DFCI MRN: 387247 KIRSCH, STEVEN T Date of Birth: 12/24/1956

Age: 50y Sex:M

# **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	Н	(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	Н	(11.5-14.8)	(%)
PLATELET	521	H	(155-410)	(K/UL)
RETIC	0.6		(0.6-2.8)	(%)
POLY	85	H	(49-79)	(용)
EO	2		(0-6)	(용)
LYMPHS	7	L	(11-38)	(୫)
MONO	6		(5-12)	(왕)
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

SLIGHT ANISOCYTOSIS SLIGHT HYPOCHROMIA

WBC MORPHOLOGY

HYPERSEGMENTED

POLYS

PLT MORPHOLOGY

INCR

Flag Key:	L (Ab	onormally Low)	Н	(Abnormally High)	C (Corrected)	
		ritically Low)		(Critically High)	•	
Prior to 07/:	29/2004 *	** (Critically	Abnormal)	C (Corrected)		

DFCI MRN: 387247 KIRSCH, STEVEN T Date of Birth: 12/24/1956

Age: 50y Sex:M

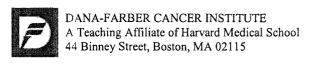
### Chemistry Report

Specimen: T6316

Reporting Lab: DFCI Ordering Provider: TREON, STEVEN

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

Units Test Description Result Flags Ref. Range ADULT DIRECT/INDIRECT SEE BICS REPORT COOMBS AT BWH 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 PEND & PES) VISCOSITY PEND SODIUM 139 (136-142)(mmol/L)(3.5-5.0)(mmol/L)POTASSIUM 3.7 CHLORIDE 99 (98-108)(mmol/L)28 (23 - 32)(mmol/L)CO2 (9-25)(mg/dL) BUN 14 CALCIUM 9.3 (8.8-10.5)(mg/dL) CREATININE (0.7-1.3)(mg/dL) 1.0 IRON, SERUM 31 L (49 - 181)(ug/dL) LDH (107 - 231)(U/L) 81  $\mathbf{L}$ TOTAL PROTEIN 9.2 (6.0-8.0)(g/dL)Η ALBUMIN 3.5 L (3.7-5.4)(g/dL)GLOBULIN 5.7 Η (2.3-4.2)(G/DL) SGOT (9-30)(U/L)SGPT (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)(mq/dL)TSH 1.60 (0.5-5.0)(mIU/L) BETA 2 MICROGLOBIN 2.7 (0-2.7)(mg/L)



**DFCI MRN: 387247** KIRSCH, STEVEN T Date of Birth: 12/24/1956

Age: 50y Sex:M

### **Chemistry Report**

Specimen: T6316 Reporting Lab: DFCI

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

Test Description

Ordering Provider: TREON, STEVEN

Result

Flags Ref. Range Units

TOTAL IRON BINDING CAPACITY

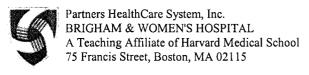
276

(250 - 450)

(ug/dL)

TEST PERFORMED ON SERUM

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



Age: 50y Sex:M

### **Chemistry Report**

 Specimen:
 31936
 Type:
 BLOOD
 Collected:
 09/11/2007
 12:07

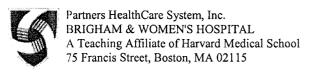
 Reporting Lab:
 BWH
 Logged In:
 09/11/2007
 12:07

Ordering Provider: TREON, STEVEN P. M.D. PH.D.

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)

Printed: 09/12/2007 12:42



Age: 50y Sex:M

# **Chemistry Report**

 Specimen:
 34553
 Type:
 BLOOD
 Collected:
 09/12/2007
 10:29

 Reporting Lab:
 BWH
 Logged In:
 09/12/2007
 10:29

Ordering Provider:

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 (Abnormal if <60 ml If patient is black	75 L/min/1.73m2 k, multiply by 1.21)			
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)

Printed: 09/12/2007 12:42 Page: 1 of 1



Date of Birth: 12/24/1956 Age: 50 yrs. Sex: M

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)



Date of Birth: 12/24/1956 Age: 50 yrs. Sex: M

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 Jelow (1)	
(1)		
(Abnormal if <60 mL/min/1.73m2		
If patient is black, multiply by 1.21)		
GLU	156 (*)	
ANION	13	



Date of Birth: 12/24/1956 Age: 50 yrs. Sex: M

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 GLOB			3.5 (L)
			5.7 (H)
LDH			81 (L)



#### MRN: 22226146 (BWH) KIRSCH,STEVEN T Date of Birth: 12/24/1956

Age: 50 yrs. Sex: M

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



Date of Birth: 12/24/1956 Age: 50 yrs. Sex: M

FE 31 (L)	
TIRC 276	
TIBC See Below (1)	i
(1)	
TEST PERFORMED ON SERUM	
B12 PEND	
FOLATE PEND	



Date of Birth: 12/24/1956 Age: 50 yrs. Sex: M

Test Name	DFCI 09/11/2007 11:41	5	
TSH	1.60		
FREET4	PEND		



Date of Birth: 12/24/1956 Age: 50 yrs. Sex: M

Test Name	4	DFCI 09/11/2007 11:41	0856
%LYMPH		7 (L)	
%MONO		6	
%EOS		2	
%POLY-M		85 (H)	
W-COM		HYPERSEGMENTED POLYS	



Date of Birth: 12/24/1956 Age: 50 yrs. Sex: M

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



Date of Birth: 12/24/1956 Age: 50 yrs. Sex: M

Test Name	BWH 09/11/2007 12:07	DFCI 09/11/2007 11:41	
IF we experience as a larger transfer of the second	PEND		
B2M		2.7	
PRTNA		PEND	



Date of Birth: 12/24/1956 Age: 50 yrs. Sex: M

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



### MRN: 22226146 (BWH) KIRSCH,STEVEN T Date of Birth: 12/24/1956

Age: 50 yrs. Sex: M

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



Date of Birth: 12/24/1956 Age: 50 yrs. Sex: M

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

Age: 50y Sex:M

#### **Pathology Report**

Report Status: Final

Accession Number: BS07W38519

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

Printed: 09/12/2007 12:37 Page: 1 of 2

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  $\,8/31/2007$ 

Printed: 09/12/2007 12:37 Page: 2 of 2