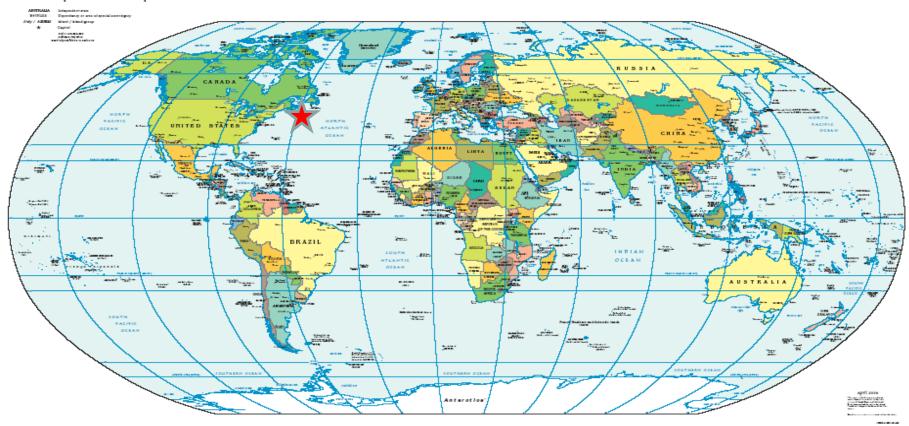
Оценка и обучение навыкам креслаколяски (WSAT): от исследований к клинической практике

Р. Ли Кёрби, доктор Университет Дальхауз, Галифакс, НШ, Канада

Конференция: "Комплексная реабилитация инвалидов на современном этапе. Отечественная и международная практика" Новокузнецк, Россия.



Political Map of the World, April 2006



Благодарность:

- Карине Карапетян, МSc, м.н.с.
- Отдел медицинской и социально-профессиональной реабилитации
- ФГБУ "Новокузнецкий научно-практический центр медико-социальной экспертизы и реабилитации инвалидов" Минтруда России

Основные аспекты

- Выражение признательности:
 - Участникам совместных исследований
 - Финансирующим организациям
- Раздаточный материал:
 - pdf-файл презентации
 - www.wheelchairskillsprogram.ca
- Конфликт интересов: отсутствует

Цели презентации

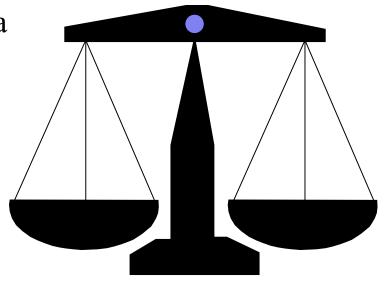
По завершении презентации, участники смогут:

- 1. Описать компоненты WSP (WSP <u>программа</u> навыков кресла-коляски)
- 2. Получить доступ к бесплатным онлайн материалам WSP
- 3. Обобщить исследовательские данные о WSP
- 4. Инициировать WSP в условиях своих учреждений

Кресла-коляски

Преимущества

- Мобильность
- Участие
- Нагрузка на ухаживающего
- Помещение в учреждение длительного лечения и содержания



Проблемы

- •Неправильная посадка
- •Ремонт
- •Травмы от чрезмерного пользования
- •Острые травмы

Падение из-за заднего антиопрокидывающего устройства

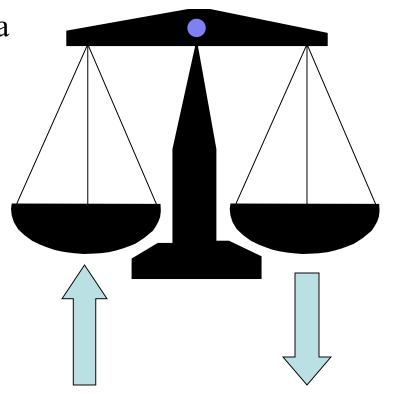


Routhier F. Personal communication 2007.

