

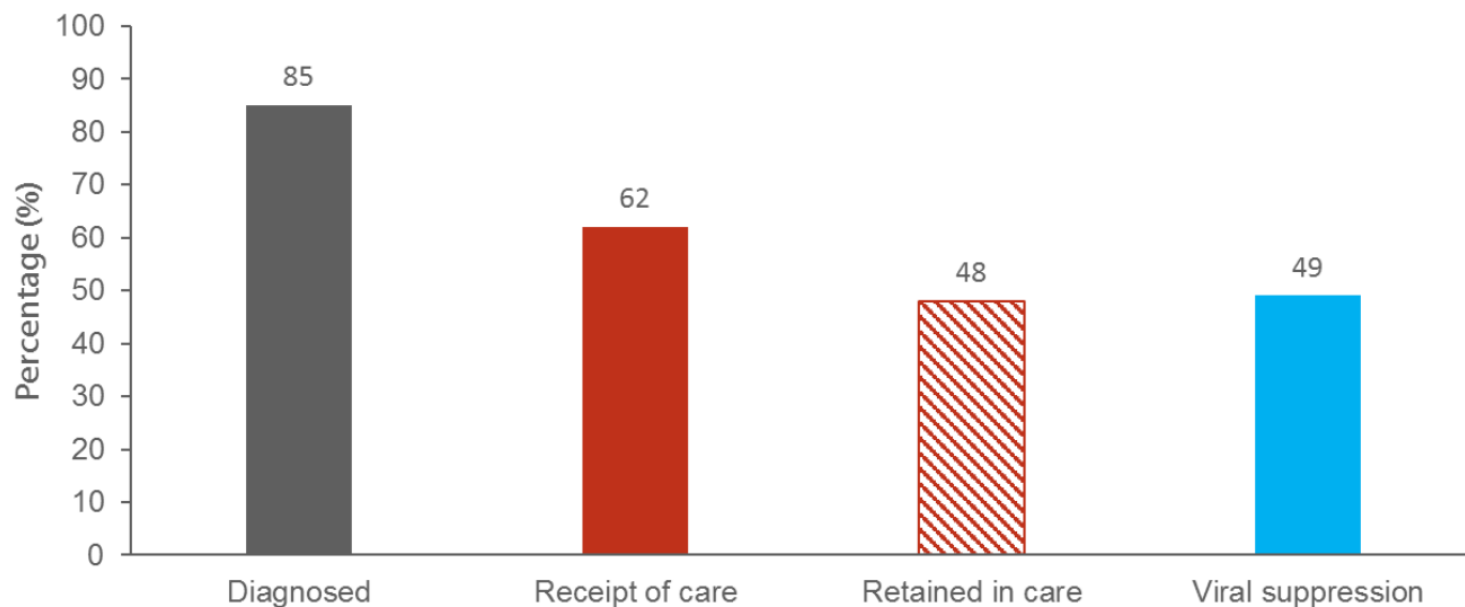
Data for Care (D4C) Alabama

A Clinic-Wide, Risk Stratification

Retention in Care Intervention

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HIV Treatment Cascade (Care Continuum), 2014 – U.S.



Note. Receipt of medical care was defined as ≥ 1 test (CD4 or VL) in 2014. Retained in continuous medical care was defined as ≥ 2 tests (CD4 or VL) ≥ 3 months apart in 2014. Viral suppression was defined as < 200 copies/mL on the most recent VL test in 2014.

Background

- Improving retention in care (RiC) the greatest opportunity along care continuum to advance prevention and treatment benefits for PLWH
- In contrast to linkage to care (e.g., ARTAS) and re-engagement in care (e.g., D2C), no large scale programs implemented for RiC
- Unique infrastructure afforded by RWHAP for systematic, clinic-wide HIV RiC program(s)

Data for Care (D4C): “Big Picture”

- Risk stratification: Clinic-wide risk stratification based upon missed visits prior 12 months
- Resource allocation: Delivery of REPC intervention to intermediate and high risk patients (+ best available RiC resources for HR)
- Continuous quality improvement: Iterative clinic-wide (and individual) monitoring, risk stratification, and targeted RiC service delivery

Why Focus on Missed Visits?

