



Hematology Report

Specimen: T6316
 Reporting Lab: DFCI
 Ordering Provider: TREON, STEVEN

Collected: 09/11/2007 11:20
 Received : 09/11/2007 11:41

Test Description	Result	Flags	Ref. Range	Units
PLASMA CELLS (BWHFLOW)	PEND			
WBC COUNT	9.4	H	(3.8-9.2)	(K/UL)
RBC COUNT	3.53	L	(4.2-5.6)	(M/UL)
HEMOGLOBIN	10.2	L	(13.2-16.7)	(GM/DL)
HEMATOCRIT	30.4	L	(38.4-48.2)	(%)
MCV	86.0		(81-97)	(FL)
MCH	29.0		(27.6-33.9)	(PG)
MCHC	33.7		(33.3-35.4)	(%)
RDW	14.9	H	(11.5-14.8)	(%)
PLATELET	521	H	(155-410)	(K/UL)
RETIC	0.6		(0.6-2.8)	(%)
POLY	85	H	(49-79)	(%)
EO	2		(0-6)	(%)
LYMPHS	7	L	(11-38)	(%)
MONO	6		(5-12)	(%)
ABS POLYS	7.99	H	(2.0-6.4)	(K/UL)
ABS EOS	0.19		(0.0-0.4)	(K/UL)
ABS LYMPHS	0.66		(0.5-2.6)	(K/UL)
ABS MONOS	0.56		(0.2-0.9)	(K/UL)
RBC MORPHOLOGY	SLIGHT ANISOCYTOSIS SLIGHT HYPOCHROMIA			
WBC MORPHOLOGY	HYPERSEGMENTED POLYS			
PLT MORPHOLOGY	INCR			

Flag Key:	L (Abnormally Low)	H (Abnormally High)	C (Corrected)
	LL (Critically Low)	HH (Critically High)	
Prior to 07/29/2004	** (Critically Abnormal)	C (Corrected)	



Chemistry Report

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Test Description	Result	Flags	Ref. Range	Units
ADULT DIRECT/INDIRECT COOMBS AT BWH	SEE BICS REPORT			
B12 (Cyanocobalamin)	PEND			
COLD AGGLUTININS	PEND			
FOLATE	PEND			
FREE T4	PEND			
CHOLESTEROL	PEND			
TRIGLYCERIDES	PEND			
HDL CHOLESTEROL	PEND			
LDL CHOLESTEROL	PEND			
VLDL	PEND			
SERUM PROTEIN PANEL (IFE & PES)	PEND			
VISCOSITY	PEND			
SODIUM	139		(136-142)	(mmol/L)
POTASSIUM	3.7		(3.5-5.0)	(mmol/L)
CHLORIDE	99		(98-108)	(mmol/L)
CO2	28		(23-32)	(mmol/L)
BUN	14		(9-25)	(mg/dL)
CALCIUM	9.3		(8.8-10.5)	(mg/dL)
CREATININE	1.0		(0.7-1.3)	(mg/dL)
IRON, SERUM	31	L	(49-181)	(ug/dL)
LDH	81	L	(107-231)	(U/L)
TOTAL PROTEIN	9.2	H	(6.0-8.0)	(g/dL)
ALBUMIN	3.5	L	(3.7-5.4)	(g/dL)
GLOBULIN	5.7	H	(2.3-4.2)	(G/DL)
SGOT	9		(9-30)	(U/L)
SGPT	7		(7-52)	(U/L)
ALK P'TASE	54		(36-118)	(U/L)
BILI, TOTAL	0.3		(0.2-1.2)	(mg/dL)
BILI, DIRECT	0.1		(0.1-0.3)	(mg/dL)
TSH	1.60		(0.5-5.0)	(mIU/L)
BETA 2 MICROGLOBIN	2.7		(0-2.7)	(mg/L)



Chemistry Report

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 Reporting Lab: DFCI
 Ordering Provider: TREON, STEVEN

Collected: 09/11/2007 11:20
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Test Description	Result	Flags	Ref. Range	Units
TOTAL IRON BINDING CAPACITY	276		(250-450)	(ug/dL)

TEST PERFORMED ON SERUM

Flag Key:	L (Abnormally Low)	H (Abnormally High)	C (Corrected)
	LL (Critically Low)	HH (Critically High)	
Prior to 07/29/2004	** (Critically Abnormal)	C (Corrected)	



Chemistry Report

Specimen: 31936 Type: BLOOD
Reporting Lab: BWH
Ordering Provider: TREON, STEVEN P. M.D. PH.D.