Кресла-коляски

Преимущества

- Мобильность
- Участие
- Нагрузка на ухаживающего
- Помещение в учреждение длительного лечения и содержания

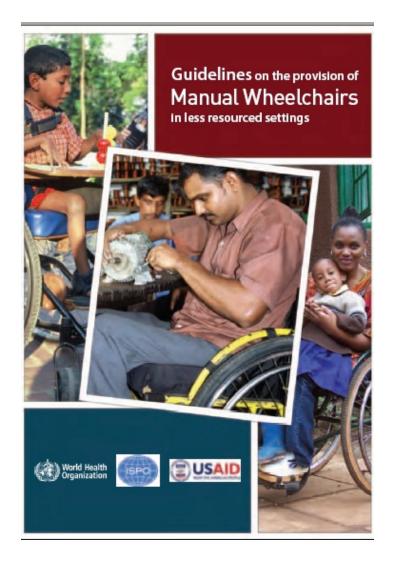


Проблемы

- •Неправильная посадка
- •Ремонт
- •Травмы от чрезмерного пользования
- •Острые травмы

Эффективное назначение кресла-коляски

Всемирная Организация Здравоохранения



2008: www.who.int/disabilities/publications/technology/wheelchairguidelines/en/index.html.

Обслуживание и эксплуатация кресла-коляски: учебно-тренировочный комплекс (от <u>BO3</u>)







Средний (2013) 10 дней



Для управляющих (2015) 2 дня



Для партнёров (2015) .5 – 2 дня

http://www.who.int/disabilities/technology/en/

Модель назначения кресла-коляски

- 1. Направление и приём
- 2. Оценка
- 3. Назначение
- 4. Финансирование и заказ
- 5. Подготовка продукта
- 6. Посадка (подгонка)
- 7. Обучение пользователя
- 8. Последующее наблюдение, техническое обслуживание и ремонт

Рекомендации ВОЗ 2008, Раздел 3.2.1, стр. 76

www.wheelchairskillsprogram.ca

WHEELCHAIR SKILLS PROGRAM



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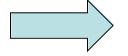


Warning

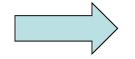
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Модель назначения кресла-коляски

1. Направление и приём



- 2. Оценка
- 3. Назначение
- 4. Финансирование и заказ
- 5. Подготовка продукта
- 6. Посадка (подгонка)



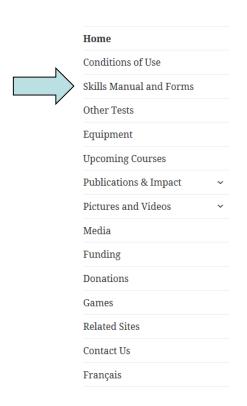
- 7. Обучение пользователя
- 8. Последующее наблюдение, техническое обслуживание и ремонт

Рекомендации ВОЗ 2008, Раздел 3.2.1, стр. 76

Wheelchair Skills Program (WSP) - программа навыков пользования кресло-коляской

- Wheelchair Skills Test (WST) тест по навыкам пользования кресло-коляской
- Wheelchair Skills Training Program (WSTP) программа обучения (тренировки) навыкам пользования кресло-коляской





WHEELCHAIR SKILLS PROGRAM



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Wheelchair Skills Program (WSP) Manual and Forms

Manual

• Wheelchair Skills Program Manual 5.0

Forms

- Wheelchair Skills Test (WST) 5.0 Form Manual Wheelchair
- Wheelchair Skills Test (WST) 5.0 Form Powered Wheelchair
- Wheelchair Skills Test Questionnaire (WST-Q) 5.0 Form Manual Wheelchair
- Wheelchair Skills Test Questionnaire (WST-Q) 5.0 Script Manual Wheelchair
- Wheelchair Skills Test Questionnaire (WST-Q) 5.0 Form Powered Wheelchair
- Wheelchair Skills Test Questionnaire (WST-Q) 5.0 Script Powered Wheelchair