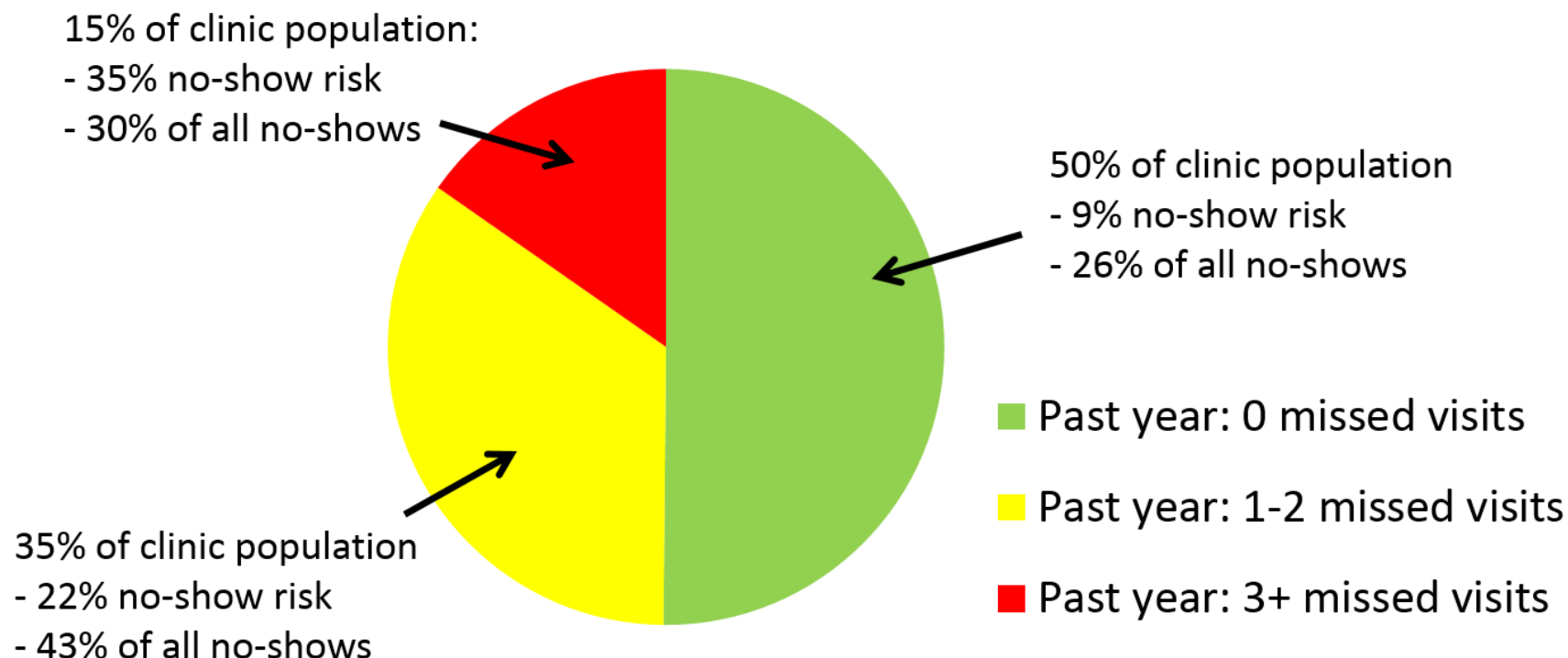
- Missed (“no show”) HIV visit(s) associations:
 - Delayed ART initiation & longer time to VS
 - Gaps in care & loss to follow-up
 - Greater cumulative viral load
 - Racial / ethnic disparities
 - Mortality
- Missed (“no show”) HIV care visits
 - Uniquely captured by HIV medical clinics
 - Immediately measured & actionable

