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All of our patients have laboratory work-ups as part of their visit assessment. This helps assure the physician, and the patient, that a through analysis is being done each visit to determine if changes have arisen. Even short intervals may show changes. For example a white cell count may elevate within hours of the appearance of a sore throat. The laboratory values of an acute hepatitis infection can elevated before symptoms are apparent and will change daily. The changes due to a blood cancer may occur in a week's time.

We have compiled all the tests done or ordered in the last 20 years. Many of the tests listed on the following pages were done by our own laboratory. The tests performed by an outside laboratory are identified by a period (.) after the test name on the listing. We currently use two outside laboratories.

We perform a geometric mean for the results for each of the tests done either in our laboratory or from an outside laboratory.

We found that a deviation of 15% or more gives a good estimate of the low level and the high level results for a test. If the levels exceed the designated extremes the physician will discuss the possible reasons for the results. Laboratory tests are the best means of documenting trends. A probable "trend" is a value that is 1. above or below <> ranges set in Highlights page, 2. according to the average column there, if 3. the level has been found on at least two consecutive visits on the 6 part summary. A trend is present if there are 3 consecutive values.

In-house test results and/or ranges follow those of the test manufacturer and the regulatory recommendations. Our laboratory is certified by COLA, a regulatory board acting on behalf of the federal government, which reviews our eligibility for continued certification every two years in accordance with the regulations of the U.S. Clinical Laboratory Improvement Amendments (CLIA). We have maintained continuous certification since 1993, the first year it was required.

Where appropriate, a footnote is referenced. Footnotes are contained in the Notes section.

RPR	Laboratory Average
RPR NEG 0 Qualitative Tests for syphilis, [1] RPR TITER 1.00 0 0 Ratio Ratio to negative Syphilis test. FLUORESCENT TREP AB NEG 0 0 Visual Test for tuberculosis AFB STAIN NEG 0 0 Culture Confirms prior Syphilis AFB STAIN NEG 0 0 Culture Confirms tuberculosis AFB-CULT NEG 0 0 Culture Growth confirms Tuberculosis AFB-ID NEG 0 0 Culture Growth confirms Tuberculosis AFB-ID NEG 0 0 Qualitative Test for Chlamydia NEISSERIA FORM PAP NEG 0 0 Qualitative Test for Chlamydia NEISSERIA FROM PAP NEG 0 0 Qualitative Test for Chlamydia NEG NEG NEG NEG POS Qualitative Test for Techal Chlamydia LYME WB IGG NEG NEG NEG POS Culture Det	Infectious Disease
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HIV-2 WB . NEG NEG POS Qualitative Identifies HIV-2 presence	
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HIV PHENOSENSE . NEG NEG POS Detection Identifies HIV mutations	
HLA-B 5701 . NEG NEG POS Detection Confirms allergy to Abacavir	
TROFILE . NEG NEG POS Qualitative Presence of CCR5 and CXCR4 genes	
HIV INTEGRASE . NEG NEG POS Qualitative Resistance to RaltegravirViral Disease	
IMMUNOBLOT . NEG NEG POS Western Blot HIV Western Blot	
UNIGOLD HIV AB NEG NEG POS Qualitative Rapid HIV Antibody detection	
ORAQUICK HIV AB NEG NEG POS Qualitative Rapid HIV Antibody detection	
P24-ANTIGEN . NEG NEG POS Marker for level of viral load.	
HTLV 1&2 . NEG NEG POS Presence of retroviruses 1 & 2	NEG
MONONUCLEOSIS NEG NEG POS Qualitative Tests for Mononucleosis virus presence.	
EBV EARLY ANTIGEN IGG . 10.5 8.90 11.0 u/mL Epstein-Barr antigen previously present[7]	
EBV NUCLEAR ANTIGEN IGG . 20.0 18.0 22.0 u/mL Epstein-Barr antigen previously present [7]	
EBV IGG VCA . 20.0 17.9 22.0 u/mL Past Epstein Barr virus previously present [7]	
EBV IGN VCA. 40.0 36.0 44.0 u/mL Epstein-Barr viral capsid antigen [7]	
CYTOMEGALO VIRUS IgG . 1.40 0 1.72 IV Test for past infection	

