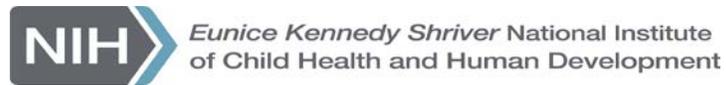


Thirty Years of NCMRR

Theresa Cruz, Ph.D.

Director

National Center for Medical Rehabilitation Research

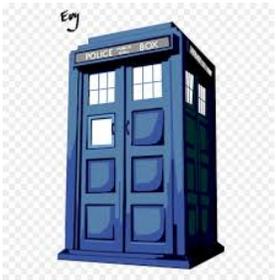


September 9, 2020

July 26, 2020 marked the 30th Anniversary of Americans with Disabilities Act



Americans with Disabilities Act



National Center for Medical Rehabilitation Research

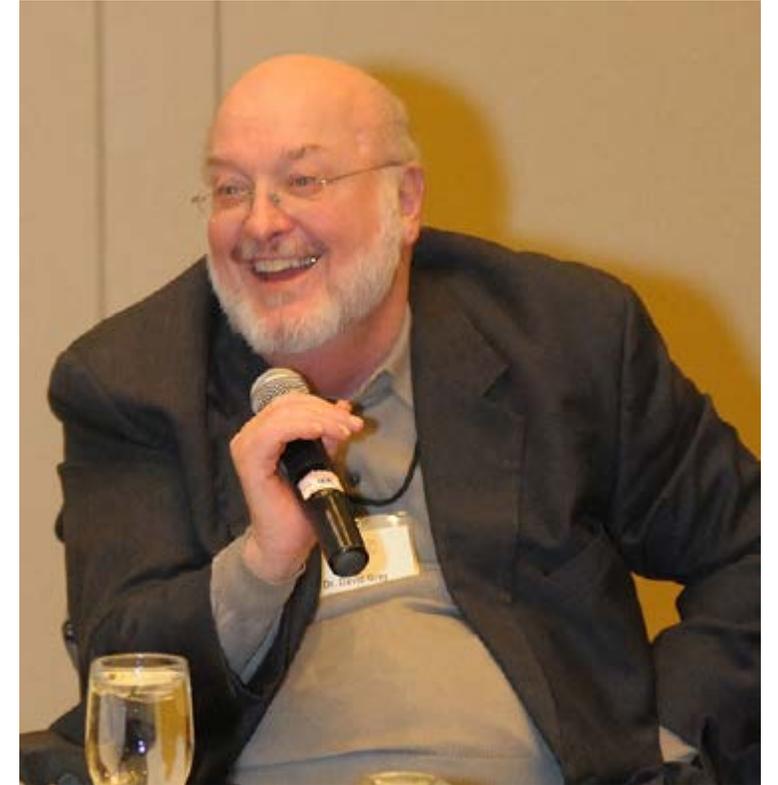
- What about the need for biomedical research on disability and rehabilitation?
- November 16, 1990, Congress passed an amendment to the Public Health Service Act (P.L. 101-613) to establish the National Center for Medical Rehabilitation Research (NCMRR) within NICHD to conduct and support research and research training.
- NCMRR began as an NIH Institute in Training
 - Advisory Board that meets twice a year
 - Tasked with coordinating rehabilitation research across NIH and the federal government



Duane Alexander, MD –
NICHD Director 1986-2009



First Advisory Board – May 1991

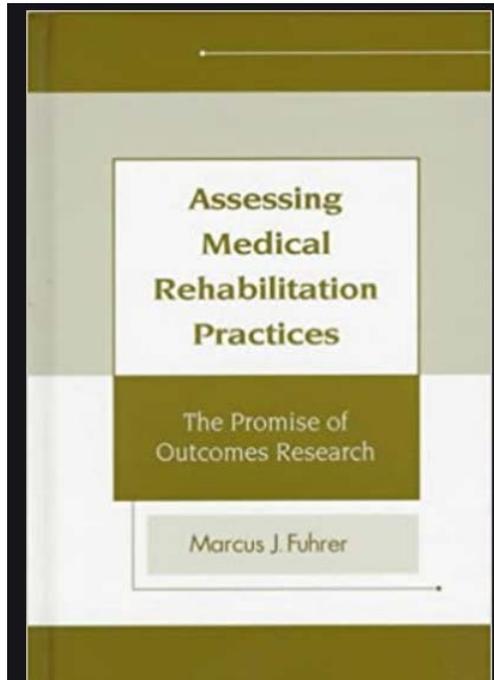


Dr. David Gray

Dr. Lou Quatrano joins the Center



Marcus Fuhrer, PhD (1993-1998)



Research Plan for the National Center for Medical Rehabilitation Research

BETHESDA, MD
MARCH 1993

Research Plan

ORGANIZING SPONSOR:

National Institute of Child Health and Human Development, National Institutes of Health
U.S. Department of Health and Human Services

The statements, conclusions, and recommendations contained in this document reflect both individual and collective opinions of the symposium participants and are not intended to represent the official position of the U.S. Department of Health and Human Services, or the National Institutes of Health.