Retention in Care measure	Need missed visit data?	Ease of calculating	Follow-up time
Missed visits	Yes	Easy	~1 day
Appointment adherence	Yes	Moderate	~1 yr
No-show rate	Yes	Moderate	~1 yr
Constancy: Visit per 3, 4 or 6 mo intervals	No	Moderate	~1 yr
Gap in care	No	Easy	~1 yr
HRSA/HAB	No	Mod-to-difficult	1 yr
DHHS	No	Mod-to-difficult	2 yrs

D4C Risk Stratification

- Data query: missed primary HIV care visits prior 12 months
 - LOW risk: zero missed visits
 - INTERMEDIATE risk: 1-2 missed visits
 - HIGH risk: ≥ 3 missed visits
- Match clinic-wide risk stratification with appointment scheduling system for upcoming 3 months identifying scheduled appointments for INTERMEDIATE and HIGH risk patients

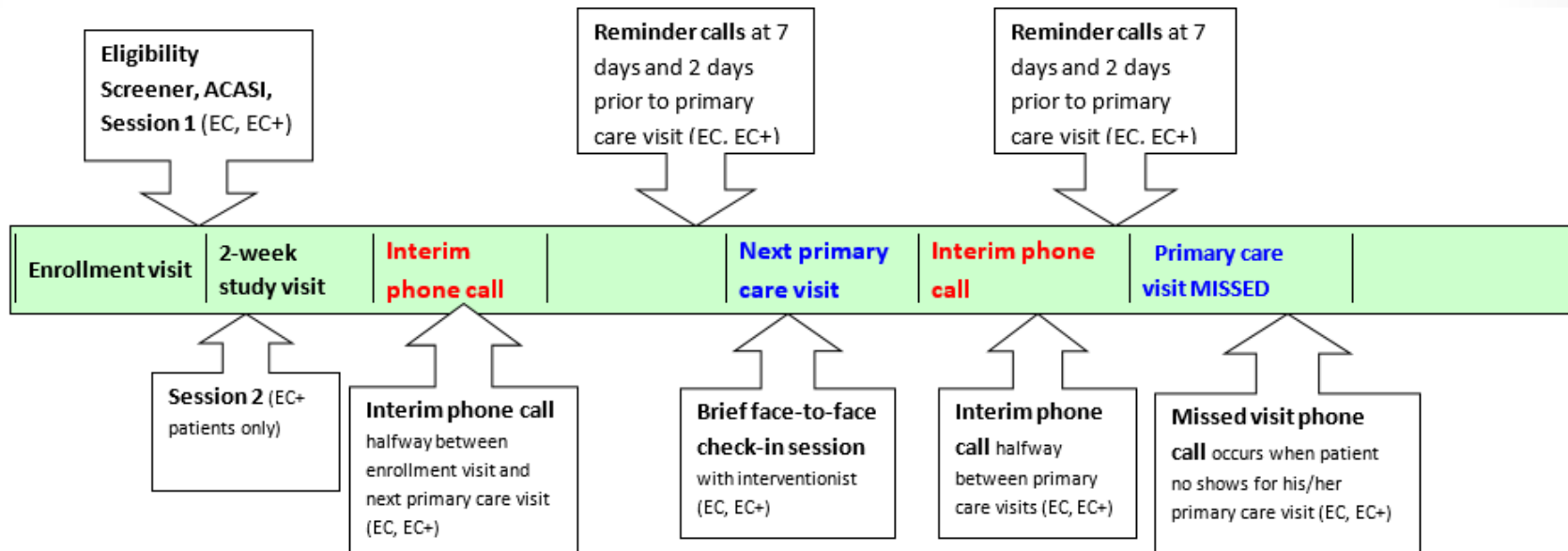
CNICS Risk Stratification (n~12,000)