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STANDARDS OF MEASUREMENT IN OUR LABORATORY

Laboratory 15% Below 15% Above Test Name **Test Rationale** Average Lab Avg. Lab Avg.Viral Disease CYTOMEGALO VIRUS IgM . 0.46 0 30.0 IV Antibody test for current infection[2] Antibody test for Herpes virus presence. HSV 1&2 IGM. 0.71 0 0.81 IV Antibody for past HSV infection (oral) [7] Antibody for past HSV infection (genital) [7] HERPES 1 IGG . 0.90 NEG 1.10 HERPES 2 IGG. NEG 0.90 1.10 VARICELLA IgG. NEG 0 POS ISR Level of Herpes Zoster past antibodies VARICELLA IgM. 0.43 0 0.91 ISR Level of Herpes Zoster present antibodies CULT: HSV-SKIN . NEG NEG POS Culture Confirms HSV skin. CULT: HSV-VAGINAL. NEG NEG POS Confirms HSV Vaginal Culture INFLUENZA A NEG POS NEG/POS Tests for Influenza Type A (possible H1N1). Unknown INFLUENZA B NEG POS NEG/POS Tests for Influenza Type B. 2009 INFLUENZA (H1N1). NEG POS Test for exposure to H1N1 virus Part of H1N1 detection tests. INFLUENZA A RNA. NEG ..Fungal Disease TOXOPLASMOSIS IGG. 0.23 0 6.40 IU/mL Past Toxoplasmosis infection. [7] TOXOPLASMOSIS IGM . 0.90 IU/mL Present Toxoplasmosis infection 7.45 0 Present Cryptococcal Infection CRYPTOCOCCUS ANTIGEN . NEG 0 VisualNutrition CHOLESTEROL 172 145 196 mg/dL Hi=Heart disease/fat diets. TRIGLYCERIDES 130 mg/dL Hi=Fat diet/heart disease 118 0 Lo-suggests heart disease risk if low. HDL CHOLESTEROL 44.7 60.5 IU/L 51.7 VITAMIN D OH-25. 18.8 25.4 ng/mL Food/Sun ray absorption capability. 243Metabolic System Hi=gout/metabolic disorder/rich diet URIC ACID 5.40 6.21 mg/dL CALCIUM 9.39 8.92 10.7 mg/dL Lo=Deficiency/Vitamin D? [3] CORRECTED CALCIUM~ 9.10 7.74 10.4 calculated Calcium correction due to Albumin. EST. CA ION~ 5.50 4.68 6.33 calculated Estimates circulating calcium PHOSPHORUS 3.39 2.85 3.86 mg/dL Low in kidney disease. POTASSIUM 4.18 3.53 4.78 Deficiency & Prescription need. meq mmol/L SODIUM 119 162 Lo=Deficiency/High=Dietary excess. 141 CHLORIDE 120 107 88.8 mmol/L Lo=Deficiency (goes with Sodium). CARBONATE (CO2) 26.0 33.2 meq/L Lung defects MAGNESIUM 1.84 1.50 2.03 mg/dL May show nutritional deficiency.Endocrine System GLUCOSE 100 84.0 114 mg/dL Blood sugar content. URINE-GLUCOSE 1000 mg/dL Tests sugar/diabetes NEG FASTING GLUCOSE TOLERANCE 65.0 110 mg/dL Obtains Fasting Glucose baseline. mg/dL GLUCOSE-30 MINUTES Measures initial increase after glucose beverage. 100 140 GLUCOSE-60 MINUTES 120 140 mg/dL Impaired 140-200 / Diabetic @30 mins +200 Diabetic +200 w/1 intervening value +200 GLUCOSE-90 MINUTES 70.0 mg/dL 120 GLUCOSE-120 MINUTES 70.0 110 mg/dL Assess rate of drop in glucose. Diabetic +180 HEMOGLOBIN A1C Blood sugar over last 2-3 months. [4] 5.78 6.64 UIU/mL INSULIN 3.95 3.40 7.30 Insulin level in blood. C-PEPTIDE . 2.24 2.74 3.70 ng/mL Marker for insulin & beta cell level. PTH INTACT. 31.8 31.2 42.2 pg/mL Calcium metabolism.Vit.D.relations TOTAL T4. 8.69 5.69 7.69 ug/mL High Thyroxine with hyperthyroid function High Triiodothyronine with hyperthyroid TOTAL T3 0.06 1.17 1.58 ng/mL ng/dL THYROID FREE T4. 1.19 1.07 1.44 Circulating Thyroid T4 hormone MICROSOMAL AB (TPO) . 14.3 12.2 14.6 IU/mL Thyroiditis ANTI-THYROGLOBULIN IU/mL 18.0 26.8 Thyroiditis THYROID STIM. HORMONE 1.53 1.76 IU/mL Monitors Hypothryroid status [5] TESTOSTERONE (TOTAL) 469 399 539 ng/mL Level in blood. TESTOSTERONE (FREE). 7.16 6.12 8.28 calculated Calculated amount not active. TeBINDING GLOBULIN. Lo/High-Ovarian/Testicular problem 24.4 29.4 nmol/L 21.7 CORTISOL . 13.7 11.5 Adrenal gland function. 8.48 mcg/dL LEUTINIZING HORMONE. 4.00 3.27 Pituitary/Menopausal Disorder 4.43 mIU/mL FOLLICLE STIM HORMONE. Pituitary/Menopausal Disorder 4.45 4.19 5.67 mIU/mL PROLACTIN. 6.70 7.90 Pituitary Disorder 5.84 ng/mL ESTRADIOL. Endocrine Disorder 34.8 47 1 53.6 pg/mL Endocrine DisorderImmune System TOTAL PROTEIN . g/dL 7 35 6.25 8 50 Amount in blood ALBUMIN 4.26 3.62 4 89 g/dL Transports medicines. Stabilizes blood volume. ALPHA-1-GLOBULIN . 0.30 0.26 0.35 g/dL High in inflammation. Low in COPD/emphysema. ALPHA-2-GLOBULIN 0.71 0.60 0.82 g/dL High in hepatitis/diabetes/G.I.disease

