



WHIMS STUDY Form D, Phase 4: Laboratory and Imaging

Studies

Data file: p4form

File Date: July 11, 2007

Structure: One row per participant

Participant ID

Variable#: 1 Usage Notes: none  
SAS Name: id  
SAS Label: Participant ID Categories: Study: Administration

Assoc F39 Days since Randomization

Variable #: 2 Usage Notes: none  
SAS Name: f39days  
SAS Label: AssocF39Days Categories: Study: Cognitive

N	Minimum	Maximum	Mean	Std Dev
144	0	2562	1209	607

Phase 4 Form Days since Randomization

Variable #: 3 Usage Notes: none  
SAS Name: p4days  
SAS Label: Phase4FormDays Categories: Study: Cognitive

N	Minimum	Maximum	Mean	Std Dev
144	66	2633	1284	611

Q1. BUN

Variable #: 4 Usage Notes: none  
SAS Name: lbun  
SAS Label: Q1.BUN Categories: Laboratory

Values	N	%
.	10	7.0
0 Normal	121	84.0
1 Abnormal	11	7.6
8 Not Assessed	2	1.4

Q2. Glucose

Variable #: 5 Usage Notes: none  
SAS Name: lglucose  
SAS Label: Q2.Glucose Categories: Laboratory

Values	N	%
.	10	7.0
0 Normal	96	66.6
1 Abnormal	36	25.0
8 Not Assessed	2	1.4

---

### Q3. Thyroid (TSH)

**Variable #:** 6 **Usage Notes:** none  
**SAS Name:** labtsh  
**SAS Label:** Q3.Thyroid(TSH) **Categories:** Laboratory

Values	N	%
.	9	6.2
0 Normal	114	79.2
1 Abnormal	20	13.8
8 Not Assessed	1	0.6

---

### Q4. B-12

**Variable #:** 7 **Usage Notes:** none  
**SAS Name:** lab\_b12  
**SAS Label:** Q4.B-12 **Categories:** Laboratory

Values	N	%
.	10	7.0
0 Normal	115	79.8
1 Abnormal	13	9.0
8 Not Assessed	6	4.2

---

### Q5. Folate

**Variable #:** 8 **Usage Notes:** none  
**SAS Name:** lfolate  
**SAS Label:** Q5.Folate **Categories:** Laboratory

Values	N	%
.	12	8.4
0 Normal	108	75.0
1 Abnormal	17	11.8
8 Not Assessed	6	4.2
9 Don't Know	1	0.6

---

### Q6. Test for syphilis

**Variable #:** 9 **Usage Notes:** none  
**SAS Name:** lsyphili  
**SAS Label:** Q6.Testforsyphilis **Categories:** Laboratory

Values	N	%
.	14	9.8
0 Normal	120	83.4
1 Abnormal	4	2.8
8 Not Assessed	6	4.2

---

### Q7. CBC with differential

**Variable #:** 10 **Usage Notes:** none  
**SAS Name:** labcbc

**SAS Label:** Q7.CBCwithdifferential

**Categories:** Laboratory

<b>Values</b>	<b>N</b>	<b>%</b>
.	11	7.6
0 Normal	101	70.2
1 Abnormal	27	18.8
8 Not Assessed	4	2.8
9 Don't Know	1	0.6

---

**Q8. Other (e.g., sed rate)**

**Variable #:** 11 **Usage Notes:** none  
**SAS Name:** labother  
**SAS Label:** Q8.Other(e.g.,sedrate) **Categories:** Laboratory

Values	N	%
.	81	56.2
0 Normal	29	20.2
1 Abnormal	14	9.8
8 Not Assessed	17	11.8
9 Don't Know	3	2.0

---

**Q10. Head CT or MRI?**

**Variable #:** 12 **Usage Notes:** none  
**SAS Name:** mri  
**SAS Label:** Q10.HeadCTorMRI? **Categories:** Imaging

Values	N	%
.	9	6.2
0 No	18	12.6
1 Yes	117	81.2

---

**Days from randomization to Previous MRI**

**Variable #:** 13 **Usage Notes:** none  
**SAS Name:** PrevMRIDays  
**SAS Label:** PreviousMRIDays **Categories:** Imaging

