



VA Spinal Cord Injury/Disorders Services



Disclosures

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Has no financial interest or relationships to disclose
- Belinda Frazier
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- Jean Laubscher
Has no financial interest or relationships to disclose

- CME Staff Disclosures
Professional Education Services Group staff have no financial interest or relationships to disclose.



VA Spinal Cord Injury/Disorders Services



Learning Objectives

At the conclusion of this activity, the participant will be able to:

A. Describe methods implemented by the VA to collect, analyze, and utilize outcomes to improve patient care:

- Structure and operations of the outcomes program
- Innovative information technology infrastructure



VA Spinal Cord Injury/Disorders Services



Outcomes in the VA SCI/D System of Care: Collection, Analysis, Utilization

Phil Ullrich

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History of SCI/D Outcomes



Changing Expectations due to:

Advances in medical treatments....

.... and broader changes:

- **Rehabilitation Act in 1973**
- **Americans with Disabilities Act 1990**
- **World Health Organization (WHO)**
- **International Classification of Functioning, Disability and Health (ICF)**
- **International standards in outcomes tracking**



Objectives



Describe methods implemented by the VA to collect, analyze, and utilize outcomes to improve patient care:

- **Innovative information technology infrastructure**
- **Structure and operations of the outcomes program.**



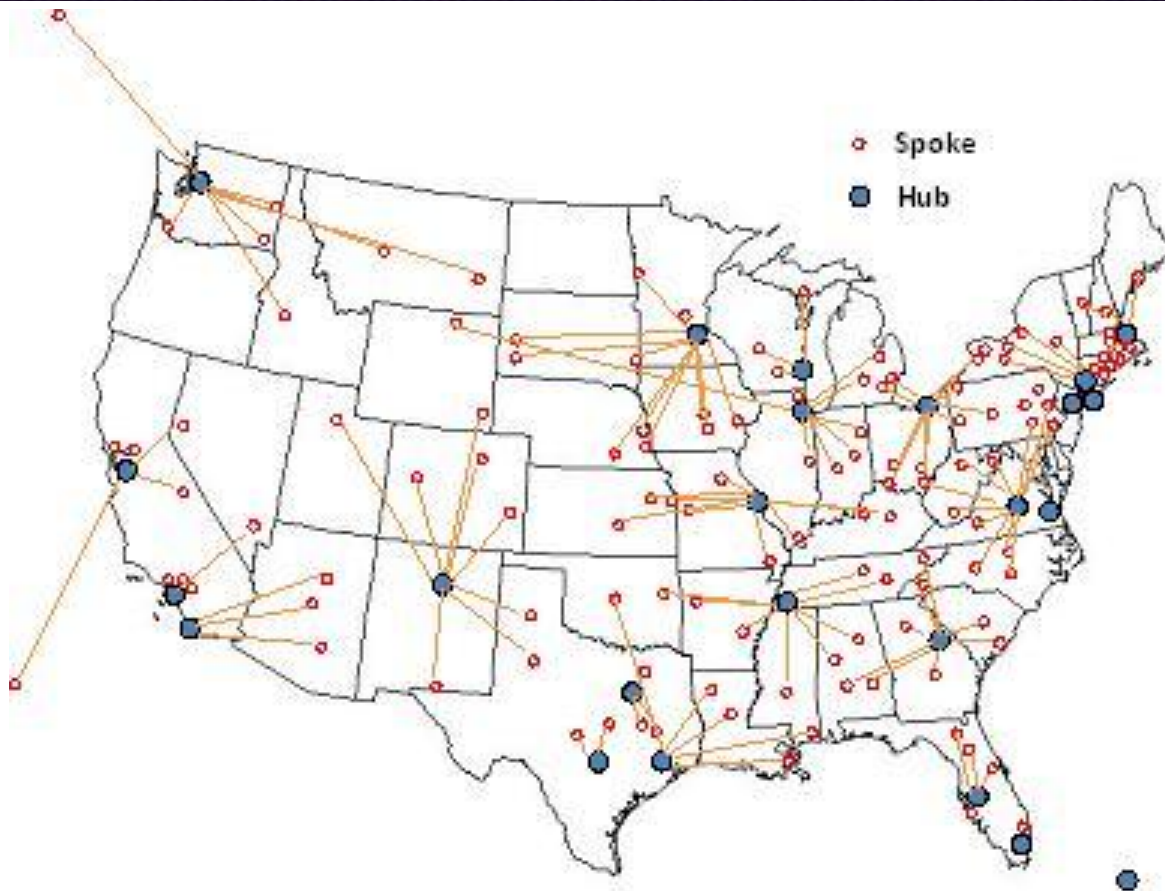
VA SCI/D Services

Post-WWII Era Beginnings





VA SCI/D Services Today





VA SCI/D Services



The mission of the spinal cord injury and disorders (SCI/D) program is to promote the health, independence, quality of life, and productivity of individuals with SCI/D throughout their lives

Critical needs:

Data-driven continuous quality improvement programs

Nationally coordinated outcomes data

Internal benchmarking



Need for Internal Benchmarks

Older

49 % over age 65

Sicker

Compared to Age-Matched Americans

- 3 Additional Non-Mental Health Diagnoses
- 1 Additional Mental Health Diagnosis

Poorer

~ 70% with annual incomes < \$26,000

~ 40% with annual incomes < \$16,000



Development of VA SCI/D Outcomes



1996: SCI/D data registry

2001: Outcomes software system (SCIDO)

2002: Early Benchmarking efforts (11 SCI centers)

2008: National outcomes program established



Outcomes Project Mission



To provide a national, validated, risk-adjusted, outcomes-based program to measure and enhance the quality of rehabilitation and healthcare provided to Veterans with SCI/D



Outcomes Project Mission



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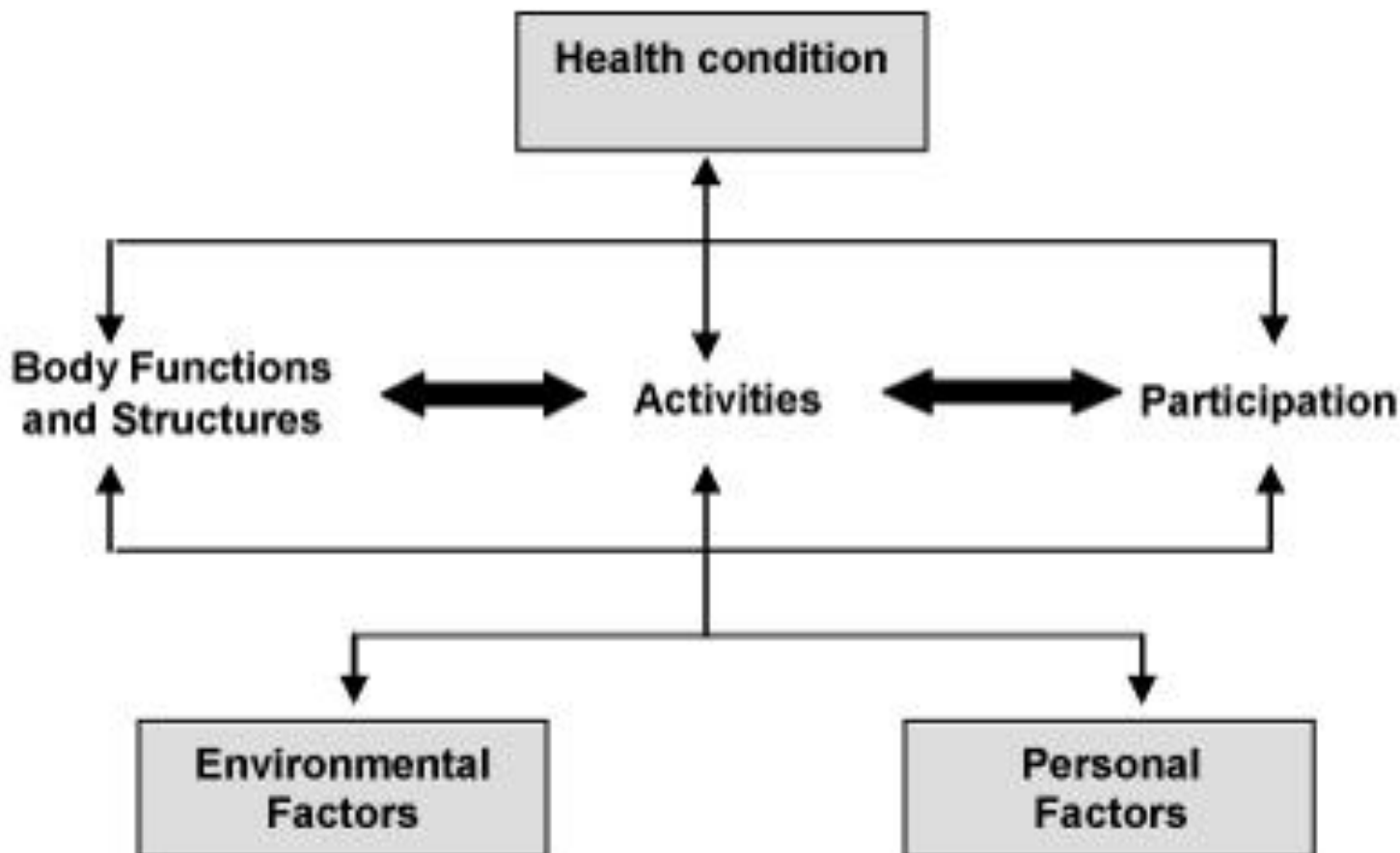
Strategic Objectives



- 1) Standardize the use of reliable and valid outcome and program evaluation measures**
- 2) Utilize risk-adjusted outcomes to understand care, resources, variability, quality, and the impact of SCI/D**
- 3) Develop outcomes-based policy development, monitoring, and quality improvement programs.**



Conceptual Model: WHO-ICF





Outcomes Settings and Sources

Inpatient Rehabilitation

START

- ◆ ASIA
- ◆ FIM™
- ◆ Satisfaction with life (SWLS)

FINISH

- ◆ ASIA
- ◆ FIM™
- ◆ D/C destination

3-Month Follow-up

- ◆ FIM™
- ◆ Participation (CHART-SF)
- ◆ SWLS
- ◆ Health Status (SF-8™)

Also collected: Age, gender, education, etiology, length of stay

Calculated: FIM Gain, FIM Efficiency, Goal attainment, Neurological stability, and more.