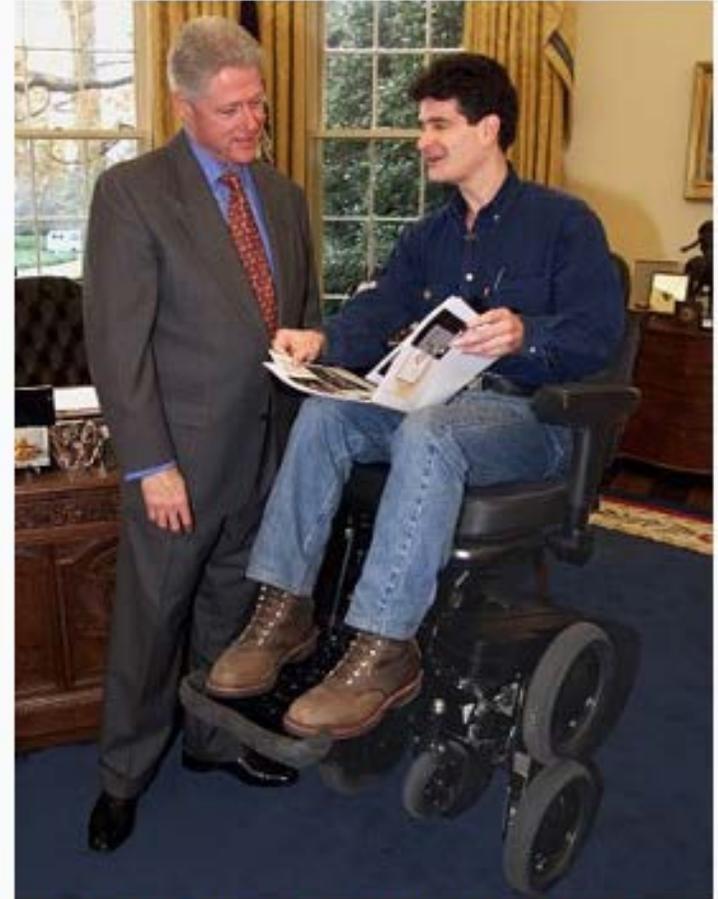
State of the Science in the 90s

- Neuroplasticity applied to rehabilitation
- Assistive technology



C-leg by Ottobock

iBOT



President [Bill Clinton](#) and [Dean Kamen](#) in the White House, 2000



Yvonne Maddox, PhD (1998-2000) and Michael Weinrich, MD (2000-2012)



NCMRR grows in the 2000s

- Training Programs
- Infrastructure Programs



- Pediatric Critical Care and Rehabilitation
- NIH doubling



Scientific Advances

ORIGINAL CONTRIBUTION

Effect of Constraint-Induced Movement Therapy on Upper Extremity Function 3 to 9 Months After Stroke The EXCITE Randomized Clinical Trial

Steven L. Wolf, PhD, PT
Carolee J. Winstein, PhD, PT
J. Philip Miller, AB
Edward Taub, PhD
Gitendra Uswatte, PhD
David Morris, PhD, PT
Carol Giuliani, PhD, PT
Kathye E. Light, PhD, PT
Deborah Nichols-Larsen, PhD, PT
for the EXCITE Investigators

Context Single
ment therapy (C
hand and wrist
least 1 year.

Objective To
and customary
had a first strok

Design and
(EXCITE) trial,
ducted at 7 US

Participants

Interventions



Exoskeletons (Esko)



NCMRR turns 20!



Dr. Ralph Nitkin



National Center for Medical Rehabilitation Research (NCMRR) 20th Anniversary Scientific Symposium:

Advancing Research to Improve
The Lives of Individuals With Disabilities
December 12-13, 2011



Blue Ribbon Panel on Medical Rehabilitation

NCMRR is Functioning, but not Thriving

“Failure to Thrive”



Dr. John Chae



Dr. Rebecca Craik



NICHD took action

- NICHD Director Alan Guttmacher gave NCMRR more autonomy to fulfill mission as coordinator of rehabilitation research at NIH
- Dedicated portion of the extramural budget
- Hired Dr. Alison Cernich as the next NCMRR Director in 2015
- *Enhancing the Stature and Visibility of Medical Rehabilitation at NIH*



