

Standardization of Adult Day Services Outcomes and Data Collection – The Path Forward

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2020: Adult Day Services is a system of professionally delivered, integrated, home and community-based, therapeutic, social and health-related services provided to individuals to sustain living within the community.

Great story, now prove it.

Modern Healthcare is Data Driven

- Adult Day Services can no longer operate in a vacuum
- ADS must compete with other service delivery models (e.g. PACE, ACOs, etc.)
- To compete, ADS needs **DATA**



Demonstrate Value by Documenting Services, Interventions, Outcomes

- Identify services that lead to positive impacts on
 - Participant (Health Outcomes)
 - Caregiver (Burden Reduction)
 - Community and Payor (Cost Avoidance/Savings)

- But how and what?
 - Detailed Participant Demographics
 - Health Outcomes (Standard Tools)
 - Health Occurrences

Process: Overview



Organizational Data

The image shows a laptop screen displaying a web-based interface for an EHR system. The browser's address bar shows 'Finder' and the system logo 'RTZ systems'. The page title is 'Chart(EHR)'. The main content area is titled 'Organization Information' and shows a form for 'Add New Location' for 'Centennial Adultcare'. The form includes fields for Name, Address, Abbreviation, Phone Number, Contact Person, NPI#, and various accreditation and entity type options. The form is partially filled out with data for a location in Mt. Juliet, TN.

Organization Information Home / Organization Information

Centennial Adultcare

Single Site Multiple Site

Part **Add New Location**

Name Centennial Adultcare Center - Mt. Juliet **Abbreviation** Mt. Juliet

Address 4112 N. Mt. Juliet Road Mt. Juliet TN 37122

Email **Phone Number** 615-288-8189

Contact Person

NPI#

Licensed No Yes **Accredited** No Yes **Certified** No Yes

Business Identification Number **Model**

Specialized

Utilize Remote Technology to participant engagement

Entity Type For Profit

Payer Medicaid Private Pay VA Waiver LTC Insurance Other

Cancel Save

Participant Data - Demographics

The image shows a laptop screen displaying a web application interface for participant data. The browser's address bar shows 'Finder' and the system clock indicates 'Sun 1:44 PM'. The application header includes the 'RTZ systems' logo and a 'Logout' link. Below the header, the breadcrumb trail reads 'Home / Client Info / Charles Bing'. Three tabs are visible: 'Basic Information' (active), 'Occurrences', and 'Assessments'. An 'Edit' button is located in the top right corner of the data section.

Charles Bing [Home](#) / [Client Info](#) / Charles Bing

Basic Information | Occurrences | Assessments

[Edit](#)

Name: Charles Young Bing Age: 52 DOB:02/14/1970

System ID : 25 Participant Site ID : EL0002025 (optional) Site: Centennial Adultcare Center - Mt. Juliet Enrollment Date :04/01/2022

Caregiver: We Care A Lot Facility Representative

Diagnoses : Ocular hypertension, left eye-H40.052
Essential (primary) hypertension-I10

Gender: Male Race: Latino/Latina Ethnicity: Assiniboine
Primary Language: Other Living Situation: Alone Veterans Status: Unknown
Other Language: Transportation Status:
Mobility Status: Wheelchair

Allergies : Substance: Dust(Environmental), Severity: Mild, Status: Active, Date: 01-01-2022
Substance: Beef(Food), Severity: Mild, Status: Active, Date: 05-01-2022

Emergency Contacts: Bing, Apple
Bing, Banana

Food Restriction: Do not eat dairy foods and plant foods.