Outcomes Settings and Sources

Outpatient Rehabilitation

START

- ◆ FIM™ + FAM
- ◆ Participation (CHART-SF)
- ◆ Satisfaction with life (SWLS)
- ◆ Health Status (SF-8™)
- ◆ Medical issues (DUSOI)

FINISH

- ◆ FIM™ + FAM
- ◆ CHART-SF
- ◆ SWLS
- ◆ SF-8™

3-Month Follow-up

- ◆ FIM™ + FAM
- ◆ CHART-SF
- ◆ SWLS
- ◆ SF-8™



Outcomes Settings and Sources

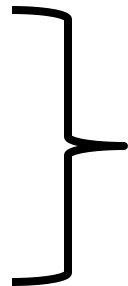
Annual Evaluations

ASIA

Overall Health

Independence

Depression



Check Your Health tool

Education, employment, bladder drainage



Outcomes Settings and Sources



Annual Evaluations: Long Term Care

ASIA

CYH Tool: Overall Health, Independence, Depression

Education, employment, bladder drainage

Pain: Short Form McGill Pain Questionnaire

Depression: PRIME-MD, CES-D

Health Status (SF-8™)

Satisfaction with life (SWLS)



Data Collection

Outcomes coordinators at each SCI Center

- Manage data collection and quality assurance
- Lead analysis of local outcomes data
- Facilitate outcomes utilization for quality improvement

VA SCI/D Services interdisciplinary teams:

- Medicine
- Nursing
- Social work
- OT, PT, RT
- Voc Rehab
- Psychology
- **Outcomes Coordinator**



Questions?





Data Collection: SCIDO

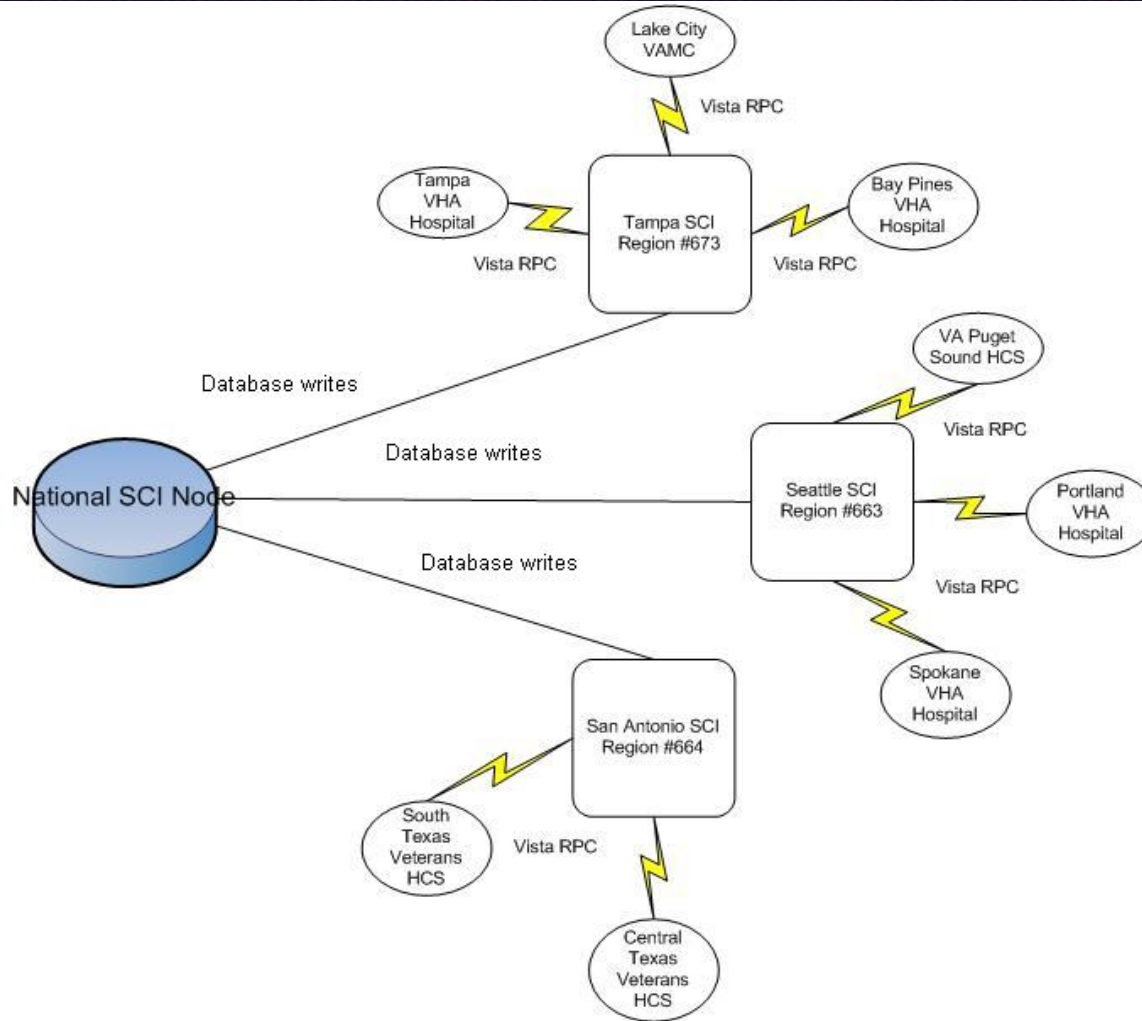


**Spinal Cord Injury And
Disorders Outcomes (SCIDO)**

**The principal tool for measuring and utilizing
outcomes in the VA SCI/D System of Care**

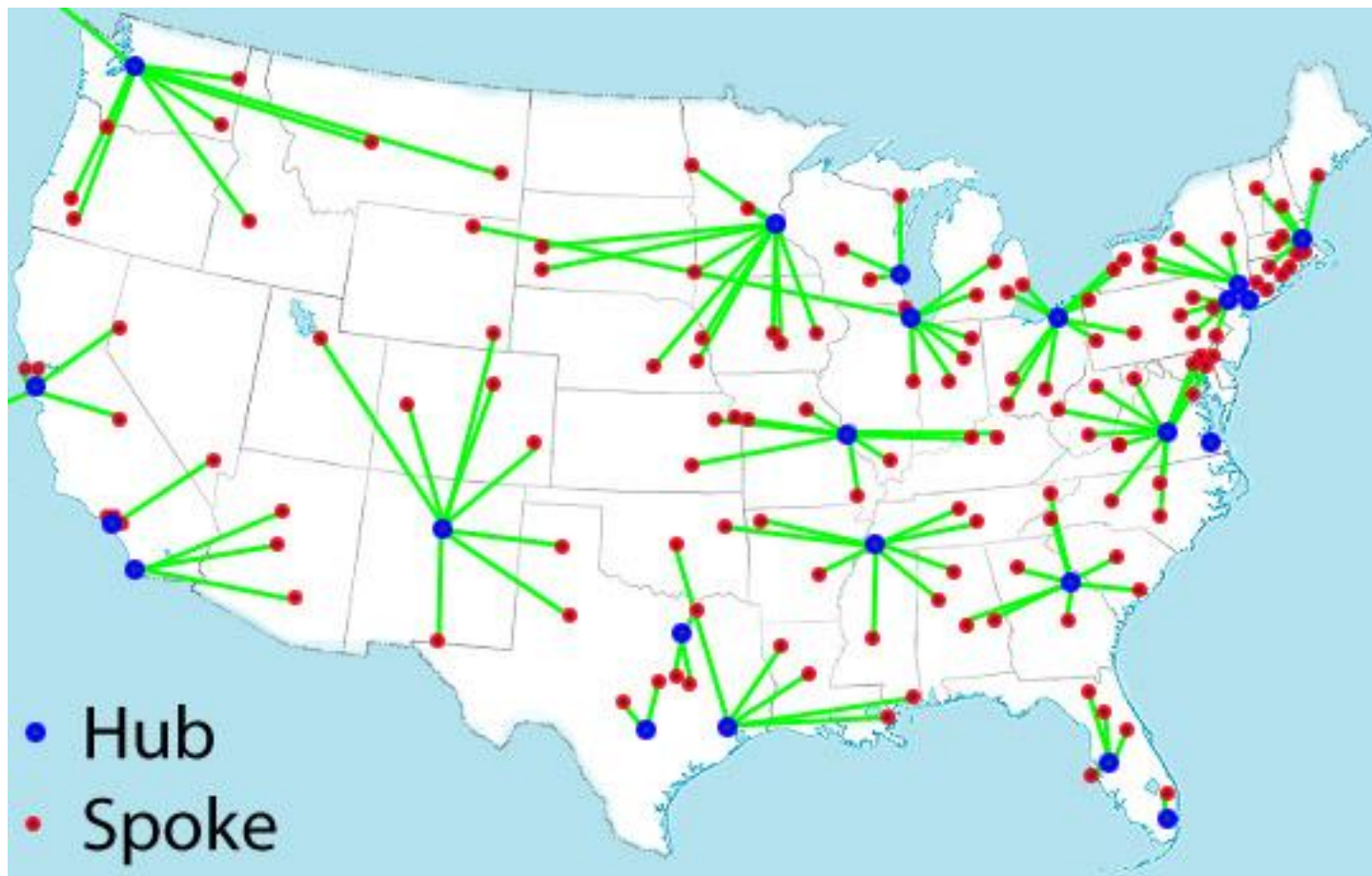


Hub and Spoke Architecture





SCI/D Catchments



SCIDO Cover Sheet

Patient Search

Spinal Cord Injury and Disorders Outcomes

Logout

Name: SPINALCORD,SIXTEEN
SSN : 000-00-0016

Date of Birth :
Education: SC

Neuro. Level: C07
Employment: RT

ASIA: D
Bladder Drainage:

Next AE Due: 06/12/2006
Pressure Ulcer: 1

Cover Sheet

Recent Diagnoses

--

Recent CPT Codes

(A9900), Supply/accessory/service 09/04/2004
(A9900), Supply/accessory/service 08/18/2004
(A9900), Supply/accessory/service 08/06/2004
(A9900), Supply/accessory/service 08/06/2004
(A9900), Supply/accessory/service 07/14/2004
(A9900), Supply/accessory/service 06/18/2004
(A9900), Supply/accessory/service 05/20/2004

Participation

Education: SC = Some College, Technical School, AA, or AS
Employment: RT = Retired
Hours of Attendant Care/Day: 7.0
Paid Attendant Care/Day: 0.0
Unpaid Attendant Care/Day: 7.0

Medical Complications

Pneumonia in Past Year: No
Pressure Ulcers: 1 Most Severe Stage: 1
UTIs in Past Year: 0
Bladder Drainage:
Recent Pain Rating: 18

Activities

Total FIM: 118
Motor FIM: 83
Cognitive FIM: 35

Print Help

Cover Sheet

Registration/Context

Impairments

Medical Complications

Activities

Participation & SWLS

Reports

Registration Tab


Patient Search		Spinal Cord Injury and Disorders Outcomes			Logout
Name: TEST,ACPRS PATIENT,ONE	Date of Birth	Neuro. Level: T01	ASIA: A	Next AE Due: 01/15/2002	
SSN : 000-00-6789	Education: PR	Employment:	Bladder Drainage:	Pressure Ulcer:	
Registration					
Additional Information		SCI&D Registration and Network Status		Display Information	
Highest Level of Education:		* Registration: NS = Not SCD		Metro/Micro/Rural:	
PR = Graduate or Professional School		* SCI Network? <input checked="" type="radio"/> Yes <input type="radio"/> No		Veteran's Home Address:	
Occupation at Time of Injury:		* Date Changed: 04/10/2008		.	
PR = Professional and Technical		Network History: Y 04/10/2008		SEATTLE WA 98108	
Service-Connected for SCI: <input checked="" type="radio"/> Yes <input type="radio"/> No		ASIA Information		Registration Date: 04/02/2001	
First Seen in VA for SCI: 01/15/2001		Highest Neurological Level: T01		Date of Last Review: 04/25/2008	
Amount VA Is Used:		Impairment Scale: A		Last Updated By: Jeanne R Laubscher	
HF = Half VA/Half Non-VA		Primary Care Information		VA SCI Status:	
SCI&D Outcomes Coordinator:		Primary Care VAMC: PUGET SOUND HCS (663)		Date of Death:	
ZZZZ,ZZZ Search		Provider: Search		Enrollment Priority:	
Historic SCI&D Outcomes Coordinators:		Etiology Information		Medical Centers Visited:	
ZZZZ,ZZZ 04/25/2008		<input type="radio"/> Trauma: <input checked="" type="radio"/> Non-Trauma		PUGET SOUND HCS 04/23/2008	
Episode of Care		NOT = Other		Print Reset Submit Help	
Patient Education		Describe Other Etiology:		AE VAMC:	
Ancillary Data Entry		MS Subtype:			
Cover Sheet		Date of Onset: 04/02/2001			
Registration		History:			
Impairments		Annual Evaluation Information			
Medical Complications		Offered: 01/15/2001			
Activities		Received: 01/15/2001			
Participation & SWLS		Next Due: 01/15/2002			
Reports		<input type="checkbox"/> Veteran declines further Annual Evaluation			
Admin Page		AE VAMC:			

SCIDO has been organized using World Health Organization concepts. Four health domain topics include:

 Impairments

 Medical Complications

 Activities

 Participation & Satisfaction with Life

Cover Sheet	Registration	Impairments	Medical Complications	Activities	Participation & SWLS	Reports
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Impairments Tab



Patient Search

Spinal Cord Injury and Disorders Outcomes

Logout

Name: SPINALCORD,SIXTEEN
SSN : 000-00-0016

Date of Birth
Education: PR

Neuro. Level: C06
Employment: EP

ASIA: C
Bladder Drainage: SC

Next AE Due: 12/19/2007
Pressure Ulcer: 1

Impairments

Secondary Conditions:

Date	ICD	Description
05/10/2005	598.9	URETHRAL STRICTURE NOS

Swallowing Status: 3 = Regular Food

Dehydration Signs: 0 = No

Pre-Existing Diagnoses:

09/08/1998	V65.49	OTHER SPECIFIED COUNSELING
06/26/2000	730.2	LABORATORY

Brain Injury?: Yes No

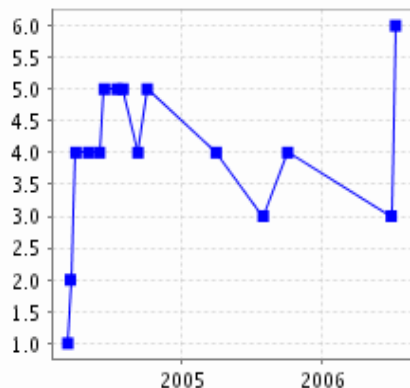
Other Injury?: Yes No

Pre-Existing Procedures:

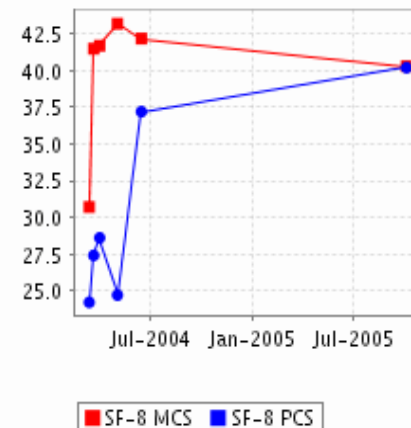
Date	CPT	Description
02/18/2003	99401	PREVENTIVE COUNSELING INDIV

Describe Other:

CYH Changes Over Time



SF-8 Changes Over Time



Assessment Entry Forms

Scores / Date

Scores / Date

ASIA: C06, C, 07/13/2006 ST DAST: 6, 10/01/2004 FI

AUDIT: 13, 10/14/2005 IN DUSOI: 41.5, 07/01/2006 ST

CAGE: 4, 10/04/2005 ST DUSOI-A: 81, 10/04/2005 ST

CES-D: 10, 10/01/2004 FI PRIME-MD: 1, 07/01/2006 ST

CYH: 6, 07/12/2006 UN SF-8: 40.2, 40.3, 10/04/2005 ST

Body Mass Index (BMI)

Weight: 155.0 Pounds

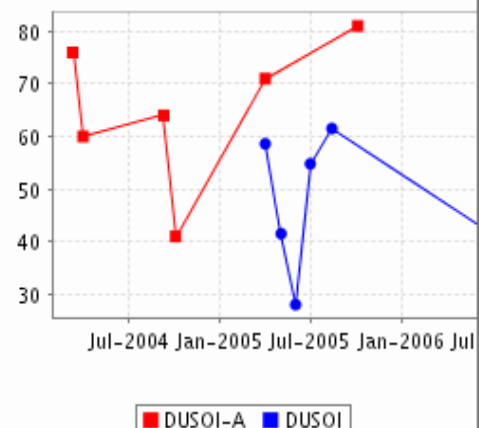
Height: 70.0 Inches

Body Mass Index: 22.2

BMI History

BMI: 22.2, 12/04/2006 UN

DUSOI Changes Over Time



Print Reset Submit Help

Cover Sheet

Registration

Impairments

Medical Complications

Activities

Participation & SWLS

Reports

Medical Complications Tab



Patient Search

Spinal Cord Injury and Disorders Outcomes

Logout

Name: SPINALCORD,SIXTEEN
SSN : 000-00-0016

Date of Birth :
Education: PR

Neuro. Level: C06
Employment: EP

ASIA: C
Bladder Drainage: SC

Next AE Due: 12/19/2007
Pressure Ulcer: 1

Medical Complications

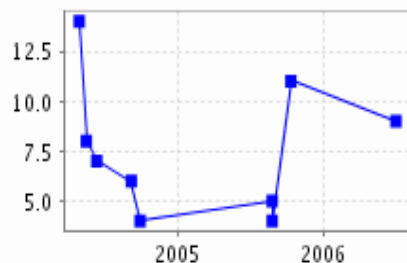
Pneumonia and Respiratory

Ventilator Equip./Supplies:

Pneumonia Dxs & Respiratory Report

Pneumonia Immunizations Report

PUSH Over Time



Recent PUSH Scores:

Pain

SF-MPQ History

T-PRI: 16, S-PRI: 16, A-PRI: 0, 07/01/2006 ST

SF-MPQ Instrument Form

Pain Assessment & Treatment Report

Influenza

Influenza Dxs & Treatment Report

Influenza Immunizations Report

Pressure Ulcers

Press. Ulcer Risk: Risk Record Date:

Risk Instrument Used:

Risk Instrument History:

PUSH Instrument Form

Pressure Ulcer Report

Finish Record Date

Predominant Position at Finish:

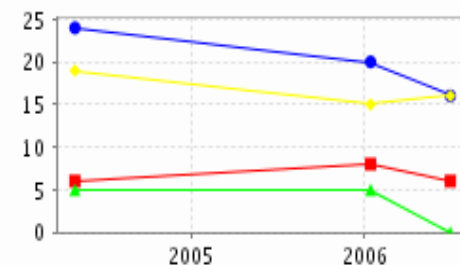
Is Ulcer Closed/Healed?: Yes No

Sitting Time: Hours

Time to Achieve Healing: Days

Pressure Ulcer Finish History:

SF-MPQ and PPI



Legend: SF-MPQ PPI (red), SF-MPQ T-PRI (blue), SF-MPQ A-PRI (green), SF-MPQ S-PRI (yellow)

Print Reset Submit Help

Cover Sheet

Registration

Impairments

Medical Complications

Activities

Participation & SWLS

Reports

Urinary Tract Infections Report



Patient Search

Spinal Cord Injury and Disorders Outcomes

Logout

Name: SPINALCORD,SIXTEEN
SSN: 000-00-0016

Date of Birth :
Education: PR

Neuro. Level: C06
Employment: EP

ASIA: C
Bladder Drainage: IC

Next AE Due: 12/19/2007
Pressure Ulcer: 1

Urinary Tract Infections Report

Bladder Drainage: IC = Intermittent Catheterization

Laboratory Results

Select date range. The default is five years.

