

# **THE LEND OUTCOMES FOLLOW-UP SURVEY: DEVELOPMENT AND PRELIMINARY FINDINGS**

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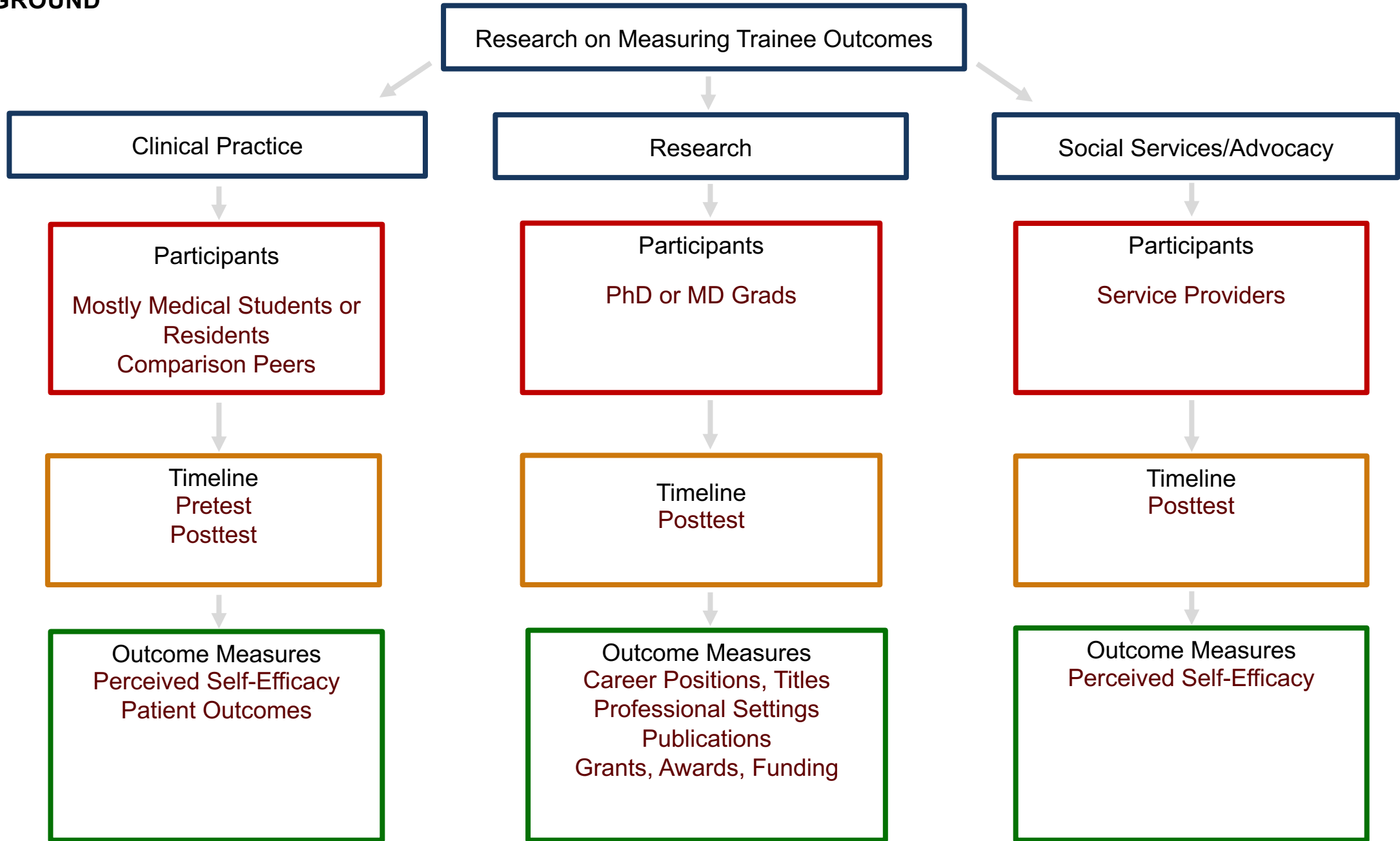
# UNDERSTANDING LEND's EFFECTIVENESS



- Does LEND training deliver?
- Current funding climate for programs, services, and research
- Your tax dollars at work



# BACKGROUND



# HOW ARE LEND TRAINEE OUTCOMES TYPICALLY MEASURED?



- NIRS Survey (*the survey LEND Directors love to hate*)
  - Common program evaluation technique
  - Comparison of long-term to short-term trainees (Kavanagh et al., 2015)
- New Techniques
  - Faculty observation of family centered and interprofessional care using the I-FOR (Brosco et al. 2018)
- Studies generally find that:
  - Trainee skills improve during LEND training (Brosco et al. 2018)
  - Long-term trainees are more likely to work on interdisciplinary teams and with MCH and vulnerable populations (Kavanagh et al., 2015)





## **ALL THAT GLITTERS IS NOT GOLD:**

*Could previous positive effects of LEND be caused by something other than LEND training?*



# THE LEND OUTCOMES STUDY

- Multi-site (Pittsburgh, Nisonger, Waisman)
- Matched case control study
  - Closest ethically and programmatically feasible methodology to randomized controlled trial
- Prospective
- Longitudinal (at least 10 years; currently in year 4)