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g/dL

0.84

0.58

BETA 1 FRACTIONATION.

Binds iron/fats/infections C4-5/IgA) (Late=C3&IgAG

STANDARDS OF MEASUREMENT IN OUR LABORATORY

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Test Name	Laboratory Average	15% Below Lab Avg.	15% Above Lab Avg.	Units*	Test Rationale
Immune	System				
GAMMA-GLOBULIN .	1.14	0.97	1.31	g/dL	High in infection/inflammation. Early=DEMA/FB/C
TOTAL GLOBULIN .	3.05	2.59	3.51	g/dL	Component of protein.
A/G RATIO .	1.39	1.18	1.59	ratio	Albumin/Globulin content of Protein.
M-SPIKE .	0	0	1.16		Sometimes a cancer marker.Protein. [7]
IMG-G	1064	876	1185	mg/dL	Hi w/chronic inflammation/infection.
IMG-A	205	179	242	mg/dL	Fights infection of specific systems
IMG-M	93.4	80.5	109	mg/dL	Hi in recent infection/inflammation.
IgG 1.	590	490	1140	mg/dL	Hi suggests B cell/TH42 response [7]
IgG 2.	273	150	640	mg/dL	Hi suggests B cell/TH41 response [7]
[gG 3 .	30.4	20.0	110	mg/dL	Hi suggests TH41 response [7]
gG 4 .	37.7	8.00	140	mg/dL	Hi suggests B cell/TH41 response. [7]
σF	204	0	204	IU/mL	High in allergic states
gE C'3 COMPLEMENT	120	107	20 4 144	mg/dL	Low=Skin disorders/High=Infections
C'4 COMPLEMENT	31.3	25.0	33.8	mg/dL	Low with immune complex problem.
BETA-2 MICROGLOBULIN .	1.85	0	2.14	mg/L	Hi=kidney/immune problem
2 .meno ebobethi.				_	
CD4.%.	25.6	22.7	30.8	%	Low in immune deficiency or HIV.
CD4 (HELPER) CELLS~	462	400	541	cells/uL	CD4s (T4s) are 'Director' cells. [6]
CD8 SUPPRESSOR CELLS~ CD4/CD8 RATIO~	770	615	833	cells/uL	CD8s (T8s 0 are Suppressor cells)
	0.60	0.55	0.75 47.3	Ratio %	Proportion of CD4 (T4) to CD8 (T8) cells.
CD8.% . MATURE T CELL%~	42.7 74.8	35.0 63.4	47.3 85.7	% %	Fight inflammation caused by viruses or Older T cells.
MATURE T CELL%~ MATURE T CELLS .	1348	1114	1508	cells/uL	CD4s+CD8s+T killer cells.
B CELL %.	10.4	8.73	11.8	%	Hi suggests B cell/TH41 response producing cells
B CELL % . B CELL COUNT~	188	154	208	cells/uL	Number of B cells
EST. N.K. CELLS %~	21.3	18.5	25.1	%	Natural Killer Cells
CADCINOEMDDVONIC AC	1.24	0	1.20	na/mT	May datest tumors
CARCINOEMBRYONIC AG . MEASLES .	1.24 3.63	3.88	1.29 5.25	ng/mL IV	May detect tumors Test for immunity to measles.
MUMPS AB.	2.24	3.84	5.20	IV	Test for immunity to measies.