Wheelchair Skills Program Manual 5.0

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23	Suggested citation: Kirby RL, Rushton PW, Smith C, Routhier F, Best KL, Cowan R,
24	Giesbrecht E, Koontz A, MacKenzie D, Mortenson B, Parker K, Smith E, Sonenblum S,
25	Tawashy A, Toro M, Worobey, L. The Wheelchair Skills Program Manual. Published
26	electronically at Dalhousie University, Halifax, Nova Scotia, Canada.
27	www.wheelchairskillsprogram.ca/eng/manual.php
28	

Модель назначения кресла-коляски

1. Направление и приём

WST

- 2. Оценка
- 3. Назначение
- 4. Финансирование и заказ
- 5. Подготовка продукта
- 6. Посадка (подгонка)
- 7. Обучение пользователя
- 8. Последующее наблюдение, техническое обслуживание и ремонт

Рекомендации ВОЗ 2008, Раздел 3.2.1, стр. 76

Wheelchair Skills Program (WSP) Manual and Forms

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- Wheelchair Skills Test Questionnaire (WST-Q) 5.0 Form Powered Wheelchair
- Wheelchair Skills Test Questionnaire (WST-Q) 5.0 Script Powered Wheelchair

Wheelchair Skills Test (WST) Version 5.0 Form Powered Wheelchairs

Name of wheelchair user:	
Caregiver assisting (if any):	
Tester:	Date:

#	Individual Skill	Capacity (0-3)*	Comments
1	Positions and operates controller		
2	Operates body positioning options		
3	Rolls forward short distance		
4	Rolls backward short distance		
5	Stops on command		
6	Turns in place	1	
7	Turns while moving forward		
8	Turns while moving backward		
9	Maneuvers sideways		
10	Picks objects from floor		
11	Relieves weight from buttocks		
12	Performs level transfers		
13	Gets through hinged door		
14	Rolls longer distance		
15	Ascends slight incline		
16	Descends slight incline		
17	Ascends steep incline		
18	Descends steep incline		
4.0	T) 11 * 1 \$		

General Scale for Scoring Skill Capacity*				
Advanced pass	3	The subject carries out the skill in a highly proficient or advanced manner.		
Pass	Pass 2 The subject carries out the skill independently and safely, but with room for improvement.			
Partial pass 1 The subject completes a majority of the evaluation criteria, but not all.				
Fail 0 The subject does not complete a majority of the evaluation criteria, is unsafe or unwilling.				
Not Possible NP The wheelchair does not have the parts to allow this skill.				
Testing Error TE The tester cannot assess the skill for some reason.				

^{*} More details, including criteria specific to individual skills can be found in the WSP Manual.

Formula for calculating total percentage score:

Total WST Capacity Score = sum of individual skill scores/([number of possible skills – number of NP scores – number of TE scores] x 3) X 100%

General comments including any	suggestions for remediation:	
--------------------------------	------------------------------	--

WST Заметки по поводу обучения

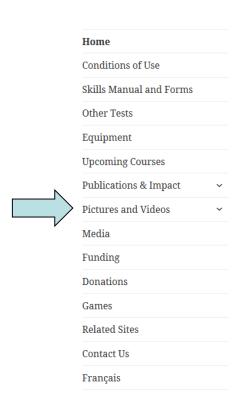


Заметки по поводу диагноза



Worley et al. Am J Phys Med Rehabil 2006;85:931-4









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Videos of Full Wheelchair Skills Tests (WSTs)

Version 5.0 Manual Wheelchair Skills Tests

Show 10 v entries	Search:	
Video Description \$	Video Link	♦ Report Form
Manual wheelchair WST 5.0	MWC example 1	Example 1 report form
Manual wheelchair WST 5.0	MWC Example 2	Example 2 report form
Power wheelchair WST 5.0	PWC Example 1	Example 1 report form

Wheelchair Skills Program (WSP) Manual and Forms

Manual

• Wheelchair Skills Program Manual 5.0

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- Wheelchair Skills Test Questionnaire (WST-Q) 5.0 Script Manual Wheelchair
- Wheelchair Skills Test Questionnaire (WST-Q) 5.0 Form Powered Wheelchair
- Wheelchair Skills Test Questionnaire (WST-Q) 5.0 Script Powered Wheelchair