N	Minimum	Maximum	Mean	Std Dev
111	79	2827	1309	666

---

**Q11. Abnormal CT/MRI?**

**Variable #:** 14 **Usage Notes:** none  
**SAS Name:** mriabnor  
**SAS Label:** Q11.AbnormalCT/MRI? **Categories:** Imaging

Values	N	%
.	19	13.2
0 No	40	27.8
1 Yes	84	58.4
8 Don't Know	1	0.6

---

**A1. Memory impairment (vascular)**

**Variable #:** 15 **Usage Notes:** none  
**SAS Name:** memrecal  
**SAS Label:** A1.Memoryimpairment(vascular) **Categories:** Classification

Values	N	%
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.	37	25.6
0 No	5	3.4
1 Yes	102	70.8

---

**A2a. Aphasia (vascular)**

**Variable #:** 16 **Usage Notes:** none  
**SAS Name:** aphasia  
**SAS Label:** A2a.Aphasia(vascular) **Categories:** Classification

---

Values	N	%
.	41	28.4
0 No	47	32.6
1 Yes	56	38.8

---

**A2b. Apraxia (vascular)**

**Variable #:** 17 **Usage Notes:** none  
**SAS Name:** apraxia  
**SAS Label:** A2b.Apraxia(vascular) **Categories:** Classification

---

Values	N	%
.	45	31.2
0 No	79	54.8
1 Yes	20	13.8

---

**A2c. Agnosia (vascular)**

**Variable #:** 18 **Usage Notes:** none  
**SAS Name:** agnosia  
**SAS Label:** A2c.Agnosia(vascular) **Categories:** Classification

---

Values	N	%
.	48	33.4
0 No	83	57.6
1 Yes	13	9.0

---

**A2d. Dist in exec func (vascular)**

**Variable #:** 19 **Usage Notes:** none  
**SAS Name:** planning  
**SAS Label:** A2d.Distinexecfunc(vascular) **Categories:** Classification

---

Values	N	%
.	41	28.4
0 No	24	16.6
1 Yes	79	54.8

---

**B. Declined social funct (vasc.)**

**Variable #:** 20 **Usage Notes:** none  
**SAS Name:** socfunct  
**SAS Label:** B.Declinedsocialfunct(vasc.) **Categories:** Classification

---

Values	N	%
.	41	28.4

---

0 No	21	14.6
1 Yes	82	57.0

---



### C. Focal signs cerebrovasc disease

**Variable #:** 21 **Usage Notes:** none  
**SAS Name:** focalsig  
**SAS Label:** C.Focalsignscerebrovascdisease **Categories:** Classification

Values	N	%
.	36	25.0
0 No	80	55.6
1 Yes	28	19.4

---

### D. Not just during delirium (vascular)

**Variable #:** 22 **Usage Notes:** none  
**SAS Name:** delir  
**SAS Label:** D.Notjustduringdelirium(vascular) **Categories:** Classification

Values	N	%
.	40	27.8
0 No	20	13.8
1 Yes	84	58.4

---

### Cerebrovascular disease only

**Variable #:** 23 **Usage Notes:** none  
**SAS Name:** vasonly  
**SAS Label:** Cerebrovasculariseaseonly **Categories:** Classification

Values	N	%
.	76	52.8
0 No	56	38.8
1 Yes	12	8.4

---

### A1. Memory impairment (alzheimers)

**Variable #:** 24 **Usage Notes:** none  
**SAS Name:** learnnew  
**SAS Label:** A1.Memoryimpairment(alzheimers) **Categories:** Classification

Values	N	%
.	23	16.0
0 No	4	2.8
1 Yes	117	81.2

---

### A2a. Aphasia (alzheimers)

**Variable #:** 25 **Usage Notes:** none  
**SAS Name:** langdist  
**SAS Label:** A2a.Aphasia(alzheimers) **Categories:** Classification

Values	N	%
.	30	20.8

0 No	47	32.6
1 Yes	67	46.6

---

**A2b. Apraxia (alzheimers)**

**Variable #:** 26 **Usage Notes:** none  
**SAS Name:** motoract  
**SAS Label:** A2b.Apraxia(alzheimers) **Categories:** Classification

