

Data Set Name: ae.sas7bdat

Num	Variable	Type	Len	Format	Informat	Label
1	PT_ID	Char	7	\$7.		New Patient ID
2	Age_Group	Char	5	\$5.		Age Group
3	ITT	Char	3	\$3.		Intent-To-Treat Population
4	Randomized	Char	3	\$3.		Was patient randomized?
5	TREATGRP	Char	9	\$9.		Treatment Group, Actual
6	Treatment	Char	1	\$1.		Treatment Group
7	AE_Start_Day	Num	8	8.		Number of days before (-) or after 1st day on study med, that AE was first reported
8	AE_End_Day	Num	8	8.		Number of days before (-) or after 1st day on study med, that AE ended
9	Continuing	Char	3	\$3.		AE Continuing
10	SAE	Char	3	\$3.		Serious Adverse Event
11	Severity	Char	20	\$20.		Severity of AE
12	Outcome	Char	45	\$45.		Outcome of Adverse Event
13	Relationship	Char	25	\$25.		Relationship to Study Drug
14	Action_DrugInterrupt	Num	8	1.		Action - Study drug interrupted
15	Action_DrugDiscon	Num	8	1.		Action - Study drug discontinued
16	Action_MedIntervention	Num	8	1.		Action - Medical Intervention
17	Action_Hospital	Num	8	1.		Action - Hospitalization
18	Action_None	Num	8	1.		No Action Taken
19	Death	Char	3	\$3.		Did patient die?
20	System_Organ_Class	Char	100	\$100.		System Organ Class
21	Preferred_Term	Char	100	\$100.		Preferred_Term
22	LowLevelName	Char	100	\$100.		LowLevelName - coding
23	TEAE	Char	3	\$3.		Treatment Emergent Adverse Event
24	TRAE	Char	3	\$3.		Treatment-Related Adverse Event

Data Set Name: cmed.sas7bdat

Num	Variable	Type	Len	Format	Informat	Label
1	PT_ID	Char	7	\$7.		New Patient ID
2	Age_Group	Char	5	\$5.		Age Group
3	ITT	Char	3	\$3.		Intent-To-Treat Population
4	Randomized	Char	3	\$3.		Was patient randomized?
5	Treatment	Char	1	\$1.		Treatment Group
6	CMED_Start_Day	Num	8	8.		day (relative to study med start date) CMED was started
7	CMED_Stop_Day	Num	8	8.		day (relative to study med start date) CMED was stopped
8	Ongoing	Char	3	\$3.		Ongoing Drug
9	Indication	Char	80	\$80.		Indication
10	Drug_Name	Char	80	\$80.		Drug Name
11	Drug_Class	Char	110	\$110.		Drug Class
12	Preferred_Term	Char	80	\$80.		Preferred Term

Data Set Name: patients.sas7bdat

Num	Variable	Type	Len	Format	Informat	Label
1	PT_ID	Char	7	\$7.		New Patient ID
2	Af_Amer	Num	8	1.		African American Indicator
3	Age_Group	Char	5	\$5.		Age Group
4	Age_trunc	Num	8	8.		age with upper end censored at age=45
5	BS_CLIN	Num	8	8.		Total number of clinic visit due to acute pain last year
6	BS_ED	Num	8	8.		Total number of ED visit last year
7	BS_ED_ACS	Num	8	8.		Total number of ED visit last year with ACS reason
8	BS_ED_OTH	Num	8	8.		Total number of ED visit last year with other reason
9	BS_ED_PAIN	Num	8	8.		Total number of ED visit last year with pain reason
10	BS_ED_VOC	Num	8	8.		Total number of ED visit last year with VOC reason
11	BS_HOSP	Num	8	8.		Total number of hospital admissions last year
12	BS_HOSP_ACS	Num	8	8.		Total number of hospital admissions last year with ACS reason
13	BS_HOSP_OTH	Num	8	8.		Total number of hospital admissions last year with other reason
14	BS_HOSP_PAIN	Num	8	8.		Total number of hospital admissions last year with pain reason
15	BS_HOSP_VOC	Num	8	8.		Total number of hospital admissions last year with VOC reason
16	Completed	Char	3	\$3.		Has patient completed study?
17	DESRD_1	Num	8	8.		Desferal, # of days used
18	DESFYN	Char	3	\$3.		Desferal
19	DISC_HGBDRP	Num	8	1.		Drop in hgb below 5
20	DISC_HYPDYS	Num	8	1.		Hepatic dysfunction
21	DISC_METH	Num	8	1.		Increase in methemoglobin
22	DISC_PRIAP	Num	8	1.		Priapism
23	DISC_PULMFAL	Num	8	1.		Pulmonary failure
24	DISC_RENDYS	Num	8	1.		Renal dysfunction
25	DNUMS	Num	8	8.		# of Times, Pain Treated at Doctor's office
26	DTOFNUM	Char	8	\$8.		Pain Treated at Doctor's office
27	Days_to_ED1	Num	8	3.		Time (in days) to first ED or Day Hospital visit after start of study drug
28	Days_to_Hosp1	Num	8	3.		Time (in days) to first hospitalization after start of study drug
29	Days_to_Pain1	Num	8	3.		Time (in days) to first acute pain event after start of study drug
30	Days_to_Tran1	Num	8	3.		Time (in days) to first transfusion after start of study drug
31	Diagnosis	Char	3	\$3.		Diagnosis
32	Discont_Form_day	Num	8	8.		Day of discontin. Form (relative to 1st day on study drug)
33	Discontin_Reason	Char	17	\$17.		Reason for discontinuation of study
34	Discontinued	Char	3	\$3.		Did the patient discontinue from the study?
35	EMRMNUM	Char	8	\$8.		Pain Treated at ER
36	ENUMS	Num	8	8.		# of Times, Pain Treated at ER
37	Enroll_Day	Num	8	8.		Day of enrollment (relative to 1st day on study drug)

Num	Variable	Type	Len	Format	Informat	Label
38	Enrolled	Char	3	\$3.		Has patient enrolled in the study?
39	FOLICD_1	Num	8	8.		Folic Acid, # of days used
40	FOLICYN	Char	3	\$3.		Folic Acid
41	Gender	Char	6	\$6.		Gender
42	HNUMS	Num	8	8.		# of Times, Pain Treated at Home
43	HOMENUM	Char	8	\$8.		Pain Treated at Home
44	HONUMS	Num	8	8.		# of Times, Pain Treated at Hospital
45	HOSPNUM	Char	8	\$8.		Pain Treated at Hospital
46	HXVS_day	Num	8	8.		day of HXVS form (relative to 1st day of study drug)
47	HYDROD_1	Num	8	8.		Hydroxyurea, # of days used
48	HYDROYN	Char	3	\$3.		Hydroxyurea
49	ITT	Char	3	\$3.		Intent-To-Treat Population
50	MedH_Form_Day	Num	8	8.		day of med hist form (relative to 1st day on study drug)
51	NARCD_1	Num	8	8.		Narcotics, # of days used
52	NARCYN	Char	3	\$3.		Narcotics
53	NSAIDD_1	Num	8	8.		NSAIDS, # of days used
54	NSAIDYN	Char	3	\$3.		NSAIDS
55	NUMCCS	Num	8	8.1		CC's transfused
56	NUMUNIT	Num	8	8.1		Number of units transfused
57	OPAIN1D_1	Num	8	8.		Other pain medication 1, # of days used
58	OPAIN2D_1	Num	8	8.		Other pain medication 2, # of days used
59	OPAINYN	Char	3	\$3.		Other pain medication
60	OTANTD_1	Num	8	8.		Other Antibiotic, # of days used
61	OTANTYN	Char	3	\$3.		Other Antibiotic
62	OTMEDD_1	Num	8	8.		Other meds, # of days used
63	OTMEDYN	Char	3	\$3.		Other meds
64	OXYGD_1	Num	8	8.		Oxygen, # of days used
65	OXYGYN	Char	3	\$3.		Oxygen
66	PPENCD_1	Num	8	8.		Prophylactic Penicillin, # of days used
67	PPENCYN	Char	3	\$3.		Prophylactic Penicillin
68	Pain_Day	Num	8	8.		day of pain hist form (relative to 1st day on study drug)
69	RandNoDose	Char	3	\$3.		Patient was randomized but did not receive study drug
70	RandomizationNumber	Num	8	8.		Randomization Number
71	Randomized	Char	3	\$3.		Was patient randomized?
72	ReceiveDrug	Char	3	\$3.		Did the patient receive study drug?
73	TE_EDTOT	Num	4	4.		Patient's total number of reports of treatment emergent ED or Day Hospital visits
74	TE_EDYN	Char	3	\$3.		Did the patient have any treatment emergent ED or Day Hospital visits?
75	TE_HospTOT	Num	4	4.		Patient's total number of reports of treatment emergent hospitalizations

