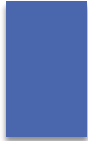


Three Novel Approaches to Using Data to Inform State-Level Policymaking

Innovative use of NCI Data in State LTSS Systems





Mary Lou Bourne
Director of NCI and Quality Assurance
NASDDDS

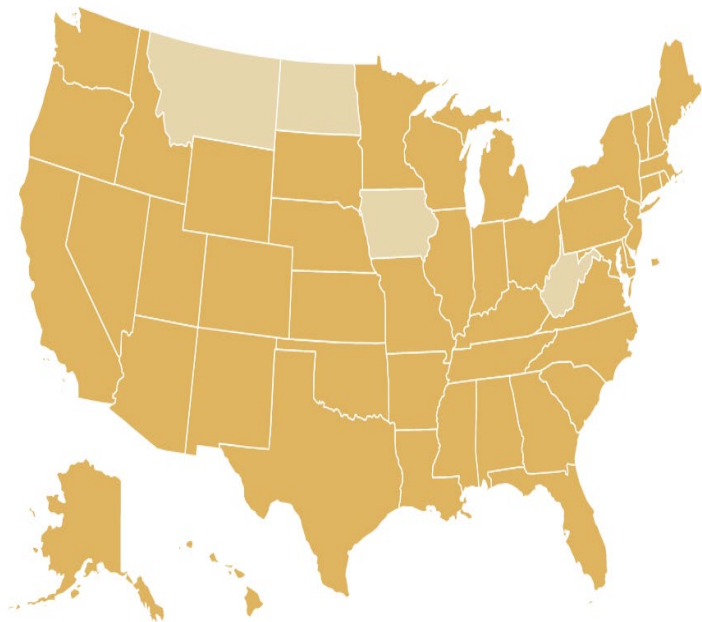


National Data

Participating NCI States

Select a participating state to view its profile

NCI States ▼



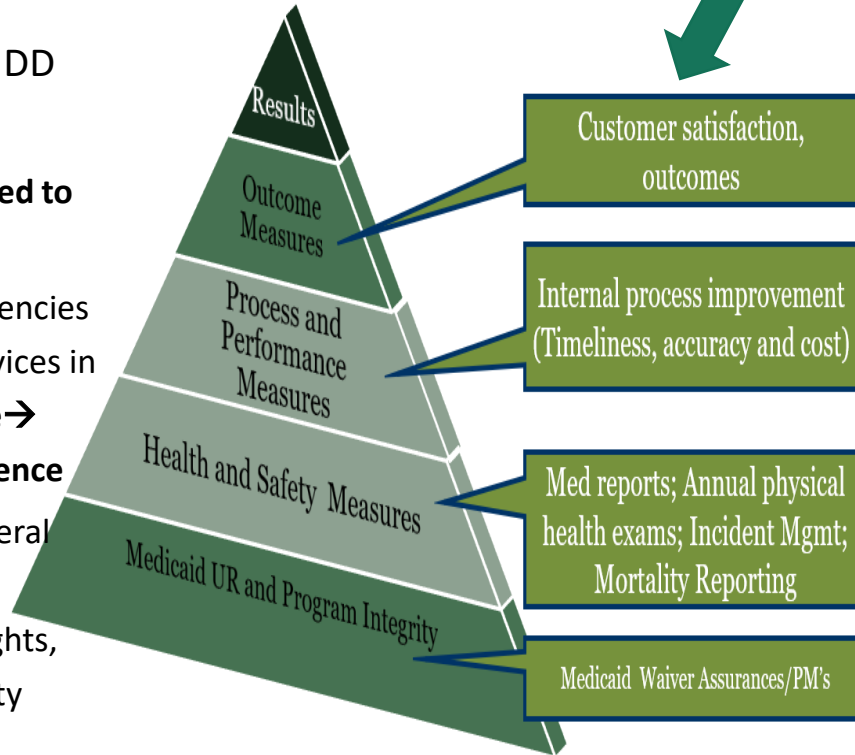
National Core Indicators

What is National Core Indicators™?

1997: NASDDDS, HSRI and State DD

Agencies shared a common goal

- **View system performance related to outcomes**
- Beyond counting units, State Agencies want to know the impact of services in **people's lives and quality of life** → **customer outcomes and experience**
- NCI looks at performance in several areas, including: employment, community inclusion, choice, rights, satisfaction and health and safety



How Does NCI
Collect Data?
3 Types of Data
Collection

In-Person Survey

- Background Information Section
 - Data collected from existing systems data.
 - Age, gender, employment, preventive care
- Section I: Subjective, **perception** based questions answered by person receiving services in face-to-face conversation
- Section II: **Fact-based** questions. How many times...? Proxy can participate.

Adult Family, Child Family, and Family/Guardian Surveys >> mail surveys – separate sample In Person Survey

Staff Stability Survey >> sent directly to providers; information about turnover rates, wages, benefits.

By the Numbers: 2018-19 Data Cycle

- 44 states collected data
- 37 States Collected in-person data
- 14 states collected Adult – Family Survey data
- 14 states collected Child – Family Survey data
- 10 states collected Guardian- Family Survey data
- 27 states collected Staff Stability Workforce data

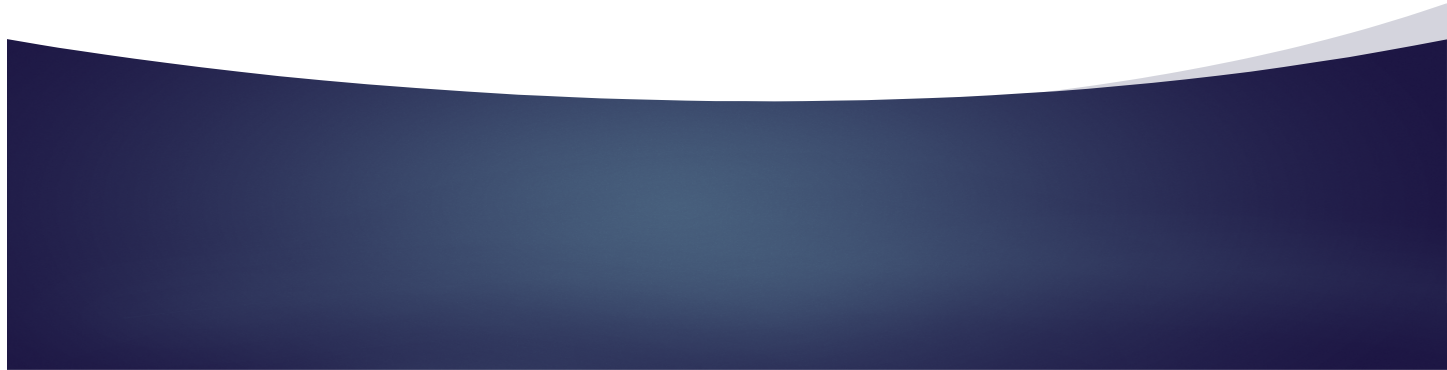
National Core Indicators offers a unique view