Values	N	%
.	34	23.6
0 No	87	60.4
1 Yes	23	16.0

---

**A2c. Agnosia (alzheimers)**

**Variable #:** 27 **Usage Notes:** none  
**SAS Name:** senfunct  
**SAS Label:** A2c.Agnosia(alzheimers) **Categories:** Classification

Values	N	%
.	37	25.6
0 No	88	61.2
1 Yes	19	13.2

---

**A2d. Disturbed executive funct (alzheim)**

**Variable #:** 28 **Usage Notes:** none  
**SAS Name:** exefunc  
**SAS Label:** A2d.Disturbedexecutivefunct(alzheim) **Categories:** Classification

Values	N	%
.	51	35.4
0 No	17	11.8
1 Yes	76	52.8

---

**B. Declined social funct (alzheim)**

**Variable #:** 29 **Usage Notes:** none  
**SAS Name:** cdeficit  
**SAS Label:** B.Declinedsocialfunct(alzheim) **Categories:** Classification

Values	N	%
.	25	17.4
0 No	21	14.6
1 Yes	98	68.0

---

**C. Gradual onset & cont cog decline**

**Variable #:** 30 **Usage Notes:** none  
**SAS Name:** contcogd  
**SAS Label:** C.Gradualonset&contcogdecline **Categories:** Classification

Values	N	%
.	24	16.6

0 No	20	13.8
1 Yes	100	69.4

---

**D1. Other prog cognitive conds.**

**Variable #:** 31 **Usage Notes:** none  
**SAS Name:** hematoma  
**SAS Label:** D1.Otherprogognitiveconds. **Categories:** Classification

Values	N	%
.	28	19.4
0 No	40	27.8
1 Yes	76	52.8

---

**D2. Systemic conds. causing dementia**

**Variable #:** 32 **Usage Notes:** none  
**SAS Name:** hivinfec  
**SAS Label:** D2.Systemicconds.causingdementia **Categories:** Classification

Values	N	%
.	31	21.6
0 No	35	24.4
1 Yes	78	54.2

---

**D3. Substance induced conditions**

**Variable #:** 33 **Usage Notes:** none  
**SAS Name:** subinduc  
**SAS Label:** D3.Substanceinducedconditions **Categories:** Classification

Values	N	%
.	28	19.4
0 No	28	19.4
1 Yes	88	61.2

---

**E. Not just during delirium (alzheimer)**

**Variable #:** 34 **Usage Notes:** none  
**SAS Name:** delirium  
**SAS Label:** E.Notjustduringdelirium(alzheimer) **Categories:** Classification

Values	N	%
.	27	18.8
0 No	22	15.2
1 Yes	95	66.0

---

**F. No better explanation**

**Variable #:** 35 **Usage Notes:** none  
**SAS Name:** schizoph  
**SAS Label:** F.Nobetterexplanation **Categories:** Classification

Values	N	%
.	28	19.4

0 No	24	16.6
1 Yes	92	63.8

---

**Alzheimers disease only**

**Variable #:** 36 **Usage Notes:** none  
**SAS Name:** alzhonly  
**SAS Label:** Alzheimersdiseaseonly **Categories:** Classification

Values	N	%
.	55	38.2
0 No	31	21.6
1 Yes	58	40.2

---

**a. Mixed Type Dementia**

**Variable #:** 37 **Usage Notes:** none  
**SAS Name:** alzheime  
**SAS Label:** a.MixedTypeDementia **Categories:** Classification

Values	N	%
.	71	49.4
0 No	49	34.0
1 Yes	24	16.6

---

**b. Normal Pressure Hydrocephalus**

**Variable #:** 38 **Usage Notes:** none  
**SAS Name:** nphydroc  
**SAS Label:** b.NormalPressureHydrocephalus **Categories:** Classification

Values	N	%
.	75	52.0
0 No	65	45.2
1 Yes	4	2.8

---

**b. Abnormal Gait**

**Variable #:** 39 **Usage Notes:** none  
**SAS Name:** abngait  
**SAS Label:** b.AbnormalGait **Categories:** Classification