Wheelchair Skills Test Questionnaire (WST-Q) Version 5.0 Form Powered Wheelchairs

Name of wheelchair user:	
Person completing questionnaire (if not user):	
Tester: Date:	

#	Individual Skill	Capacity	Confidence	Performance	Goal?
		(0-3)*	(0-3)*	(0-3)*	(Yes/No)*
1	Positions and operates controller				
2	Operates body positioning options				
3	Rolls forward short distance				
4	Rolls backward short distance				
5	Stops on command				
6	Turns in place				
7	Turns while moving forward				
8	Turns while moving backward				
9	Maneuvers sideways				
10	Picks objects from floor				
11	Relieves weight from buttocks				
12	Level transfers				
13	Gets through hinged door				
14	Rolls longer distance				
15	Ascends slight incline				
16	Descends slight incline				
17	A soonda stoon incline		l	1	

Capacity question: "Can you do it?"				
Answer	Score	What this means		
Yes, very well	3	Can do the skill safely and very well.		
Yes, but not well	2	Can do the skill safely and completely, but not well.		
Yes, in part	1	Can do the skill in part, but not completely.		
No	0	Have never done the skill or could not do it right now.		
Not possible with this	NP	The wheelchair does not have the parts to allow this skill. (This option is only presented		
wheelchair		for skills where such a score is a possibility.)		
Testing error	TE	When answers have not been recorded (e.g. inadvertently or because the test subject did		
		not understand the question).		
Confidence question:	"As of no	ow, how confident are you?"		
Answer	Score	What this means		
Very confident	3	I am very confident that I can do this skill safely and consistently.		
Fairly confident	2	I am fairly confident that I can do this skill safely and consistently.		
Somewhat confident	1	I am only somewhat confident that I can do this skill safely and consistently.		
Not confident	0	I am not confident that I can do this skill safely and consistently.		
Not possible with this	NP	As for capacity.		
wheelchair				
Testing error	TE	As for capacity.		
Performance question	: "How o	often do you do it?"		
Answer	Score	What this means		
Always	3	Always when I need or want to do so.		
Usually	2	Usually when I need or want to, but sometimes not.		
Occasionally	1	Occasionally when I need or want to, but often not.		
Never	0	Never or less often than once a year.		
Not possible with this wheelchair	NP	As for capacity.		

Questions on Specific Skills

		Questions (Pick only one answer for each question)			
#	Skill Description	Can you do it?	How confident are you?	How often do you do it?	Is this a training goal?
1	Moving the wheelchair straight forward for a short distance, for example along a short hallway.	 □ Yes, very well □ Yes, but not well □ Yes, in part □ No 	□ Very□ Fairly□ Somewhat□ Not	□ Always□ Usually□ Occasionally□ Never	□ Yes □ No
2	Moving the wheelchair straight backward for a short distance, for example to back away from a table.	 □ Yes, very well □ Yes, but not well □ Yes, in part □ No 	□ Very□ Fairly□ Somewhat□ Not	 □ Always □ Usually □ Occasionally □ Never 	□ Yes □ No
3	While moving the wheelchair, coming to a sudden stop to avoid people who do not notice you.	☐ Yes, very well ☐ Yes, but not well ☐ Yes, in part ☐ No	□ Very □ Fairly □ Somewhat □ Not	□ Always □ Usually □ Occasionally □ Never	□ Yes □ No
4	Turning the wheelchair around in a small space so that it is facing in the opposite direction.	 □ Yes, very well □ Yes, but not well □ Yes, in part □ No 	□ Very□ Fairly□ Somewhat□ Not	□ Always□ Usually□ Occasionally□ Never	□ Yes □ No