- Individual characteristics of people receiving services
- Outcomes sorted by where people live (residence type)
- Activities people engage in during the day including work outcomes
- The nature of their experiences with the supports received (with case managers, ability to make choices, self-direction)
- The context of their lives – friends, community involvement, safety
- Health and well-being, access to healthcare



NCI – Implications for States



Two Key Components of All Quality Systems:

- ▶ Quality by Perception
- ▶ Quality by Fact



Quality by Fact / Quality by Perception

- ▶ Quality by Fact--- evidentiary, indisputable, tend to be binary, can be “proven”

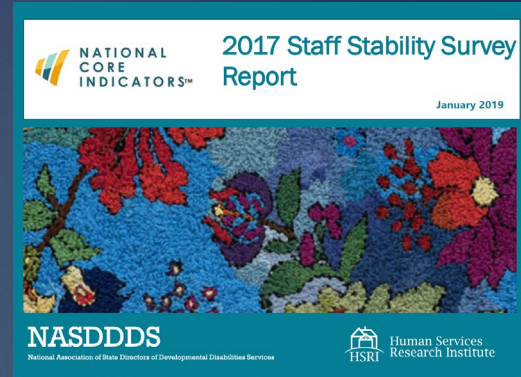
- ▶ Quality by Perception--- opinion, impression, influenced by senses or emotions, but nonetheless present

PRO PM's tend to fall into this category

- ▶ Effective Quality Management Systems take a Both/And approach, rather than either/or approach to these measure types

And the Voice of the Workforce

- ▶ 27 States
- ▶ Residential, In Home, and Non Residential Agencies
- ▶ Size of Agency reporting
- ▶ Tenure
- ▶ Turnover and Vacancy Rates
- ▶ Voluntary and Involuntary Turnover
- ▶ Wages – Starting and Overall
- ▶ Benefits
- ▶ Comparison to Minimum Wage



How States Use NCI Data

States Identify Initiatives, Transformation,
New Program Design

- ▶ Initiatives and transitioning programs
- ▶ Demonstrate areas for improvement
- ▶ Identify progress across years
- ▶ Compare segments of data for policy development and program design
- ▶ Inform legislators and stakeholders of the need and the purpose

Example from a state-report: Initiatives and transitioning programs

Case Management- Conflict Free Transition

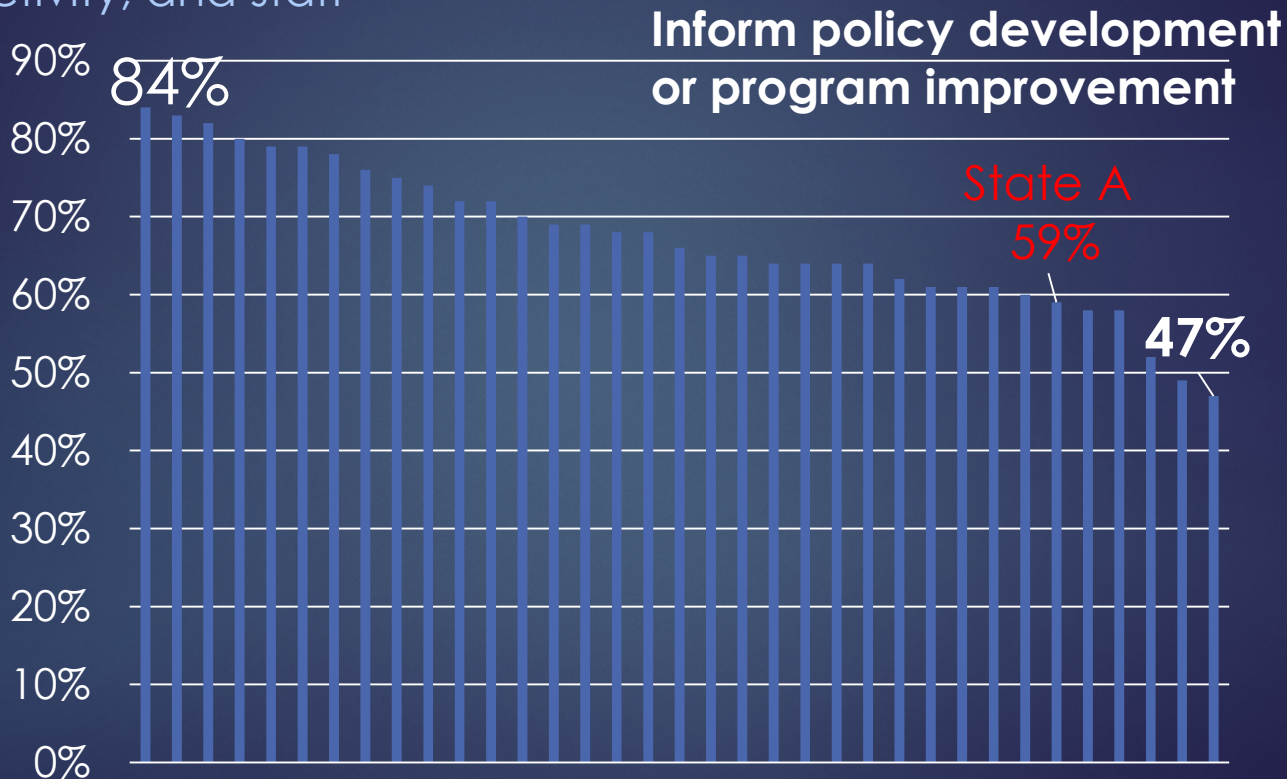
National Core Indicators™

Table 44. Service Coordination

		Yes	N
Has met case manager/service coordinator	90%	214	
	NCI	95%	13,985
Case manager/service coordinator asks person what s/he wants	76%	187	
	NCI	88%	13,210
Able to contact case manager/service coordinator when wants	67%	165	
	NCI	87%	12,593
Took part in last service planning meeting, or had the opportunity but chose not to	95%	128	
	NCI	98%	11,911
Understood what was talked about at last service planning meeting	86%	104	
	NCI	83%	11,188
Last service planning meeting included people respondent wanted to be there	75%	110	
	NCI	94%	11,151
Person was able to choose services they get as part of service plan	77%	115	
	NCI	76%	11,445
Staff come and leave when they are supposed to	89%	204	
	NCI	93%	12,186

Life decisions scale

Includes choice of: residence, roommates, work, day activity, and staff



Results of this scale are risk adjusted. Variables used as risk adjusters are: level of mobility, support needed for behavior problems, level of ID, and age.



