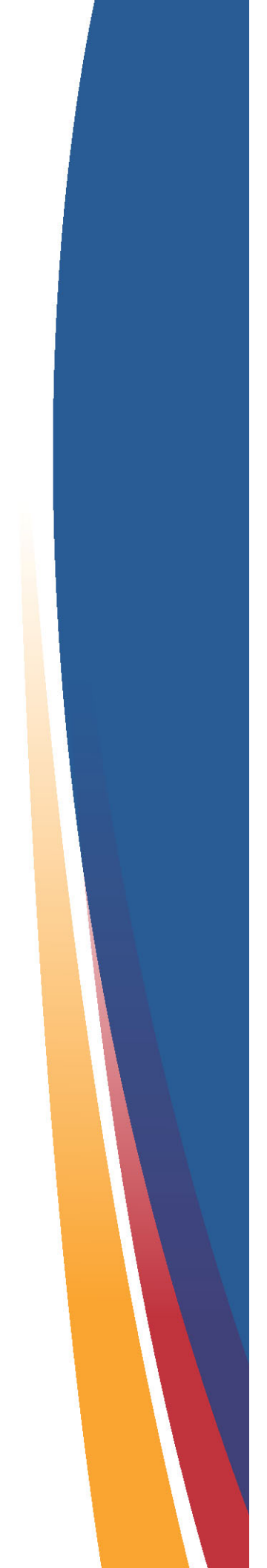


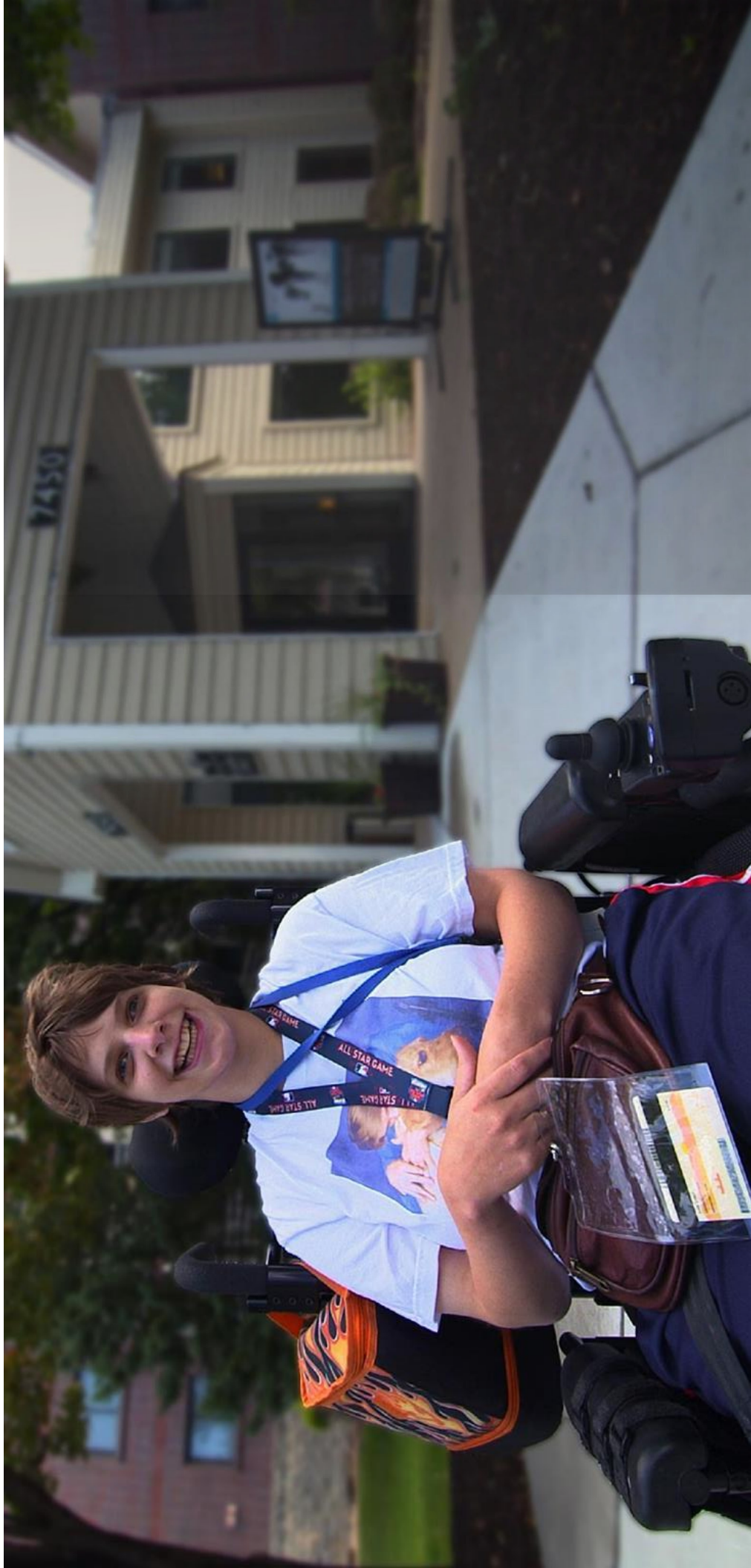
HCBS Quality Webinar: Outcome Measurement Tools