Collected: 09/11/2007 12:07
Logged In: 09/11/2007 12:07

Test Description	Result	Flags	Ref. Range	Units
TOT PROT	9.0	*	(6.0-8.0)	(g/dL)
[ALBUMIN	PEND		(3.2-5.3)	(g/dL)
ALPHA 1	PEND		(0.1-0.4)	(g/dL)
ALPHA 2	PEND		(0.5-1.0)	(g/dL)
BETA	PEND		(0.6-1.2)	(g/dL)
GAMMA	PEND		(0.8-1.7)	(g/dL)
IFX	PEND			
IGG	1100		(700-1600)	(mg/dL)
IGA	56	*	(70-400)	(mg/dL)
IGM	3710	*	(40-230)	(mg/dL)

Flag Key: * (Abnormal) # (Significant Change) C (Corrected)



Chemistry Report

Specimen: 34553
 Reporting Lab: BWH
 Ordering Provider:

Type: BLOOD

Collected: 09/12/2007 10:29
 Logged In: 09/12/2007 10:29

Test Description	Result	Flags	Ref. Range	Units
GLUCOSE	156	*	(54-118)	(mg/dL)
UREA N	13		(9-25)	(mg/dL)
CREATININE	1.05		(0.7-1.3)	(mg/dL)
eGFR	75			
	<i>(Abnormal if <60 mL/min/1.73m2 If patient is black, multiply by 1.21)</i>			
SODIUM	138		(136-142)	(mmol/L)
POTASSIUM	4.8		(3.5-5.0)	(mmol/L)
CHLORIDE	101		(98-108)	(mmol/L)
TOTAL CO2	24		(23-32)	(mmol/L)
ANION GAP	13		(3-15)	(mmol/L)
CALCIUM	9.5		(8.8-10.5)	(mg/dL)
MAGNESIUM	1.8		(1.8-2.5)	(mg/dL)

Flag Key: * (Abnormal) # (Significant Change) C (Corrected)

Laboratory

Test Name	BWH 09/12/2007 10:29	DFCI 09/11/2007 11:41
WBC	14.09 (*)	9.4 (H)
RBC	3.32 (*)	3.53 (L)
HGB	9.4 (*)	10.2 (L)
HCT	28.3 (*)	30.4 (L)
MCV	85.2	86.0
MCH	28.3	29.0
MCHC	33.2	33.7
PLT	601 (*)	521 (H)
RDW	13.8	14.9 (H)

Laboratory

Test Name	BWH 09/12/2007 10:29	DFCI 09/11/2007 11:41
NA	138	139
K	4.8	3.7
CL	101	99
CO2	24	28
BUN	13	14
CRE	1.05	1.0
EGFR	75 See below (1)	
(1) (Abnormal if <60 mL/min/1.73m ² If patient is black, multiply by 1.21)		
GLU	156 (*)	
ANION	13	

Laboratory

Test Name	BWH 09/12/2007 10:29	BWH 09/11/2007 12:07	DFCI 09/11/2007 11:41
CA	9.5		9.3
MG	1.8		
TBILI			0.3
DBILI			0.1
TP		9.0 (*)	9.2 (H)
ALB			3.5 (L)
GLOB			5.7 (H)
LDH			81 (L)

Laboratory

Test Name	DFCI 09/11/2007 11:41
ALT/SGPT	7
AST/SGOT	9
ALKP	54
TBILI	0.3
DBILI	0.1

Laboratory

Test Name	DFCI 09/11/2007 11:41
FE	31 (L)
TIBC	276
(1)	See Below (1)
TEST PERFORMED ON SERUM	
B12	PEND
FOLATE	PEND

Laboratory

Test Name	DFCI 09/11/2007 11:41
TSH	1.60
FREET4	PEND

Laboratory

Test Name	DFCI 09/11/2007 11:41
%LYMPH	7 (L)
%MONO	6
%EOS	2
%POLY-M	85 (H)
W-COM	HYPERSEGMENTED POLYS

Laboratory

Test Name	BWH 09/11/2007 12:45
CD3%	78 See Below (1)
(1) NEW REFERENCE RANGES EFFECTIVE 2/26/2007 PREVIOUS RANGES CD3: 63-83 CD19: 5-21 CD4: 40-58 CD8: 11-33 CD16/56: 3-21	
CD4	708
CD4%	55
CD4/CD8	2.89
CD8%	19
CD16+56%	18
CD19%	3 (*)
CD45%	99