RUBELLA .	38.8	0.04	10.0	IU/mL	Test for immunity to munips Test for immunity to rubella
G6PD .	14.6	7.00	20.0	U/g Hb	Hemolytic & allergic responses.
Blood Syste		0.70	1.00		Yourselves and blood with
RETICULOCYTE COUNT .	1.19 4.52	0.79 3.93	1.06 5.32	count	Immature red blood cells Low levels indicate anemia.
RED BLOOD CELLS HEMATOCRIT	4.52	34.8	5.32 47.1	10 /mm %	Ratio of red cells to fluid.
HEMOGLOBIN	13.6	34.8 11.8	16.0	% g/dL	Reflects oxygen in blood.
WHITE BLOOD CELLS	5893	5025	6799		These respond to infection.
NEUTROPHIL %	54.6	46.1	62.3	%	These respond to hirection. These respond to bacteria.
NEUTROPHILS (ABS)~	3220	2723	3683	count	Number of cells
MONONUCLEAR (ABS)~	2674	2302	3114	count	# Cells with nucleus of mononuclear or white cells
MONONUCLEAR %~	45.4	38.9	52.7	%	% Cells with nucleus of mononuclear or white cells
EOSINOPHIL %	2.50	0	2.85	%	First allergic response.
BASOPHIL %	0.66	0	0.81	%	White cell baseophilic granules
MONOCYTES %	6.99	0	7.95	%	Become macrophagic scavengers.
ATYPICAL LYMP%	1.19	0	1.66	%	% of Cells with defects
TOTAL LYMPHOCYTES .	1804	1494	2022	count	Number of virus fighting cells
LYMPHOCYTE %	32.2	26.6	36.0	%	Percentage of total lymphocytes.
LYMPHOCYTE SUBSET	1899	1632	2208	count	Lymphocytes measured at this office.
PLATELETS	222	196	265	10 9th/L	Lo=Bleeding. Hi=Clotting.
SERUM IRON	71.0	56.7	76.7		Low = anemia. Hi = hemolysis
RON BINDING CAPACITY	307	244	331		Low = chronic Dx. Hi = Low iron.
RON BINDING RATIO~	0.23	0.20	0.27		Relationship of active to inactive iron.
ΓRANSFERRIN	251	207	279	mg/dL	/Controls & blocks iron entry.
FERRITIN .	76.0	54.4	73.6	ng/mL	Permits Iron storage / Acute phase reactant.
RBC FOLIC ACID .	18.0	15.6	21.1	ng/mL	Nutrional/hematologic Disorder cause
VITAMIN B12 RIA .	560	480	649	pg/mL	Lo level=Severe anemia
PROTHROMBIN TIME .	14.4	13.0	17.6	seconds	Monitors extrinsic clotting path. inc. VII/Warfari
PROTHROMBIN INR .	1.40	1.31	1.78	IU	Pt. PT/mean normal PT [Thrombosis=2.0-3.0]
PART. THROMB. TIME . Psychologie	31.3	27.9	37.7	seconds	Monitors intrinsic clotting path. except VII/Hepar
LITHIUM LEVEL .	0.37	0.31	0.42	mmol/L	Tests for therapeutic level of Lithium
VALPROIC ACID (DEPAKOTE) .	66.4	69.7	94.3		Tests for Therapeutic level of Depakote
Nervous Sy	stem				