November 17, 2018 2pm EST



Webinar Agenda

- I. **NIDILRR and RRTC Overview**, Amanda Reichard, Project Officer, NIDILRR
 - II. **Background and Development of Measurement Database**
Dr. Brian Abery, Co-Director and Dr. Renáta Tichá, Research Associate, University of Minnesota Rehabilitation Research and Training Center on Home and Community-Based Services Outcomes Measurement
 - III. **Question & Answer Session**
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rtc on home and community based services outcome measurement

ICI

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RTC/OM Partners and Funding

- Primary partners
 - University of Minnesota – Institute on Community Integration
 - University of California–San Francisco
 - Temple University
 - The Ohio State University
 - National Council on Aging
- Funded by
 - National Institute on Disability, Independent Living and Rehabilitation Research NIDILRR
 - 5 years

RTC/OM: Driving Purpose

*To improve the way we define and
measure the quality of home and
community based services for adults
with disabilities*

RRTC/OM research studies

- **Phase 1:** Soliciting broad stakeholder input on NQF HCBS Measurement Framework
- **Phase 2: Gap analysis - NQF HCBS Measurement Framework & Current Instruments & Data-Base**
- **Phase 3:** Identification of high quality/fidelity implementation practices
- **Phase 4:** Refinement and development of measures
- **Phase 5:** Ascertaining Reliability, Validity & Sensitivity to Change of Measures
- **Phase 6:** Identification & testing of risk adjusters

Phase 2: Gap Analysis & Data-Base Development

National Quality Forum Framework



NQF HCBS domains and subdomains

Caregiver Support

- Family caregiver/natural support involvement
- Family caregiver/natural support well-being
- Training and skill-building
- Access to resources

Choice and Control

- Choice of services and supports
- Personal choices and goals
- Personal freedoms and dignity of risk
- Self-direction

Community Inclusion

- Resources and settings to facilitate inclusion
- Social connectedness and relationships
- Meaningful activity

Consumer Leadership in System Development

- Evidence of meaningful consumer involvement
- System supports meaningful consumer involvement
- Evidence of meaningful caregiver involvement

Equity

- Equitable access and resource allocation
- Reduction in health disparities and service disparities
- Transparency and consistency
- Availability

Holistic Health and Functioning

- Individual health and functioning
- Population health and prevention

NQF HCBS Domains and Subdomains

Human and Legal Rights

- Freedom from abuse and neglect
- Informed decision-making
- Optimizing preservation of legal & human rights
- Privacy
- Supporting exercise of human & legal rights

Person-Centered Planning & Coordination

- Assessment
- Coordination
- Person-centered planning

Service Delivery and Effectiveness

- Delivery
- Person's identified goals realized
- Person's needs met

System Performance & Accountability

- Data management and use
- Evidence-based practice
- Financing and service delivery structures

Workforce

- Adequately compensated with benefits
- Culturally competent
- Demonstrated competencies when appropriate
- Person-centered approach to services
- Safety of and respect for the worker
- Workforce engagement and participation
- Sufficient workforce numbers dispersion and availability

Gap Analysis Method and Results

- Over 200 assessments reviewed
- Over **120 assessments/instruments** coded for inclusion in the data-base
- Assessments covered following disability groups:
 - ❖ Intellectual & developmental disability (IDD)
 - ❖ Physical disability (PD)
 - ❖ Psychiatric disability/mental health challenges (MH)
 - ❖ Traumatic brain injury (TBI)
 - ❖ Age-related disabilities (ARD)

Inclusion & Exclusion Criteria

- ***Inclusion criteria:***
 - ❖ Measures an HCBS personal outcomes or service/system outcomes as identified in the NQF framework
 - ❖ Measures an outcome related to HCBS not currently included in the framework (e.g., self-determination)
 - ❖ Is currently in use in current form either at the federal, state, or provider level
- ***Exclusion criteria***
 - ❖ Measures of outcomes unrelated to HCBS (e.g., physical health outcomes)
 - ❖ Measures of individual skill & function (intelligence, adaptive behavior & personal competence)

Gap Analysis Method and Results

- Current and where applicable past versions of all instruments acquired:
- All items across all instruments coded by two RTC/OM staff
 - Checks undertaken to ensure inter-rater reliability
 - When differences found, coding team met with PIs to discuss items and reach consensus
- Items first assigned to NQF **domains** & subsequently also coded by **subdomain**
- Items not assigned to any NQF domain also coded.
- Each item was also coded for a number of additional characteristics that the RTC/OM team felt would be of importance to users