Num	Variable	Type	Len	Format	Informat	Label
76	TE_HospYN	Char	3	\$3.		Did the patient have any treatment emergent hospitalizations?
77	TE_PainTOT	Num	4	4.		Patient's total number of reports of treatment emergent clinic visits for acute pain
78	TE_PainYN	Char	3	\$3.		Did the patient have any treatment emergent clinic visits for acute pain?
79	TE_TranTOT	Num	4	4.		Patient's total number of reports of treatment emergent transfusions
80	TE_TranYN	Char	3	\$3.		Did the patient have any treatment emergent transfusions?
81	TRANSFUSED	Char	3	\$3.		Have subject been transfused?
82	Treatgrp	Char	9	\$9.		Treatment Group, Actual
83	Treatment	Char	2	\$2.		Treatment Group
84	Weight_trunc	Num	8	5.1		weight with upper end censored at weight=90 kg

Data Set Name: visits.sas7bdat

Num	Variable	Type	Len	Format	Informat	Label
1	PT_ID	Char	7	\$7.		New Patient ID
2	Age_Group	Char	5	\$5.		Age Group
3	Age_trunc	Num	3	3.		All ages >45 years are recoded to 45.0
4	Gender	Char	6	\$6.		Gender
5	Randomized	Char	3	\$3.		Was patient randomized?
6	TREATGRP	Char	9	\$9.		Treatment Group, Actual
7	Treatment	Char	1	\$1.		Treatment Group
8	Visit	Char	18	\$18.		Study Visit
9	Visit_NUM	Num	8	2.		Visit - Numeric
10	MCV_NORM2	Num	8	8.2		Norm MCV - S Bakerman
11	MCV_NORM1	Num	8	8.2		Norm MCV - LS Bakerman
12	ALKPHOSPH_NORM1	Num	8	8.2		Norm ALKPHOSPH - LS Bakerman
13	URIN_SPGRA	Num	8	8.3		Specific gravity -Urinalysis
14	URIN_MCRORBC	Char	5	\$5.		Microscopic RBC (#/mm ³) -Urinalysis
15	Taurine	Num	8	8.3		Taurine (uM)
16	BUNLow	Num	8	8.		BUN (mg/dL) lower limit of normal range
17	ChBaseAmmonia	Num	8	8.3		Change from Baseline: Ammonia (uM)
18	ChBaseEthanolamine	Num	8	8.3		Change from Baseline: Ethanolamine (uM)
19	ChBaseHomocystine	Num	8	8.3		Change from Baseline: Homocystine (uM)
20	ChBaseb_Alanine	Num	8	8.3		Change from Baseline: b_Alanine (uM)
21	ChBasePhenylalanine	Num	8	8.3		Change from Baseline: Phenylalanine (uM)
22	Glucose	Num	8	8.		Glucose (mg/dL)
23	BaseChloride_NA	Char	8	\$8.		Baseline: Cl (mEq/L) - Normal or Abnormal
24	WorstChloride_NA	Char	8	\$8.		Worst Cl (mEq/L) - Normal or Abnormal
25	Enrolled	Char	3	\$3.		Has patient enrolled in the study?
26	PChangeBaseOhyp	Num	8	8.2		Percent Change from Baseline: Ohyp
27	PChangeBaseArginase	Num	8	8.2		Percent Change from Baseline: Arginase (ng/mL)
28	PChangeBasePGF2	Num	8	8.2		Percent Change from Baseline: PGF2 (pg/mL)
29	PChangeBaseVCAM	Num	8	8.2		Percent Change from Baseline: VCAM (ug/mL)
30	A_PRETIC	Num	8	8.1		Advia - Reticulocyte Percentage (%)
31	PChangeBaseDimax	Num	8	8.2		Percent Change from Baseline: Dimax
32	MCV_NA	Char	8	\$8.		MCV (fl) - Normal or Abnormal
33	WorstMCHC_NA	Char	8	\$8.		Worst MCHC (g/dL)- Normal or Abnormal
34	BaseHematocrit_NA	Char	8	\$8.		Baseline: Hematocrit (%) - Normal or Abnormal
35	PChBaseGlutamic_acid	Num	8	8.2		Percent Change from Baseline: Glutamic_acid (uM)
36	BaseTyrosine	Num	8	8.3		Baseline: Tyrosine (uM)
37	BaseLeucine	Num	8	8.3		Baseline: Leucine (uM)

Num	Variable	Type	Len	Format	Informat	Label
38	BaseIsoleucine	Num	8	8.3		Baseline: Isoleucine (uM)
39	BaseCystathionine	Num	8	8.3		Baseline: Cystathionine (uM)
40	BaseMethionine	Num	8	8.3		Baseline: Methionine (uM)
41	BaseCystine	Num	8	8.3		Baseline: Cystine (uM)
42	BaseValine	Num	8	8.3		Baseline: Valine (uM)
43	Basea_Amino_n_butyric_acid	Num	8	8.3		Baseline: a_Amino_n_butyric_acid (uM)
44	Citrulline	Num	8	8.3		Citrulline (uM)
45	Alanine	Num	8	8.3		Alanine (uM)
46	A_HGB_ORIGINAL	Num	8	8.1		Advia - Hemoglobin (g/dL)
47	PCHBaseARG_CIT	Num	8	8.3		Percent Change from Baseline: ARG_CIT
48	PCHBaseARG_ORN	Num	8	8.3		Percent Change from Baseline: ARG_ORN
49	CHBaseARG_CIT	Num	8	8.3		Change from Baseline: ARG_CIT
50	CHBaseARG_ORN	Num	8	8.3		Change from Baseline: ARG_ORN
51	PChBaseOrnithine	Num	8	8.2		Percent Change from Baseline: Ornithine (uM)
52	LDH_NORM3	Num	8	8.2		Norm LDH - LS Phantom Lab
53	PChBaseThreonine	Num	8	8.2		Percent Change from Baseline: Threonine (uM)
54	PChangeBaseA_HGB	Num	8	8.2		Percent Change from Baseline: Hemoglobin (g/dL)
55	ECHO_ABNORM	Char	3	\$3.		Abnormal echocardiogram
56	A_HGB_HIGH	Num	8	1.		Advia - Hemoglobin (g/dL) >=13
57	URIN_WBC	Char	5	\$5.		WBC (#/mm ³) -Urinalysis
58	PCHBASEC_LDH	Num	8	8.2		LDH (IU/L), Central lab, % Change from baseline
59	CHBASEC_LDH	Num	8	8.1		LDH (IU/L), Central lab, Change from baseline
60	C_LDH	Num	8	8.1		LDH (IU/L), Central lab
61	BASEC_LDH	Num	8	8.1		Baseline LDH (IU/L), Central lab
62	HemoglobinHigh	Num	8	8.1		Hemoglobin (mg/dL) upper limit of normal range
63	ChangeBaseA_PF	Num	8	8.5		Change from Baseline: Percent HbF (%)
64	IHX_VISION	Char	3	\$3.		Has the patient had vision problems since last visit?
65	BaseA_Gardos	Num	8	8.3		Baseline: Gardos Channel Activity (mmol/10 ¹³ cells x min)
66	BaseOhyp	Num	8	BEST12.		Baseline: Ohyp
67	BaseOpre	Num	8	BEST12.		Baseline: Opre
68	BaseNOx	Num	8	8.1		Baseline: Nitric Oxide (NOx) in uM
69	BaseArginase	Num	8	8.1		Baseline: Arginase (ng/mL)
70	BasePGF2	Num	8	8.1		Baseline: PGF2 (pg/mL)
71	BaseEndo1	Num	8	8.2		Baseline: ET-1 (pg/mL)
72	IHX_TIRED	Char	8	\$8.		Has the patient been unusually tired, or more tired than usually since last visit?
73	IHX_BREATH	Char	3	\$3.		Has the patient had any problems breathing, including asthma, since last visit?