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Test Name	Laboratory Average	15% Below 1 Lab Avg.		Units*	Test Rationale
DII ANTINI EVEI	Nervous System 5.82	2.27	3.07		Tagte for Thoronoutic Level of Dilectic
DILANTIN LEVEL .		2.27	3.07		Tests for Therapeutic Level of Dilantin
DIGOXIN .		1.48	2.00	ng/mL	Used to monitor medication levels
LDL DIRECT	112	0	116	mg/dL	Helps evaluate cholesterol level.
ULTRA CRP	1.22	0	1.65	mg/L	Hi with heart Inflammation/heart disease.
CK-MB	NEG	NEG	POS	ng/mL	Detects Heart Attack
MYOGLOBLIN TROPONIN	NEG NEG	NEG NEG	POS POS	ng/dL ng/dL	Detects Heart Attack Detects Heart Attack
		NEO	103	lig/uL	Detects Heart Attack
STREP ANTIBODY	NEG	NEG	POS	Qualitative	Tests for infection / antibodies
STREP ANTIGEN	NEG	NEG	POS	QUALITATIVE	Tests for active strep presence.
CULTURE - THROAT .	MIXED	0	0	QUALITATIVE	Identifies organism growth.
H. PYLORI	0.54	NEG	POS		Ulcer causing bacteria.
SGOT(AST)	23.1	0	27.2	IU/L	Hi=Tissue inflammation.
APRI SCORE	0.41	0	1.00	' '	Formula to estimate liver fibrosis
SGPT(ALT) alkaline dhosdhata	22.4 ASE 59.1	0	25.4 70.1	IU/L IU/L	Hi=liver malfunction. Hi=Liver/bone disorders.
ALKALINE PHOSPHATA TOTAL BILIRUBIN	ASE 59.1 0.73	0	0.84	IU/L IU/L	Tests for bile build up.
BILIRUBIN IN URINE	0.73	U	0.04	mg/dL	Liver or red cell problem
ALBUMIN	4.38	3.66	4.95	g/dL	Transports medicines. Stabilizes blood volume.
GGPT	26.2	0	30.1	u/L	Evaluates liver malfunction.
GLOBULIN~	2.60	1.96	2.65	g/dL	Protein in antibodies
TOTAL PROTEIN	6.69	5.59	7.56	Scale-Refractometer	High in disease states.
UROBILINOGEN	0.20	0	12.0	mg/dL	Liver/red cell problem
HEDATITIC A ICM	NEC	NEC	DOG	On distriction	Desiries ICM second discount
HEPATITIS A IGM . HEPATITIS A AB IGG .	NEG NEG	NEG NEG	POS POS	Qualitative Qualitative	Positive IGM means active disease. Tests for immunity
HEPATITIS A AB IGG . HEPATITIS B ANTIGEN		NEG	POS	Qualitative	Test for active disease
HEPATITIS B PCR LOG		0	0	log value	Numerical value.?????
HEPATITIS B PCR QUAI		301	408	IU/mL	Hepatitis B Viral Load in 1000s
HEPATITIS B SUR AB .	NEG	0	10.0	Quantitative	Value 10+=Immunity.
HEPATITIS B CORE AB		NEG	POS	Qualitative	Type of antibody (core)
HEPATITIS C ANTIBOD		NEG	POS	Qualitative	Presence of Hepatitis C
HEPATITIS C PCR QUAN		0	POS	IU/mL	Number of Hepatitis C antigens.
HEPATITIS Be ANTIGEN		0	POS	Qualitative	The infectious particle of Hepatitis B
HEPATITIS Be ANTIBOI HEPATITIS C GENOTYP		0	POS 0	Qualitative Qualitative	The infectious particle of Hepatitis B ???? Genotype of Hepatitis C.
ALPHA FETOPROTEIN .		0	15.0	ng/mL	May identify liver cancer.
AMYLASE	53.4	0	58.1	IU/mL	Hi with pancreatitis or mumps.
LIPASE	59.8	0	51.8	u/L	Hi=Pancreas/gallbladder/inflammation
STOOL OCCULT BLOOI OVA AND PARASITES .		0	0	Qualitative	Test for blood in stool. GI parasite presence
O&P CRYPTOSPORIDIA		0	0	Qualitative	GI parasite presence
LAMBLIA GIARDIA AN		0	0	Qualitative	GI parasite presence
CULTURE-THRUSH .	0	0	0	Culture	
TRANSGLUTAMINASE	IGA . 0.75	0.11	0.63		Celiac Disease Panel
GLIADIN IGG .	2.24	2.00	4.00		Celiac Disease Panel
GLIADIN IGA .	1.01	0.90	1.20		Celiac Disease Panel
RETICULIN TITER .					Celiac Disease Panel[7]
RETICULIN IGA .	NEC	NEC	DOG	Cultura	Celiac Disease Panel[7]
CULTURE-STOOL .	NEG Genito-Urinary System	NEG	POS	Culture	Infective GI organisms.
BLOOD UREA NITROGE		0	14.8	mg/dL	Reflects kidney disorders.
CREATININE	0.94	0	1.04	mg/L	Detects kidney damage.
GLOM. FIL. RATE~	100	89.7	121	calculated	Lo=Kidney dysfunction
BLOOD IN URINE	0	0	0	mg/dL	Urinary tract bleeding.
LEUKOCYTES IN URINI		0	500	leu/ul	Hi=infection
PROTEIN IN URINE	0	0	500	mg/dL	Possible kidney disease
NITRITE	NEG	NEG	POS	mg/dL	Possible urinary tract infection
PH-URINE	6.02	5.12	6.92	/41	Indicates Urine Acidity & alkalinity
KETONES IN URINE SEDIMENT URINE	0	NEG 0	+++	mg/dL	Detection of Ketones in urine. Cells or matter in urine.
MICROALBUMIN	31.9	0	37.8	scale 0-100	Albumin in Urine
HCG (PREGNANCY): UF	RINE NEG	NEG	POS	Qualitative	Determination of pregnancy.

