGB,
17OH Progesterone, FBS, HbA1C,
GTT, HDL, LDL, Cholesterol, TG

11 HPV Screening & Genotyping

High Risk:
16,18,26,31,33,35,39,45,51, 52,
53,56,58,59,,66, 68, 73& 82
Low risk:
6,11,40,42,43,,44,54,55,61,62,67,6
9,70,71,81,84&89
Pup smear evaluation

12 Men Health & Fertility

Chlamydia Trachomatis Ag & Ab,
Prolactin (PRL) Semen analysis,
Semen Culture, DHEA-S, FSH, LH,
Free & Total Testosterone, Genital
Herpes, HPV, Mycoplasma hominis
Culture, Anti Sperm Antibody (ASA),
TSH, T3, T4, Ureaplasma
urealyticum Culture, POST Coital
Test

13 Neonatal screening

Hyperbilirubinemia,
Hypothyroidism, G6PD, PKU, Cystic
Fibrosis, Galactosemia
Metabolic Amino acid screening
Cystic Fibrosis: Sweat Test, Stool
Trypsin Activity, PKU Test:
Phenylalanine & Tyrosine level,
Amino Acid Hemoglobin analysis,

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Atherosclerosis Cardiac infarct

HDL, LDL, VLDL, Triglyceride FBS,
BS,Cholesterol total, Hemocysteine,
Fibrinogen CK and CPK-MB,
Lipoprotein (a) Apolipoprotein A1,
B, SGOT, Myoglobin, Troponin

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Endocrine & Metabolic diseases panels

• Thyroid

T3,T4,TSH,T3 uptake, FTI, Free T3,
Free T4, Anti TPO Ab, Anti
Tyroglobin Ab

• Pituitary

TSH, FSH, LH, Prolactin, GH, GH
Stimulation

• Parathyroid

PTH, Calcium, Phosphorus, Alkaline
Phaspatase, Calcitonin

• Sex hormone

LH, FSH, Prolactin, Estradiol,
Prigesterone, 17 OH Progesterone,
DHEA-SO4, Testostrone,
Unconjugated estriol

• Adrenal

Serum & Urine Cortisol, 24 h
Cortisol, 17 Ketostroids,
Androstenedione, VMA, ACTH,
Renin

• Diabetes

FBS, BS 2hr, GTT, HbA1C, Urine
Microalbumin, C- peptide(1&2 hrs),
Ketone, Cholesterol, HDL,
LDL,TG,BUN, Creatinine, Urine
24hrs (Protein & Creatinine)

16

Immunodeficiency

• Humoral

Immunoglobulins (IgG, IgM,IgE, IgA)
Anti Diphtheria Ab (IgG)
Anti Tetanus Ab (IgG)
Anti Pneumococcus IgG ,
Flowcytometry
(CD19, CD20, CD27)

• Cellular

CBC, Flowcytometry
(CD3,CD4,CD8, CD16, CD19,
CD20, CD45, CD107a) DTH

• Phagocytic

CBC, NBT
Flowcytometry
(CD11a, CD11b, CD15, CD18)
Anti Neutrophil Ab

• Complement

C3,C4, C1inhibitor, CH50

17 Coagulation Panel

PT, PTT, BT, CT, Fibrinogen, Protein C, ProteinS, Homocystein, Anti Thrombon III Ab, D Dimer, Anti Platelet Ab, FactorV, FactorXIII, Protrombin (GA20210) MTHFR mutation(PCR)

18 Hepatic Panel

HBS Ag, Anti HBS Ab, Anti Hbc Ab, Hbe Ag, Anti Hbe Ab, HAV/IgM, HAV total, Anti HCV Ab, Anti HDV Ab, HBV PCR, HCV PCR

19 Rheumatology panel

C3, C4, CH50, ANA, FANA, Vit D level, Anti ds-DNA, Anti phospholipids Ab (IgM, IgG) C-ANCA, P-ANCA, RF (Latex & quantitative), Anti Cardiolipin Ab (IgM, IgG), Anti RNP Ab, Anti Sm Ab, Anti SS-A, SS-B, SCL-70, Anti neutrophil Ab HLA Typing (Class I & Class II) HLA (B5, B27, A2, B7, B8, B51)

20 Neuromuscular panel

Aldolase, CpK, CK-MB, LDH, Ca, Phosphorus, Lactate, pyruvate, Ammonia, Acetylcholine receptor antibody, Cholinesterase, CSF smear and culture, CSF electrophoresis, CSF (IgG,lactate), Alkaline phosphatase (total)

21 Gastrointestinal and liver

AST(SGOT), ALT (SGPT), Gamma GT, Alkaline phosphatase (total) Bilirubin (total, direct), Albumin, Globulins, A/G ratio, Total protein, Amylase , Lipase, PT, PTT, LDH, Ceruloplasmin, Anti H. Pylori Ab , Antigen & UBT, Anti Endomesial Ab (IgA, /IgG)

Anti TTG Ab (IgA, IgG), ANA (IF-ELISA),AMA (Anti mitochondrial AB) ASMA(Anti smooth muscleAb) Calprotectin

LKM1 (Liver- kidney- Microsomal Ab) P -ANCA (peripheral ANCA)C-ANCA (Circular ANCA) ASCA(IgA,IgG) Alpha-1 antitrypsin, Porphyrine,

22 Celiac Panel

Anti Endomysial Ab Anti TTG Ab (IgA, IgG) Total IgA, Anti Gliadin Ab (IgA, IgG) HLA-DQ

23 Nutrition Panel

FBS, GTT, TG, Ch Cholesterol (HDL, LDL) T3, T4, TSH, ACTH, Cortisol, Vitamins (D,A, C, E, B12) Folate, Leptin

24 Oncology panel

CA 125 (Ovarian), CA 125 (Ovarian), CA 19-9(Pancreas), β hCG, DHEA-S, CEA, CRP, Calcitonin, ESR, CBC with PBS, HE4, Ferritin

25 Multiple Myeloma

Compressive metabolic panel (CMP), Albumin, Immunoglobulin Determination for IgG, IgM, IgA & IgE, Serum Protein Electrophoresis & Immuno Electrophoresis, **Urine** Protein Electrophoresis & Immuno Electrophoresis, Free-Light Chain (kappa & Lambda) in Serum & Urine, Kappa & Lambda Chain Excretion in Urine, Bence Jones Protein, β 2 Microglobuline Amyloidosis

26 Pancreatic Cancer

Alkaline phosphatase, Bilirubin, Amylase, CA19.9, CA15.3, CEA

27 Renal disease

Glomerular filtration rate (GFR) Bun, Creatinine, Creatinine clearance, Urea Clearance, Total protein, Albumin, Na, K, Chloride, FBS, Protein Electrophoresis, C3, C4, CH50,GBM Ab, Cystein, Cystein C, Erythropoietin, Renin, Ca/Cr Ratio (Random & 24 hrs.) Pr/Cr (Random, 24 hrs. urine)Aldosterone, Urinanalysis, Culture, Urine Bence jones protein, Oxalate & citrate (24h) Measurement of the following elements randomly and 24 hrs: Protein, Microalbumin, creatinin, Uric acid, Urea, Ca,C Chloride, Ph , 17 Ketosteroid VMA, Metanephrine Normetanephrine

28 Allergy Panel

CBC, Total IgE, Screening:
A)Allergy Mixed Panel
B) Aeroallergens Panel
C) Food Allergy Panel

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