

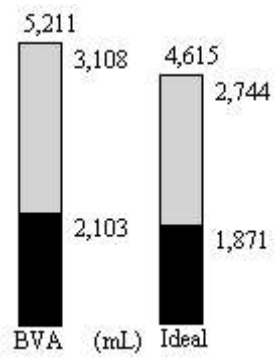
### Patient Demographics

Patient Name: PATIENT, JAMES A      DOB: 10/31/1957      Analyzed On: 9/2/2008 10:00 AM  
 ID#: DOO123456      Gender: Male      Age: 50  
 Accession #: -      Height: 66.0 in      Analyst: CWH  
 Referring MD: BILL      Weight: 152.0 lb      Injectate Lot: V81482-644  
 CC: -      Deviation from Ideal Weight: +5.4%      Location: OP

Comments:

### Blood Volume Analysis Results

	BVA Result	Patient Ideal	Deviation from Ideal	Excess / Deficit %
Total Blood Volume	5211 mL	4615 mL	+596 mL	+12.9% Mild Excess
Red Blood Cell Volume	2103 mL	1871 mL	+232 mL	+12.4% Mild Excess
Plasma Volume	3108 mL	2744 mL	+364 mL	+13.3% Mild Excess



	Normal	Mild	Moderate	Severe	Extreme
BV, PV Deviation (± %):	0 to 8	>8 to 16	>16 to 24	>24 to 32	>32
RCV Deviation (± %):	0 to 10	>10 to 20	>20 to 30	>30 to 40	>40

### Additional Analysis

Hematocrit Analysis			ml/kg Analysis			Albumin Transudation Analysis/Slope (% /min)	
	Patient Result	Normal (Male)		Patient Result	Patient Ideal	Patient Result	Reference Range
Peripheral Venous Hct	45%	38%-45%	Total Volume	75.6	66.9	0.11%	Normal: 0 to 0.4%
Normalized Hct (nHct)	51%	38%-45%	Plasma Volume	45.1	39.8		High: 0.4 to 0.5%
			RBC Volume	30.5	27.1		Unusually High: >0.5%

### Report Findings

Blood Volume Analysis result indicates patient's total blood volume is mild hypervolemic, with mild excess of +596 mL or +12.9% from ideal; plasma volume is mild hypervolemic, with mild excess of +364 mL or +13.3% from ideal; red blood cell volume is mild hypervolemic, with mild excess of +232 mL or +12.4%

#### Additional Comments:

Physician Signature \_\_\_\_\_

Date \_\_\_\_\_

Technical Notes: This Blood Volume Analysis was performed by the radiopharmaceutical tracer dilution technique utilizing a calibrated dose of Volumex (HSA I-131) at 25.0 µCi, separate timed blood samples, measured hematocrits and a regression analysis to time zero. Corrections for plasma packing (0.99) and the ratio of whole body hematocrit to venous hematocrit (f=0.91) are incorporated. Sample analysis consists of an evaluation of separate blood volume collection points compared to a matched standard with mathematical evaluation of consistency. Sample analysis evaluation is reported as acceptable or unacceptable with a standard deviation of less than 3.9% being acceptable. The sample analysis of this report is 1.888% and is acceptable. nHct is the theoretical hematocrit that would result if the patient's plasma volume were adjusted to achieve a normal total blood volume. Ideal Values based on Feldschuh, J and Enson, Y. Prediction of the normal blood volume: Relation of blood volume to body habitus. Circulation. 1977;56:605-612.

Key: \*\* = data cannot be calculated, - = data missing

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Comments:

### Patient Sample Counts

Sample	Time	Hct-A (%)	Hct-B (%)	Avg Hct	Count-A	Count-B	Avg Count	Unadjusted Volume (mL)
Standard					14007	14095	14051	
Baseline		45.0	44.0	44.5	105	91	98	
Sample 1	12:15	45.0	45.0	45.0	4464	4530	4497	5363
Sample 2	18:30	44.0	46.0	45.0	4573	4641	4607	5232
Sample 3	24:10	45.0	44.0	44.5	4507	4492	4500	5319
Sample 4	30:45	46.0	44.0	45.0	4567	4361	4464	5403
Sample 5	36:15	44.0	45.0	44.5	4437	4338	4388	5458

Room Background Count: 24

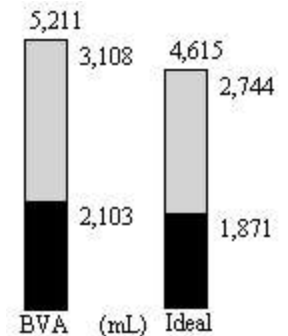
Tube: Sprayed EDTA (any tube size) (1.00)

Sample Acquisition Time: 1 min. 30 sec.

Isotope: Iodine-131    Dose: 20.0 µCi

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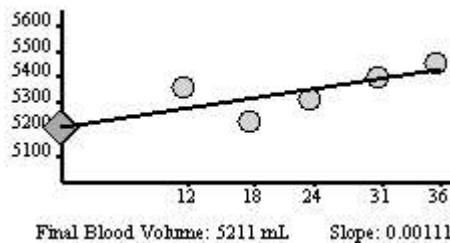
#### Blood Volume Interpretation Guideline

	Normal	Mild	Moderate	Severe	Extreme
BV, PV Deviation (± %):	0 to 8	>8 to 16	>16 to 24	>24 to 32	>32
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### Sample Data Analysis

#### Standard Deviation

Patient Result	Acceptance Range
1.888% or 98.4 mL	<3.9%



#### Albumin Transudation Analysis/Slope (% /min)

Patient Result	Reference Range
0.11%	Normal: 0 to 0.4%
	High: 0.4 to 0.5%
	Unusually High: >0.5%

Report Key: □ = sample excluded, Bold = audit trail, \*\* = data cannot be calculated, \* = data out of range, [] = entry excluded, - = data missing

Ideal Values based on Feldschuh, J and Enson, Y. Prediction of the normal blood volume: Relation of blood volume to body habitus. Circulation. 1977;56:605-612.



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**Blood Volume  
Analysis**  
FINAL REPORT

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Comments:

### AUDIT TRAIL

<u>Date/Time</u>	<u>By</u>	<u>Field</u>	<u>Old Value</u>	<u>New Value</u>
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