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Test Name	Laboratory 1 Average	5% Below 1 Lab Avg.		Units*	Test Rationale
Genit	o-Urinary Syster	n			
HCG (PREGNANCY): BLOOD .	NEG	0	2.00	titer	Determination of pregnancy.[7]
PROSTATE SPECIFIC AG	1.09	0	1.25	ng/mL	Hi=prostatitis/prostate mass
PROSTATIC ACID PHOS	0.50	0	0.68	u/L	May detect prostatic growth.
TOTAL ACID PHOS	2.09	0	3.05	u/L	Levels from various organs.
CANCER ANTIGEN 125.	9.60	0	30.2	U/mL	Ovarian Cancer Indicator [7]
SPECIFIC GRAVITY-URINE	1.02	0.87	1.17	Refractometer scale	Detects Dehydration
CULTURE-URETHRAL .	NEG	NEG	POS	Qualitative	Infective organisms
YEAST-URETHRAL .	NEG	NEG	POS	Qualitative	Identifies fungi
UREPLASMA2 VAGINAL .	NEG	NEG	POS	Culture	Presence of infection
UREPLASMA1 VAGINAL .	NEG	NEG	POS	Culture	Presence of infection.
UREPLASMA URETHRAL .	NEG	NEG	POS	Culture	Presence of infection
CULTURE-VAGINAL .	NEG	NEG	POS	Qualitative	Identifies infective organisms
YEAST-VAGINAL .	NEG	NEG	POS	Qualitative	Identifies infective organisms
CULTURE-URINE .	NEG	NEG	POS	Qualitative	Identifies infective organisms
PAP SMEAR .	NEG	NEG	POS	Qualitative	Detection of abnormal/cancerous cells: cervix
THINPREP PAP .	NEG	NEG	POS	Qualitative	Detection of abnormal/cancerous cells: cervix
HPV THINPREP PAP .	NEG	NEG	POS	Qualitative	Detection of HPV: cervix
NON-GYN CYTOLOGY .	NEG	NEG	POS	Qualitative	Detection of abnormal/cancerous/HPV cells: rectum
CALCULUS ANALYSIS .	NEG	0	0	Detection	Composition of kidney stones
Skin S	System				
CULTURE-WOUND .	NEG	NEG	POS	Qualitative	Identifies infective organisms.
Musc	le & Skeleton			-	-
LDH	128	0	143	IU/L	Hi=Organ cell inflammation.(Isoenzyme 2=normal)
CPK	116	0	130	IU/L	Hi=muscle inflammation.
R.A. ANTIBODY	NEG	NEG	POS		Tests for rheumatoid arthritis.
CULTURE-JOINT .	NEG	NEG	POS	Culture	Identifies infective organisms.