Attendance Days: TuWTh

Virtual Attendance Days: MF

Participant Data - High-Cost Health Care Utilization

Outcome	Tool/Scale	Frequency
ER Visit	Numeric with Date	Occurrence Based
Hospital Admission	Yes/No - With Admitting Diagnosis	Occurrence Based
Length of Hospital Stay	Numeric with Admission Date	Occurrence Based
Hospital Readmission	Yes/No - With Admitting Diagnosis and original admission date	Occurrence Based
Injury Inducing Fall	Date and resulting ER or Hosp. Admission	Occurrence Based
Medication	Numeric - number of prescribed medication	At enrollment and annually thereafter
Hospice/Palliative care use	Yes/No - With Admitting Date	Occurrence Based
ALF/SNF Placement	Yes/No - With Admitting Date	Occurrence Based
Date of Death	Date	Occurrence Based

Participant Data - Outcomes

Outcome	Tool/Scale	Frequency
Functional Health - ADL	Katz Index	At Enrollment and at least annually thereafter
Functional Health - iADL	Lawton Scale	At Enrollment and at least annually thereafter
Fall Risk	Hendrich II	At Enrollment and at least annually thereafter
Depression	GDS-15	At Enrollment and at least annually thereafter
Loneliness	UCLA-8	At Enrollment and at least annually thereafter
Nutrition Assessment	DETERMINE	At Enrollment and at least annually thereafter
Cognitive Function	SLUMS	At Enrollment and at least annually thereafter
Pain Assessment - Optional	One-Time NRS Pain Scale	At Enrollment and at least annually thereafter
Physical Health – Optional	One-time Self-perceived Physical Health Scale	At Enrollment and at least annually thereafter

Caregiver Outcomes (Phase 2)

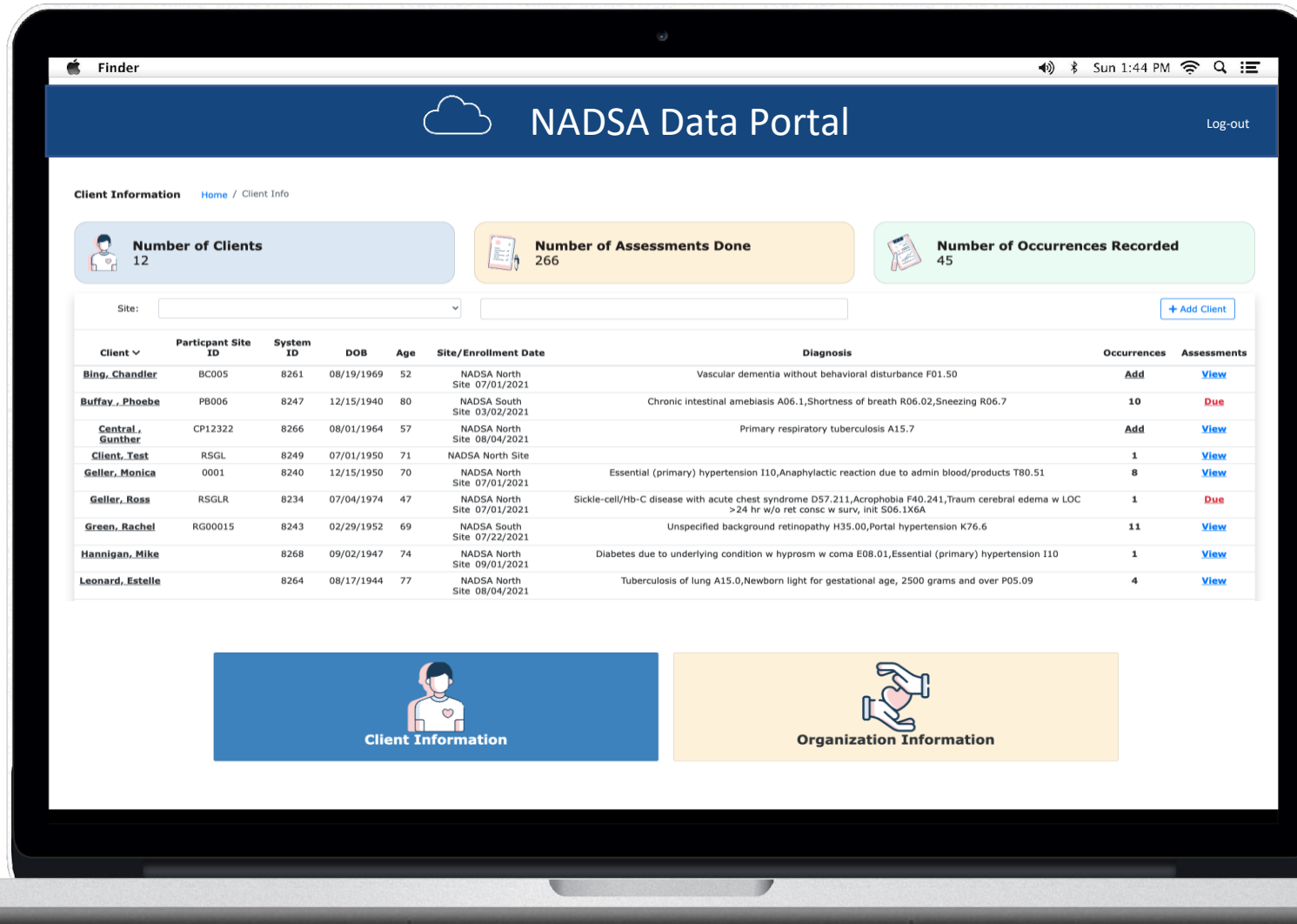
Outcome	Tool/Scale	Frequency
Physical Health	One-time Self-perceived Physical Health Scale	At enrollment and annually thereafter
Emotional Health	Modified Caregiver Strain Index	At enrollment and annually thereafter