Num	Variable	Type	Len	Format	Informat	Label
74	IHX_FEVER	Char	3	\$3.		Has the patient had a fever 101 (F) or higher since last visit?
75	BUN_NA	Char	8	\$8.		BUN (mg/dL) - Normal or Abnormal
76	IHX_BLDURINE	Char	3	\$3.		Has the patient had blood in the urine since last visit?
77	IHX_LEGULCERS	Char	3	\$3.		Has the patient had any leg ulcers since last visit
78	A_HGB	Num	8	8.1		Advia - Hemoglobin (g/dL)
79	TRJETUN	Num	8	1.		TR Jet undetectable
80	BaseSTFRACT	Num	8	8.		Baseline: Shortening Fraction (%)
81	ENDO1_ADJ	Num	8	8.2		ET-1 (pg/mL) - adjusted values when below LOD
82	Glycine	Num	8	8.3		Glycine (uM)
83	Proline	Num	8	8.3		Proline (uM)
84	a_Aminoadipic_acid	Num	8	8.3		a_Aminoadipic_acid (uM)
85	Sarcosine	Num	8	8.3		Sarcosine (uM)
86	Glutamine	Num	8	8.3		Glutamine (uM)
87	Baseg_Aminobutyric_acid	Num	8	8.3		Baseline: g_Aminobutyric_acid (uM)
88	Ammonia	Num	8	8.3		Ammonia (uM)
89	PChBaseg_Aminobutyric_acid	Num	8	8.2		Percent Change from Baseline: g_Aminobutyric_acid (uM)
90	LDH_NORM2	Num	8	8.2		Norm LDH - S Bakerman
91	PercRetic_NA	Char	8	\$8.		Percent Retic (%) - Normal or Abnormal
92	HEMATOCRIT_NORM4	Num	8	8.2		Norm HEMATOCRIT - ECDF
93	WorstRBC_NA	Char	8	\$8.		Worst RBC (Xe3/mm3)- Normal or Abnormal
94	BaseRBC_NA	Char	8	\$8.		Baseline: RBC (Xe3/mm3)- Normal or Abnormal
95	RBC_NA	Char	8	\$8.		RBC (Xe3/mm3) - Normal or Abnormal
96	RBCHigh	Num	8	8.2		RBC (Xe3/mm3) upper limit of normal range
97	RBCLow	Num	8	8.2		RBC (Xe3/mm3) lower limit of normal range
98	RBC	Num	8	8.2		RBC (Xe3/mm3)
99	ChangeBaseHematocrit	Num	8	8.1		Change from Baseline: Hematocrit (%)
100	BaseHematocrit	Num	8	8.1		Baseline: Hematocrit (%)
101	ShiftHematocrit	Char	20	\$20.		Shift of Hematocrit (%) form baseline to worst value
102	BaseDimax	Num	8	8.2		Baseline: Dimax
103	MCHCHigh	Num	8	8.1		MCHC (g/dL) upper limit of normal range
104	MCHCLow	Num	8	8.1		MCHC (g/dL) lower limit of normal range
105	MCHC	Num	8	8.1		MCHC (g/dL)
106	ChangeBaseMCV	Num	8	8.1		Change from Baseline: MCV (fl)
107	BaseMCV	Num	8	8.1		Baseline: MCV (fl)
108	ShiftMCV	Char	20	\$20.		Shift of MCV (fl) form baseline to worst value
109	WorstMCV_NA	Char	8	\$8.		Worst MCV (fl)- Normal or Abnormal
110	BaseMCV_NA	Char	8	\$8.		Baseline: MCV (fl)- Normal or Abnormal
111	STFRACT	Num	8	8.		Shortening Fraction (%)

Num	Variable	Type	Len	Format	Informat	Label
112	EJFRAC	Num	8	8.		Ejection Fraction (%)
113	PANOT	Char	1	\$1.		Right Ventricular to Right Atrial difference - Not Reported
114	RVTRAD	Num	8	8.		Right Ventricular to Right Atrial difference (mm Hg)
115	BaseWidth	Num	8	BEST12.		Baseline: Width
116	ARGINASE_ADJ	Num	8	8.1		Arginase (ng/mL) - adjusted values when above LOD
117	PGF2_ADJ	Num	8	8.1		PGF2 (pg/mL) - adjusted values when below LOD
118	IHX_HEADACHE	Char	3	\$3.		Has the patient had any unusual headaches since last visit?
119	Arginine	Num	8	8.3		Arginine (uM)
120	_3_Methylhistidine	Num	8	8.3		_3_Methylhistidine (uM)
121	b_Alanine	Num	8	8.3		b_Alanine (uM)
122	Phenylalanine	Num	8	8.3		Phenylalanine (uM)
123	Tyrosine	Num	8	8.3		Tyrosine (uM)
124	Leucine	Num	8	8.3		Leucine (uM)
125	Isoleucine	Num	8	8.3		Isoleucine (uM)
126	BaseCitrulline	Num	8	8.3		Baseline: Citrulline (uM)
127	BaseProline	Num	8	8.3		Baseline: Proline (uM)
128	BaseRBC	Num	8	8.1		Baseline: RBC (Xe3/mm3)
129	MCHC_NORM1	Num	8	8.2		Norm MCHC - LS Bakerman
130	Creatinine_NORM4	Num	8	8.2		Norm Creatinine - ECDF
131	PChBaseTaurine	Num	8	8.2		Percent Change from Baseline: Taurine (uM)
132	AlkPhosph	Num	8	8.		Alk Phosphatase (IU/L)
133	OHYP	Num	8	BEST12.		OSM of the half maximum after dimax
134	Hydroxyproline	Num	8	8.3		Hydroxyproline (uM)
135	ChBaseTaurine	Num	8	8.3		Change from Baseline: Taurine (uM)
136	ShiftBUN	Char	20	\$20.		Shift of BUN (mg/dL) form baseline to worst value
137	ENDO1	Num	8	8.2		ET-1 (pg/mL)
138	EJNOT	Char	1	\$1.		Ejection Fraction - Not Reported
139	_1_Methylhistidine	Num	8	8.3		_1_Methylhistidine (uM)
140	BaseA_MCH	Num	8	8.1		Baseline: Mean Corpuscular Hemoglobin (pg)
141	BaseA_MCV	Num	8	8.1		Baseline: Mean Corpuscular Volume (fL)
142	BaseA_HCT	Num	8	8.1		Baseline: Hematocrit (%)
143	BaseA_WBC	Num	8	8.2		Baseline: White Blood Cell Count (x10^3 cells/uL)
144	BaseA_RBC	Num	8	8.2		Baseline: Red Blood Cell Count (x10^6 cells/uL)
145	BasePlateletCnt_NA	Char	8	\$8.		Baseline: Platelet Count (Xe3/mm3)- Normal or Abnormal
146	PlateletCnt_NA	Char	8	\$8.		Platelet Count (Xe3/mm3) - Normal or Abnormal
147	PlateletCntHigh	Num	8	8.		Platelet Count (Xe3/mm3) upper limit of normal range
148	Histidine	Num	8	8.3		Histidine (uM)
149	Lysine	Num	8	8.3		Lysine (uM)
150	HematocritHigh	Num	8	8.		Hematocrit (%) upper limit of normal range

Num	Variable	Type	Len	Format	Informat	Label
151	AE_Cys__int_std__	Num	8	8.3		AE_Cys__int_std__ (uM)
152	Valine	Num	8	8.3		Valine (uM)
153	Hema_time	Num	8	8.		Time in days from enrollment to hematology lab
154	PChBaseArginine	Num	8	8.2		Percent Change from Baseline: Arginine (uM)
155	PChBase_3_Methylhistidine	Num	8	8.2		Percent Change from Baseline: _3_Methylhistidine (uM)
156	PChBaseHistidine	Num	8	8.2		Percent Change from Baseline: Histidine (uM)
157	Tryptophan	Num	8	8.3		Tryptophan (uM)
158	Cystine	Num	8	8.3		Cystine (uM)
159	ChBase_3_Methylhistidine	Num	8	8.3		Change from Baseline: _3_Methylhistidine (uM)
160	BaseHydroxylysine	Num	8	8.3		Baseline: Hydroxylysine (uM)
161	ARG_CIT	Num	8	8.3		Arginine to Citrulline Ratio
162	ChBaseCystathionine	Num	8	8.3		Change from Baseline: Cystathionine (uM)
163	ChBaseCystine	Num	8	8.3		Change from Baseline: Cystine (uM)
164	ChBaseValine	Num	8	8.3		Change from Baseline: Valine (uM)
165	ChBasea_Amino_n_butyric_acid	Num	8	8.3		Change from Baseline: a_Amino_n_butyric_acid (uM)
166	ChBaseCitrulline	Num	8	8.3		Change from Baseline: Citrulline (uM)
167	Creatinine_NORM3	Num	8	8.2		Norm Creatinine - LS Phantom Lab
168	Creatinine_NORM2	Num	8	8.2		Norm Creatinine - S Bakerman
169	Creatinine_NORM1	Num	8	8.2		Norm Creatinine - LS Bakerman
170	MCV_NORM3	Num	8	8.2		Norm MCV - LS Phantom Lab
171	BUN	Num	8	8.		BUN (mg/dL)
172	BUNHigh	Num	8	8.		BUN (mg/dL) upper limit of normal range
173	BaseTRJET	Num	8	8.2		Baseline: TR Jet result
174	PChBaseTryptophan	Num	8	8.2		Percent Change from Baseline: Tryptophan (uM)
175	ChBaseb_Aminoisobutyric_acid	Num	8	8.3		Change from Baseline: b_Aminoisobutyric_acid (uM)
176	Creatinine	Num	8	8.1		Creatinine (mg/dL)
177	BaseAlanine	Num	8	8.3		Baseline: Alanine (uM)
178	BUN_LLOD	Num	8	1.		BUN - Value below Limit of Detection (3 mg/dL)
179	PChBaseProline	Num	8	8.2		Percent Change from Baseline: Proline (uM)
180	PlateletCntLow	Num	8	8.		Platelet Count (Xe3/mm3) lower limit of normal range
181	PlateletCnt	Num	8	8.		Platelet Count (Xe3/mm3)
182	ChangeBaseMCHC	Num	8	8.1		Change from Baseline: MCHC (g/dL)
183	LDH_NA	Char	8	\$8.		LDH (u/L) - Normal or Abnormal
184	LDHHigh	Num	8	8.		LDH (u/L) upper limit of normal range
185	ChangeBaseOpre	Num	8	BEST12.		Change from Baseline: Opre
186	ChangeBaseNOx	Num	8	8.1		Change from Baseline: Nitric Oxide (NOx) in uM
187	ChangeBaseArginase	Num	8	8.1		Change from Baseline: Arginase (ng/mL)
188	ChangeBasePGF2	Num	8	8.1		Change from Baseline: PGF2 (pg/mL)
189	ChangeBaseVCAM	Num	8	8.2		Change from Baseline: VCAM (ug/mL)