THE OHIO STATE UNIVERSITY  
NISONGER CENTER



WAISMAN CENTER  
UNIVERSITY OF WISCONSIN-MADISON



# LEND OUTCOMES STUDY TIMELINE

## 2015 COHORT TIMELINE



2014-2015

2015-2016

2016-2017

2017-2018

LEND Outcomes Study Initiated

81 Participants

LEND Outcomes Follow-Up Survey Study Initiated

LEND Outcomes Follow-Up Survey Pilot

74 Participants

81 Participants

79 Participants

Withdrawals: 0

NIRS Completion Rate: 100%

Withdrawals: 2

NIRS Completion Rate: 100%

Withdrawals: 0

NIRS Completion Rate: 88.6%

Withdrawals: 0

NIRS Completion Rate: 91.1%

Developed Manual  
Pitt Partnered with  
Nisonger and Waisman

Revised Manual Based on  
Feedback from Other Sites

AUCD Feasibility Presentation

Analysis of Data from 3<sup>rd</sup> Year  
NIRS Survey

ITAC Grant Received  
Initial LEND Outcomes Follow-Up  
Survey Development

AUCD Focus Groups  
Survey Pilots  
Data Analysis  
AUCD Outcomes Presentation

Key:

LEND Outcomes Study

LEND Outcomes Follow-Up Survey Study

# LEND OUTCOMES FOLLOW-UP SURVEY



- Initial core competency survey developed based on “expert” opinion of trainee skills and competencies
- Surveyed non-trainees in research labs

Non-trainees thought that their skills  
in LEND Core Competencies were  
excellent

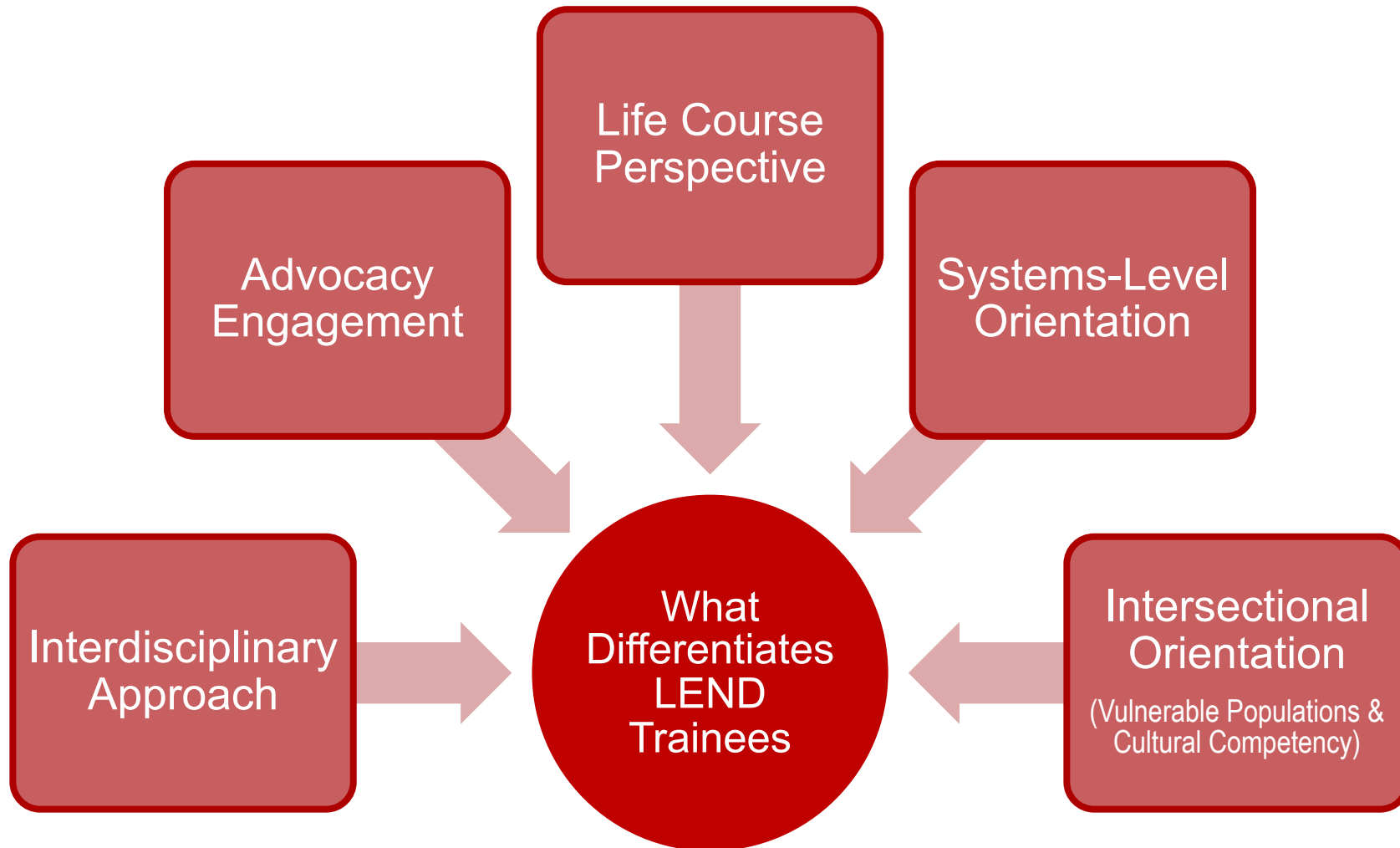


# FOCUS GROUPS

- 2017 AUCD Annual Meeting
- Questions:
  - What types of leadership roles are you training your trainees to take on?
  - What makes LEND graduates different from their peers who did not receive LEND training?
  - How are you defining MCH populations with your trainees?
- Transcribed and analyzed using content analysis