All Results

Urinary Tract Diagnoses

Date	ICD	Description
03/06/2001	599.0	URIN TRACT INFECTION NOS
03/06/2001	599.0	URIN TRACT INFECTION NOS
08/15/1993	599.0	URIN TRACT INFECTION NOS
08/15/1993	599.0	URIN TRACT INFECTION NOS

Urinalysis

Specimen: URINE - MAR 06, 2001@14:20:45

Test Name	Result	Units	Low
...	R

Urinary Tract Radiology Results

Date	CPT	Description
AUG 4, 2009	74400	CONTRSTX-RAY, URINA
Radiology Text		

Surgical Procedures (CPT Codes)

Date	CPT	Description
07/13/2009	52000	CYSTOSCOPY

Microbiology, Urine

Microbiology - MAR 06, 2001@15:04:27 [URINE, RANDOM]

Text

KLEBSIELLA PNEUMONIAE

Results communicated to Dr. Johnson via mailman 3-8-01

Complete Blood Count

Specimen: Blood - OCT 10, 2003@10:54:54

Test Name	Result	Units	L
...

Microbiology, Blood

Microbiology - FEB 02, 2007@21:30:33 [M-BLOOD PERCUTA ARM/HAND]

3/9/07 PRELIM UPDATE - NO GROWTH REPORTED BY SI@

Pain Assessment and Treatment Report

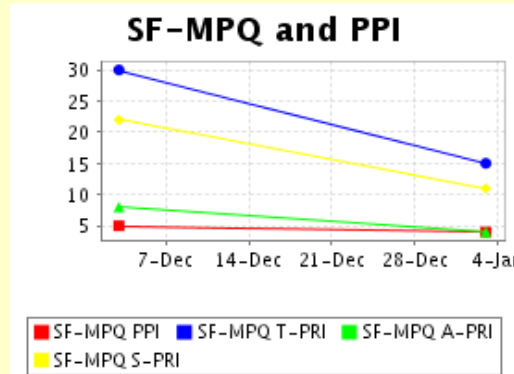
Pain Assessment and Treatment Report

Select date range. The default is five years.

Five Years

McGill Pain Questionnaire (SF-MPQ) Scores:

Type	Score	Score Type	Record Date
S-PRI	11	Start	01/03/2008
A-PRI	4	Start	01/03/2008
T-PRI	15	Start	01/03/2008
S-PRI	22	Interim	12/03/2007
A-PRI	8	Interim	12/03/2007
T-PRI	30	Interim	12/03/2007



Pain Intensity (PPI) Scores:

Type	Score	Score Type	Record Date
PPI	4	Start	01/03/2008
PPI	5	Interim	12/03/2007
PAIN	8		08/27/2007

Pain Alleviation Drugs:

NSAIDs Analgesics:

Date	Name	Code
------	------	------

AntiConvulsants:

Date	Name	Code
------	------	------

Pain Management Surgical Diagnoses:

Date	ICD	Description
01/03/2008	04.93	REMOVAL PERI STIM LEAD
01/03/2008	03.29	OTHER CHORDOTOMY

Tricyclic Analgesics:

Date	Name	Code
------	------	------

Opioid Analgesics:

Date	Name	Code
------	------	------

Management Surgical Procedures:

Date	CPT	Description
01/03/2008	62351	IMPLANT SPINAL CANAL CATH
01/03/2008	63170	INCISE SPINAL CORD TRACT(S)

Local Anesthetics:

Date	Name	Code
------	------	------

Other Medications:

Date	Name	Code
------	------	------

Transcutaneous Electrical Nerve Stimulation (TENS):

Date	CPT	Description
01/03/2008	64550	APPLY NEUROSTIMULATOR
01/03/2008	E0720	Tens two lead

Activities Tab



Patient Search

Spinal Cord Injury and Disorders Outcomes

Logout

Name: SPINALCORD,SIXTEEN
SSN : 000-00-0016

Date of Birth :
Education: PR

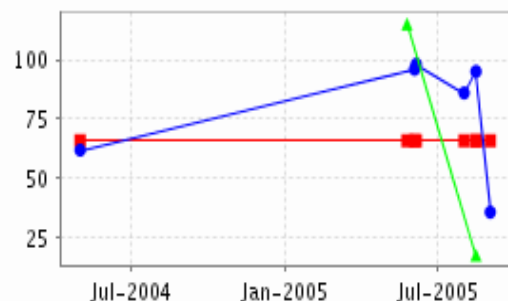
Neuro. Level: C06
Employment: UU

ASIA: C
Bladder Drainage: SC

Next AE Due: 01/17/2007
Pressure Ulcer: 3

Activities

FIM



■ FIM Benchmark ■ FIM Total Score ▲ FIM Goal

Assessment Forms

-
-
-
-
-

Recent Scores

FIM Total: 36, 09/01/2005 FI

FIM Motor: 26, 09/01/2005 FI

FIM Cognitive: 10, 09/01/2005 FI

FAM: 05/15/2004 IN, Swallowing: 7, Car Transfers: 6, Community Access: 5, Reading: 6, Writi

Bowel Accident Frequency: 5, 06/14/2004 FI

Bladder Accident Frequency: 5, 06/14/2004 FI

Kurtzke EDSS Rating: 4.0, 05/15/2005 ST

FSS: 07/01/2005 FI, Pyr: 3, Crblr: 3, BS: 2, Sens: 3, BB: 3, Vis: 2, Men: 3, Oth: 0

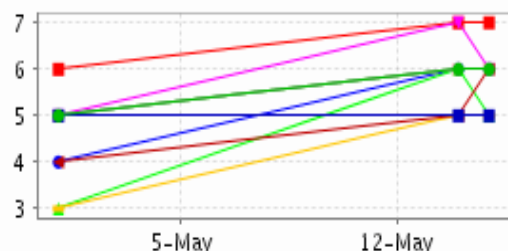
Benchmark

66

33 (30-44)

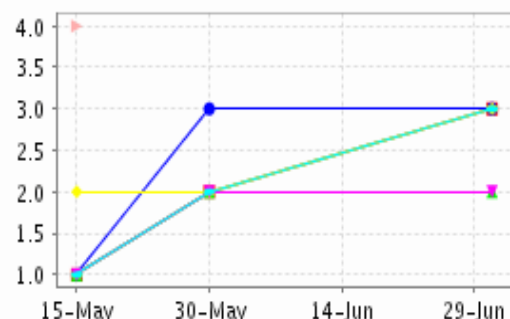
33

FAM



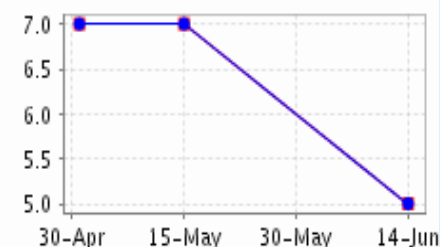
■ FAM Swallow ■ FAM Car Transfers ■ FAM Access
■ FAM Reading ■ FAM Writing ■ FAM Speech
■ FAM Emotional ■ FAM Adj to Limits
■ FAM Employability ■ FAM Orientation ■ FAM Attn
■ FAM Safety

Kurtzke FSS & EDSS



■ FSS Pyramidal ■ FSS Cerebellar ■ FSS Brainstem
■ FSS Sensory ■ FSS Bowel & Bladder ■ FSS Visual
■ FSS Mental ■ EDSS

Accident Frequency



■ MNFM Frequency of Bladder Accidents
■ MNFM Frequency of Bowel Accidents

Functional Independence Measure (FIM) Form

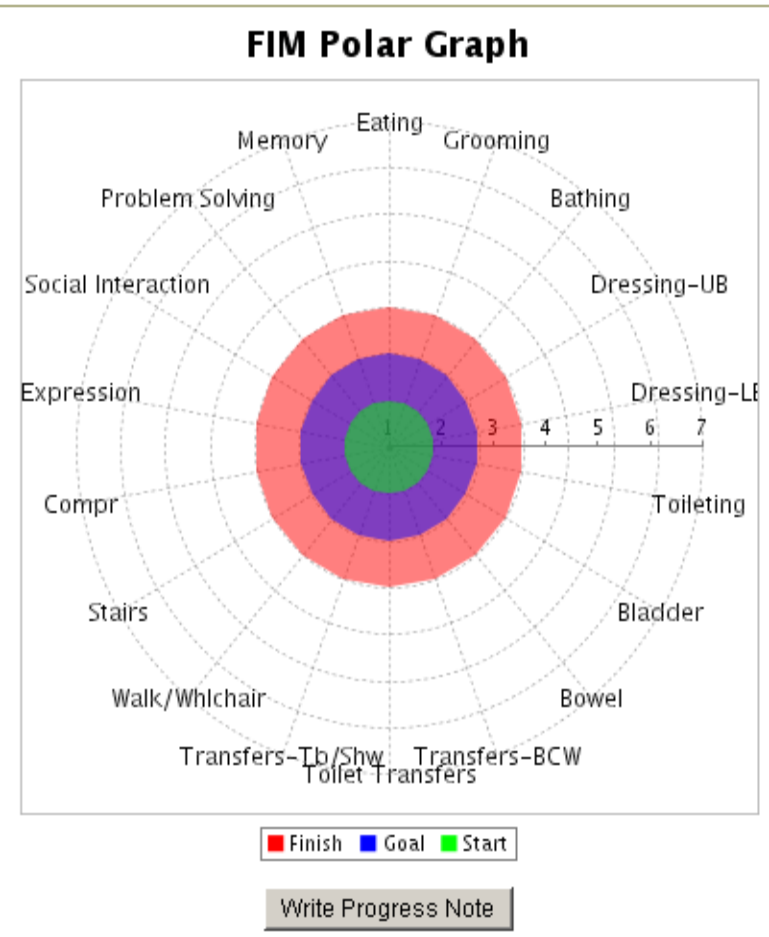
Name: SPINAL_CORD PTONE
 Division: 442
 * Care Type: Inpatient Rehabilitation
 Score: 54
 Motor Subtotal: 39