D4C Resource Allocation

- INTERMEDIATE and HIGH risk patients receive evidence-based retention through enhanced personal contact (REPC)

D4C Resource Allocation: REPC



Enhanced personal contact (EC)

- Interim phone call
- Reminder phone calls
- Missed visit phone calls
- Brief face-face visits

EC plus behavioral skills (EC+)

- Strengths-based discussion at 2-week visit
- Unmet needs assessment & skills modules:
- Organizational skill
- Communicating skills
- Problem skills

Standard of care (SOC)

- Usual practices for established and new patients
- Referrals to social worker or case manager, as usually done
- Usual visit reminders (automated or individual, telephone or written, etc)

D4C Resource Allocation: REPC

Study Arm	Visit Constancy, % ^a	Risk Ratio (95% CI)	Visit Adherence, % ^b	Risk Ratio (95% CI)
Enhanced contact only (n = 615)	55.8	1.22 (1.09–1.36)	72.5	1.08 (1.05–1.11)
Enhanced contact plus skills (n = 610)	55.6	1.22 (1.09–1.36)	70.9	1.06 (1.02–1.09)
Standard of care (n = 613)	45.7	Ref	67.2	Ref

REPC Take Home Points:

- 10% increase in RiC by Constancy & HRSA HAB
- 5% increase in visit adherence
- No added benefit of skills modules (EC+)
- Efficacious: women, AA/Black, low SES
- Dose-response b/t # of contacts & RiC
- NOT efficacious: unmet need(s), illicit drug use

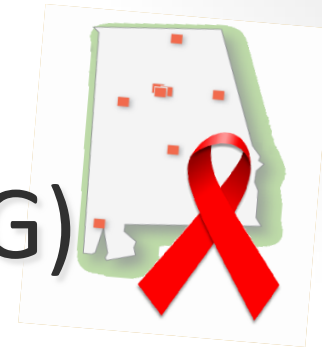
D4C Resource Allocation

- INTERMEDIATE and HIGH risk patients receive evidence-based retention through enhanced personal contact (REPC)
- HIGH risk patients receive highest intensity resources available at each clinic (e.g., intensive case management, peer mentor, outreach)
- LOW risk patients receive 24-48 hour missed visit call and transition to INTERMEDIATE risk for reminder contacts

D4C Alabama (D4C AL)

- Design: Non-randomized step wedge
- Sites: 7 Ryan White HIV Clinics in Alabama
- Data: Individual-level and clinic-wide socio-demographic, lab, and visit data mirroring RSR
- Evaluation: Process and outcome metrics

Alabama Regional Quality Management Group (ALRQG)