# FOCUS GROUPS: FIVE THEMES

THE “ACTIVE INGREDIENTS” OF LEND TRAINING



*In clinical trials, the “active ingredients” should align with how treatment effects are measured...*

- Other Possible “Active Ingredients”:**
- Leadership
  - Engagement with disabilities/SHCN
  - Research experience



# BACK TO THE DRAWING BOARD

## Faculty Pilot Process and Results

- Piloted with 14 LEND and non-LEND faculty members and family stakeholders
- Feedback obtained from AUCD staff
- Took, on average, 25.29 minutes to complete
- Suggestions to:
  - Remove redundancy
  - Reduce focus on academic positions and academic leadership
  - Add questions: MCH competencies, core LEND leadership skills, job satisfaction and reason for taking current position

## Revisions Based on Faculty Pilot

- Reduced long and burdensome questions
- Removed redundancy
- Reduced focus on academia and academic leadership
- Added questions about:
  - MCH competencies
  - Core LEND leadership skills
  - Job satisfaction and reason for taking current position

# LEND OUTCOMES FOLLOW-UP SURVEY



- 31 questions
- Administered via RedCap through UW-Madison
- Informed consent obtained

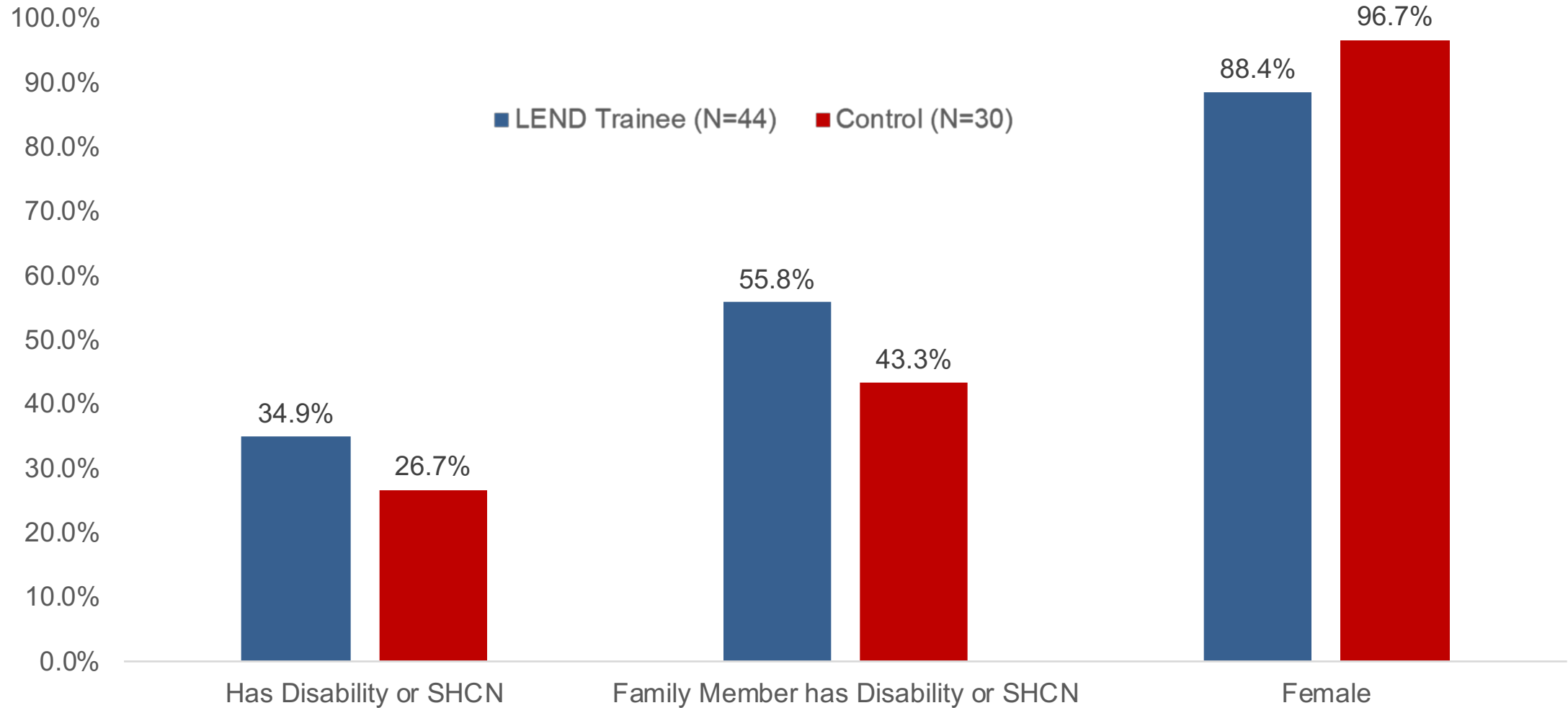




# FEASIBILITY

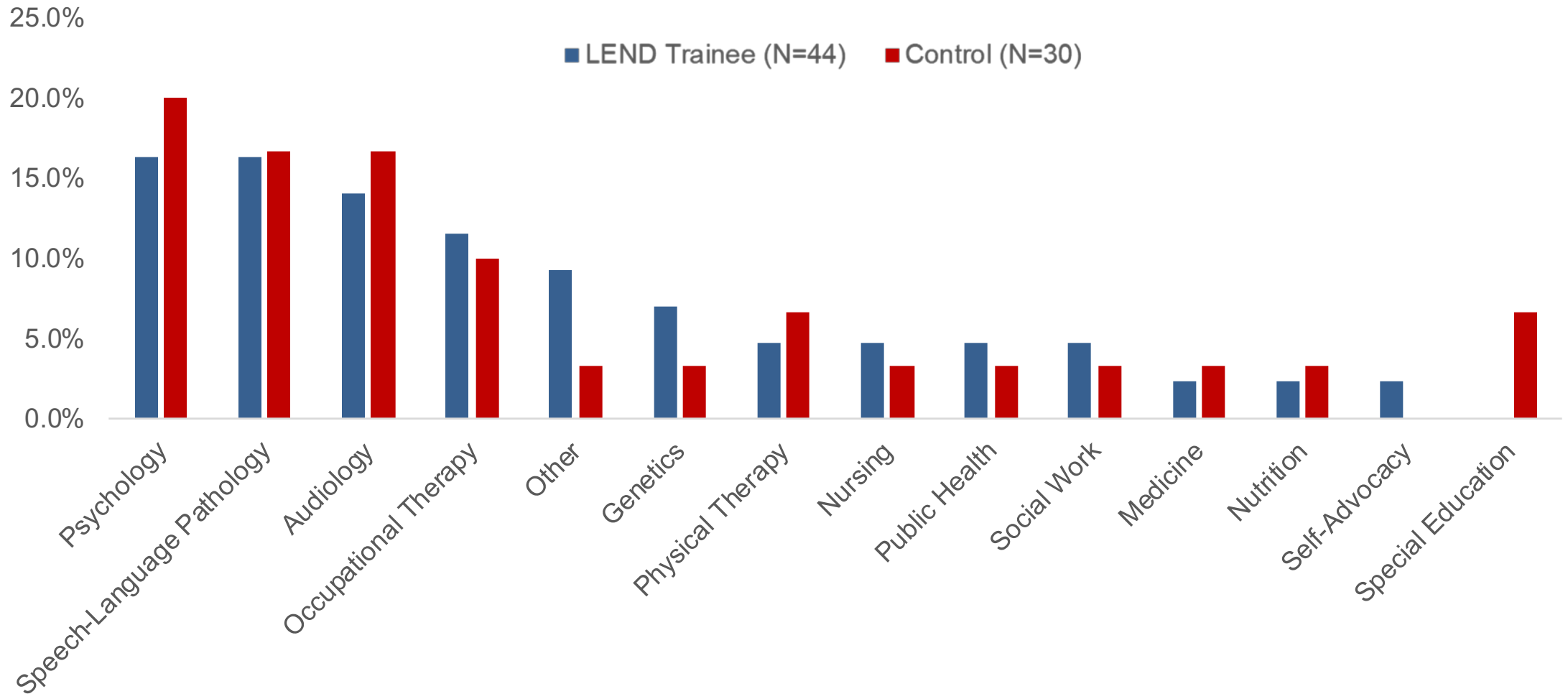
- Recruited 93.7% of eligible participants (74 out of 79)
- Took participants, on average, 24:45 to complete the survey
- No missing data
- Cost: \$25 compensation per completed survey