* Record Date: 04/01/2008
 Care Start Date: 01/02/2008
 * Score Type: Finish
 Cognitive Subtotal: 15

SSN: 000-00-1001
 Birthdate: 06/01/1931 (76)
 Gender: M
 Marital Status: MARRIED
 Ethnicity: N
 Military Status: Active Military
 Rehabilitation Care Start Date: 01/02/2008
 Admission Class: Short Stay
 Finish Date:
 Check if Program is Interrupted:
 Transfer Date:
 Return Date:
 Transfer Date:
 Return Date:
 Transfer Date:
 Return Date:

Impairment Category
 SCD - Traumatic Spinal Cord Dysfunction
Impairment Group
 Complete Paraplegia

Date of Onset: 11/01/2006
 ASIA Impairment Scale: C



Scoring Key	
7	Complete Independence (timely, safely)
6	Modified Independence (extra time, devices)

Self Care

Eating: 3
 Grooming: 3
 Bathing: 3
 Dressing - Upper Body: 3
 Dressing - Lower Body: 3
 Toileting: 3

Sphincter Control

Bladder Management: 3
 Bowel Management: 3

Transfers

Bed, Chair, Wheelchair: 3
 Toilet: 3
 Tub, Shower: 3


Locomotion

Walk/Wheelchair: 3
 Walk Wheelchair Both
 Stairs: 3

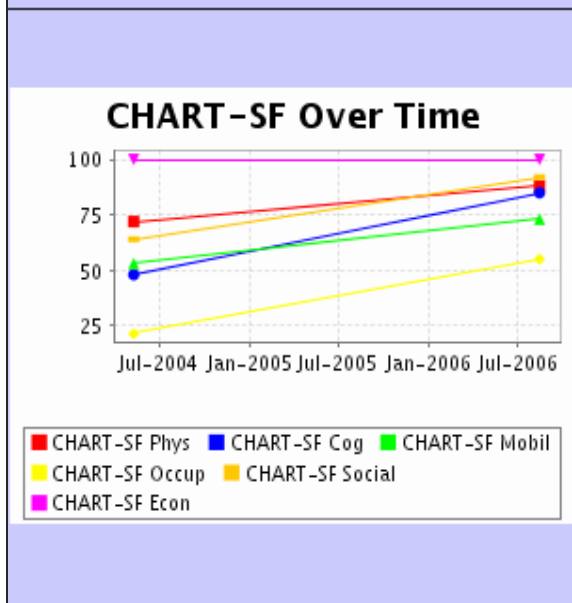
Communication

Comprehension: 3
 Auditory Visual Both
 Expression: 3

Participation and Satisfaction with Life Scale Tab

 <input type="button" value="Patient Search"/>		Spinal Cord Injury and Disorders Outcomes				<input type="button" value="Logout"/>	
Name: SPINALCORD,TWELVE SSN : 000-00-0012		Date of Birth: Education: CG		Neuro. Level: C07 Employment: EP		ASIA: C Bladder Drainage: Next AE Due: 12/20/2007 Pressure Ulcer: 1	

Participation & SWLS



Social

Marital Status: MARRIED
 Number in Household: 2
 Metro/Micro/Rural:

Assessment Entry Forms

493.0, 08/15/2006 ST
 20, 09/10/2006 FI

Occupation and Education

Employment Status:

Education: CG = College Graduate

Student?: Yes No
 Record Date: 05/15/2004
 History: Y 05/15/2004

Volunteer?: Yes No
 Record Date: 05/15/2004
 History: Y 05/15/2004

Current Occupation: Electronics Technician
 Occupation at Injury: PR = Professional and Technical

School: 0.0 Hrs/Week
 Employment Hours: 10.0 Hrs/Week
 Homemaking: 5.0 Hrs/Week
 Home Maintenance: 3.0 Hrs/Week
 Recreation: 8.0 Hrs/Week

Attendant Care

Attendant Care: 3.0 Hrs/Day
 Paid Attendant Care: 2.0 Hrs/Day
 Unpaid Attendant Care: 1.0 Hrs/Day

Att. Care Interruption Dates: 07/11/2006

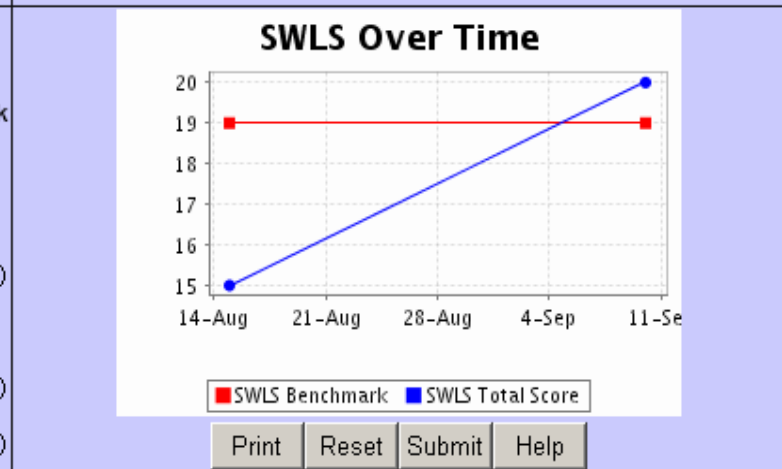
Attendant Loss Admissions: 07/12/2005

Att. Care Interruptions in 5 Yrs: 1 07/11/2006

Att. Loss Admissions in 5 Yrs: 1 07/12/2005

CHART-SF Subscales

Subscale	Current and Historic	Benchmark
Physical:	88.0, 08/15/2006 ST	84 (52-94)
Cognitive:	85.0, 08/15/2006 ST	
Mobility:	73.0, 08/15/2006 ST	84 (59-100)
Occupation:	55.0, 08/15/2006 ST	50 (18-95)
Social:	92.0, 08/15/2006 ST	95 (70-100)
Economic:	100.0, 08/15/2006 ST	50 (25-100)





Questions





Data Analysis and Dissemination



SCI/D Services National Office Outcomes Team

- Aggregating outcomes data from SCI Centers
- Analyzing aggregated outcomes data
- Risk adjustment
- National-level outcomes reports
- Assist with analysis of individual SCI Center outcomes



Data Quality Control



System-wide training in administration and scoring

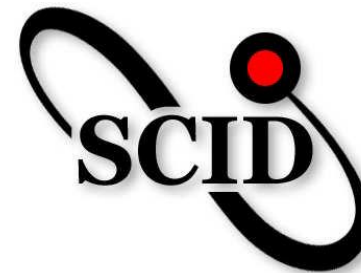
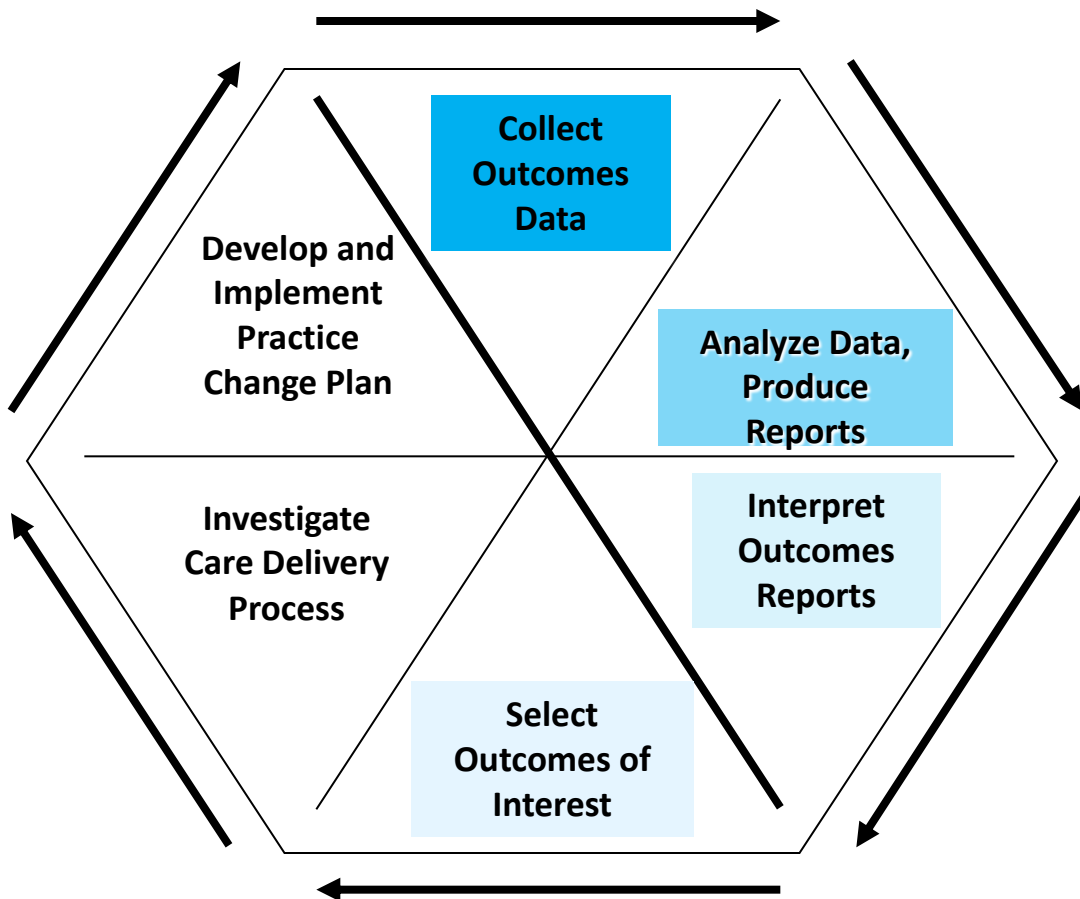
Outcomes Coordinators manage SCI Center data quality