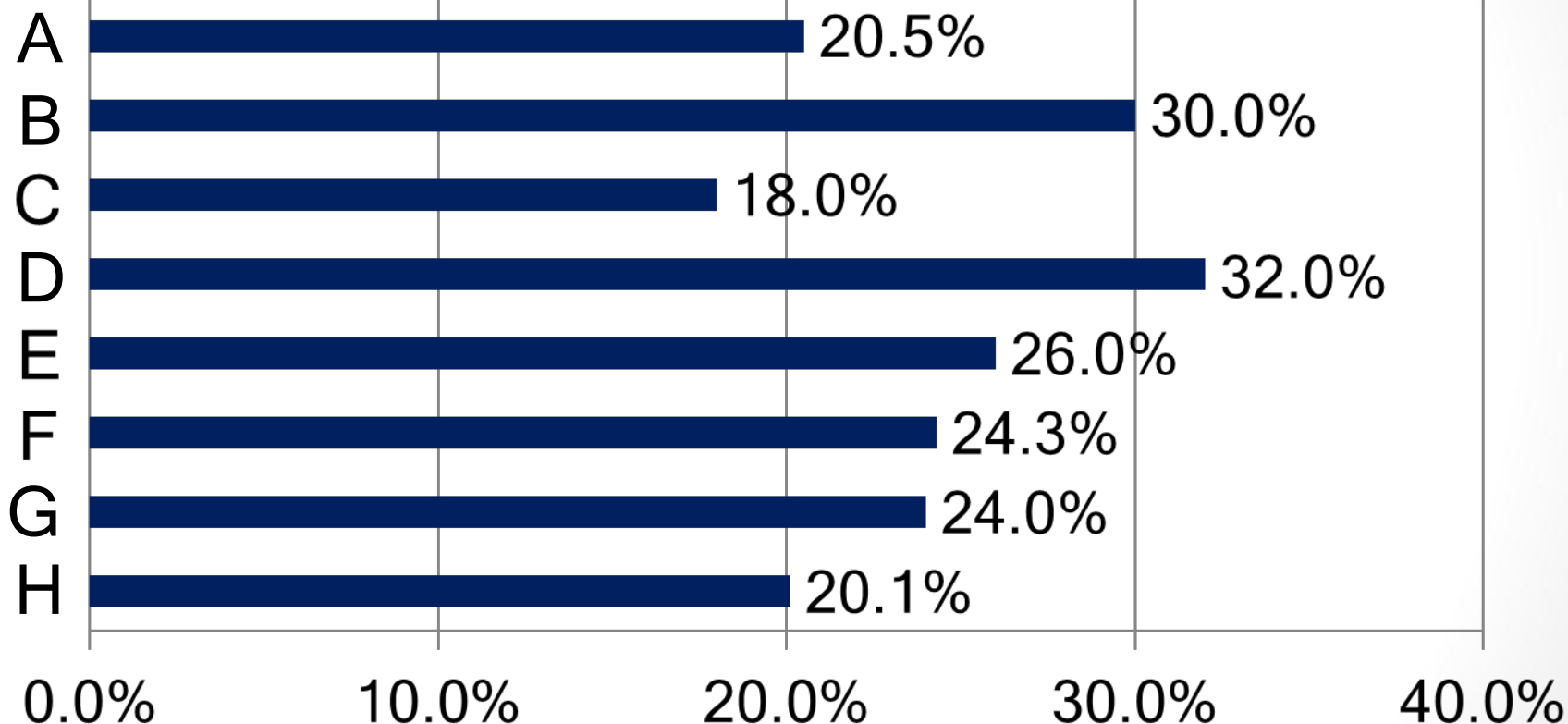
“The Alabama Regional Quality Management Group exists to ensure that those living with HIV/AIDS in the state of Alabama receive quality healthcare through the collaboration of healthcare partners throughout the state. This collaboration aims to continuously improve the quality of HIV care consistent with recognized national standards and current HIV research”