Innovation and Approaches to Using Data

3 STATE INITIATIVES



Indiana Experiences: National Core Indicators and Employment

Derek Nord, PhD

Indiana Context

State Direction Setting

Four overarching goals:

1. Prioritize community settings and individualized approaches.
2. Advance and maximize community/state resources.
3. Respond to individual and family needs.
4. Include a wide array of supports...



Comprehensive State Plan on Community-Based Services for Persons with Intellectual and Developmental Disabilities (IDD)



A Report to the
Indiana General Assembly

October 2018



Systems Changes

1. Waiver redesign
2. Quality assurance
3. LifeCourse integration
4. Living Well grantee state



Policy and Other Initiatives

1. Supported decision making policy
2. Employment First policy and work group
3. Gov Council funded employment town halls
4. Expansion of pre-ets.



NCI in Indiana

Guiding our uses of NCI

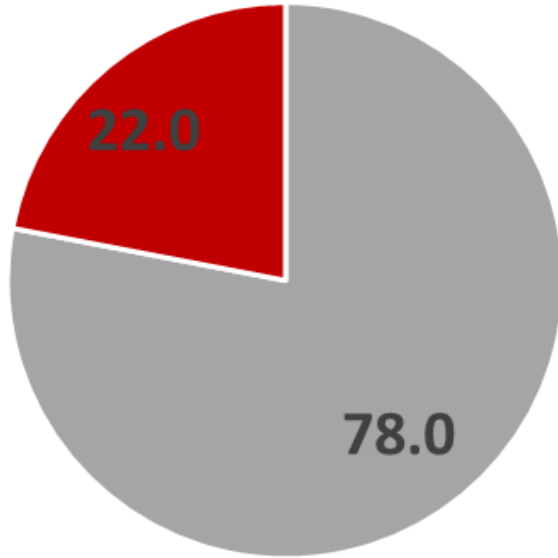
1. Evaluate how we're doing.
2. Test new ideas and answer new questions.
3. Compare to other states.



Indiana data



Job in the Community
N = 614

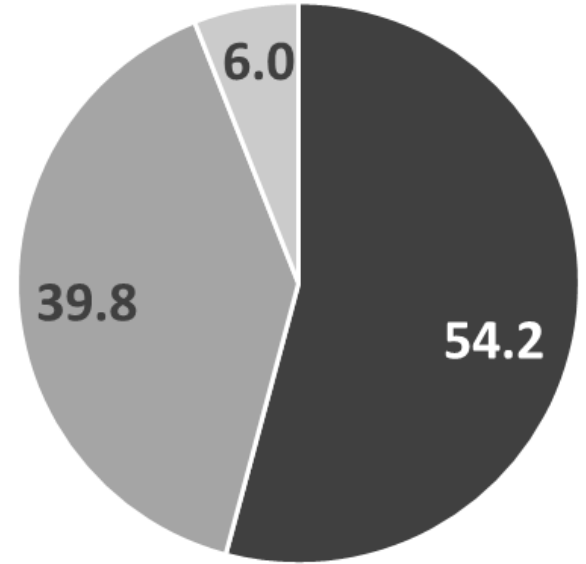


■ No ■ Yes

Those with NO job
in community
(78% of total)



Want a job in community
N = 432

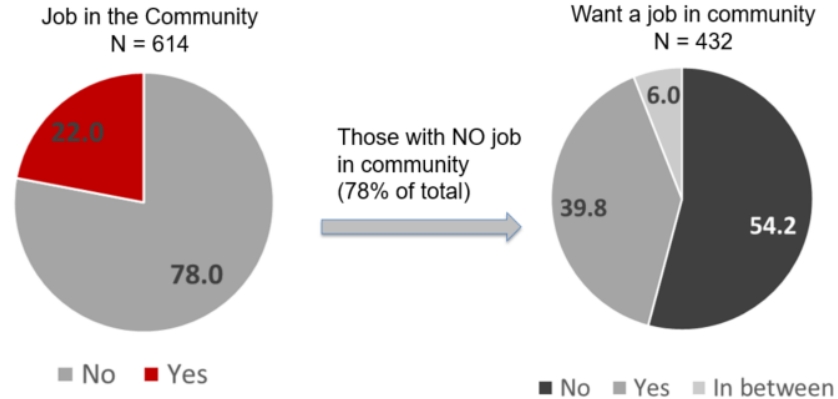


■ No ■ Yes ■ In between



What does this mean for systems?

1. **Demand is high:** Approximately 50% of total have or want a job.
2. **Outcomes are low:** Community employment is LOW!
3. **Limited Access:** About 46% of those with no community job would like one or are uncertain.



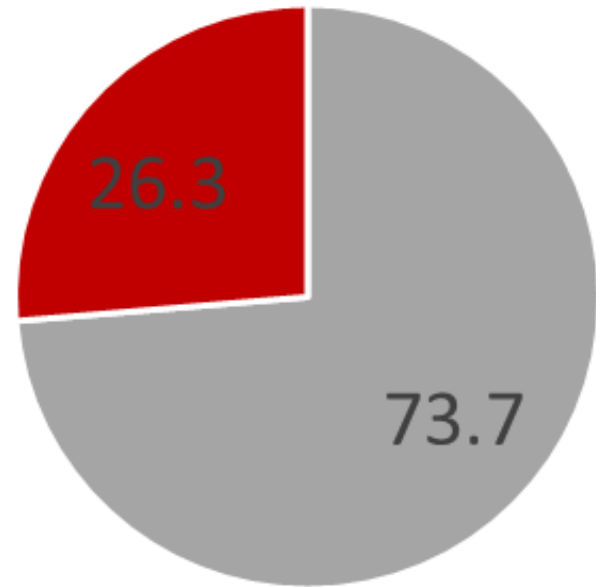
Pushing data further...