SCIDO: Built in data checks

SCI/D Services National Office Outcomes Team performs data quality checks



Outcomes Utilization



**Outcomes
Coordinators**

**SCI Center Quality
Improvement Teams**

CARF Committees



Program Coordination



Monthly Outcomes Coordinator teleconference

Topic-focused web-based forums

Annual face-to-face training

Web-based training

Manualized training

E-mail lists



Current Status of Database



Inpatient Rehabilitation, October 2008 – July 2011

N = 854

Annual Evaluations, October 2009 – September 2010

N = 6,468

Annual Evaluations, Long Term Care, 10/2009 – 9/2010

N = 89



Inpatient Rehabilitation

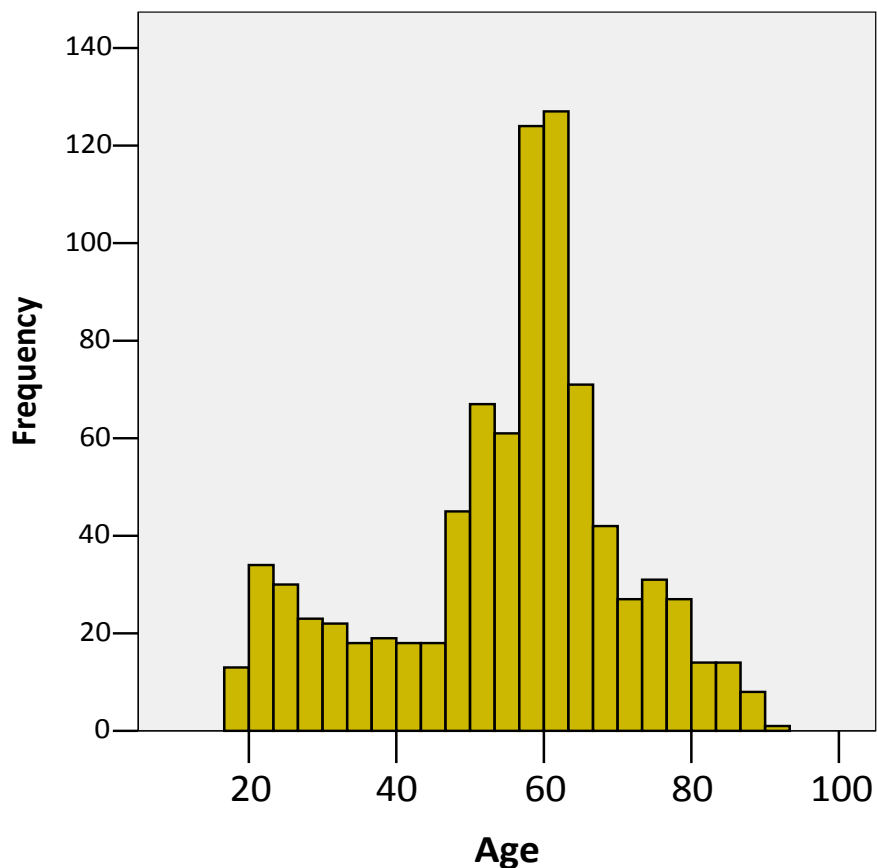


Population Characteristics



Inpatient Rehabilitation

- **Gender:** 96% male
- **Age:** mean = 55 years; median = 59; σ = 16 years; range = 18-93