# PARTICIPANT BACKGROUND CHARACTERISTICS





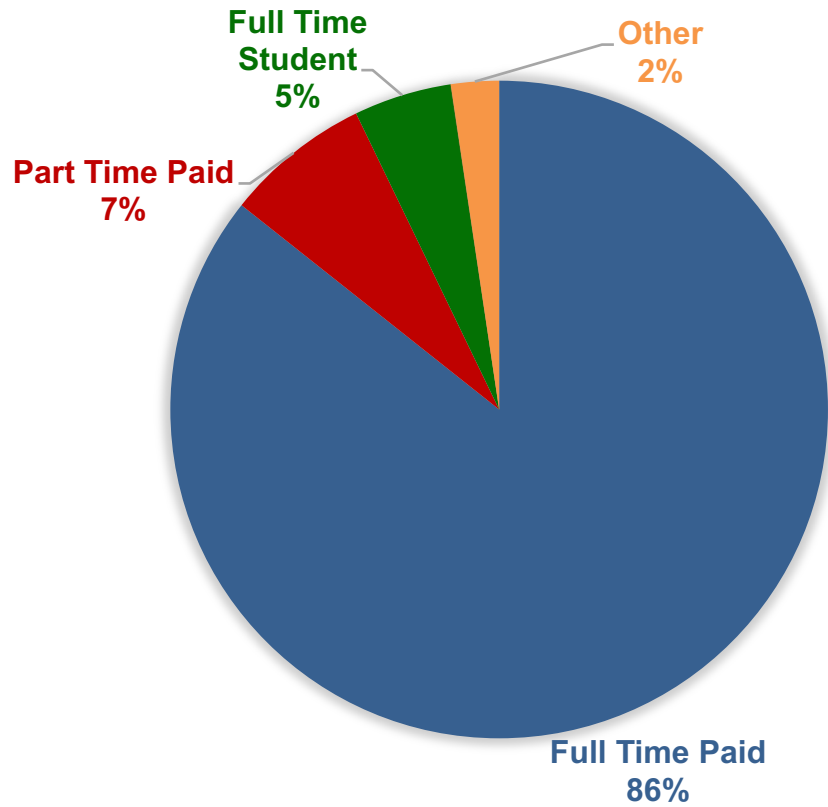
# PARTICIPANT DISCIPLINES



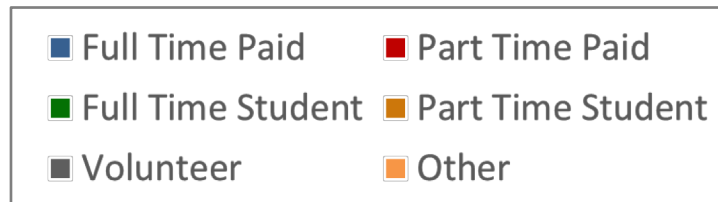
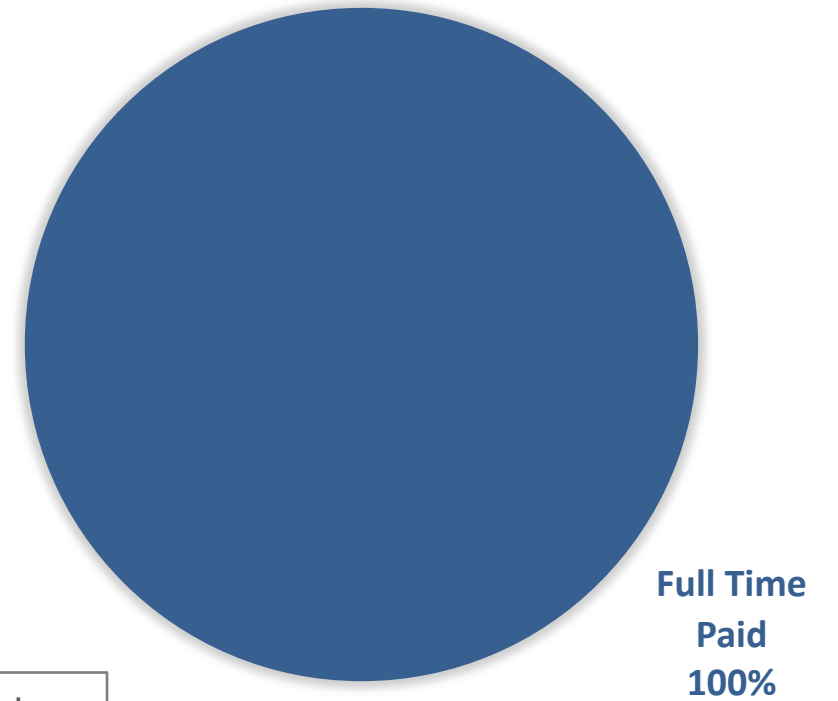


# PARTICIPANT WORK TYPE

LEND Trainee (N=44)



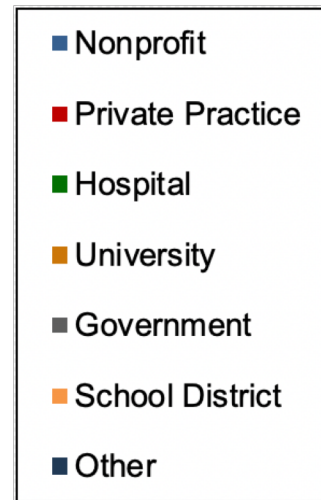
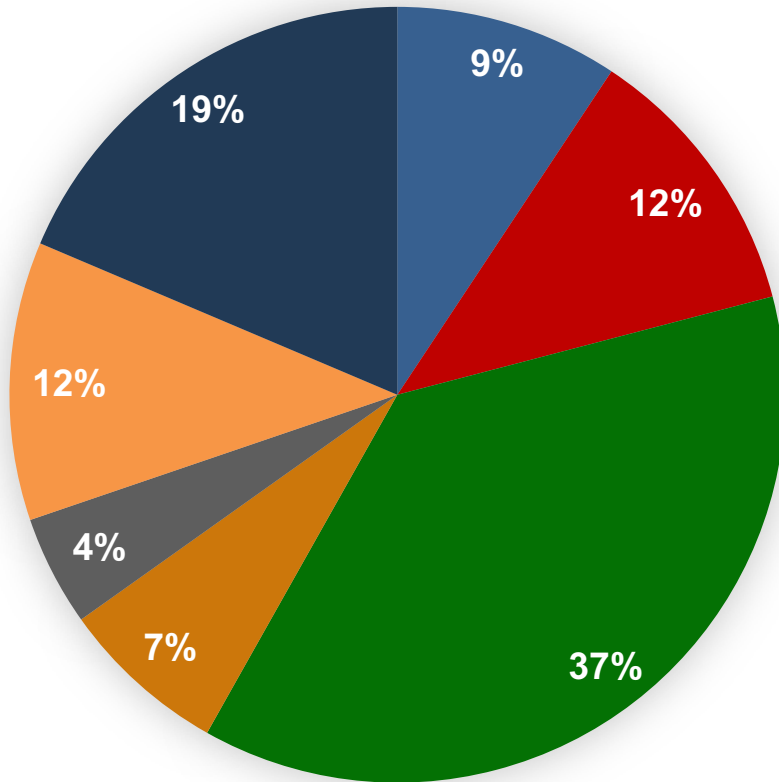
Control (N=30)