Participant Data - SDOH (Phase 2)


Outcome	Tool/Scale	Frequency
Housing Security	Modified AHC-HRSN	At enrollment and annually thereafter
Nutrition - Meal/Food Access at home	Modified AHC-HRSN	At enrollment and annually thereafter
Transportation Access	Modified AHC-HRSN	At enrollment and annually thereafter
Medication Access	Modified AHC-HRSN	At enrollment and annually thereafter
Personal Care Access @ home	Modified AHC-HRSN	At enrollment and annually thereafter
Healthcare Power of Attorney	Modified AHC-HRSN	At enrollment and annually thereafter
Healthcare appointments where possible	Numeric, based on PCP, Specialty, Dentist, etc.	Occurrence based


New!


Illustration of pre-production system shown.



Client Information [Home](#) / [Client Info](#)


 **Number of Clients**
12

 **Number of Assessments Done**
266

 **Number of Occurrences Recorded**
45

Site: [+ Add Client](#)

Client	Participant Site ID	System ID	DOB	Age	Site/Enrollment Date	Diagnosis	Occurrences	Assessments
Bing, Chandler	BC005	8261	08/19/1969	52	NADSA North Site 07/01/2021	Vascular dementia without behavioral disturbance F01.50	Add	View
Buffay, Phoebe	PB006	8247	12/15/1940	80	NADSA South Site 03/02/2021	Chronic intestinal amebiasis A06.1, Shortness of breath R06.02, Sneezing R06.7	10	Due
Central, Gunther	CP12322	8266	08/01/1964	57	NADSA North Site 08/04/2021	Primary respiratory tuberculosis A15.7	Add	View
Client, Test	RSGL	8249	07/01/1950	71	NADSA North Site		1	View
Geller, Monica	0001	8240	12/15/1950	70	NADSA North Site 07/01/2021	Essential (primary) hypertension I10, Anaphylactic reaction due to admin blood/products T80.51	8	View
Geller, Ross	RSGLR	8234	07/04/1974	47	NADSA North Site 07/01/2021	Sickle-cell/Hb-C disease with acute chest syndrome D57.211, Acrophobia F40.241, Traum cerebral edema w LOC >24 hr w/o ret consc w surv, init S06.1X6A	1	Due
Green, Rachel	RG00015	8243	02/29/1952	69	NADSA South Site 07/22/2021	Unspecified background retinopathy H35.00, Portal hypertension K76.6	11	View
Hannigan, Mike		8268	09/02/1947	74	NADSA North Site 09/01/2021	Diabetes due to underlying condition w hyposm w coma E08.01, Essential (primary) hypertension I10	1	View
Leonard, Estelle		8264	08/17/1944	77	NADSA North Site 08/04/2021	Tuberculosis of lung A15.0, Newborn light for gestational age, 2500 grams and over P05.09	4	View