Service Planning

Of those with:

- No employment; but,
- Wanting employment

- **The vast majority do not have employment as a goal.**



■ No ■ Yes



As we navigate systems changes

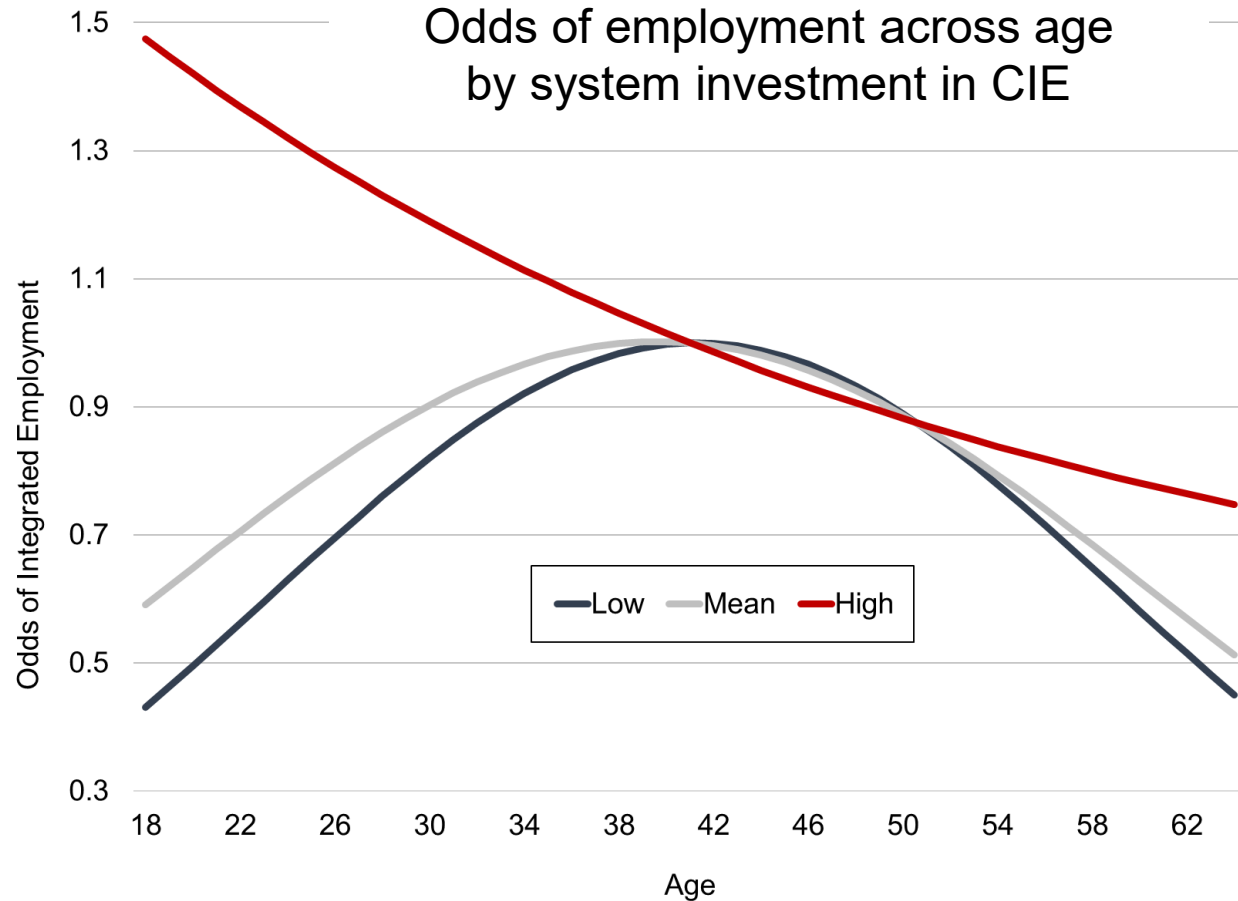
1. We might prioritize a sub-population (no employed, want a job, no goal);
2. We might investigate case manager practices and policies related to goal setting, person-centered practices, and choice making;
3. We might consider exploration/education opportunities for the 54% that state they have no job and don't want one;
4. Guardians matter too. We must look to improving in the new policy context.



National data



- Indiana HCBS investment is low, as a pct.
- System investment matters;
- Younger people have different experiences;





Where we're headed

Integrating data into decisions

1. Analyzing and presenting internally and to advisors.
2. Informing the public.
3. Supporting rationale for system changes.
4. Future linking to ask new questions.