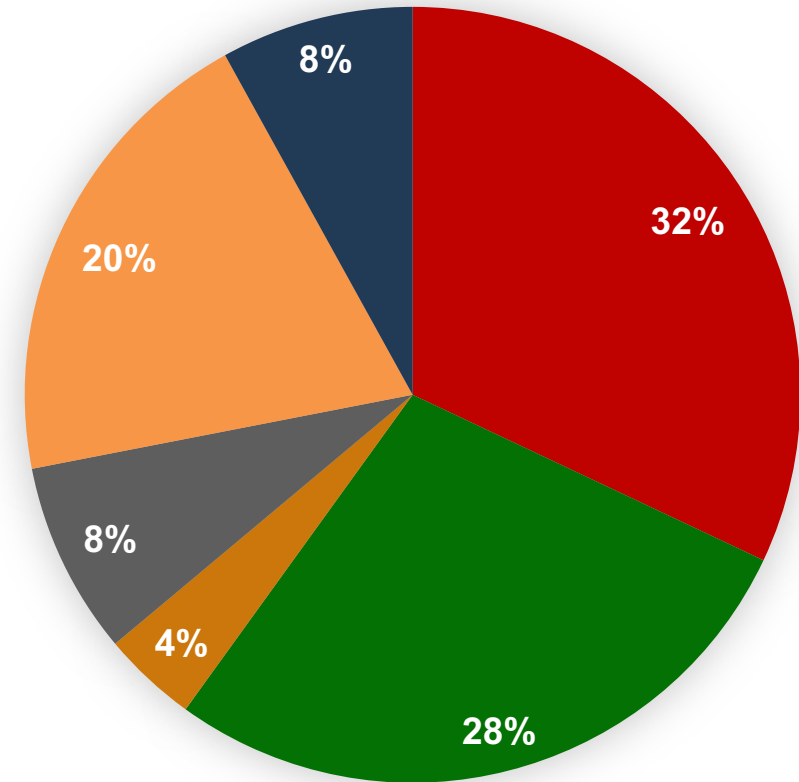


# PARTICIPANT WORK SETTINGS

LEND Trainee (N=44)

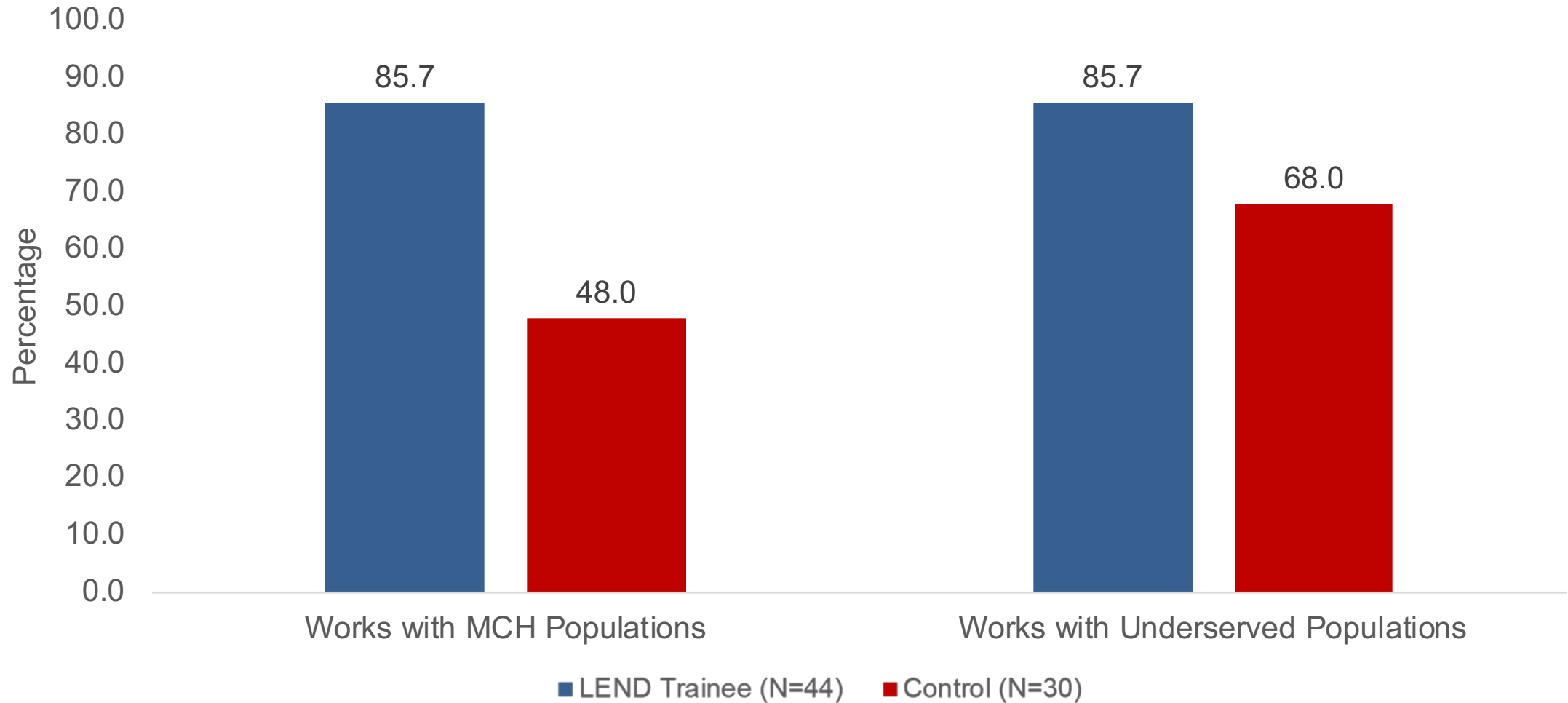


Control (N=30)