WST: Общий % подсчитанных баллов

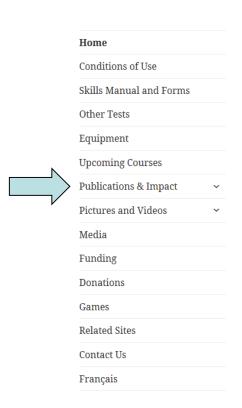
WST:

• Балл Способности = # выполненные навыки/общий х 100%

WST-Q:

- Балл Способности = # выполненные навыки/общий х 100%
- Балл Эффективности = # выполненные навыки/общий х 100%
- Балл Уверенности = общий/общий возможный х 100%





WHEELCHAIR SKILLS PROGRAM



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ORIGINAL RESEARCH

Measurement properties of the Wheelchair Skills Test for scooters among experienced users

W. Ben Mortenson^{a,b,c}, Laura Hurd Clarke^d, Charlie H. Goldsmith^{a,e}, Sharon Jang^{b,c} and R. Lee Kirby^f

^aDepartment of Occupational Science and Occupational Therapy, University of British Columbia, Vancouver, BC, Canada; ^bInternational Collaboration on Repair Discoveries (ICORD), UBC Faculty of Medicine and Vancouver Coastal Health (VCH) Research Institute, Vancouver, BC, Canada; ^cRehabilitation Research Program, VCH Research Institute, Vancouver, BC, Canada; ^dSchool of Kinesiology, University of British Columbia, Vancouver, BC, Canada; ^eFaculty of Health Sciences, Simon Fraser University, Burnaby, BC, Canada; ^fDivision of Physical Medicine and Rehabilitation, Department of Medicine, Dalhousie University, Halifax, NS, Canada

ABSTRACT

Purpose: To investigate the score distribution, reliability, and validity of the objective Wheelchair Skills Test (WST) for scooter users.

Method: A study using a test–retest design was conducted with 20 people who had mobility limitations that prevented them from ambulating more than one city block without a mobility aid, and who had owned a scooter for \geq 3 months. Objective scooter skills, confidence, and physical accessibility were measured at both time points, while anxiety, depression, visual attention and task switching, functional independence, and visual acuity were measured only at baseline.

Results: The mean total WST scores at Time 1 and Time 2 were 86.3% and 87.5%. The WST ICC was 0.889. The WST had a SEM of 2.50 and a Cronbach's alpha of 0.74. The total WST scores were significantly correlated with total subjective WST-Q scores (r = 0.547, p = 0.013), scooter confidence (r = 0.466, p = 0.038), and were affected by gender (p = 0.005).

Conclusion: The WST for scooters has good test–retest reliability and generally varies as anticipated with other measures. Although further study is needed, the WST for scooters appears to have promise for use in research and clinical practice.

ARTICLE HISTORY

Received 17 June 2016 Revised 4 January 2017 Accepted 6 January 2017

KEYWORDS

Mobility scooter; reliability; validity; mobility limitation

Модель обеспечения кресло-коляской

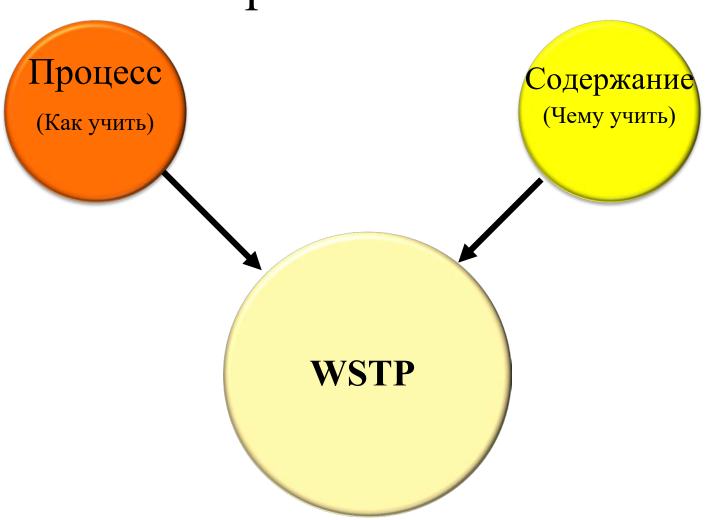
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- 6. Посадка (подгонка)
- Обучение пользователя
 - 8. Последующее наблюдение, техническое обслуживание и ремонт