Client Information

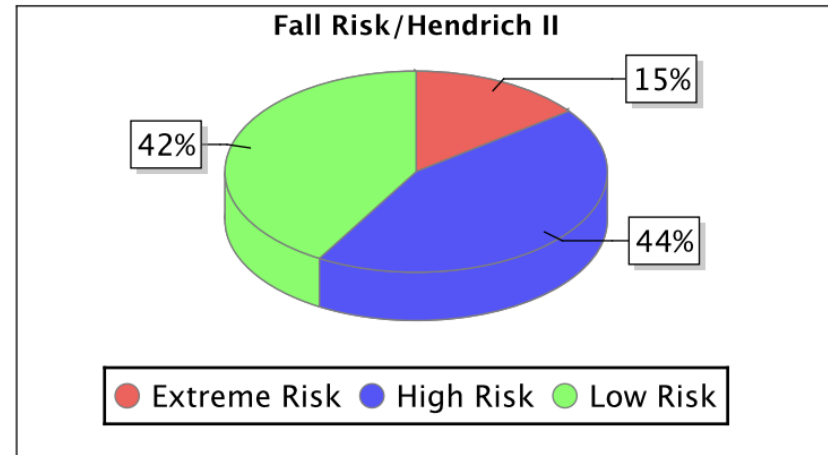

Organization Information

Additional functions

- Track participant information, schedules, and emergency contacts
- Easy to use reports
 - Attendance Recording with Time & Quantity
 - Demographic Summary
 - Birthday List
- Assessments
- Progress notes
 - Event tracking (ED visit, Hospital, etc)
- Recording attendance, meals, transportation
 - QR scanning
- Value add: billing feature (Coming soon)

Reportable Data

Top Diagnoses	
Essential (primary) hypertension I10	169
Unsp dementia, unsp severity, without beh/psych/mood/anx F03.90	167
Alzheimer's disease, unspecified G30.9	107
Hyperlipidemia, unspecified E78.5	56
Vascular dementia, unsp severity, without beh/psych/mood/anx F01.50	47



Assessment Score Average	
DETERMINE Nutrition Assessment	3.84
Fall Risk/Hendrich II	5.23
Geriatric Depression Scale	2.70
Katz Index	3.96
Lawton Scale	1.62
Loneliness (UCLA Short Form)	14.05

Preliminary Data 2023

As of June 30, 2024. All data are preliminary. Statistical significance will increase as sample size grows. Based on **950+ total participants** (32 sites)