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**INDIANA INSTITUTE ON
DISABILITY AND COMMUNITY**



Integrating Complex Datasets to Provide Outcome Insights for HCBS Users with IDD

Parthy Dinora & Seb Prohn
Partnership for People with Disabilities

Contexts for the Study in Virginia



VCU

School of Education



Initial Findings

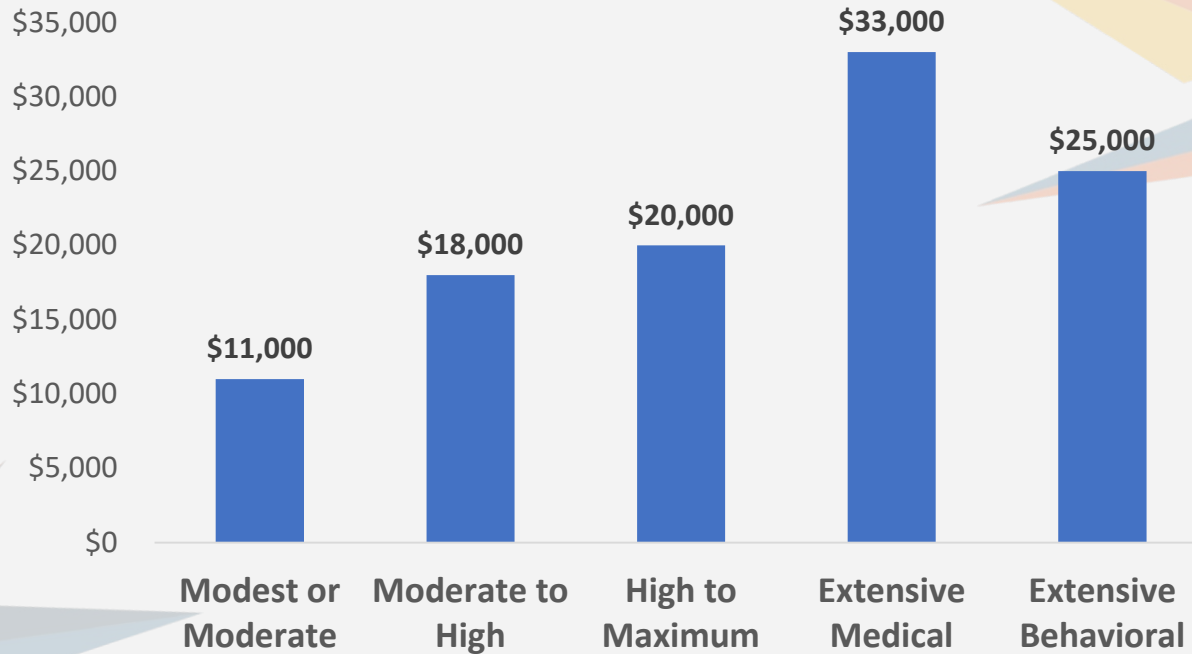


VCU

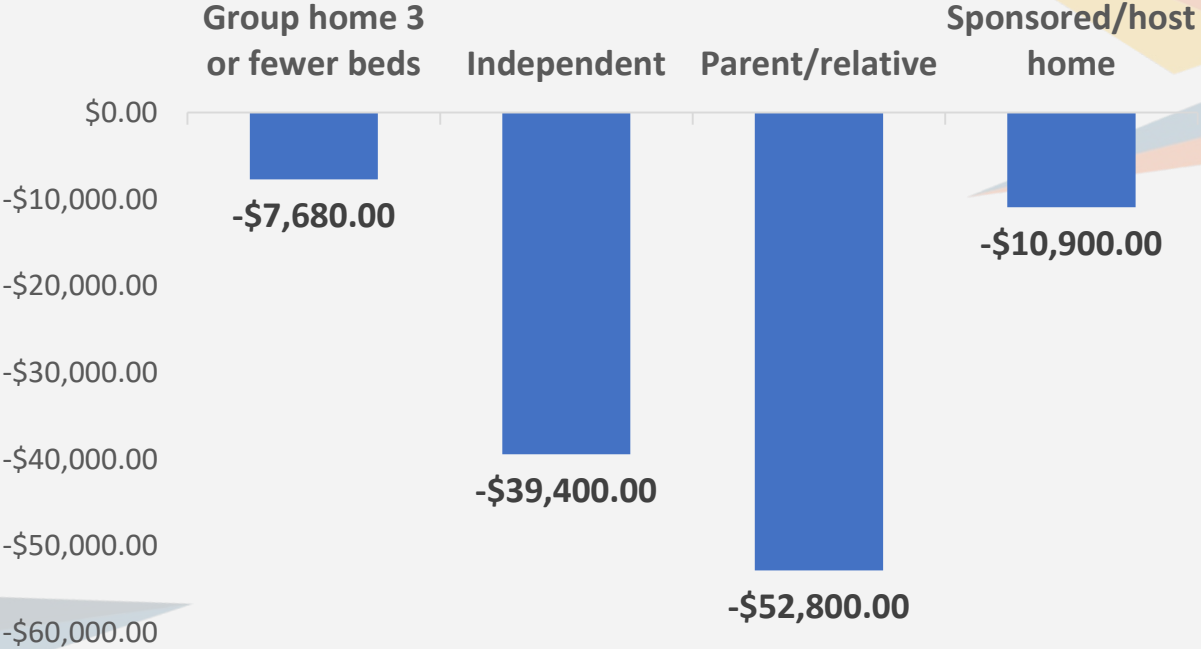
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Predicted Medicaid Expenditures Compared to Least Support Needs Group (\$;fy2014)



Predicted Medicaid Expenditures Compared to Congregate settings with 4 or more beds (\$;fy2014)



Personal Outcomes

- Support needs (SIS) predicted
 - Social participation and relationships
 - Everyday choices
 - Social determination
 - Rights
- Living arrangements
 - Social participation
 - Everyday choices



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School of Education



Revisiting Personal Outcome Measures (Virginia NCI, fy2018)

Personal Opportunity

- Social participation
- Choice
- Rights

Wellness

- Heart health
- Mental health
- Behavioral health



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Measuring Progress

- 2014 compared with 2018 & 2019
- The possibilities!



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Using NCI Data to Inform Priority Areas of Quality Improvement

Laney Bruner-Canhoto, PhD, MSW, MPH
Assistant Commissioner of Quality Management
MA Department of Developmental Services

Courtney Dutra, MPA
Project Manager
Center for Developmental Disabilities
Evaluation and Research (CDDER)
University of Massachusetts Medical
School



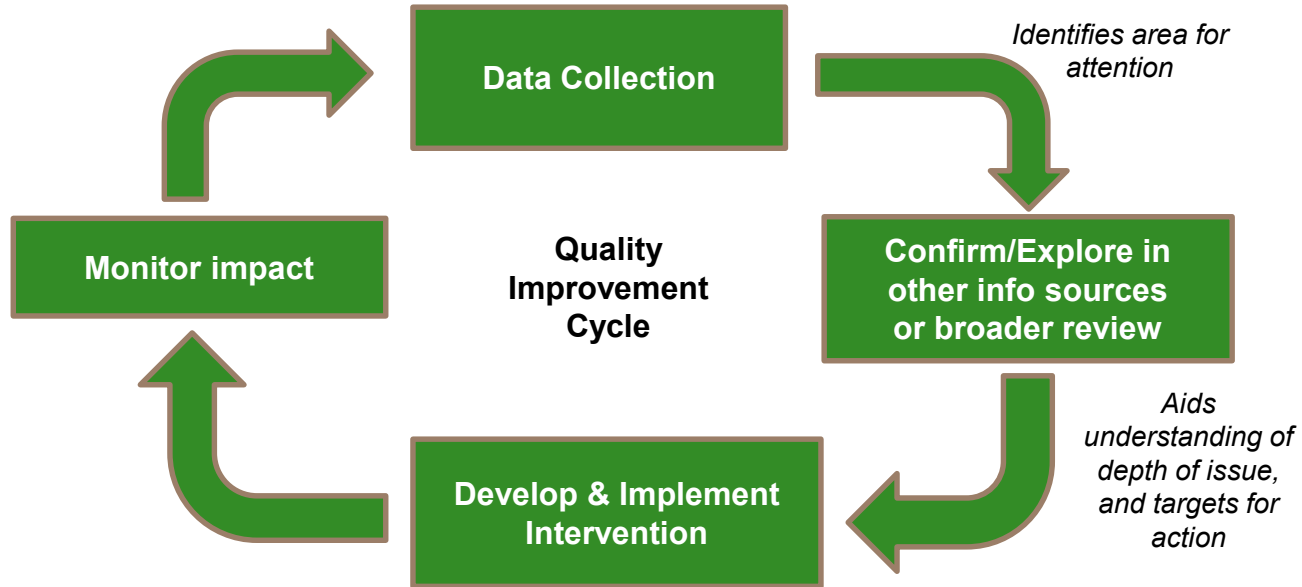
Context from Massachusetts

- DDS has built a sophisticated community-based service system.
 - From serving >10,000 individuals in nine large institutional settings
 - To serving >35,000 individuals supported in a variety of community settings.
- **Mission:** The Department is dedicated to creating, in partnership with others, innovative and genuine opportunities for individuals with intellectual disabilities to participate fully and meaningfully in, and contribute to, their communities as valued members.

Quality Council

- Began in 2007
- DDS recognized the need to establish one group that could advise the Department about how to measure quality and where to improve services and supports.
- Membership is comprised of self-advocates, family members, providers and DDS staff.