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STANDARDS OF MEASUREMENT IN OUR LABORATORY FOOTNOTES AND GLOSSARY OF UNITS OF MEASUREMENT

The Standards of Measurement in Our Laboratory was implemented in November 10, 2009 and is reviewed annually in January. Updates are made as needed throughout the year. Previous versions are maintained in the Laboratory Manual.

Footnotes: $^{[1]}$ RPR Titer is clinically reported as 1:2, 1:4, 1:8, 1:16, etc.

For the purpose of averaging the reference values used are the 2, 4, 8, 16, etc.

- ^[2]The outside laboratory changed the range for CMV IGM and the ranges above reflect the reported ranges of the laboratory used.

 [3] Low Calcium is calculated at 5% and not the standard 15% for the purposes of clinical reporting.

- [4] The low level of Hemoglobin A1C is not used.

 [5] The ranges formerly reported for Thyroid Stimulating Hormone were found to be in error. Corrections to the present ranges were changed in January 2013.

 [6] CD4 (Helper) cells laboratory average of 462 applies to HIV patients only. the high level for non-HIV patients is 1000.

 [7] Outside lab tests for which there is not sufficient testing to develop an in-house standard. The performing laboratory values are used for reporting results.

*Glossary

10³/mm³Thousand per cubic millimetermg/Lmilligrams per Liter106/LiterMillion per Litermeqmilliequivalents.
1000's/mL Test result is converted by 1000 per milliliter. mmol/L MicroMoles per Liter
Calculated The results are calculated based on a formula. ng/mL nanograms per milliliter
cells/uL The number of cells measured per microliter. pg/mL picograms per microliter.
Count Actual count of specific cell types. Percentage % the result is reported as a percentage.
Culture Test results reported as growth/non-growth. Qualitative Test results reported as non-numeric result
Detection Test results reported as Not Detected/Detected. Ratio Test reports a numeric proportion of one element to another.
Estimated Calculation of elements to arrive at the result. Scale Test reports results in a range, usually starting with 0 (negative).
g/dL grams per deciliter. seconds time for cells to clot.
IU International Units titer a ratio.
IU/L International units per Liter U/g Hb Units per gram of hemoglobin.
IU/mL International Units per milliliter u/L units per liter.
ISR Immune Status Ratio ug/mL micrograms per milliliter.
IV Index Value u/mL Units per milliliter
mcg/dL micrograms per deciliter. UIU/mL microInternational Units per milliliter.
meq/L millitequivalnts per Liter Visual Test reports results based on a visually observed standard.
mg/dL Milligram per deciliter Western Blot Test reports results non-reactivity/reactivity of defined bands.