Coding Scheme

- All Instruments coded by:
 - ❖ NQF domain & subdomain (item level)
 - ❖ Target disability group(s)
 - ❖ Person-centeredness (item level coding)
 - ❖ Respondent (person w/ disability; proxy & proxy type)
 - ❖ Response type and options (item level coding)
 - ❖ Year of publication & Version
 - ❖ Administration method & mode
 - ❖ Psychometric properties* (instrument level)
 - ❖ Reliability (Test-Retest; Inter-Rater; Internal consistency)
 - ❖ Validity (Content; Concurrent; Predictive; Discriminant; Convergent; plus Confirmatory factor analysis; Principle Components Analysis)
 - ❖ Sampling frame

Coding Results

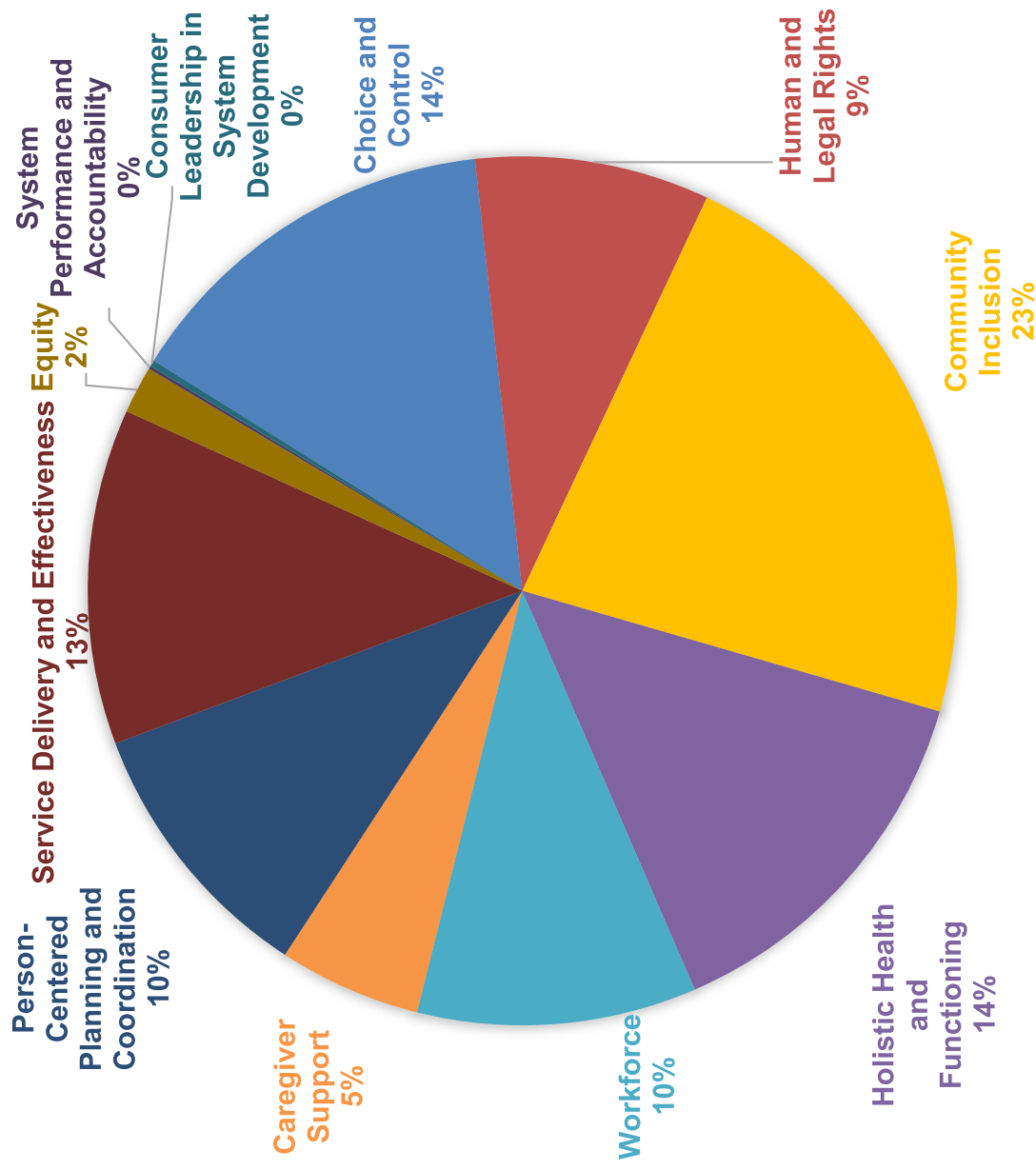
- 8,716 items coded across all surveys
- 10,000+ codes were assigned to items
 - Some items (1,667) not assigned to an existing NQF domain
 - Some items (1,185) received multiple subdomain codes
- * **Surprising finding:** A relatively large number of instruments had little to no data in the published literature relevant to their psychometric properties:
 - Psychometric data typically only available on a full instrument basis even though many assessments included discrete measures and/or subscales
 - One form of reliability data (typically internal consistency) often the only metric available
 - Validity data all too often limited to correlations between subsets of items and a global item included in the same survey

What are We Coding?