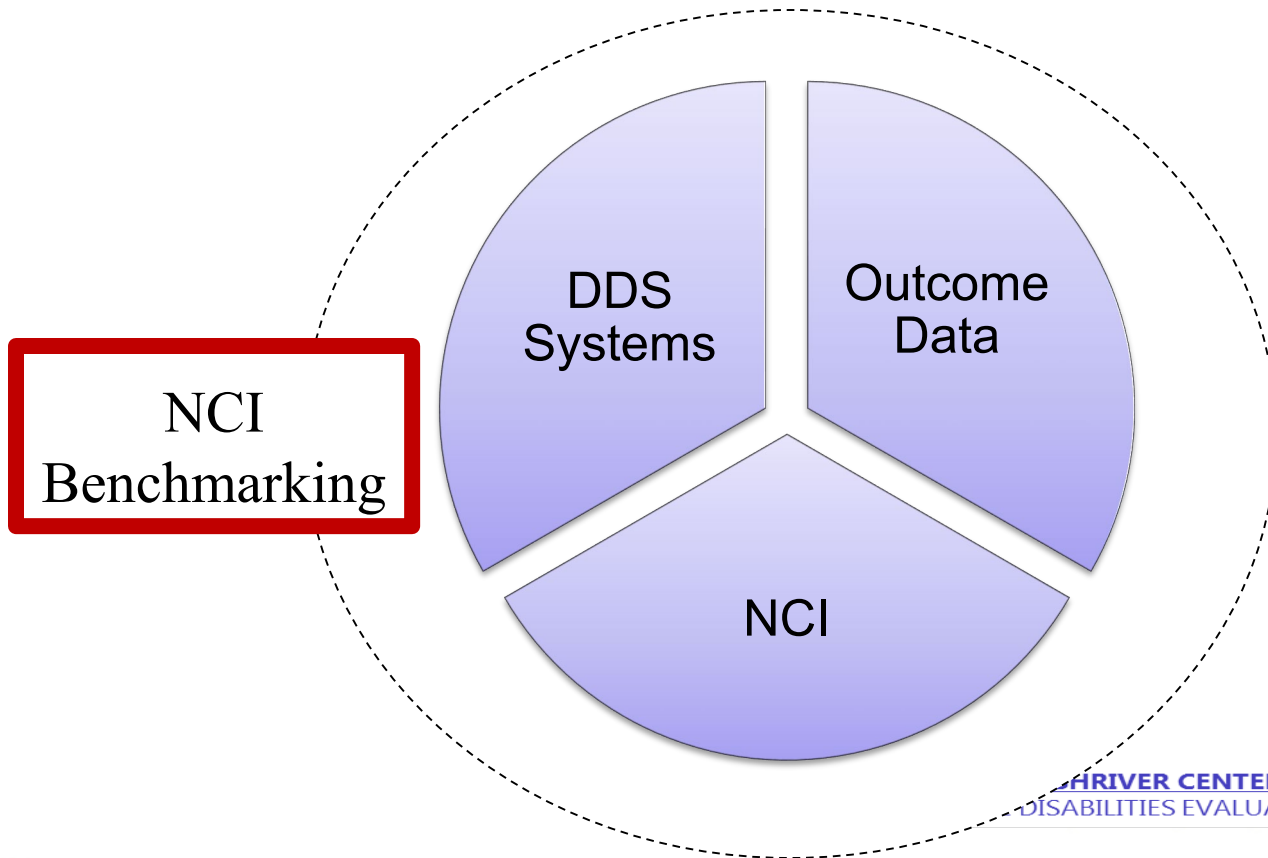
Use of Data in the Quality Improvement Cycle



How is NCI data used?

- Compliments DDS system indicators
 - To describe the experience of individuals in service settings
- To benchmark performance against other states and the national averages.


Informing the QC Perspective




EXAMPLES

Health

Data are from licensing and certification processes, health care record analysis and NCI.



Percentages of people receiving annual physical and dental exams has always been an important indicator.



Generally these percentages are fairly consistent across the data sources

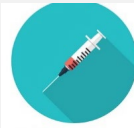
Healthy Lifestyle 2010- 2011¹



85% received an annual physical.



83% received an annual dental exam.



67% received flu vaccine

Below NCI state and national averages

¹Analysis of DDS Health Care Records for adults aged 18+ eligible for DDS community-based residential services.

Health Promotion and Coordination Initiative

Goal: enhance the quality of health care by focusing on the important role that direct support professionals play in health care advocacy, including:

- The preventive health screening recommendations
- A health review checklist which is completed by direct support professionals and taken to every primary care appointment to aid in communication and follow up.
- Easy to use informational sheets for observing and reporting signs and symptoms of illness.
- Training for direct support professionals


Preventive Screening Guidelines for Adults with Intellectual Disability

- **Target:** Improve emphasis on & decrease variation of preventive health at annual physical, the main source of health-related information in ISP development.

Massachusetts Department of Developmental Services Adult Screening Recommendations
The following are global screening recommendations for adults with intellectual/developmental disabilities. There may be other risk factors not listed.