Num	Variable	Type	Len	Format	Informat	Label
190	ChangeBaseEndo1	Num	8	8.2		Change from Baseline: ET-1 (pg/mL)
191	ChangeBaseA_MCHC	Num	8	8.1		Change from Baseline: Mean Corpuscular Hemoglobin Concentration (g/dL)
192	BaseA_PF	Num	8	8.5		Baseline: Percent HbF (%)
193	BaseA_Phyper	Num	8	8.1		Baseline: Percent of RBCs with density (CHCM) greater than 41 g/dl (%)
194	Hydroxylysine	Num	8	8.3		Hydroxylysine (uM)
195	ChBaseGlutamic_acid	Num	8	8.3		Change from Baseline: Glutamic_acid (uM)
196	ChBaseAsparagine	Num	8	8.3		Change from Baseline: Asparagine (uM)
197	ChBaseSerine	Num	8	8.3		Change from Baseline: Serine (uM)
198	ChBaseThreonine	Num	8	8.3		Change from Baseline: Threonine (uM)
199	ChBaseAspartic_Acid	Num	8	8.3		Change from Baseline: Aspartic_Acid (uM)
200	ChBaseO_phosphoethanolamine	Num	8	8.3		Change from Baseline: O_phosphoethanolamine (uM)
201	ChBaseO_phosphoserine	Num	8	8.3		Change from Baseline: O_phosphoserine (uM)
202	PChBaseTyrosine	Num	8	8.2		Percent Change from Baseline: Tyrosine (uM)
203	PChBaseLeucine	Num	8	8.2		Percent Change from Baseline: Leucine (uM)
204	PChBaseIsoleucine	Num	8	8.2		Percent Change from Baseline: Isoleucine (uM)
205	PChBaseCystathionine	Num	8	8.2		Percent Change from Baseline: Cystathionine (uM)
206	PChBaseMethionine	Num	8	8.2		Percent Change from Baseline: Methionine (uM)
207	PChBaseValine	Num	8	8.2		Percent Change from Baseline: Valine (uM)
208	Chem_time	Num	8	8.		Time in days from enrollment to chemistry lab
209	ChBaseArginine	Num	8	8.3		Change from Baseline: Arginine (uM)
210	ChangeBaseA_CH	Num	8	8.1		Change from Baseline: Cellular Hemoglobin (pg)
211	PChangeBaseA_AReticCnt	Num	8	8.2		Percent Change from Baseline: Absolute Reticulocyte Count ($\times 10^9$ cells/L)
212	PChangeBaseA_Pretic	Num	8	8.2		Percent Change from Baseline: Reticulocyte Percentage (%)
213	PChangeBaseA_CH	Num	8	8.2		Percent Change from Baseline: Cellular Hemoglobin (pg)
214	PChangeBaseA_CHCM	Num	8	8.2		Percent Change from Baseline: Cellular Hemoglobin Concentration Mean (g/dL)
215	PChangeBaseA_MCHC	Num	8	8.2		Percent Change from Baseline: Mean Corpuscular Hemoglobin Concentration (g/dL)
216	PChangeBaseA_MCH	Num	8	8.2		Percent Change from Baseline: Mean Corpuscular Hemoglobin (pg)
217	PChangeBaseA_MCV	Num	8	8.2		Percent Change from Baseline: Mean Corpuscular Volume (fL)
218	PChangeBaseA_HCT	Num	8	8.2		Percent Change from Baseline: Hematocrit (%)
219	ShiftMetHb	Char	20	\$20.		Shift of Met Hb (%) from baseline to worst value
220	BaseA_M_CHCM	Num	8	8.1		Baseline: Cellular Hemoglobin Concentration Mean - Mature (g/dL)
221	WorstAbsReticCnt_NA	Char	8	\$8.		Worst Absolute Retic Count- Normal or Abnormal
222	BaseAbsReticCnt_NA	Char	8	\$8.		Baseline: Absolute Retic Count- Normal or Abnormal

Num	Variable	Type	Len	Format	Informat	Label
223	AbsReticCnt_NA	Char	8	\$8.		Absolute Retic Count - Normal or Abnormal
224	AbsReticCntHigh	Num	8	8.		Absolute Retic Count upper limit of normal range
225	AbsReticCntLow	Num	8	8.		Absolute Retic Count lower limit of normal range
226	CF_HGB	Num	8	8.1		Cell-free Hemoglobin, mg/dL
227	BasePlateletCnt	Num	8	8.1		Baseline: Platelet Count (Xe3/mm3)
228	BaseHydroxyproline	Num	8	8.3		Baseline: Hydroxyproline (uM)
229	BaseGlycine	Num	8	8.3		Baseline: Glycine (uM)
230	BasePhenylalanine	Num	8	8.3		Baseline: Phenylalanine (uM)
231	BaseArginine	Num	8	8.3		Baseline: Arginine (uM)
232	ALT_NA	Char	8	\$8.		ALT (IU/L) - Normal or Abnormal
233	ALTHigh	Num	8	8.		ALT (IU/L) upper limit of normal range
234	ALTLow	Num	8	8.		ALT (IU/L) lower limit of normal range
235	ALT	Num	8	8.		ALT (IU/L)
236	ChangeBaseBUN	Num	8	8.1		Change from Baseline: BUN (mg/dL)
237	PChBasea_Amino_n_butyrac_acid	Num	8	8.2		Percent Change from Baseline: a_Amino_n_butyrac_acid (uM)
238	PChBaseCitrulline	Num	8	8.2		Percent Change from Baseline: Citrulline (uM)
239	PChBaseAlanine	Num	8	8.2		Percent Change from Baseline: Alanine (uM)
240	PChBaseGlycine	Num	8	8.2		Percent Change from Baseline: Glycine (uM)
241	PChBasea_Aminoadipic_acid	Num	8	8.2		Percent Change from Baseline: a_Aminoadipic_acid (uM)
242	BaseCO2_NA	Char	8	\$8.		Baseline: CO2 (mEq/L) - Normal or Abnormal
243	CO2_NA	Char	8	\$8.		CO2 (mEq/L) - Normal or Abnormal
244	CO2High	Num	8	8.1		CO2 (mEq/L) upper limit of normal range
245	CO2Low	Num	8	8.1		CO2 (mEq/L) lower limit of normal range
246	CO2	Num	8	8.1		CO2 (mEq/L)
247	Threonine	Num	8	8.3		Threonine (uM)
248	O_phosphoethanolamine	Num	8	8.3		O_phosphoethanolamine (uM)
249	ShiftPlateletCnt	Char	20	\$20.		Shift of Platelet Count (Xe3/mm3) form baseline to worst value
250	Urinalysis_Day	Num	8	8.		Day of urinalysis (relative to 1st day on study drug)
251	MetHb_Day	Num	8	8.		Day of Met-Hb collection (relative to 1st day on study drug)
252	Hema_Lab_day	Num	8	8.		Day of hematology lab collection (relative to 1st day on study drug)
253	HH_Form_Day	Num	8	8.		Day of baseline and interim health history form (relative to 1st day on study drug)
254	Enrollment_Day	Num	8	8.		Day of Enrollment (relative to 1st day on study drug)
255	Chemlab_Day	Num	8	8.		Date of Chemistry Labs Collection
256	AB_ECHO_DAY	Num	8	8.		Day (relative to 1st day of Study drug) of most recent abnormal ECHO
257	MetHbHigh	Num	8	8.1		Met Hb (%) upper limit of normal range