- On item-by-item basis for each measure/measure construct codes are assigned to identify
 - NQF domain
 - NQF subdomain
 - Respondent
 - Available response options
 - Person-centeredness of measure/measure construct
 - Target Population
 - Purpose for which tool was developed
 - Data collection method(s) used
 - Psychometrics (reliability; validity; sensitivity to change)
 - Where psychometrics are available
 - Coverage area: Where is instrument currently being used?

Coding Results

Instrument	Codes
Community Inclusion	972
Choice and Control	621
Holistic Health and Functioning	606
Service Delivery and Effectiveness	540
Workforce	449
Person-Centered Planning and Coordination	436
Human and Legal Rights	377
Caregiver Support	229
Equity	76
Consumer Leadership in System Development	10
System Performance and Accountability	5



Instrument Heat Map

Instrument	NCI		NCI ACS		PEONIES		PLQ		PES- HCBS		TUCPM		PES- MRDD		MFP	
	AD	26	26	32	38	14	26	32	38	14	26	32	38	14	26	32
Choice and Control	26	26	32	38	14	26	32	38	14	26	32	38	14	26	32	38
Human and Legal Rights	22	18	33	6	16	0	0	16	16	0	0	0	16	9	0	14
Community Inclusion	15	56	34	71	8	78	0	8	0	78	0	0	11	0	0	9
Holistic Health and Functioning	56	29	33	6	5	0	0	5	5	0	0	0	2	0	0	14
Workforce	18	9	2	0	32	0	0	32	0	0	0	0	21	0	0	12
Caregiver Support	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Person-Centered Planning and Coordination	42	4	10	11	13	0	0	13	13	0	0	0	13	0	0	9
Service Delivery and Effectiveness	56	10	10	0	21	0	0	21	21	0	0	0	14	0	0	13
Equity	11	11	2	0	2	0	0	2	2	0	0	0	0	0	0	0
System Performance and Accountability	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Consumer Leadership in System Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Items	246	163	156	132	111	104	91	87	87	91	104	132	111	91	104	87

Phase 2 - Takeaways

- Numerous NQF domains/subdomains underrepresented in existing HCBS measurement systems
 - ❖ Consumer Leadership in System Development
 - ❖ System Performance and Accountability,
 - ❖ Equity is supports and services
- Complex constructs (e.g. social connectedness) often attempting to be measured via extremely simple means and through extremely limited number of questions (e.g., frequency counts of reported # of friends)
- Extremely wide variability with respect to the amount and type of research available to support use of the instruments
- More survey items are ***not person-centered*** than ***are person-centered***

Public HCBS Instrument Data-base

- Designed to increase the utility and integrity of available assessments helping users insure instruments are:
 - Used for the purposes for which they were designed?
 - With the populations for which they are intended
 - Have sound psychometric properties
 - Are up-to-date
 - Answer the questions users need answered
 - Improve the overall quality of HCBS outcome assessment

Public Database Overview

- Contains instrument level Information related to all 120+ instruments that have been coded
 - ❖ Additional instruments & measures will be added as they become available
- Links provided to instrument developers
- Links provided to peer reviewed research that has been undertaken with the instrument

HCBS Instrument Database Overview

- **Public Site**
 - Allows users to employ a variety search functions in order to sort through the instrumentation included in the data-base
- Provides information with respect to extent to which instruments provide coverage of NQF:
 - Domains & Subdomains
 - By Instrument
 - Across Domains & Instruments

Public Database Overview

- Search/filtering capacity includes:
 - ❖ Domains/Subdomains
 - ❖ Respondent
 - ❖ Target Population
 - ❖ Administration Method
 - ❖ Administration Mode
 - ❖ NQF endorsement

Wrap Up & Questions

Questions, Comments?

- Please contact us with your ideas and questions!
 - ❖ Brian Abery, Center Co-Director: abery001@umn.edu
 - ❖ Renáta Tichá, Center Co-Director: tich0018@umn.edu
 - ❖ Matt Roberts: robe0290@umn.edu
 - ❖ Jonathan Walz, OIT (technical difficulties): pwalz@umn.edu

Visit our Website: <https://rtcom.umn.edu>

THANK YOU!