ALRQG; Missed visit indicator

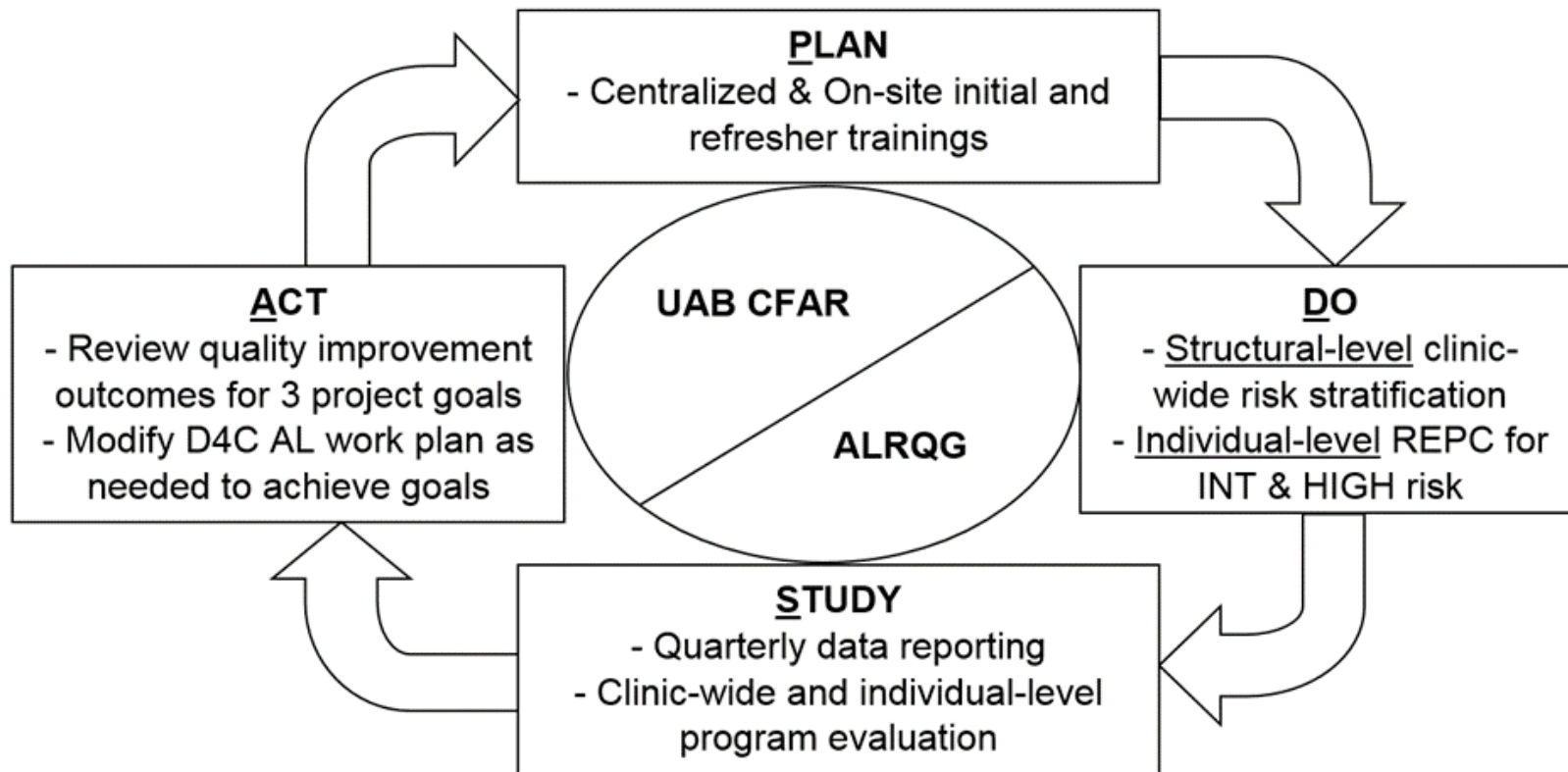
No Show Percentage Q1-2017



Clinic



D4C AL: CQI using PDSA Framework



D4C Alabama (D4C AL): Timeline

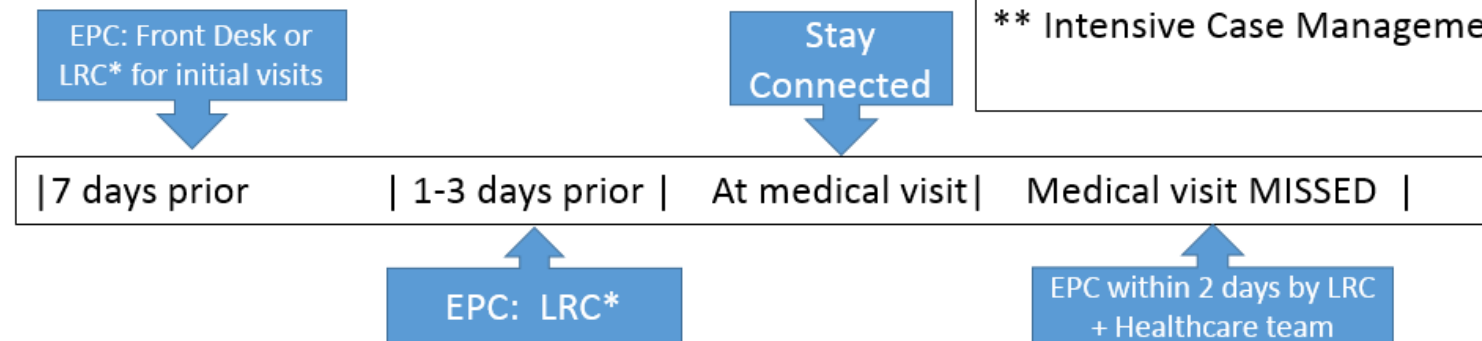
	2018					
	July	Aug	Sept	Oct	Nov	Dec
<u>On-site Training</u>						
1917						
Thrive						