Num	Variable	Type	Len	Format	Informat	Label
258	MethHbLow	Num	8	8.1		Met Hb (%) lower limit of normal range
259	MethHb	Num	8	8.1		Met Hb (%)
260	ChangeBasePercRetic	Num	8	8.1		Change from Baseline: Percent Retic (%)
261	BasePercRetic	Num	8	8.1		Baseline: Percent Retic (%)
262	ChangeBaseLDH	Num	8	8.1		Change from Baseline: LDH (u/L)
263	ARGINASE_UDL	Num	8	1.		Arginase measure above Limit of Detection (>2560)
264	HematocritLow	Num	8	8.		Hematocrit (%) lower limit of normal range
265	Hematocrit	Num	8	8.		Hematocrit (%)
266	ChangeBaseHemoglobin	Num	8	8.1		Change from Baseline: Hemoglobin (mg/dL)
267	BaseHemoglobin	Num	8	8.1		Baseline: Hemoglobin (mg/dL)
268	A_ARETICCNT	Num	8	8.3		Advia - Absolute Reticulocyte Count ($\times 10^9$ cells/L)
269	BaseA_HGB	Num	8	8.1		Baseline: Hemoglobin (g/dL)
270	A_CH	Num	8	8.1		Advia - Cellular Hemoglobin (pg)
271	A_CHCM	Num	8	8.1		Advia - Cellular Hemoglobin Concentration Mean (g/dL)
272	A_MCHC	Num	8	8.1		Advia - Mean Corpuscular Hemoglobin Concentration (g/dL)
273	A_MCH	Num	8	8.1		Advia - Mean Corpuscular Hemoglobin (pg)
274	ARG_ORN	Num	8	8.3		Arginine to Ornithine Ratio
275	PChBaseSarcosine	Num	8	8.2		Percent Change from Baseline: Sarcosine (uM)
276	Creatinine_NA	Char	8	\$8.		Creatinine (mg/dL) - Normal or Abnormal
277	CreatinineHigh	Num	8	8.1		Creatinine (mg/dL) upper limit of normal range
278	CreatinineLow	Num	8	8.1		Creatinine (mg/dL) lower limit of normal range
279	ChangeBaseCalcium	Num	8	8.1		Change from Baseline: Calcium (mg/dL)
280	PChangeBaseSTFRACT	Num	8	8.2		Percent Change from Baseline: Shortening Fraction (%)
281	PChangeBaseEJFRACT	Num	8	8.2		Percent Change from Baseline: Ejection Fraction (%)
282	PChangeBaseTRJET	Num	8	8.2		Percent Change from Baseline: TR Jet result
283	ChangeBaseRVTRAD	Num	8	8.		Change from Baseline: Right Ventricular to Right Atrial difference (mm Hg)
284	ChangeBaseSTFRACT	Num	8	8.		Change from Baseline: Shortening Fraction (%)
285	ChangeBaseEJFRACT	Num	8	8.		Change from Baseline: Ejection Fraction (%)
286	ARVTRAD	Num	8	3.		Right Ventricular to Right Atrial Difference -Abnormal
287	ABSTNOT	Char	1	\$1.		Shortening Fraction, Not reported -Abnormal
288	ABENOT	Char	1	\$1.		Ejection Fraction, Not reported -Abnormal
289	ABRVH	Char	3	\$3.		RVH -Abnormal
290	ABEFRAC	Num	8	2.		Ejection Fraction -Abnormal
291	Baseb_Aminoisobutyric_acid	Num	8	8.3		Baseline: b_Aminoisobutyric_acid (uM)
292	ChBasea_Aminoadipic_acid	Num	8	8.3		Change from Baseline: a_Aminoadipic_acid (uM)
293	Basea_Aminoadipic_acid	Num	8	8.3		Baseline: a_Aminoadipic_acid (uM)
294	BaseSarcosine	Num	8	8.3		Baseline: Sarcosine (uM)

Num	Variable	Type	Len	Format	Informat	Label
295	BaseGlutamine	Num	8	8.3		Baseline: Glutamine (uM)
296	BaseGlutamic_acid	Num	8	8.3		Baseline: Glutamic_acid (uM)
297	BaseARG_CIT	Num	8	8.3		Baseline: ARG_CIT
298	MCHC_NORM4	Num	8	8.2		Norm MCHC - ECDF
299	MCHC_NORM3	Num	8	8.2		Norm MCHC - LS Phantom Lab
300	MCHC_NORM2	Num	8	8.2		Norm MCHC - S Bakerman
301	ShiftHemoglobin	Char	20	\$20.		Shift of Hemoglobin (mg/dL) form baseline to worst value
302	WorstHemoglobin_NA	Char	8	\$8.		Worst Hemoglobin (mg/dL) - Normal or Abnormal
303	BaseHemoglobin_NA	Char	8	\$8.		Baseline: Hemoglobin (mg/dL) - Normal or Abnormal
304	Hemoglobin_NA	Char	8	\$8.		Hemoglobin (mg/dL) - Normal or Abnormal
305	ChangeBaseA_AReticCnt	Num	8	8.3		Change from Baseline: Absolute Reticulocyte Count (x10 ⁹ cells/L)
306	ShiftSodium	Char	20	\$20.		Shift of Na form baseline to worst value
307	PChangeBaseEndo1	Num	8	8.2		Percent Change from Baseline: ET-1 (pg/mL)
308	PChangeBaseA_M_MCV	Num	8	8.2		Percent Change from Baseline: Mean Corpuscular Volume - Mature (fL)
309	PChBaseGlutamine	Num	8	8.2		Percent Change from Baseline: Glutamine (uM)
310	Serine	Num	8	8.3		Serine (uM)
311	PChBaseSerine	Num	8	8.2		Percent Change from Baseline: Serine (uM)
312	ChBaseTyrosine	Num	8	8.3		Change from Baseline: Tyrosine (uM)
313	PChBaseAspartic_Acid	Num	8	8.2		Percent Change from Baseline: Aspartic_Acid (uM)
314	PChBaseO_phosphoethanolamine	Num	8	8.2		Percent Change from Baseline: O_phosphoethanolamine (uM)
315	PChBaseO_phosphoserine	Num	8	8.2		Percent Change from Baseline: O_phosphoserine (uM)
316	ChBaseHydroxyproline	Num	8	8.3		Change from Baseline: Hydroxyproline (uM)
317	ChBaseg_Aminobutyric_acid	Num	8	8.3		Change from Baseline: g_Aminobutyric_acid (uM)
318	WorstAlkPhosph_NA	Char	8	\$8.		Worst Alk Phosphatase (IU/L) - Normal or Abnormal
319	BaseRVTRAD	Num	8	8.		Baseline: Right Ventricular to Right Atrial difference (mm Hg)
320	BaseEndo1_ADJ	Num	8	8.2		Baseline: Endo1 (ng/mL) - adjusted values when below LOD
321	NOX	Num	8	8.1		Nitric Oxide (NOx) in uM
322	BaseEJFRACT	Num	8	2.		Baseline: Ejection Fraction (%)
323	PChangeBasePGF2_ADJ	Num	8	8.2		Percent Change from Baseline: PGF2 (ng/mL) - adjusted values when below LOD
324	PChangeBaseEndo1_ADJ	Num	8	8.2		Percent Change from Baseline: Endo1 (ng/mL) - adjusted values when below LOD
325	Base_3_Methylhistidine	Num	8	8.3		Baseline: _3_Methylhistidine (uM)
326	BaseHistidine	Num	8	8.3		Baseline: Histidine (uM)
327	BaseAsparagine	Num	8	8.3		Baseline: Asparagine (uM)

Num	Variable	Type	Len	Format	Informat	Label
328	BaseSerine	Num	8	8.3		Baseline: Serine (uM)
329	BaseThreonine	Num	8	8.3		Baseline: Threonine (uM)
330	ChangeBaseA_Pretic	Num	8	8.1		Change from Baseline: Reticulocyte Percentage (%)
331	PChangeBaseA_M_CHCM	Num	8	8.2		Percent Change from Baseline: Cellular Hemoglobin Concentration Mean - Mature (g/dL)
332	BaseCalcium_NA	Char	8	\$8.		Baseline: Calcium (mg/dL) - Normal or Abnormal
333	ShiftCalcium	Char	20	\$20.		Shift of Calcium (mg/dL) form baseline to worst value
334	PChangeBaseA_Phyper	Num	8	8.2		Percent Change from Baseline: Percent of RBCs with density (CHCM) greater than 41 g/dl (%)
335	ARGINASE	Num	8	8.1		Arginase (ng/mL)
336	ChangeBaseA_MCH	Num	8	8.1		Change from Baseline: Mean Corpuscular Hemoglobin (pg)
337	ChangeBaseA_MCV	Num	8	8.1		Change from Baseline: Mean Corpuscular Volume (fL)
338	ChangeBaseA_HCT	Num	8	8.1		Change from Baseline: Hematocrit (%)
339	ChangeBaseA_HGB	Num	8	8.1		Change from Baseline: Hemoglobin (g/dL)
340	ChangeBaseA_RBC	Num	8	8.2		Change from Baseline: Red Blood Cell Count (x10 ⁶ cells/uL)
341	ChangeBaseA_WBC	Num	8	8.2		Change from Baseline: White Blood Cell Count (x10 ³ cells/uL)
342	ChangeBaseOhyp	Num	8	BEST12.		Change from Baseline: Ohyp
343	ShiftPercRetic	Char	20	\$20.		Shift of Percent Retic (%) form baseline to worst value
344	WorstPercRetic_NA	Char	8	\$8.		Worst Percent Retic (%) - Normal or Abnormal
345	BaseAlkPhosph_NA	Char	8	\$8.		Baseline: Alk Phosphatase (IU/L) - Normal or Abnormal
346	AlkPhosph_NA	Char	8	\$8.		Alk Phosphatase (IU/L) - Normal or Abnormal
347	AlkPhosphHigh	Num	8	8.		Alk Phosphatase (IU/L) upper limit of normal range
348	AlkPhosphLow	Num	8	8.		Alk Phosphatase (IU/L) lower limit of normal range
349	ChangeBaseALT	Num	8	8.1		Change from Baseline: ALT (IU/L)
350	ChangeBaseAlbumin	Num	8	8.1		Change from Baseline: Albumin (g/dL)
351	WorstAlbumin_NA	Char	8	\$8.		Worst Albumin (g/dL) - Normal or Abnormal
352	TotBilirubinLow	Num	8	8.2		Total Bilirubin (mg/dL) lower limit of normal range
353	Base_1_Methylhistidine	Num	8	8.3		Baseline: _1_Methylhistidine (uM)
354	BaseLysine	Num	8	8.3		Baseline: Lysine (uM)
355	BaseTryptophan	Num	8	8.3		Baseline: Tryptophan (uM)
356	BaseOrnithine	Num	8	8.3		Baseline: Ornithine (uM)
357	BaseAmmonia	Num	8	8.3		Baseline: Ammonia (uM)
358	BaseEthanolamine	Num	8	8.3		Baseline: Ethanolamine (uM)
359	Asparagine	Num	8	8.3		Asparagine (uM)
360	BaseCalcium	Num	8	8.1		Baseline: Calcium (mg/dL)
361	Discontinued	Char	3	\$3.		Did the patient discontinue from the study
362	Diagnosis	Char	3	\$3.		Diagnosis