NIH Rehabilitation Conference – May 2016



- Opportunity to talk across areas of rehabilitation
- Energize the field and encourage collaborative opportunities
- Provide input to the final research plan

NIH Research Plan on Rehabilitation

- 1) Rehabilitation Across the Lifespan
- 2) Community and Family
- 3) Technology Use and Development
- 4) Research Design and Methodology
- 5) Translational Science
- 6) Building Research Capacity and Infrastructure



https://www.nichd.nih.gov/publications/pubs/Documents/NIH_ResearchPlan_Rehabilitation.pdf



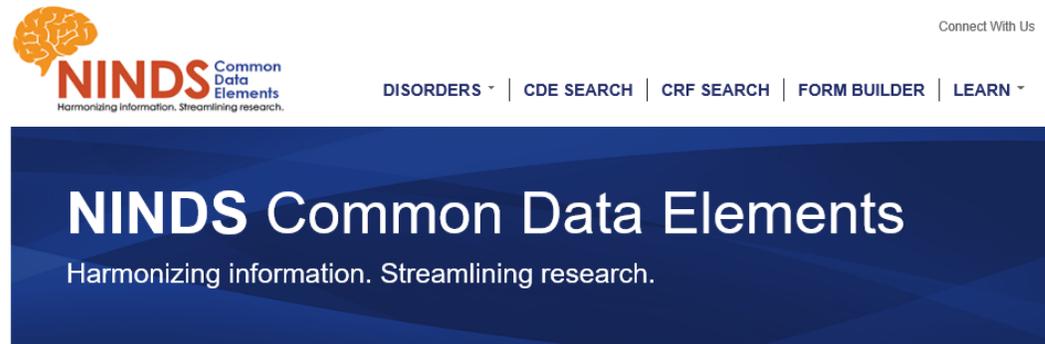
NIH-DoD Limb Loss and Preservation Registry

- Contract awarded to Mayo Clinic
- Focus is on gathering data on preservation efforts, surgery, rehabilitation, devices, and functional outcomes for individuals with limb loss and limb difference
- Government Oversight Committee includes representatives from NIH, DoD, VA, CMS, and FDA



Common Data Elements Efforts

- Common Data Elements make it easier to compare research studies and, in some cases, combine results
- Limb loss - Federal interagency group working to standardize data elements for limb loss research
- NINDS collaboration on Neurorehab CDEs



Research Infrastructure Network (NCMRR.org)



CD



Pathways to Prevention: NIH Office of Disease Prevention (ODP) – Virtual Workshop December 1-3, 2020



NIH Pathways to Prevention Workshop:
Can Physical Activity Improve the Health of Wheelchair Users?
March 30-31, 2020

Register today!
prevention.nih.gov/P2P-PAforWheelchairUsers

 National Institutes of Health
Office of Disease Prevention

- NCMRR and NINDS received ODP support for a Pathways to Prevention Initiative
- Goal is to inform the Physical Activity Guidelines and increase the focus on health and wellness in this population
 - AHRQ is the systematic review and workshop partner
 - Federal partners meeting included multiple NIH ICs and VA, DoD, NIDILRR, and CDC

Rehabilitation Research 2020: Envisioning a Functional Future

October 15–16, 2020



- Trans NIH effort – 15 Institutes and Centers contributed to the conference format through the Medical Rehabilitation Coordinating Committee at NIH
- Funding provided by NICHD, NINDS, NICCH, NIA, NIDCD
- Considerations for accessibility and time zone differences
- Content will be available on demand after the meeting; No fee to attend
- ***Please register and plan to join us! Invite your students, trainees, research participants!***



National Institutes of Health (NIH)

Rehabilitation Research Plan



NIH National Institutes of Health
Turning Discovery Into Health



Rehabilitation and COVID-19

Thank and acknowledge the front-line workers in the healthcare field and the formal and informal caretakers.

Rehabilitation needs of COVID-19 survivors

Viewpoint

Considerations for Postacute Rehabilitation for Survivors of

J Rehabil Med 2020; 52: jrm00046

Re

LETTER TO THE EDITOR

th

REHABILITATION OF COVID-19 PATIENTS

Applaud the attention these authors are bringing to the rehabilitation needs of survivors and dissemination of best practices, but we need more research in this area



Impact of COVID-19 pandemic on rehabilitation services

BMJ Global Health

COVID-19: maintaining essential rehabilitation services across the care continuum