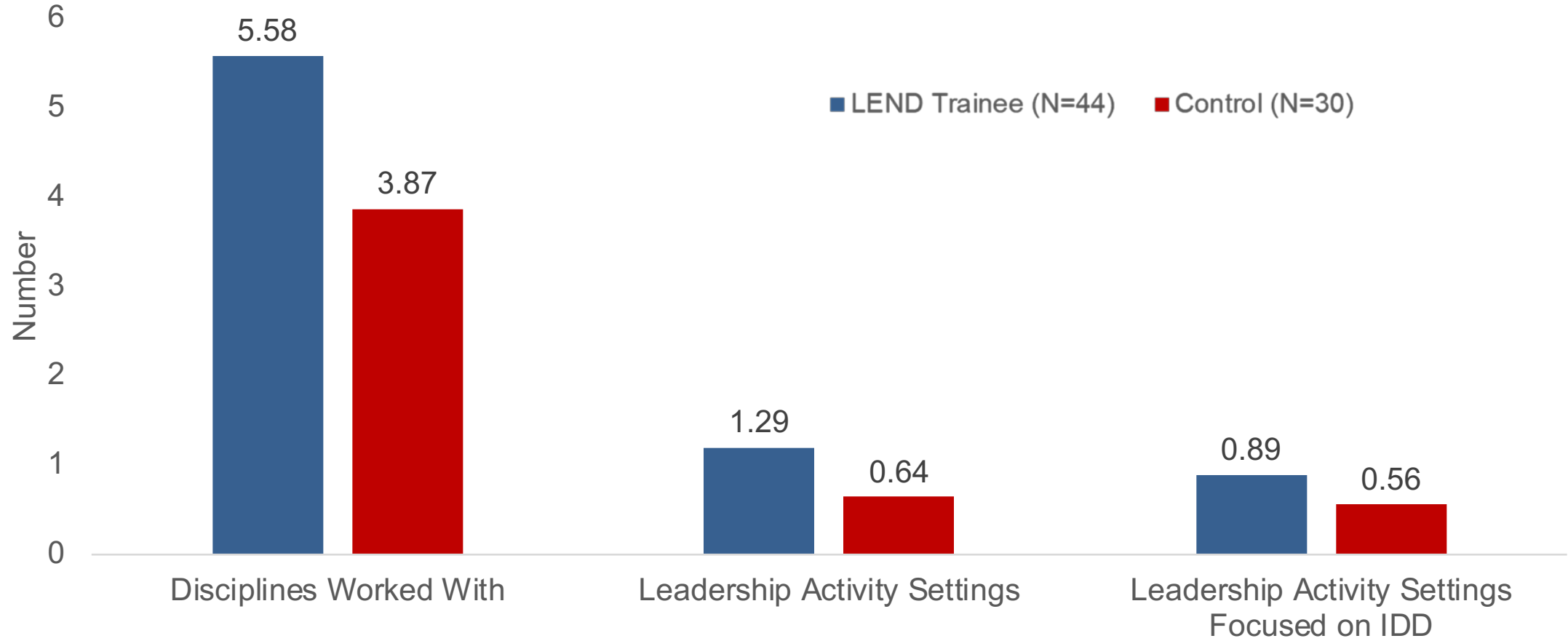
# NIRS

(SIGNIFICANT DIFFERENCES)



# NIRS

(SIGNIFICANT DIFFERENCES)



# NIRS

(DIFFERENCES THAT ARE NOT SIGNIFICANT)