Num	Variable	Type	Len	Format	Informat	Label
363	PChangeBaseArginase_ADJ	Num	8	8.2		Percent Change from Baseline: Arginase (ng/mL) - adjusted values when above LOD
364	ChangeBaseArginase_ADJ	Num	8	8.1		Change from Baseline: Arginase (ng/mL) - adjusted values when above LOD
365	ABLVH	Char	3	\$3.		LVH -Abnormal
366	ABJETUN	Num	8	1.		TR Jet Undetectable -Abnormal
367	ABTRJET	Num	8	8.2		TR Jet- Abnormal
368	ECHOABN	Char	3	\$3.		Echo ever been abnormal?
369	IHX_POTH	Char	3	\$3.		Has the patient had chronic pain in other locations?
370	IHX_PHIPS	Char	3	\$3.		Has the patient had chronic pain in the hips or shoulders?
371	IHX_HEAD_FREQ	Char	21	\$21.		How often subject had headache since last visit?
372	BasePercRetic_NA	Char	8	\$8.		Baseline: Percent Retic (%)- Normal or Abnormal
373	PercReticLow	Num	8	8.3		Percent Retic (%) lower limit of normal range
374	PercReticHigh	Num	8	8.3		Percent Retic (%) upper limit of normal range
375	ShiftMCHC	Char	20	\$20.		Shift of MCHC (g/dL) form baseline to worst value
376	PercRetic	Num	8	8.3		Percent Retic (%)
377	ChangeBaseAbsReticCnt	Num	8	8.1		Change from Baseline: Absolute Retic Count
378	BaseAbsReticCnt	Num	8	8.1		Baseline: Absolute Retic Count
379	ShiftAbsReticCnt	Char	20	\$20.		Shift of Absolute Retic Count form baseline to worst value
380	BaseAlbumin	Num	8	8.1		Baseline: Albumin (g/dL)
381	WorstALT_NA	Char	8	\$8.		Worst ALT (IU/L) - Normal or Abnormal
382	A_MCV	Num	8	8.1		Advia - Mean Corpuscular Volume (fL)
383	A_HCT	Num	8	8.1		Advia - Hematocrit (%)
384	A_RBC	Num	8	8.2		Advia - Red Blood Cell Count ($\times 10^6$ cells/uL)
385	A_GARDOS	Num	8	8.3		Advia - Gardos Channel Activity (mmol/ 10^{13} cells x min)
386	A_WBC	Num	8	8.2		Advia - White Blood Cell Count ($\times 10^3$ cells/uL)
387	A_PHYPER	Num	8	8.1		Advia - Percent of RBCs with density (CHCM) greater than 41 g/dl (%)
388	IHX_AES	Char	3	\$3.		Has the patient had any Adverse Events since last visit?
389	WorstCalcium_NA	Char	8	\$8.		Worst Calcium (mg/dL) - Normal or Abnormal
390	Calcium_NA	Char	8	\$8.		Calcium (mg/dL) - Normal or Abnormal
391	CalciumHigh	Num	8	8.1		Calcium (mg/dL) upper limit of normal range
392	TRJET	Num	8	8.2		TR Jet result
393	ChangeBaseCO2	Num	8	8.1		Change from Baseline: CO2 (mEq/L)
394	Chloride_NA	Char	8	\$8.		Cl (mEq/L) - Normal or Abnormal
395	ChlorideHigh	Num	8	8.		Cl (mEq/L) upper limit of normal range
396	BaseCO2	Num	8	8.1		Baseline: CO2 (mEq/L)
397	ShiftCO2	Char	20	\$20.		Shift of CO2 form baseline to worst value
398	Week	Num	8	8.		Week number
399	WorstMetHb_NA	Char	8	\$8.		Worst Met Hb (%)- Normal or Abnormal

Num	Variable	Type	Len	Format	Informat	Label
400	O_phosphoserine	Num	8	8.3		O_phosphoserine (uM)
401	ChBaseA_GARDOS_Tert8	Num	8	1.		Change from Baseline A_GARDOS at Visit 8: tertile group
402	ChBasePGF2_Tert8	Num	8	1.		Change from Baseline PGF2 at Visit 8: tertile group
403	ChangeBaseWidth	Num	8	BEST12.		Change from Baseline: Width
404	PChangeBaseWidth	Num	8	8.2		Percent Change from Baseline: Width
405	Width	Num	8	BEST12.		Width between OPRE and OHYP
406	Glutamic_acid	Num	8	8.3		Glutamic_acid (uM)
407	WorstHematocrit_NA	Char	8	\$8.		Worst Hematocrit (%) - Normal or Abnormal
408	BaseAlkPhosph	Num	8	8.1		Baseline: Alk Phosphatase (IU/L)
409	BaseLDH	Num	8	8.1		Baseline: LDH (u/L)
410	ShiftLDH	Char	20	\$20.		Shift of LDH (u/L) form baseline to worst value
411	WorstLDH_NA	Char	8	\$8.		Worst LDH (u/L) - Normal or Abnormal
412	BaseLDH_NA	Char	8	\$8.		Baseline: LDH (u/L) - Normal or Abnormal
413	IHX_NEWMEDS	Char	3	\$3.		Has the patient taken any new medications since last visit?
414	PGF2_LDL	Num	8	1.		PGF-2 measure below Limit of Detection (< 5)
415	BaseAspartic_Acid	Num	8	8.3		Baseline: Aspartic_Acid (uM)
416	BaseO_phosphoethanolamine	Num	8	8.3		Baseline: O_phosphoethanolamine (uM)
417	BaseO_phosphoserine	Num	8	8.3		Baseline: O_phosphoserine (uM)
418	BaseTaurine	Num	8	8.3		Baseline: Taurine (uM)
419	Cystathionine	Num	8	8.3		Cystathionine (uM)
420	g_Aminobutyric_acid	Num	8	8.3		g_Aminobutyric_acid (uM)
421	WorstCO2_NA	Char	8	\$8.		Worst CO2 (mEq/L) - Normal or Abnormal
422	ChangeBaseEndo1_ADJ	Num	8	8.2		Change from Baseline: Endo1 (ng/mL) - adjusted values when below LOD
423	ChangeBaseTRJET	Num	8	8.2		Change from Baseline: TR Jet result
424	BaseArginase_ADJ	Num	8	8.1		Baseline: Arginase (ng/mL) - adjusted values when above LOD
425	ChangeBasePGF2_ADJ	Num	8	8.1		Change from Baseline: PGF2 (ng/mL) - adjusted values when below LOD
426	BasePGF2_ADJ	Num	8	8.1		Baseline: PGF2 (ng/mL) - adjusted values when below LOD
427	ALT_LLOD	Num	8	1.		ALT - Value below Limit of Detection (10 IU/L)
428	METHB_LLOD	Num	8	1.		METHB - Value below Limit of Detection (0.5 %)
429	OPRE	Num	8	BEST12.		OSM of the half maximum before dimax
430	DIMAX	Num	8	BEST12.		Maximum EI of the smoothed curve
431	TRANSYN	Char	3	\$3.		Transfused?
432	ChBaseA_PHYPER_Tert8	Num	8	1.		Change from Baseline A_PHYPER at Visit 8: tertile group
433	ChBaseA_PHYPER_Tert6	Num	8	1.		Change from Baseline A_PHYPER at Visit 6: tertile group
434	ChBaseNOX_Tert6	Num	8	1.		Change from Baseline NOX at Visit 6: tertile group
435	ChBasePGF2_Tert6	Num	8	1.		Change from Baseline PGF2 at Visit 6: tertile group