Demographics



Race

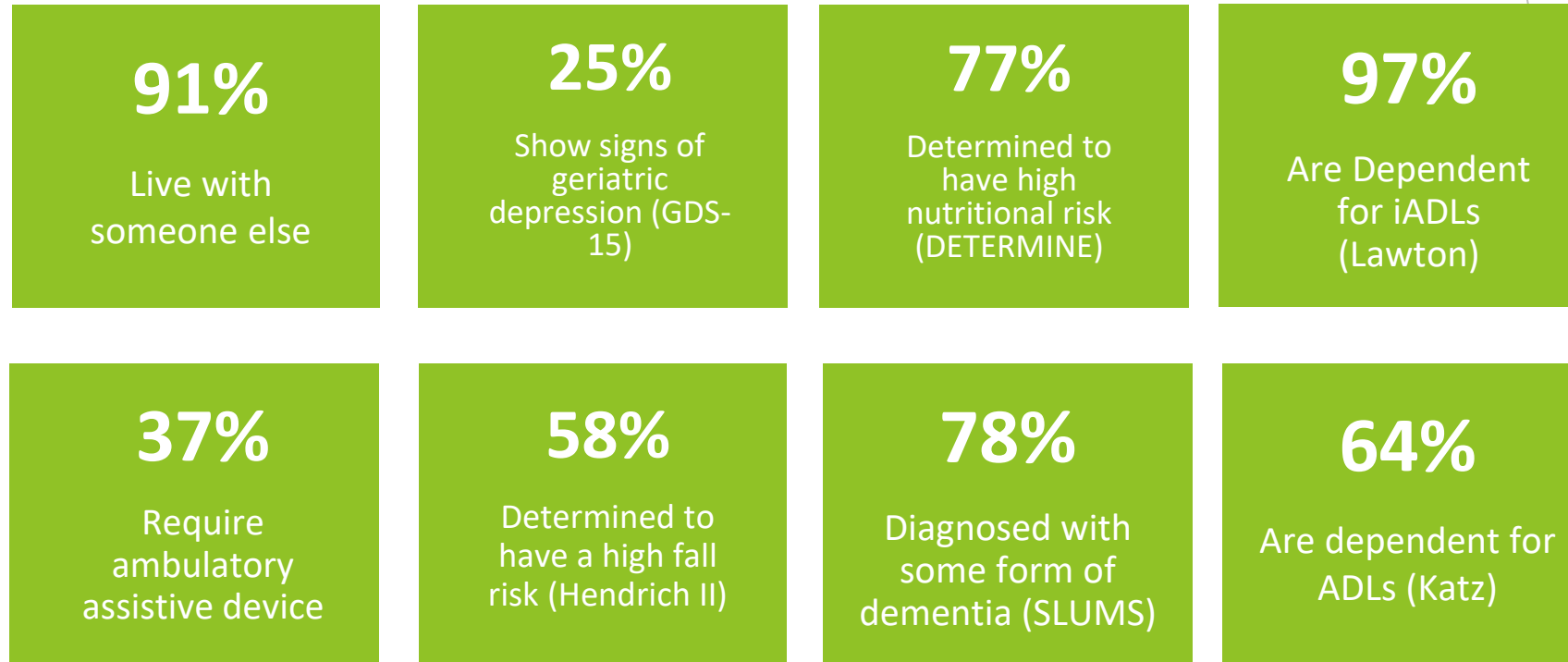
White	53%
Black	12%
Other Minority	17%
Missing Data	18%

Primary Language

English	84%
Spanish	5.5%
Other	1%
Missing Data	9.6%

Preliminary Data 2023

As of June 30, 2024. All data are preliminary. Statistical significance will increase as sample size grows. Based on **950+ total participants** (32 sites)



Preliminary data demonstrate the high acuity and need of individuals served in ADS across the US. Additional data will highlight the longitudinal benefits to participants, caregivers, and community as well as the cost savings to all pay sources.

How can it benefit ADS sites?

Today...

- ❑ No cost cloud-based data collection tool
- ❑ Operational reports (rosters, demographics, emergency contact lists, birthday lists, participant allergy and food restrictions... and more!)

... and Tomorrow

- ❑ Comparison reports
- ❑ Improvements in awareness of and demand for ADS

How will it benefit ADS?

- Network Adequacy (Operational Information)
- Population Served (Demographics)
- Reduced Healthcare Utilization
- Longitudinal Benefits of ADS
 - Prolonged Function
 - Promotion of SDOH and Health Equity
- Caregiver Benefit
- Cost Saving Capacity/Value Based Care Arrangement

Next Steps: Educational Plan to ADS Providers

- Full release and promotion –ongoing!
 - Distribution to members via newsletter, website, and social media
 - [Sign up here - https://forms.gle/r9M26yHVvHNixMTV9](https://forms.gle/r9M26yHVvHNixMTV9)
- Educational webinars on the basics of data collection
- Education on access to and use of tools –
 - [Adult-Day-Services-Introductory-Assessment](#)
 - [Modified-AHC-HSRN](#)
 - [Modified Caregiver Strain Index](#)
 - [SLUMS](#)
- Education on means of data aggregation and analysis
- Continuing updates to fields for data collection
- Operations manual and training videos
- Partnerships and grant proposals for data collection and aggregation on behalf of NADSA
- Use of nationally representative data by NADSA members and partners