Laboratory

Test Name	BWH 09/11/2007 12:07	DFCI 09/11/2007 11:41
IF	PEND	
B2M		2.7
PRTNA		PEND

Laboratory

Test Name	DFCI 09/11/2007 11:41
RETIC	0.6

Laboratory

Test Name	DFCI 09/11/2007 11:41
RCM-M	See Below (1)
(1)	
SLIGHT ANISOCYTOSIS	
SLIGHT HYPOCHROMIA	
P-COM	INCR

Laboratory

Test Name	DFCI 09/11/2007 11:41
ALYMP	0.66
AMONS	0.56
AEOSN	0.19
ANEUT-M	7.99 (H)
APLASMA	PEND



Pathology Report

Accession Number: BS07W38519 Report Status: Final
Type: Surgical Pathology
Specimen Type: Consult material
Procedure Date:
Ordering Provider: STEVEN P. TREON M.D., PH.D.

CASE: BS-07-W38519
PATIENT: STEVEN KIRSCH

Resident: Marian H Harris, M.D., Ph.D.
Pathologist: Jon C Aster, M.D., Ph.D.

PATHOLOGIC DIAGNOSIS:

CONSULT SLIDES FROM STANFORD UNIVERSITY MEDICAL CENTER, STANFORD, CA

BONE MARROW BIOPSY, ASPIRATE SMEARS, AND PERIPHERAL BLOOD SMEAR (S07-25632;
7/3/07):

Moderately hypercellular marrow (20% fat).
Approximately 15% of the cellularity is comprised of a nodular infiltrate of lymphocytes, lymphoplasmacytoid forms and plasma cells.
Frequent Dutcher bodies are seen.
Mast cells are admixed.
Of the remaining cellularity:
Erythroid elements are present in normal proportion and exhibit maturation.
Myeloid elements are present in normal proportion, exhibit maturation and include increased number of eosinophilic forms.
Megakaryocytes are present in normal numbers.
By report, iron stain performed at the referring institution revealed trace stainable iron.
Ringed sideroblasts are not seen.
Bone trabeculae exhibit focal osteoblastic activity, and are unusually thick.

The aspirate smear findings are of cellular, spicular smears showing maturing trilineage hematopoiesis with increased numbers of lymphocytes, plasma cells and lymphoplasmacytoid forms. A differential count (200 cells) shows: 38% myeloid forms, 20% erythroid forms, 4% eosinophils, 7% plasma cells, and 31% lymphocytes.

The peripheral blood smear shows rouleaux formation.

By report, flow cytometric analysis performed at the referring institution showed kappa restricted populations of both B cells and plasma cells (which together comprised approximately 7% of CD45 positive cells).

NOTE:

The findings are consistent with involvement by a LYMPHOPLASMACYTIC LYMPHOMA. The unusually thick bone trabeculae could be a variant of normal or represent an unusual paraneoplastic change related to the patient's lymphoma. Correlation with clinical findings is suggested.

(Clinical: Elevated IgM).

CLINICAL DATA:

History: ? Waldenstrom's Macroglobulinemia

TISSUE SUBMITTED:

Consult slides.

GROSS DESCRIPTION:

Received from Stanford University Medical Center, 300 Pasteur Drive, Room H-2110, Stanford, CA 94305 are four glass slides labeled "S07-25632", corresponding to a bone marrow biopsy (H&E), aspirate smears (Wright-Giemsa x2), and a peripheral blood smear (Giemsa), from a procedure performed on



Partners HealthCare System, Inc.
BRIGHAM & WOMEN'S HOSPITAL
A Teaching Affiliate of Harvard Medical School
75 Francis Street, Boston, MA 02115

BWH MRN: 222-26-14-6
KIRSCH, STEVEN T
Date of Birth: 12/24/1956
Age: 50y Sex:M

Pathology Report

7/3/07 according to the accompanying surgical pathology report bearing the patient's name.

By his/her signature below, the senior physician certifies that he/she personally conducted a microscopic examination ("gross only" exam if so stated) of the described specimen(s) and rendered or confirmed the diagnosis(es) related thereto.

Final Diagnosis by Jon C Aster M.D., Ph.D., Electronically signed on
8/31/2007