Num	Variable	Type	Len	Format	Informat	Label
436	ChBaseVCAM_Tert8	Num	8	1.		Change from Baseline VCAM at Visit 8: tertile group
437	ChBaseVCAM_Tert6	Num	8	1.		Change from Baseline VCAM at Visit 6: tertile group
438	A_PercbA	Num	8	8.1		Advia - Percent Hemoglobin A (%)
439	ChangeBaseWBC	Num	8	8.1		Change from Baseline: WBC (Xe3/mm3)
440	ShiftAlbumin	Char	20	\$20.		Shift of Albumin (g/dL) form baseline to worst value
441	PChangeBaseOpre	Num	8	8.2		Percent Change from Baseline: Opre
442	ChangeBaseA_M_CHCM	Num	8	8.1		Change from Baseline: Cellular Hemoglobin Concentration Mean - Mature (g/dL)
443	Hematocrit_NA	Char	8	\$8.		Hematocrit (%) - Normal or Abnormal
444	MCHC_NA	Char	8	\$8.		MCHC (g/dL) - Normal or Abnormal
445	MCVHigh	Num	8	8.1		MCV (fl) upper limit of normal range
446	LDHLow	Num	8	8.		LDH (u/L) lower limit of normal range
447	LDH	Num	8	8.		LDH (u/L)
448	MCVLow	Num	8	8.1		MCV (fl) lower limit of normal range
449	HemoglobinLow	Num	8	8.1		Hemoglobin (mg/dL) lower limit of normal range
450	TotBilirubin	Num	8	8.2		Total Bilirubin (mg/dL)
451	ChangeBaseRBC	Num	8	8.1		Change from Baseline: RBC (Xe3/mm3)
452	BaseAlbumin_NA	Char	8	\$8.		Baseline: Albumin (g/dL) - Normal or Abnormal
453	Albumin_NA	Char	8	\$8.		Albumin (g/dL) - Normal or Abnormal
454	BaseBUN	Num	8	8.1		Baseline: BUN (mg/dL)
455	WorstBUN_NA	Char	8	\$8.		Worst BUN (mg/dL) - Normal or Abnormal
456	BaseBUN_NA	Char	8	\$8.		Baseline: BUN (mg/dL) - Normal or Abnormal
457	ShiftALT	Char	20	\$20.		Shift of ALT (IU/L) form baseline to worst value
458	Calcium	Num	8	8.1		Calcium (mg/dL)
459	PGF2	Num	8	8.1		PGF2 (pg/mL)
460	VCAM	Num	8	8.2		VCAM (ug/mL)
461	ENDO1_LDL	Num	8	1.		ENDO1 measurement below Limit of Detection (<0.20)
462	STNOT	Char	1	\$1.		Shortening Fraction - Not Reported
463	ChangeBaseChloride	Num	8	8.1		Change from Baseline: Cl (mEq/L)
464	BaseChloride	Num	8	8.1		Baseline: Cl (mEq/L)
465	ShiftChloride	Char	20	\$20.		Shift of Cl form baseline to worst value
466	ShiftCreatinine	Char	20	\$20.		Shift of Creatinine (mg/dL) form baseline to worst value
467	BaseSodium	Num	8	8.1		Baseline: Na (mEq/L)
468	PChangeBaseNOx	Num	8	8.2		Percent Change from Baseline: Nitric Oxide (NOx) in uM
469	CalciumLow	Num	8	8.1		Calcium (mg/dL) lower limit of normal range
470	Phase	Char	8	\$8.	\$4.	Study Phase
471	BaseWBC	Num	8	8.1		Baseline: WBC (Xe3/mm3)
472	ShiftWBC	Char	20	\$20.		Shift of WBC (Xe3/mm3) form baseline to worst value
473	WorstWBC_NA	Char	8	\$8.		Worst WBC (Xe3/mm3)- Normal or Abnormal

Num	Variable	Type	Len	Format	Informat	Label
474	BaseWBC_NA	Char	8	\$8.		Baseline: WBC (Xe3/mm3)- Normal or Abnormal
475	WBC_NA	Char	8	\$8.		WBC (Xe3/mm3) - Normal or Abnormal
476	WBCHigh	Num	8	8.1		WBC (Xe3/mm3) upper limit of normal range
477	WBCLow	Num	8	8.1		WBC (Xe3/mm3) lower limit of normal range
478	WBC	Num	8	8.1		WBC (Xe3/mm3)
479	ShiftRBC	Char	20	\$20.		Shift of RBC (Xe3/mm3) form baseline to worst value
480	ChangeBaseA_M_MCV	Num	8	8.1		Change from Baseline: Mean Corpuscular Volume - Mature (fL)
481	ChangeBaseA_Gardos	Num	8	8.3		Change from Baseline: Gardos Channel Activity (mmol/10 ¹³ cells x min)
482	BaseA_M_MCV	Num	8	8.1		Baseline: Mean Corpuscular Volume - Mature (fL)
483	WorstPlateletCnt_NA	Char	8	\$8.		Worst Platelet Count (Xe3/mm3)- Normal or Abnormal
484	BaseTotProtein	Num	8	8.1		Baseline: Total Protein (g/dL)
485	ChangeBaseTotBilirubin	Num	8	8.1		Change from Baseline: Total Bilirubin (mg/dL)
486	BaseVCAM	Num	8	8.2		Baseline: VCAM (ug/mL)
487	ChangeBaseAlkPhosph	Num	8	8.1		Change from Baseline: Alk Phosphatase (IU/L)
488	ChBase_1_Methylhistidine	Num	8	8.3		Change from Baseline: _1_Methylhistidine (uM)
489	AlbuminHigh	Num	8	8.1		Albumin (g/dL) upper limit of normal range
490	AlbuminLow	Num	8	8.1		Albumin (g/dL) lower limit of normal range
491	Albumin	Num	8	8.1		Albumin (g/dL)
492	ChangeBaseTotProtein	Num	8	8.1		Change from Baseline: Total Protein (gm/dL)
493	BaseA_AReticCnt	Num	8	8.3		Baseline: Absolute Reticulocyte Count (x10 ⁹ cells/L)
494	BaseA_Pretic	Num	8	8.1		Baseline: Reticulocyte Percentage (%)
495	BaseA_CH	Num	8	8.1		Baseline: Cellular Hemoglobin (pg)
496	BaseA_CHCM	Num	8	8.1		Baseline: Cellular Hemoglobin Concentration Mean (g/dL)
497	BaseA_MCHC	Num	8	8.1		Baseline: Mean Corpuscular Hemoglobin Concentration (g/dL)
498	BaseMCHC	Num	8	8.1		Baseline: MCHC (g/dL)
499	BaseMetHb	Num	8	8.1		Baseline: Met Hb (%)
500	BaseMetHb_NA	Char	8	\$8.		Baseline: Met Hb (%))- Normal or Abnormal
501	AbsReticCnt	Num	8	3.		Absolute Retic Count
502	BaseMCHC_NA	Char	8	\$8.		Baseline: MCHC (g/dL)- Normal or Abnormal
503	ShiftTotProtein	Char	20	\$20.		Shift of Total Protein (g/dL) form baseline to worst value
504	PChBase_1_Methylhistidine	Num	8	8.2		Percent Change from Baseline: _1_Methylhistidine (uM)
505	PChBaseLysine	Num	8	8.2		Percent Change from Baseline: Lysine (uM)
506	ChBaseIsoleucine	Num	8	8.3		Change from Baseline: Isoleucine (uM)
507	BaseARG_ORN	Num	8	8.3		Baseline: ARG_ORN
508	PChBaseAsparagine	Num	8	8.2		Percent Change from Baseline: Asparagine (uM)
509	PChBaseHomocystine	Num	8	8.2		Percent Change from Baseline: Homocystine (uM)

Num	Variable	Type	Len	Format	Informat	Label
510	PChBaseb_Aminoisobutyric_acid	Num	8	8.2		Percent Change from Baseline: b_Aminoisobutyric_acid (uM)
511	PChBaseb_Alanine	Num	8	8.2		Percent Change from Baseline: b_Alanine (uM)
512	PChBasePhenylalanine	Num	8	8.2		Percent Change from Baseline: Phenylalanine (uM)
513	ChangeBaseCreatinine	Num	8	8.1		Change from Baseline: Creatinine (mg/dL)
514	IHX_PAINERC	Char	3	\$3.		Has the patient had any increased problems with priapism since last visit?
515	ChBaseGlycine	Num	8	8.3		Change from Baseline: Glycine (uM)
516	ChBaseProline	Num	8	8.3		Change from Baseline: Proline (uM)
517	ChBaseGlutamine	Num	8	8.3		Change from Baseline: Glutamine (uM)
518	ChBaseSarcosine	Num	8	8.3		Change from Baseline: Sarcosine (uM)
519	BaseHomocystine	Num	8	8.3		Baseline: Homocystine (uM)
520	ChlorideLow	Num	8	3.		Cl (mEq/L) lower limit of normal range
521	Chloride	Num	8	8.		Cl (mEq/L)
522	BasePotassium	Num	8	8.1		Baseline: K (mEq/L)
523	ShiftPotassium	Char	20	\$20.		Shift of K form baseline to worst value
524	WorstPotassium_NA	Char	8	\$8.		Worst K (mEq/L) - Normal or Abnormal
525	LDH_NORM4	Num	8	8.2		Norm LDH - ECDF
526	PChBaseAmmonia	Num	8	8.2		Percent Change from Baseline: Ammonia (uM)
527	LDH_NORM1	Num	8	8.2		Norm LDH - LS Bakerman
528	PChBaseHydroxyproline	Num	8	8.2		Percent Change from Baseline: Hydroxyproline (uM)
529	ChBaseMethionine	Num	8	8.3		Change from Baseline: Methionine (uM)
530	ChBaseAlanine	Num	8	8.3		Change from Baseline: Alanine (uM)
531	ChangeBasePotassium	Num	8	8.1		Change from Baseline: K (mEq/L)
532	WorstSodium_NA	Char	8	\$8.		Worst Na (mEq/L) - Normal or Abnormal
533	PChBaseCystine	Num	8	8.2		Percent Change from Baseline: Cystine (uM)
534	URIN_PROT	Char	8	\$8.		Protein -Urinalysis
535	Ornithine	Num	8	8.3		Ornithine (uM)
536	Completed	Char	3	\$3.		Has patient completed study
537	PChangeBaseA_PF	Num	8	8.2		Percent Change from Baseline: Percent HbF (%)
538	ChBaseA_GARDOS_Tert6	Num	8	1.		Change from Baseline A_GARDOS at Visit 6: tertile group
539	WorstTotProtein_NA	Char	8	\$8.		Worst Total Protein (g/dL) - Normal or Abnormal
540	TotProteinHigh	Num	8	8.1		Total Protein (g/dL) upper limit of normal range
541	TotProtein_NA	Char	8	\$8.		Total Protein (g/dL) - Normal or Abnormal
542	BaseALT	Num	8	8.1		Baseline: ALT (IU/L)
543	TotProteinLow	Num	8	8.1		Total Protein (g/dL) lower limit of normal range
544	TotProtein	Num	8	8.1		Total Protein (g/dL)
545	BaseTotBilirubin	Num	8	8.1		Baseline: Total Bilirubin (mg/dL)
546	ShiftTotBilirubin	Char	20	\$20.		Shift of Total Bilirubin (mg/dL) form baseline to worst value