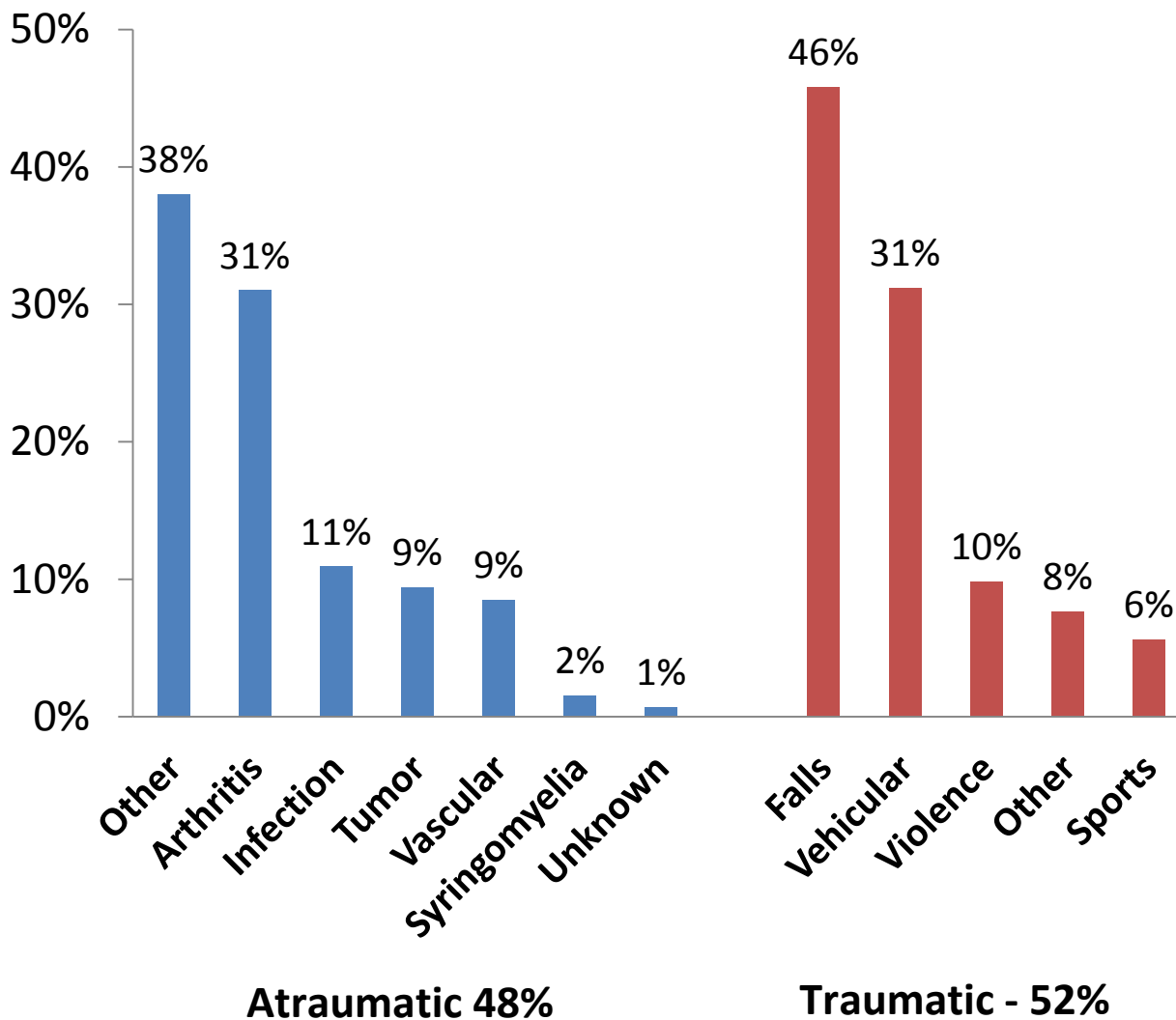


N = 854,
10/2008 – 7/2011



Inpatient Rehabilitation

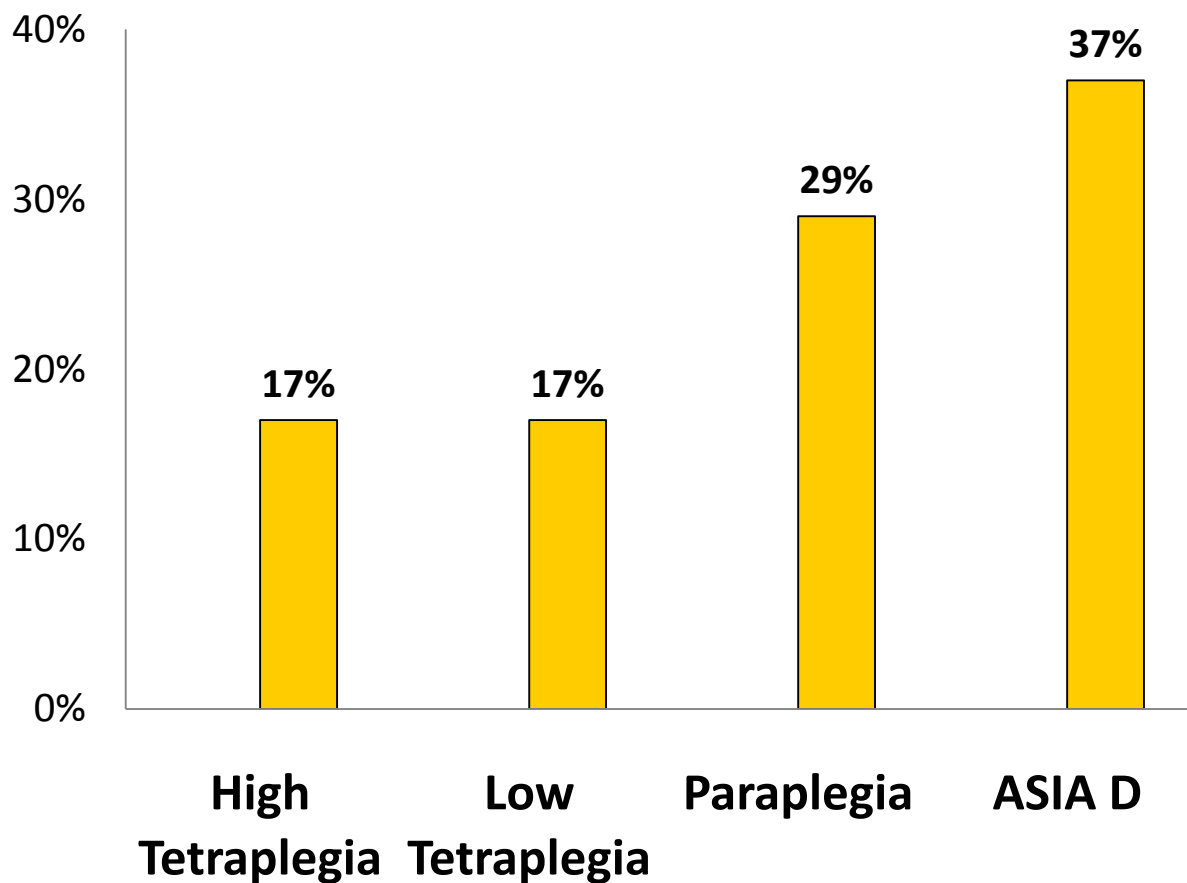
Etiology





Inpatient Rehabilitation

Neurological Impairments





Annual Evaluations



Population Characteristics



Annual Evaluations

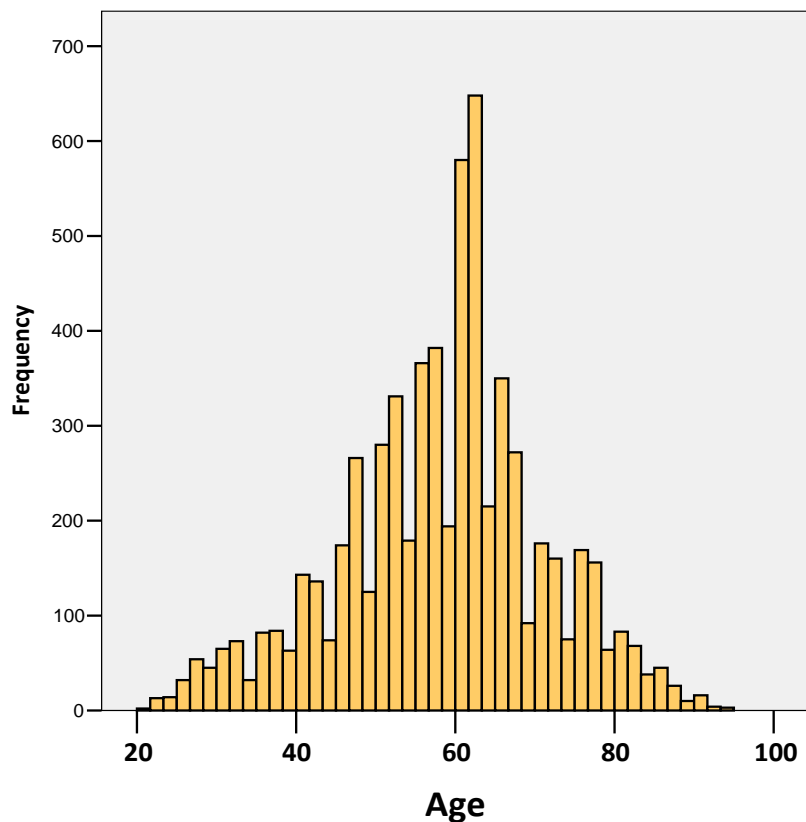


Age: mean = 58 years; median = 60;
 $\sigma = 12$ years; range = 20-95

Gender: 97% male

Education: 94% High School
21% College grad

Employment: 15% full or
part-time



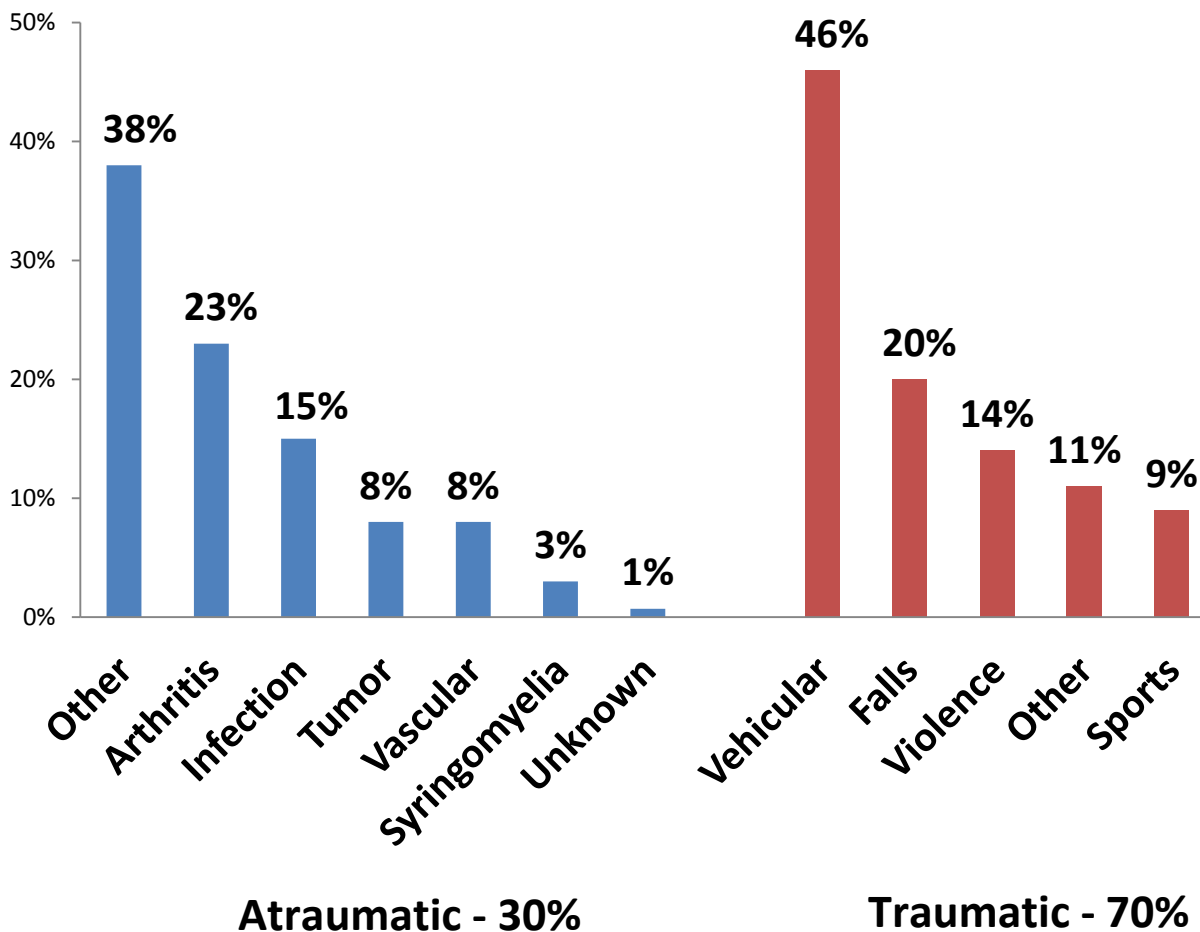
N = 6,468



Annual Evaluations



Etiology

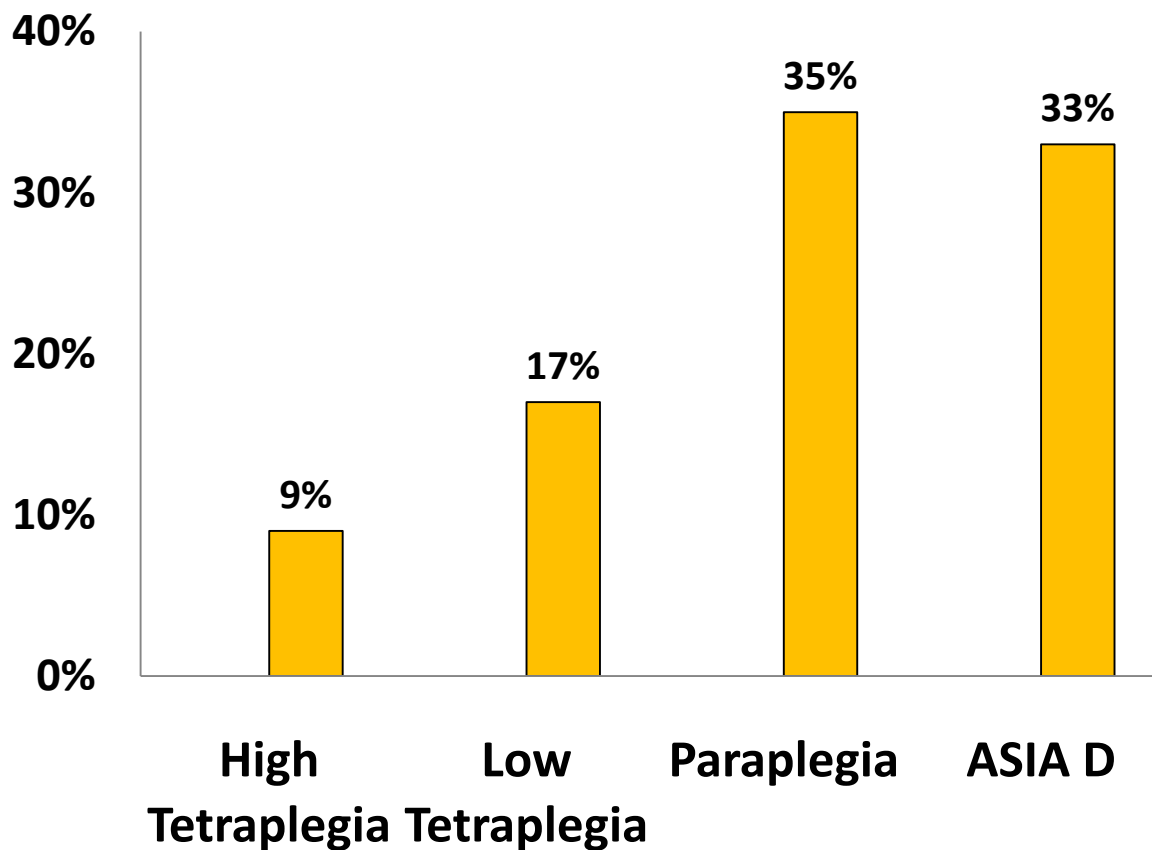




Annual Evaluations



Neurological Impairments





Long Term Care Annual Evaluations



Population Characteristics



Long Term Care Annual Evaluations

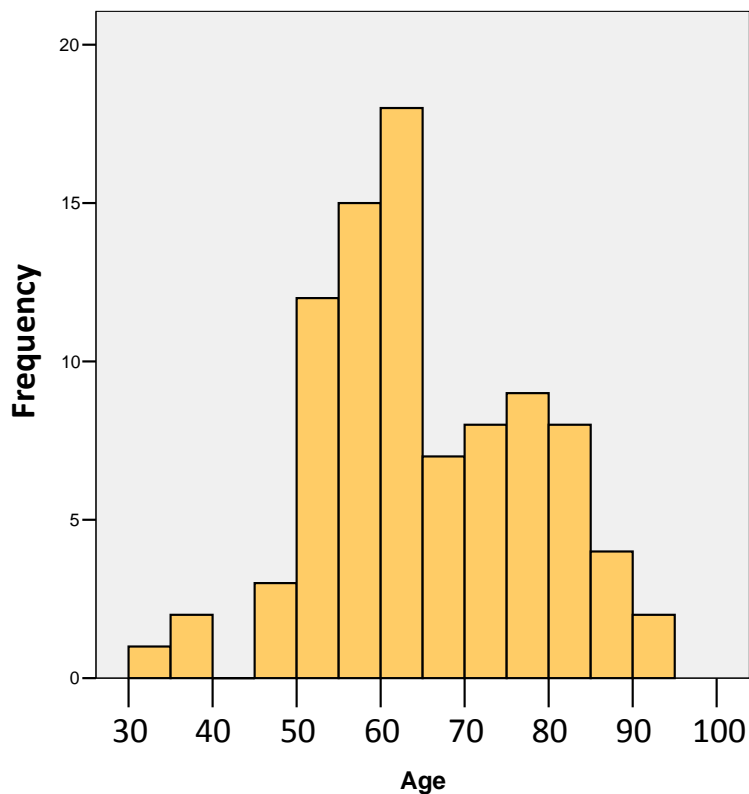


Age: mean = 65 years; median = 62;
 $\sigma = 12$ years; range = 34-93

Gender: 99% male

Education: 82% High School
10% College grad

Employment: 4% full or