Procedure	19-29 Years	30-39 Years	40-49 Years	50-69 Years
Health Maintenance Visit	Annually	Annually	Annually	Annually
Oral Health Visit	Annually	Annually	Annually	Annually
Cancer Screening	Promote dental health through regular oral hygiene practices and assessment by dentist.			
Breast Cancer	Annual clinical breast exam and self-examination instruction as appropriate.	Annual clinical breast exam and self-examination instruction as appropriate.	Annual clinical breast exam and self-examination instruction as appropriate. Use shared decision making to consider mammography for high risk patients.	Annual clinical breast exam and self-examination instruction as appropriate. Use shared decision making to consider mammography for high risk patients.
Cervical Cancer (Pelvic Exam & Pap Smear/HPV)	Screen every 3yrs ages 21-29. When speculum testing is too traumatic, consider HPV testing via vaginal swab.	Screen with Pap test every three years, or combination of Pap and HPV tests every 5 years.	Screen with Pap test every three years, or combination of Pap and HPV tests every 5 years.	Screen with Pap test every three years, or combination of Pap and HPV tests every 5 years.
Colorectal Cancer	Screening not routine.	Screening not routine.	Screen with PSA starting at age 40 for adults who are at high risk, and at age 45 for African Americans.	Screen with PSA starting at age 40 for adults who are at high risk, and at age 45 for African Americans.
Testicular Cancer	Screening not routine.	Screening not routine.	Annual testicular exam for all male patients.	Annual testicular exam for all male patients.
Prostate Cancer	Screening not routine.	Screening not routine.	Annual testicular exam for all male patients.	Annual testicular exam for all male patients.
Skin Cancer	Annual screening for those at high risk (family history of skin cancer, a lighter natural skin color, blue or green eyes, blond hair, and/or freckles).	Annual screening for those at high risk (family history of skin cancer, a lighter natural skin color, blue or green eyes, blond hair, and/or freckles).	Annual screening for those at high risk (family history of skin cancer, a lighter natural skin color, blue or green eyes, blond hair, and/or freckles).	Annual screening for those at high risk (family history of skin cancer, a lighter natural skin color, blue or green eyes, blond hair, and/or freckles).
Liver Cancer	Screen for liver cancer in those with chronic hepatitis B or C.	Screen for liver cancer in those with chronic hepatitis B or C.	Screen for liver cancer in those with chronic hepatitis B or C.	Screen for liver cancer in those with chronic hepatitis B or C.
Obesity	Screen for overweight and eating disorders. Consult the CDC's growth and BMI charts. Counsel on benefits of physical activity and diet.	Screen for overweight and eating disorders. Consult the CDC's growth and BMI charts. Counsel on benefits of physical activity and diet.	Screen for overweight and eating disorders. Consult the CDC's growth and BMI charts. Counsel on benefits of physical activity and diet.	Screen for overweight and eating disorders. Consult the CDC's growth and BMI charts. Counsel on benefits of physical activity and diet.
Hypertension	At every medical encounter and at least annually.	At every medical encounter and at least annually.	At every medical encounter and at least annually.	At every medical encounter and at least annually.
Cholesterol	At every medical encounter and at least annually.	At every medical encounter and at least annually.	At every medical encounter and at least annually.	At every medical encounter and at least annually.
Diabetes (Type 2)	Screen at least every 3-5 years with the HbA1c or fasting plasma glucose.	Screen at least every 3-5 years with the HbA1c or fasting plasma glucose.	Screen at least every 3-5 years with the HbA1c or fasting plasma glucose.	Screen at least every 3-5 years with the HbA1c or fasting plasma glucose.
Liver Function	Screen annually for hepatitis B carriers. At clinician's discretion, after consideration of risk factors including long term prescription medication, hypogonadism, vitamin D deficiency, and/or recurrent aspiration.	Screen annually for hepatitis B carriers. At clinician's discretion, after consideration of risk factors including long term prescription medication, hypogonadism, vitamin D deficiency, and/or recurrent aspiration.	Screen annually for hepatitis B carriers. At clinician's discretion, after consideration of risk factors including long term prescription medication, hypogonadism, vitamin D deficiency, and/or recurrent aspiration.	Screen annually for hepatitis B carriers. At clinician's discretion, after consideration of risk factors including long term prescription medication, hypogonadism, vitamin D deficiency, and/or recurrent aspiration.
Dysphagia & Aspiration	Conduct annual cardiovascular disease risk assessment. Specific syndromes and neurologic medications may increase risk for cardiac disease.	Conduct annual cardiovascular disease risk assessment. Specific syndromes and neurologic medications may increase risk for cardiac disease.	Conduct annual cardiovascular disease risk assessment. Specific syndromes and neurologic medications may increase risk for cardiac disease.	Conduct annual cardiovascular disease risk assessment. Specific syndromes and neurologic medications may increase risk for cardiac disease.
Cardiovascular Disease	Conduct annual cardiovascular disease risk assessment. Specific syndromes and neurologic medications may increase risk for cardiac disease.	Conduct annual cardiovascular disease risk assessment. Specific syndromes and neurologic medications may increase risk for cardiac disease.	Conduct annual cardiovascular disease risk assessment. Specific syndromes and neurologic medications may increase risk for cardiac disease.	Conduct annual cardiovascular disease risk assessment. Specific syndromes and neurologic medications may increase risk for cardiac disease.
Osteoporosis	Consider BMD screening at any age if risk factors are present. (Long term polypharmacy, particularly antiepileptics), mobility impairments, hypothyroid, limited physical activity, Down syndrome, hypogonadism, vitamin D deficiency, and/or recurrent aspiration. Consider swallow or optometrist.)	Consider BMD screening at any age if risk factors are present. (Long term polypharmacy, particularly antiepileptics), mobility impairments, hypothyroid, limited physical activity, Down syndrome, hypogonadism, vitamin D deficiency, and/or recurrent aspiration. Consider swallow or optometrist.)	Consider BMD screening at any age if risk factors are present. (Long term polypharmacy, particularly antiepileptics), mobility impairments, hypothyroid, limited physical activity, Down syndrome, hypogonadism, vitamin D deficiency, and/or recurrent aspiration. Consider swallow or optometrist.)	Consider BMD screening at any age if risk factors are present. (Long term polypharmacy, particularly antiepileptics), mobility impairments, hypothyroid, limited physical activity, Down syndrome, hypogonadism, vitamin D deficiency, and/or recurrent aspiration. Consider swallow or optometrist.)
Eye Examination	ALL, including those with legal or total blindness, should be under an active vision care plan and eye exam schedule (optometrist.) Refer to eye specialist if new ocular signs/symptoms develop, including changes in vision/binary.	ALL, including those with legal or total blindness, should be under an active vision care plan and eye exam schedule (optometrist.) Refer to eye specialist if new ocular signs/symptoms develop, including changes in vision/binary.	ALL, including those with legal or total blindness, should be under an active vision care plan and eye exam schedule (optometrist.) Refer to eye specialist if new ocular signs/symptoms develop, including changes in vision/binary.	ALL, including those with legal or total blindness, should be under an active vision care plan and eye exam schedule (optometrist.) Refer to eye specialist if new ocular signs/symptoms develop, including changes in vision/binary.

Preventive Health Recommendations
FOR ADULTS WITH INTELLECTUAL DISABILITY
Guidelines for community practitioners



Distributed by the Massachusetts Department of Developmental Services (DDS)
In partnership with the Center for Developmental Disabilities Evaluation and Research (CDDER) UMass Medical School. Brochure revised Mar. 2019

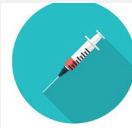
CDDER
Center for Developmental Disabilities Evaluation and Research



93% received an annual physical exam.



88% received an annual dental exam.



69% received flu vaccine
[NCI: 77%; MA BRFSS 91%]

Healthy Lifestyle 2018¹

Above NCI state and national averages

¹Analysis of DDS Health Care Records for adults aged 18+ eligible for DDS community-based residential services.

Preventive Screenings 2018

Screenings	Adults with I/DD ¹	MA General Population ²
Eye exam or vision screening in the past year	70%	N/A
Hearing test in the past 5 years	35%	N/A
Women: Pap test in the past 3 years:, ages 21-65	38%	84%
Women: Mammogram in the past 2 years, ages 50-74	56%	86%
Colorectal cancer screening in the past 10 years , ages 50-74	56%	76%

NCI data are consistent.

Some differences in screening time frames.

¹ Analysis of DDS Health Care Records updated 1/1/18 or later for adults aged 18+ who are currently eligible for DDS community-based residential services.