Рекомендации ВОЗ 2008, Раздел 3.2.1, стр. 76





WSTP - программа обучения навыкам пользования кресло-коляской



WSTP Процесс



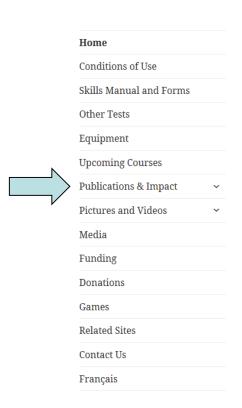
WSTP Содержание



WSTP Содержание







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Доказательная пирамида





REVIEW



Effectiveness of the Wheelchair Skills Training Program: a systematic review and meta-analysis*

Laura Keeler^a, R. Lee Kirby^{a,b} , Kim Parker^c, Katie D. McLean^d and Jill A. Hayden^a

^aDepartment of Community Health and Epidemiology, Dalhousie University, Halifax, NS, Canada; ^bDivision of Physical Medicine and Rehabilitation, Department of Medicine, Dalhousie University, Halifax, NS, Canada; ^cAssistive Technology Program, Nova Scotia Health Authority, Halifax, NS, Canada; ^dLibrary Services, Nova Scotia Health Authority, Halifax, NS, Canada

ABSTRACT

Objective: To conduct a systematic review synthesizing the evidence for the effectiveness of the Wheelchair Skills Training Program (WSTP).

Data Sources: We searched PubMed, the Cochrane Library, CINAHL and Embase databases, as well as grey literature, up to 10 October 2017.

Study Selection: Randomized controlled trials (RCTs) assessing the effectiveness of the WSTP.

Data Extraction: Two independent reviewers screened articles and extracted data. Methodological quality was assessed using Cochrane's Risk of Bias Tool.

Data Synthesis: Meta-analyses (including sub-group analyses) were conducted for the Wheelchair Skills Test (WST) and WST Questionnaire (WST-Q) total capacity scores. We qualitatively assessed retention, WST/WST-Q subtotal and individual-skill capacity scores and other identified outcomes. The quality of evidence was determined using the Grades of Recommendation, Assessment, Development and Evaluation (GRADE) approach. Thirteen articles (581 participants) were included for analysis. The level of evidence was of mod-

ARTICLE HISTORY

Received 15 November 2017 Revised 20 March 2018 Accepted 20 March 2018

KEYWORDS

Wheelchairs; motor skills; disabled persons; rehabilitation; disability evaluation; patient education; review; meta-analysis

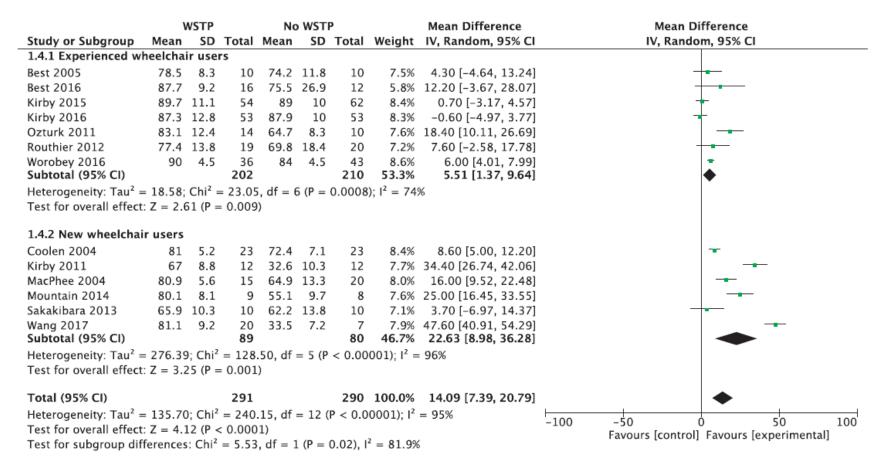


Figure 6. Meta-analysis by sub-group (experienced versus new wheelchair users).