part-time

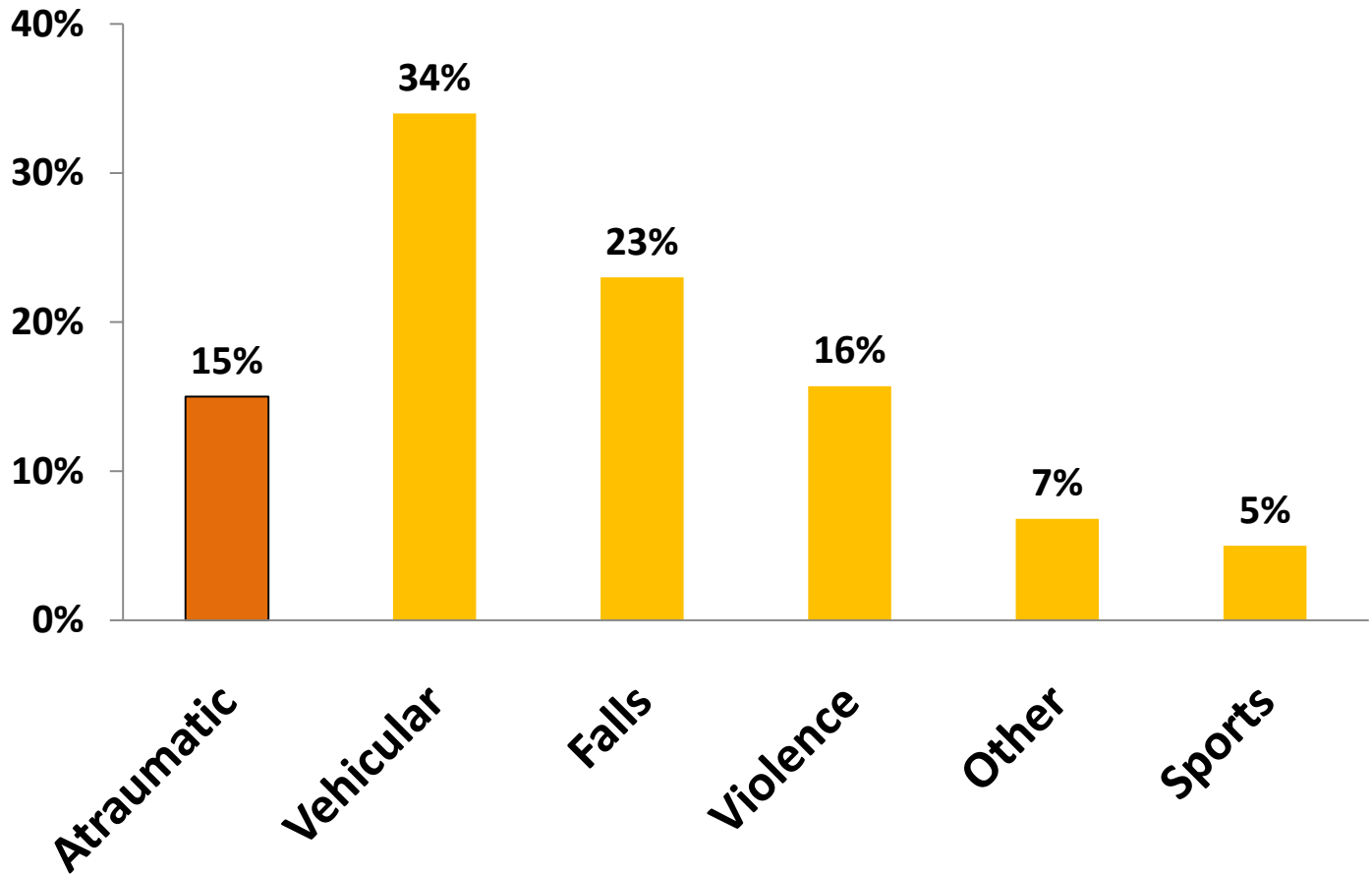


N = 89



Long Term Care Annual Evaluations

Etiology

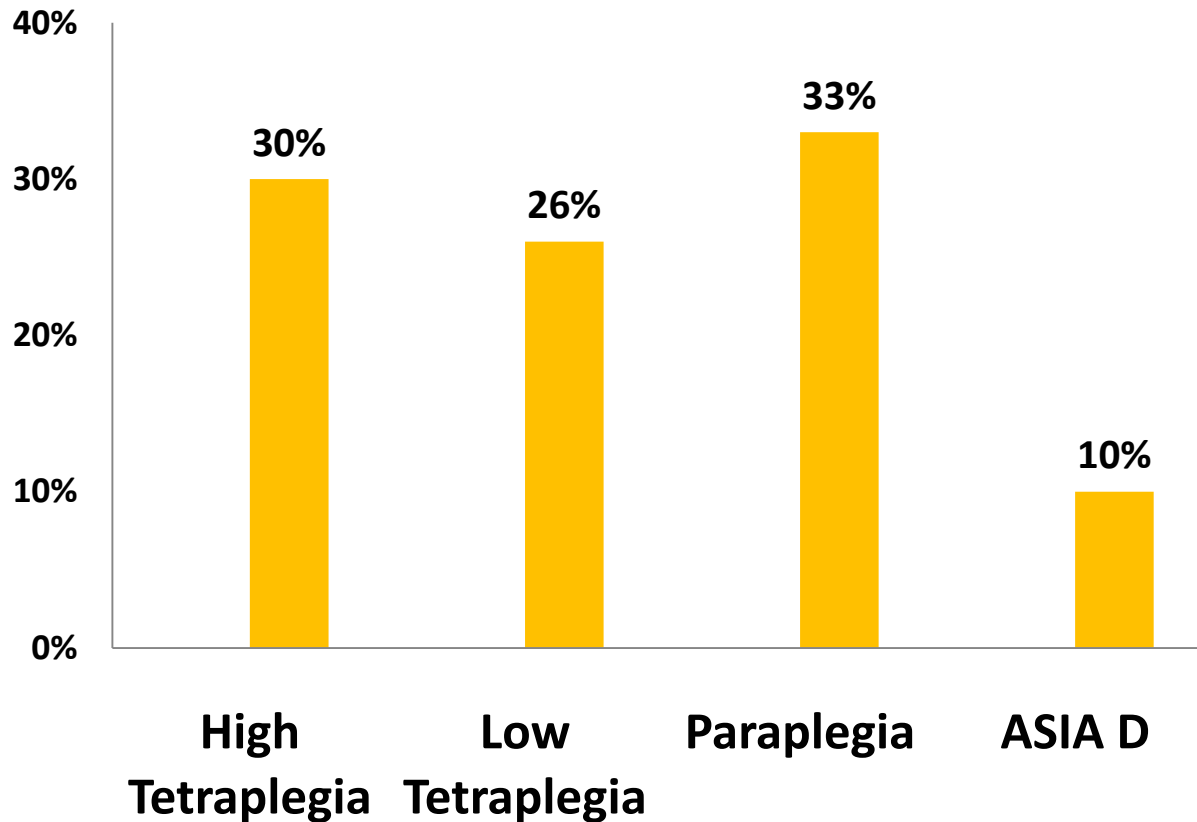




Long Term Care Annual Evaluations



Neurological Impairments





Future Efforts

Outcomes Portfolio: Additions, deletions, revisions

Tracking and promoting outcomes utilization

SCIDO refinements



Conclusions

VA SCI/D Services Outcomes Program

A comprehensive SCI/D outcomes system

Outcomes collection and utilization supported by the SCIDO software system:

- **Unparalleled efficiency in outcomes data collection**
- **Ready access to multiple levels of outcomes: patient, SCI Center (facility), region, and national**



Thank you!



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Obtaining CME Credit

- If you would like to receive CME credit for this activity, please visit:

<http://www.pesgce.com/PVAsummit2011/>

- This information can also be found in the Summit 2011 Program on page 8.