² Massachusetts Behavioral Risk Factor Surveillance System (BRFSS) 2016 survey.

Preventive Health Screenings: Cancer-related deaths in adults served by DDS

Comparison of Adult Cause-specific Mortality Rates Between MA DDS and MA General Population

(rates per thousand people)

Cause of Death	State of MA	MA DDS
All Cancers	2.3	2.3

Adults served by DDS have a similar rate of death from cancers overall as other adults living in MA

Cancer deaths compared with Healthy People 2020 Mortality Objectives

Rates per 100,000 population

Objective Number	Healthy People 2020 Objective	Target 2020	MA DDS		General Population MA
			Avg. Crude Adult Rate	Target Status	
C-2	Lung Cancer	45.5	27.9	✓	41.4
C-3	Female Breast Cancer (per 100,000 females)	20.7	42.5	●	18.4
C-4	Uterine cervix (per 100,000 females)	2.2	2.0	✓	1.0
C-5	Colorectal Cancer	14.5	35.5	●	13.0
C-6	Oropharyngeal Cancer	2.3	1.7	✓	2.4
C-7	Prostate Cancer (per 100,000 males)	21.8	13.7	✓	18.5
C-8	Malignant Melanoma	2.4	3.4	●	3.2

However, adults served by DDS are much more likely to die from female breast and colorectal cancers – both of which have early detection screenings.

Given the cancer mortality rates, are adults served by DDS getting screenings?

- **Adults served by DDS in residential supports obtain annual physicals at a higher rate than other adults living in MA.**
- **However, adults served by DDS in residential supports have lower rates of receiving cancer screenings than other adults living in MA.**

	Adults with I/DD in DDS residential supports	MA General population
Annual Physical Exams	93%	79%
Pap test in past 3 years (ages 21-65)	38%	84%
Mammogram in the past 2 years (ages 50-74)	56%	86%
Colorectal cancer screening in past 10 years (ages 50-74)	56%	76%

Notes/Source: Analysis of DDS Health Care Records for adults 18+ years eligible for DDS community-based residential services.
General population data from MA BRFSS 2016 survey data. Analysis completed with the assistance of CDDER/UMass Medical School.

Barriers to Mammography among women with ID

- Retrospective chart review of 89 women over age 40 in a residential support setting.
- 59.6% of women had a mammogram in previous year (in 2008 MA: 84.9% ; US:76%)
- Women needing special positioning 25 times **less likely** to have screening.
- If able to give consent: 20 times **more likely**

ADDITIONAL EXAMPLE - FALLS

Massachusetts DDS Falls

- **Incident Management System**
- 1,500 reported serious injuries from falls
- Estimate 10,000 falls occur without injury

- **Emergency Room Visits (2011-2012)**
 - 31% of ER visits were from physical injuries
 - 49% of physical injuries were from falls

Falls Prevention Initiative

- Training to all providers
- Developed falls risk screening tools
- Developed post-fall assessments



STOP Falls Pilot

STOP Falls Pilot	Results
910 Individuals for 6 months	<ul style="list-style-type: none">• 33% reduction in monthly rate of falls and reduction in # of people who fell
Staff tracked all falls and completed post-fall assessments	<ul style="list-style-type: none">• Factors that increased falls risk: Recent falls history (5x), unsteady balance (5x), 4 or more prescription drugs (2.5x)
Piloted tool use	<ul style="list-style-type: none">• Loss of Balance and Trip/Slip (53%) were the most common 'why'
Identify falls patterns to reduce risk	<ul style="list-style-type: none">• 46% of falls occur while the person was "walking around"

Dissemination - QINA

Quality Is No Accident

Massachusetts DDS • Quality & Risk Management Brief • Apr 2012 Issue#5



DID YOU KNOW?

85% of adults in DDS-funded residential supports had an annual exam in either 2010 or 2011; 37% of adults living in their own home or with their family had one.

67% of adults in DDS-funded residential supports and 20% of adults living in their own home or with family received a flu shot in 2010 or 2011.

At least 30% of adults with

Preventive Screenings

Promoting Health for All

Preventive health screenings are important for all people, but especially for people with Intellectual and Developmental Disabilities (I/DD). Adults with I/DD may have special screening needs due to different patterns of illness or complex interactions between different medical conditions. Commonly under-recognized health care problems in this population include gastrointestinal problems like GERD or constipation, vision concerns, aspiration, Urinary Tract Infections (UTI's), chronic/recurrent infections like sinusitis, respiratory disease, musculoskeletal conditions like osteoporosis or degenerative joint disease, and neurological conditions.

Screening Recommendations

DDS developed guidelines to assure that people with ID receive the same consideration for preventive health care screenings as the general population. Too often, health care

Strategies to Ensure Access to Screenings

Advocate for Screenings

- Staff or family members can be effective advocates for preventive screenings.
 - Staff who accompany a person to the annual physical should be familiar with the person's preferences for support, communication styles, and needed accommodations.
 - Advocates should be knowledgeable about which screenings would be appropriate to discuss with the physician or health care provider at the annual visit. The DDS Preventive Health Screening checklist can assist with this process.

Reduce Fear and Confusion

- Many adults feel more comfortable at a medical visit if they feel adequately prepared for the event. It can be helpful to talk about the details of what to expect and why it's important.
- Listen to the person's concerns and address them.
- Prepare for exam procedures by tailoring information to the person's level of understanding; show, don't tell. For example, show what may happen during a screening on a staff person or doll, or introduce unfamiliar items such as a stethoscope or a blood pressure cuff at home to allow the instrument to become more familiar.
- If the person is particularly anxious, talk with the health care provider about the possibility of booking multiple appointments to allow time for the person to become comfortable.
- Be clear about why consent is given or refused. If a guardian refuses to consent to a screening, ask whether the guardian has concerns or questions they want addressed. Where appropriate, offer additional information about the screening's benefits.

Understand and accommodate the person's needs

- People with mobility challenges may need accessible screening facilities, such as those listed

Dissemination – QA Briefs

Massachusetts Department of Developmental Services (DDS)



Quality Assurance Brief



Preventive Care

August 2019

2017-2018 National Core Indicator Data: All adults served by DDS

- 50% had an eye exam in the past year
- 63% had a hearing test in the past 5 years
- 77% had a flu vaccine in the past year



Adults in community-based residential supports¹

Physical Exams:

- 96% of providers adequately supported people to receive annual physical exams.
- 93% of people had a complete physical exam in the past year. This is higher than the Massachusetts general population (79%).²



Dental Exams:

Thank you!

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<https://shriver.umassmed.edu/programs/cdder/dds-quality-assurance-reports>

<https://shriver.umassmed.edu/programs/cdder/dds-preventive-health-screenings-adults-intellectual-disabilities>