Values	N	%
.	141	98
-1 Present	3	2

---

**b. Incontinence**

**Variable #:** 40 **Usage Notes:** none  
**SAS Name:** incontin  
**SAS Label:** b.Incontinence **Categories:** Classification

Values	N	%
.	143	99.4
-1 Present	1	0.6

---



#### b. Hydrocephalus on CT scan

**Variable #:** 41 **Usage Notes:** none  
**SAS Name:** hydrocep  
**SAS Label:** b.HydrocephalusonCTscan **Categories:** Classification

Values	N	%
.	141	98
-1 Present	3	2

---

#### c. Parkinsons Dementia

**Variable #:** 42 **Usage Notes:** none  
**SAS Name:** parkdeme  
**SAS Label:** c.ParkinsonsDementia **Categories:** Classification

Values	N	%
.	76	52.8
0 No	67	46.6
1 Yes	1	0.6

---

#### c. History of Parkinsons Disease

**Variable #:** 43 **Usage Notes:** none  
**SAS Name:** histpark  
**SAS Label:** c.HistoryofParkinsonsDisease **Categories:** Classification

Values	N	%
.	144	100

---

#### c. Extrapyrarnidal Symptoms

**Variable #:** 44 **Usage Notes:** none  
**SAS Name:** extrasym  
**SAS Label:** c.ExtrapyrarnidalSymptoms **Categories:** Classification

Values	N	%
.	143	99.4
-1 Present	1	0.6

---

#### d. Metabolic Dementia

**Variable #:** 45 **Usage Notes:** none  
**SAS Name:** metademe  
**SAS Label:** d.MetabolicDementia **Categories:** Classification

Values	N	%
.	77	53.4
0 No	59	41.0
1 Yes	8	5.6

---

**d. Metabolic Dement: B12**

**Variable #:** 46 **Usage Notes:** none  
**SAS Name:** b12  
**SAS Label:** d.MetabolicDement:B12 **Categories:** Classification

Values	N	%
.	140	97.2
-1 Present	4	2.8

---

**d. Metabolic Dement: Folate**

**Variable #:** 47 **Usage Notes:** none  
**SAS Name:** folate  
**SAS Label:** d.MetabolicDement:Folate **Categories:** Classification

Values	N	%
.	144	100

---

**d. Metabolic Dement: Thyroid Disease**

**Variable #:** 48 **Usage Notes:** none  
**SAS Name:** thyroid  
**SAS Label:** d.MetabolicDement:ThyroidDisease **Categories:** Classification

Values	N	%
.	141	98
-1 Present	3	2

---

**d. Metabolic Dement: Liver Failure**

**Variable #:** 49 **Usage Notes:** none  
**SAS Name:** liverf  
**SAS Label:** d.MetabolicDement:LiverFailure **Categories:** Classification

Values	N	%
.	144	100

---

**d. Metabolic Dement: Kidney Failure**

**Variable #:** 50 **Usage Notes:** none  
**SAS Name:** kidneyf  
**SAS Label:** d.MetabolicDement:KidneyFailure **Categories:** Classification

Values	N	%
.	144	100

---

**e. Frontal Lobe Dementia**

**Variable #:** 51 **Usage Notes:** none  
**SAS Name:** lobeltyp

**SAS Label:** e.FrontalLobeDementia **Categories:** Classification

Values	N	%
.	76	52.8
0 No	64	44.4
1 Yes	4	2.8

---

**e. Frontal Executive Dysfunction**

**Variable #:** 52 **Usage Notes:** none  
**SAS Name:** exedysfu  
**SAS Label:** e.FrontalExecutiveDysfunction **Categories:** Classification

Values	N	%
.	143	99.4
-1 Present	1	0.6

---

**e. Language preserved**

**Variable #:** 53 **Usage Notes:** none  
**SAS Name:** lfpreser  
**SAS Label:** e.Languagepreserved **Categories:** Classification

Values	N	%
.	144	100

---

**e. Diminished Inhibition**

**Variable #:** 54 **Usage Notes:** none  
**SAS Name:** diminhib  
**SAS Label:** e.DiminishedInhibition **Categories:** Classification