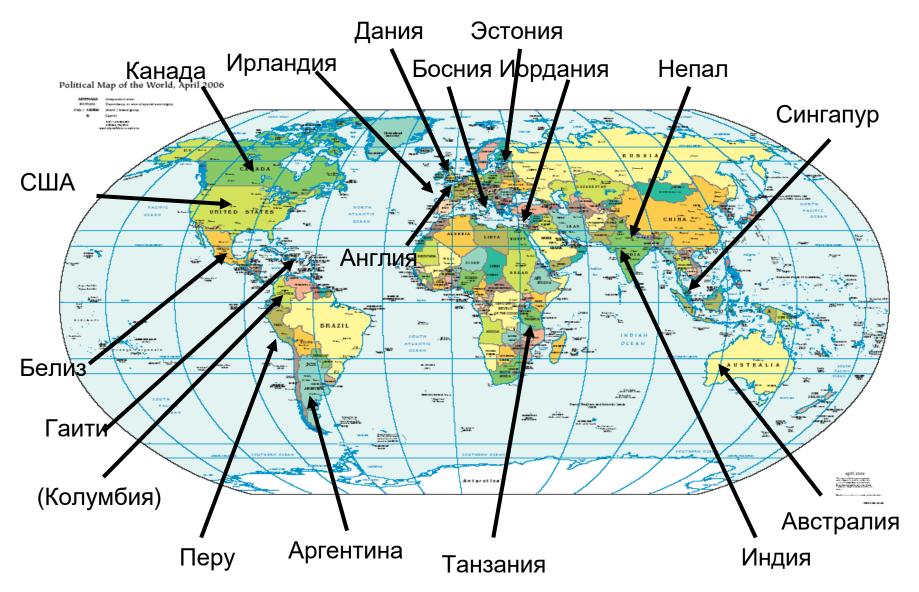
Уровни данных

WSP - программа навыков пользования кресло-коляской

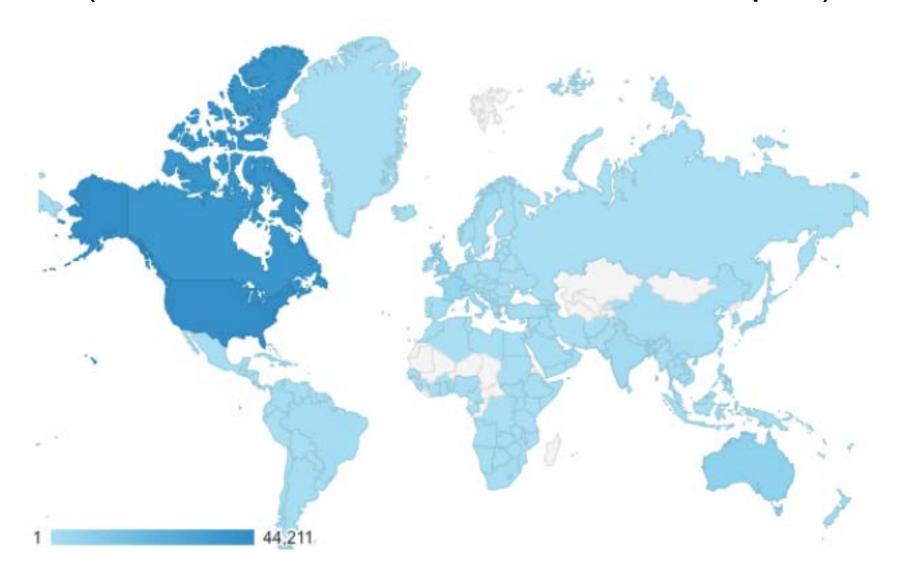
"Низкотехнологичная, высокопродуктивная"

Nenad Kostanjsek, WHO ICF Conference, 2004

Обучение WSP в мире



Вебсайт: Август 26, 2019 (113,287 пользователей из 186 стран)