MAO						
Unity						
HSC						
<u>Implementation</u>						
1917						
Thrive						
MAO						
<u>DATA UPLOADS (QUARTERLY, ALL SITES)</u>						

D4C (Data for Care) 1917 Pilot

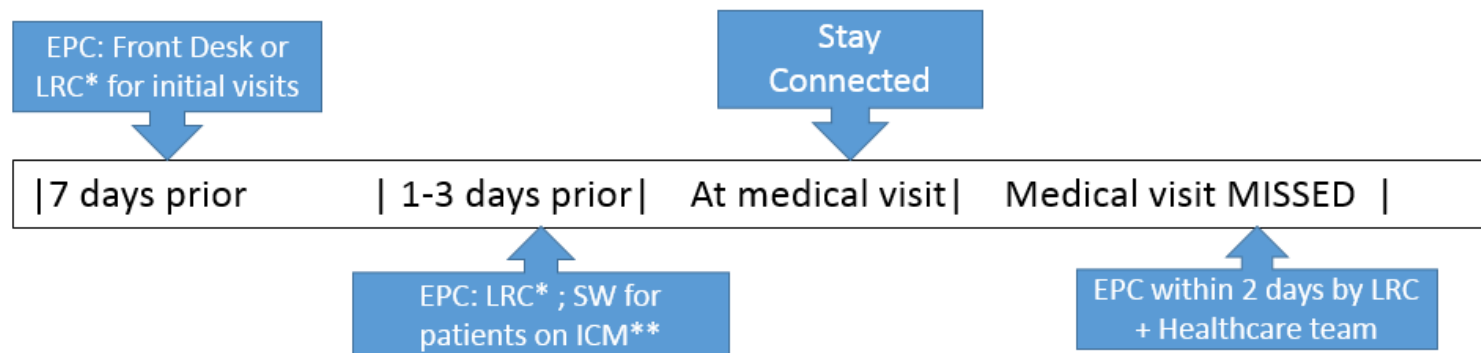
*LRC = Linkage & Retention Coordinator

** Intensive Case Management

1-2 Missed Visits (Medium Risk)