Num	Variable	Type	Len	Format	Informat	Label
547	ChangeBaseA_CHCM	Num	8	8.1		Change from Baseline: Cellular Hemoglobin Concentration Mean (g/dL)
548	ChangeBaseGlucose	Num	8	8.1		Change from Baseline: Glucose (mg/dL)
549	BaseGlucose	Num	8	8.1		Baseline: Glucose (mg/dL)
550	ShiftGlucose	Char	20	\$20.		Shift of Glucose (mg/dL) form baseline to worst value
551	WorstGlucose_NA	Char	8	\$8.		Worst Glucose (mg/dL) - Normal or Abnormal
552	BaseGlucose_NA	Char	8	\$8.		Baseline: Glucose (mg/dL) - Normal or Abnormal
553	Glucose_NA	Char	8	\$8.		Glucose (mg/dL) - Normal or Abnormal
554	GlucoseHigh	Num	8	8.		Glucose (mg/dL) upper limit of normal range
555	GlucoseLow	Num	8	8.		Glucose (mg/dL) lower limit of normal range
556	BasePotassium_NA	Char	8	\$8.		Baseline: K (mEq/L) - Normal or Abnormal
557	Potassium_NA	Char	8	\$8.		K (mEq/L) - Normal or Abnormal
558	PotassiumHigh	Num	8	8.1		K (mEq/L) upper limit of normal range
559	Potassium	Num	8	8.1		K (mEq/L)
560	PotassiumLow	Num	8	8.1		K (mEq/L) lower limit of normal range
561	a_Amino_n_butyric_acid	Num	8	8.3		a_Amino_n_butyric_acid (uM)
562	PChangeBaseRVTRAD	Num	8	8.2		Percent Change from Baseline: Right Ventricular to Right Atrial difference (mm Hg)
563	Ethanolamine	Num	8	8.3		Ethanolamine (uM)
564	Homocystine	Num	8	8.3		Homocystine (uM)
565	b_Aminoisobutyric_acid	Num	8	8.3		b_Aminoisobutyric_acid (uM)
566	ChBaseHydroxylysine	Num	8	8.3		Change from Baseline: Hydroxylysine (uM)
567	PChBaseEthanolamine	Num	8	8.2		Percent Change from Baseline: Ethanolamine (uM)
568	ChBaseLeucine	Num	8	8.3		Change from Baseline: Leucine (uM)
569	HEMATOCRIT_NORM3	Num	8	8.2		Norm HEMATOCRIT - LS Phantom Lab
570	HEMATOCRIT_NORM2	Num	8	8.2		Norm HEMATOCRIT - S Bakerman
571	HEMATOCRIT_NORM1	Num	8	8.2		Norm HEMATOCRIT - LS Bakerman
572	PChangeBaseA_RBC	Num	8	8.2		Percent Change from Baseline: Red Blood Cell Count (x10 ⁶ cells/uL)
573	PChangeBaseA_WBC	Num	8	8.2		Percent Change from Baseline: White Blood Cell Count (x10 ³ cells/uL)
574	PChangeBaseA_Gardos	Num	8	8.2		Percent Change from Baseline: Gardos Channel Activity (mmol/10 ¹³ cells x min)
575	ITT	Char	3	\$3.		Intent-To-Treat Population
576	WorstTotBilirubin_NA	Char	8	\$8.		Worst Total Bilirubin (mg/dL) - Normal or Abnormal
577	BaseTotBilirubin_NA	Char	8	\$8.		Baseline: Total Bilirubin (mg/dL) - Normal or Abnormal
578	TotBilirubin_NA	Char	8	\$8.		Total Bilirubin (mg/dL) - Normal or Abnormal
579	TotBilirubinHigh	Num	8	8.2		Total Bilirubin (mg/dL) upper limit of normal range
580	ChBaseHistidine	Num	8	8.3		Change from Baseline: Histidine (uM)
581	ChBaseLysine	Num	8	8.3		Change from Baseline: Lysine (uM)

Num	Variable	Type	Len	Format	Informat	Label
582	ChBaseTryptophan	Num	8	8.3		Change from Baseline: Tryptophan (uM)
583	ChBaseOrnithine	Num	8	8.3		Change from Baseline: Ornithine (uM)
584	BaseSodium_NA	Char	8	\$8.		Baseline: Na (mEq/L) - Normal or Abnormal
585	Sodium_NA	Char	8	\$8.		Na (mEq/L) - Normal or Abnormal
586	SodiumHigh	Num	8	8.		Na (mEq/L) upper limit of normal range
587	SodiumLow	Num	8	8.		Na (mEq/L) lower limit of normal range
588	Sodium	Num	8	8.		Na (mEq/L)
589	A_PF	Num	8	8.5		Advia - Percent HbF (%)
590	ChangeBaseDimax	Num	8	8.2		Change from Baseline: Dimax
591	A_M_CHCM	Num	8	8.1		Advia - Cellular Hemoglobin Concentration Mean - Mature (g/dL)
592	A_M_MCV	Num	8	8.1		Advia - Mean Corpuscular Volume - Mature (fL)
593	BaseCreatinine	Num	8	8.1		Baseline: Creatinine (mg/dL)
594	ChangeBaseSodium	Num	8	8.1		Change from Baseline: Na (mEq/L)
595	WorstCreatinine_NA	Char	8	\$8.		Worst Creatinine (mg/dL) - Normal or Abnormal
596	BaseCreatinine_NA	Char	8	\$8.		Baseline: Creatinine (mg/dL) - Normal or Abnormal
597	Discontin_Reason	Char	17	\$17.		Reason for study discontinuation
598	ALKPHOSPH_NORM4	Num	8	8.2		Norm ALKPHOSPH - ECDF
599	ALKPHOSPH_NORM3	Num	8	8.2		Norm ALKPHOSPH - LS Phantom Lab
600	ALKPHOSPH_NORM2	Num	8	8.2		Norm ALKPHOSPH - S Bakerman
601	Baseb_Alanine	Num	8	8.3		Baseline: b_Alanine (uM)
602	ChangeBaseA_Phyper	Num	8	8.1		Change from Baseline: Percent of RBCs with density (CHCM) greater than 41 g/dl (%)
603	Basearginine_tertiles	Char	6	\$6.		Baseline arginine: tertile group
604	ChangeBaseMetHb	Num	8	8.1		Change from Baseline: Met Hb (%)
605	MCV	Num	8	8.1		MCV (fl)
606	ChBaseNOX_Tert8	Num	8	1.		Change from Baseline NOX at Visit 8: tertile group
607	ChangeBasePlateletCnt	Num	8	8.1		Change from Baseline: Platelet Count (Xe3/mm3)
608	ABSFRAC	Num	8	2.		Shortening Fraction -Abnormal
609	MetHb_NA	Char	8	\$8.		Met Hb (%) - Normal or Abnormal
610	Hemoglobin	Num	8	8.1		Hemoglobin (mg/dL)
611	BaseALT_NA	Char	8	\$8.		Baseline: ALT (IU/L) - Normal or Abnormal
612	BaseTotProtein_NA	Char	8	\$8.		Baseline: Total Protein (g/dL) - Normal or Abnormal
613	ShiftAlkPhosph	Char	20	\$20.		Shift of Alk Phosphatase (IU/L) form baseline to worst value
614	Methionine	Num	8	8.3		Methionine (uM)
615	Aspartic_Acid	Num	8	8.3		Aspartic_Acid (uM)
616	URIN_PH	Num	8	8.1		pH -Urinalysis
617	APNOT	Char	1	\$1.		Right Ventricular to Right Atrial Difference, Not Reported - Abnormal

Num	Variable	Type	Len	Format	Informat	Label
618	MCV_NORM4	Num	8	8.2		Norm MCV - ECDF
619	PChBaseHydroxylysine	Num	8	8.2		Percent Change from Baseline: Hydroxylysine (uM)