Archives of Physical Medicine and Rehabilitation

journal homepage: www.archives-pmr.org

Archives of Physical Medicine and Rehabilitation 2019;100:1648-54



ORIGINAL RESEARCH

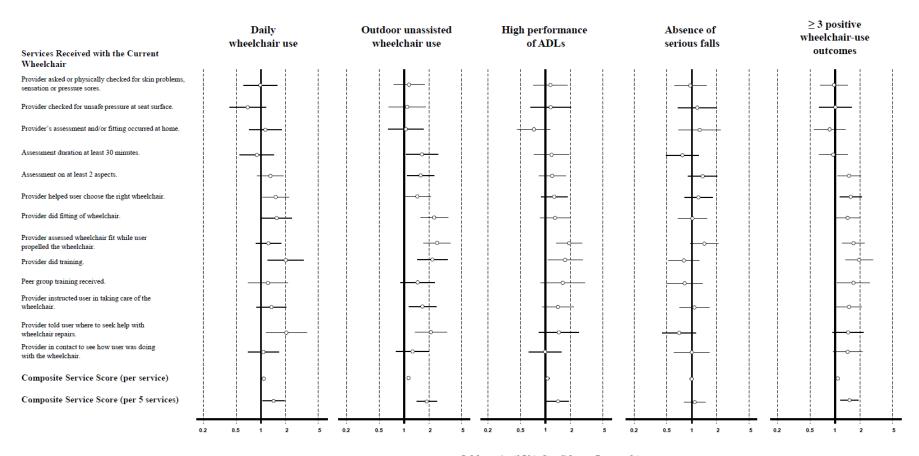
Relationships Between Wheelchair Services Received (Check for updates and Wheelchair User Outcomes in Less-Resourced Settings: A Cross-Sectional Survey in Kenya and the **Philippines**



R. Lee Kirby, MD, a,b Steve P. Doucette, MScb,c

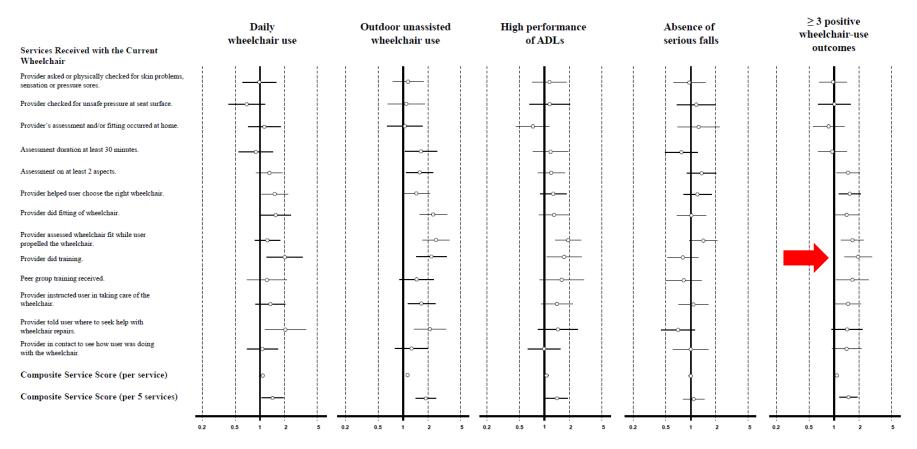
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Kirby RL, Doucette SP. Relationship between wheelchair services received and wheelchair-user outcomes in less-resourced settings: a cross-sectional survey in Kenya and the Philippines. Arch Phys Med Rehabil 2019;100:1648-54.



Odds ratio (95% Confidence Intervals)

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Odds ratio (95% Confidence Intervals)

Цели презентации

По завершении презентации, участники смогут:

- 1. Описать компоненты WSP
- 2. Получить доступ к бесплатным онлайн материалам WSP
- 3. Обобщить исследовательские данные о WSP
- 4. Инициировать WSP в условиях своих учреждений

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