Ianet Prvu Rettner  ^{1,2} Andrea Thourmi ² Victoria Marquovich ³

COMMENTARY

The COVID-19 rehabilitation pandemic¹

SARAH DE BIASE¹, LAURA COOK¹, DAWN A. SKELTON², MILES WITHAM³, RUTH TEN HOVE⁴

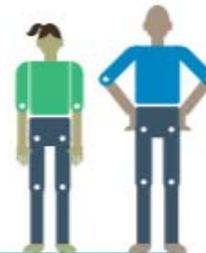


Long term effects of COVID-19 pandemic on PWD and the future of rehabilitation

- Telerehab
- Outcomes
- Psychosocial
- Behavioral
- Economic



**Support for
Rehabilitation
Self-Management
after COVID-19-
Related Illness**

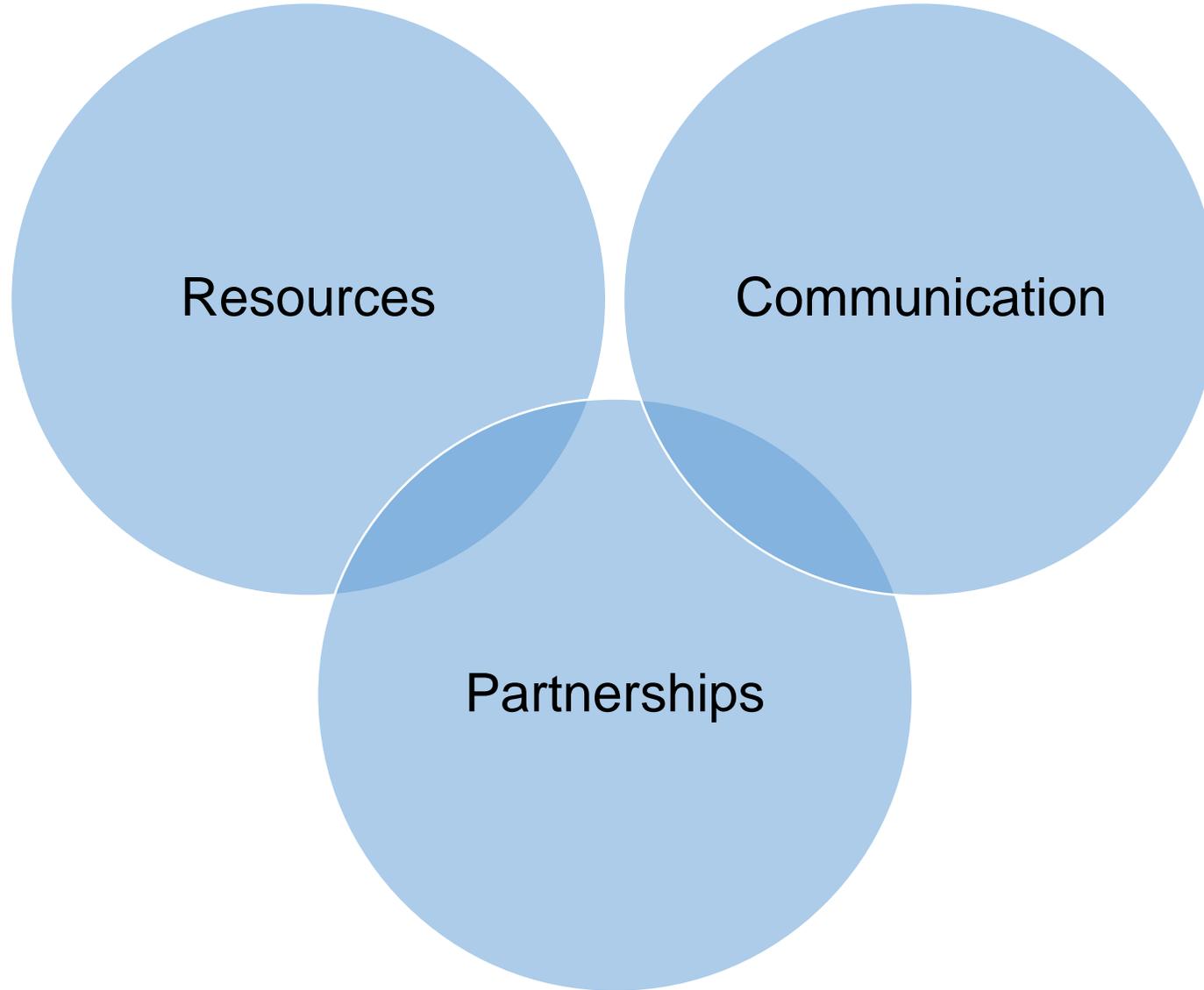


**Rehabilitation
considerations
during the
COVID-19
outbreak**

Name: _____



My philosophy as Director



NCMRR today





Thank you!

Questions?