Values	N	%
.	144	100

---

**e. Decreased Planning**

**Variable #:** 55 **Usage Notes:** none  
**SAS Name:** decplan  
**SAS Label:** e.DecreasedPlanning **Categories:** Classification

Values	N	%
.	144	100

---

**f. Alcohol Related Dementia**

**Variable #:** 56 **Usage Notes:** none  
**SAS Name:** alcoholr  
**SAS Label:** f.AlcoholRelatedDementia **Categories:** Classification

Values	N	%
.	75	52.0
0 No	66	45.8
1 Yes	3	2.0

---

**f. History of alcohol abuse**

**Variable #:** 57 **Usage Notes:** none  
**SAS Name:** hisabuse  
**SAS Label:** f.Historyofalcoholabuse **Categories:** Classification

Values	N	%
.	144	100

---

**f. Dementia beyond withdrawal**

**Variable #:** 58 **Usage Notes:** none  
**SAS Name:** wdrawsyn

**SAS Label:** f.Dementiabeyondwithdrawal

**Categories:** Classification

Values	N	%
.	144	100

---

**g. Dementia 2ndary to Medical Conds**

**Variable #:** 59 **Usage Notes:** none  
**SAS Name:** demsecon  
**SAS Label:** g.Dementia2ndarytoMedicalConds **Categories:** Classification

---

Values	N	%
.	78	54.2
0 No	63	43.8
1 Yes	3	2.0

---

**g. Head Trauma**

**Variable #:** 60 **Usage Notes:** none  
**SAS Name:** htrauma  
**SAS Label:** g.HeadTrauma **Categories:** Classification

---

Values	N	%
.	144	100

---

**g. Picks Disease**

**Variable #:** 61 **Usage Notes:** none  
**SAS Name:** pickdise  
**SAS Label:** g.PicksDisease **Categories:** Classification

---

Values	N	%
.	144	100

---

**g. Creutzfeldt-Jakob Disease**

**Variable #:** 62 **Usage Notes:** none  
**SAS Name:** jakobdis  
**SAS Label:** g.Creutzfeldt-JakobDisease **Categories:** Classification

---

Values	N	%
.	144	100

---

**g. Brain Tumor**

**Variable #:** 63 **Usage Notes:** none  
**SAS Name:** bratumor  
**SAS Label:** g.BrainTumor **Categories:** Classification

---

Values	N	%
.	144	100

---

**g. HIV (Seconadary Dementia)**

**Variable #:** 64 **Usage Notes:** none  
**SAS Name:** hiv

**SAS Label:** g.HIV(SeconadaryDementia)

**Categories:** Classification

<b>Values</b>	<b>N</b>	<b>%</b>
.	144	100

---

**g. Syphilis (Secondary Dementia)**

**Variable #:** 65 **Usage Notes:** none  
**SAS Name:** syphilis  
**SAS Label:** g.Syphilis(SecondaryDementia) **Categories:** Classification

Values	N	%
.	143	99.4
-1 Present	1	0.6

---

**h. Dementia 2ndary to Depression**

**Variable #:** 66 **Usage Notes:** none  
**SAS Name:** demsedep  
**SAS Label:** h.Dementia2ndarytoDepression **Categories:** Classification

Values	N	%
.	79	54.8
0 No	60	41.6
1 Yes	5	3.4

---

**i. Other Dementia Category**

**Variable #:** 67 **Usage Notes:** none  
**SAS Name:** otherdem  
**SAS Label:** i.OtherDementiaCategory **Categories:** Classification

Values	N	%
.	87	60.4
0 No	47	32.6
1 Yes	10	7.0

---

**j. Dementia, unk**

**Variable #:** 68 **Usage Notes:** none  
**SAS Name:** labjdementia  
**SAS Label:** j.Dementia,unk **Categories:** Classification

Values	N	%
.	112	77.8
0 No	25	17.4
1 Yes	7	4.8

---

**Remarks explaining classif**

**Variable #:** 69 **Usage Notes:** none  
**SAS Name:** comments  
**SAS Label:** Remarksexplainingclassif **Categories:** Classification

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