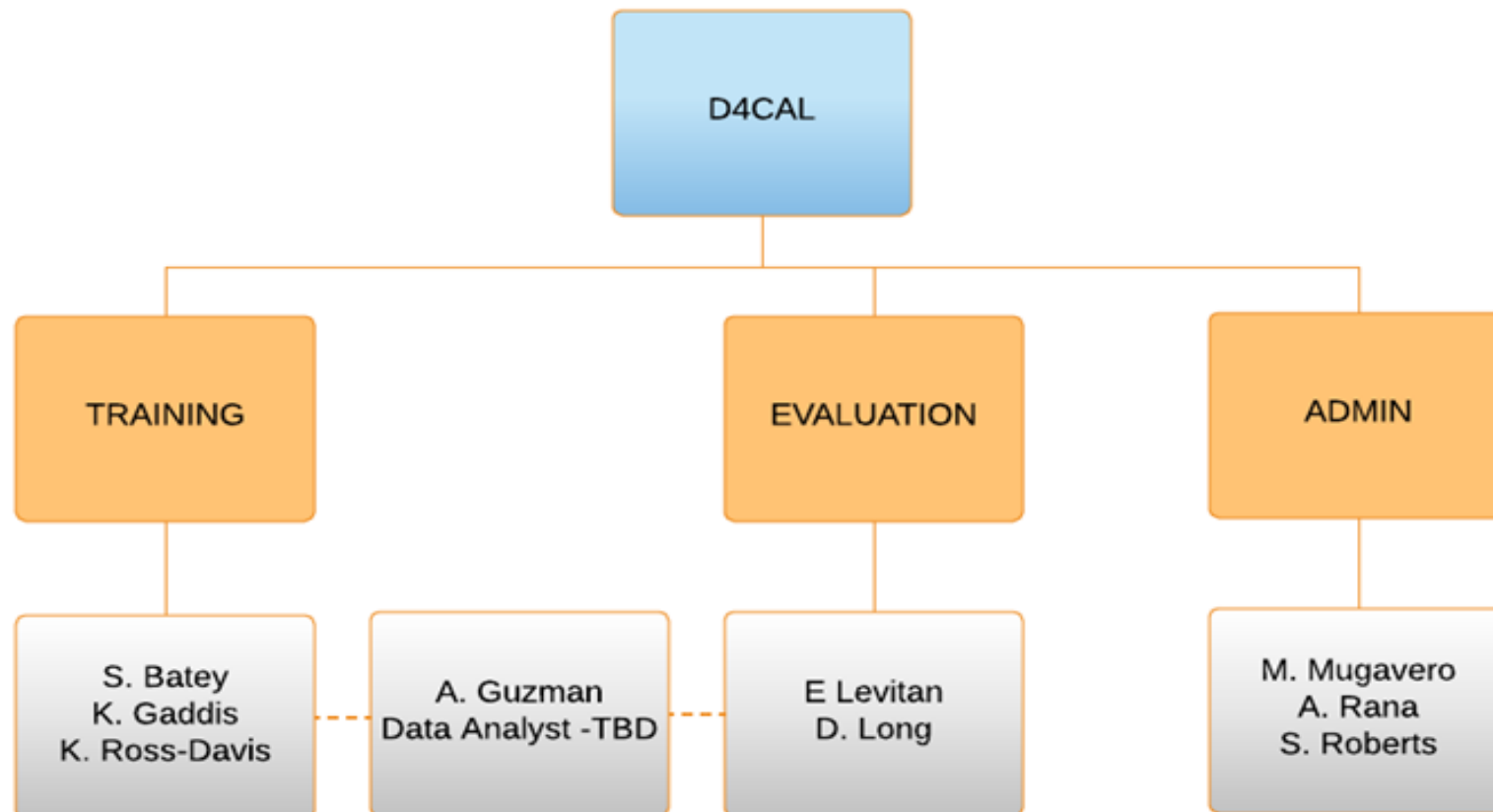
≥3 Missed Visits (High Risk)



D4C Alabama (D4C AL) Metrics

- Process:
 - Fidelity of clinic-wide risk stratification
 - Fidelity of REPC reminder & missed visit calls
 - Measuring “best” RiC programs for HR @ sites
 - Fidelity of HR patients receiving “best” RIC
- Outcomes: Individual-level and clinic wide
 - Missed visits, visit adherence & HRSA HAB
 - Viral Suppression
- Implementation Science Metrics?

Acknowledgements



- Jitesh Parmar (THRIVE), Ashley Tarrant (MAO) & ALRQG Site Leads and Clinic Directors