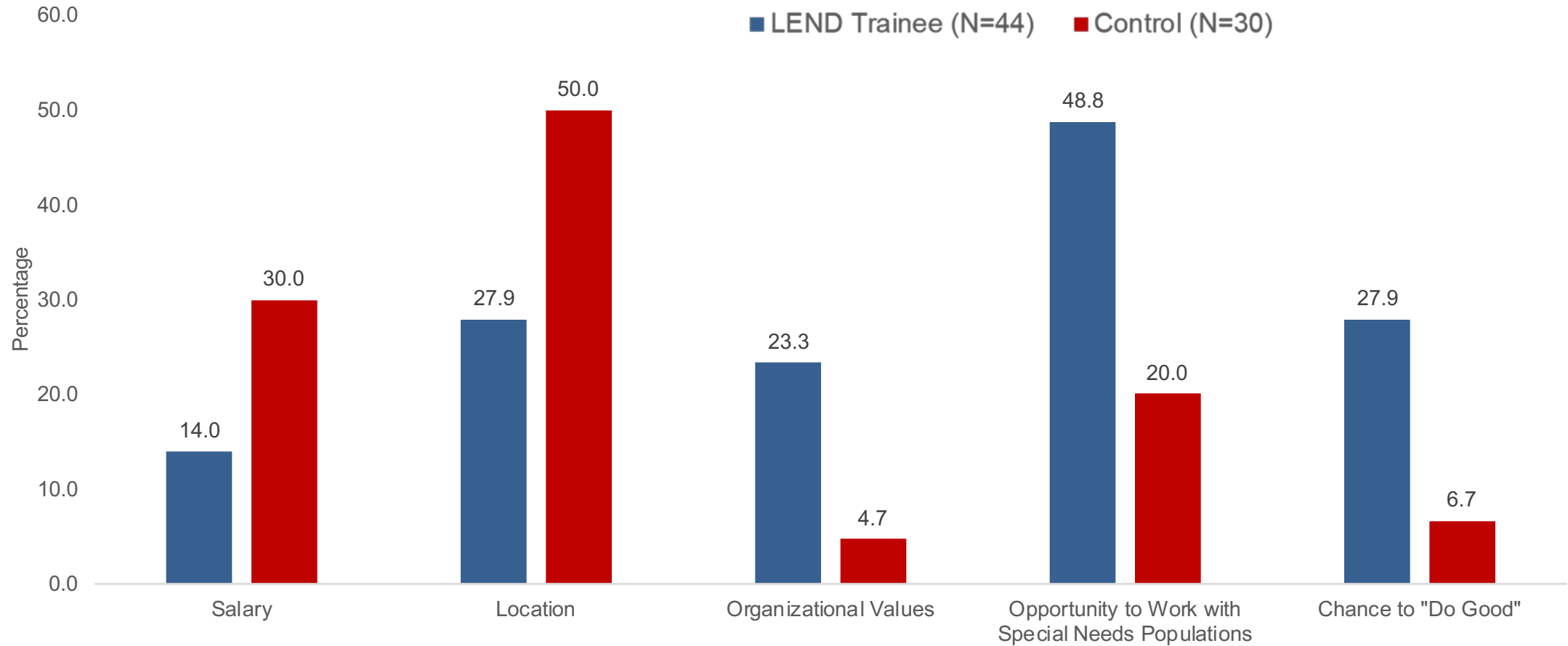


- Proportion who work with individuals with disabilities
- Type of employment setting
- Number of people served via direct services



# LEND OUTCOMES FOLLOW-UP SURVEY

(SIGNIFICANT DIFFERENCES)



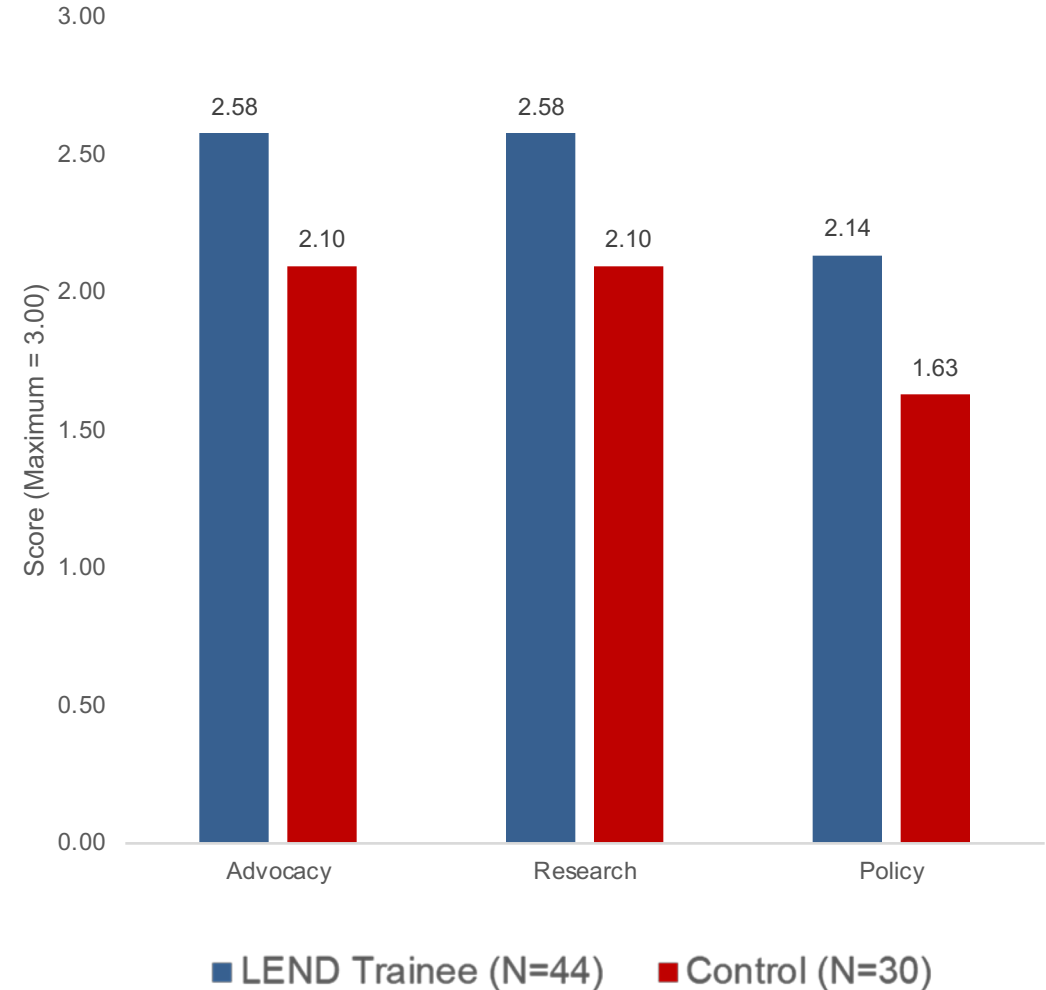
ITEMS LISTED AS TOP 3 REASONS FOR ACCEPTING CURRENT POSITION

# LEND OUTCOMES FOLLOW-UP SURVEY

## (SIGNIFICANT DIFFERENCES)



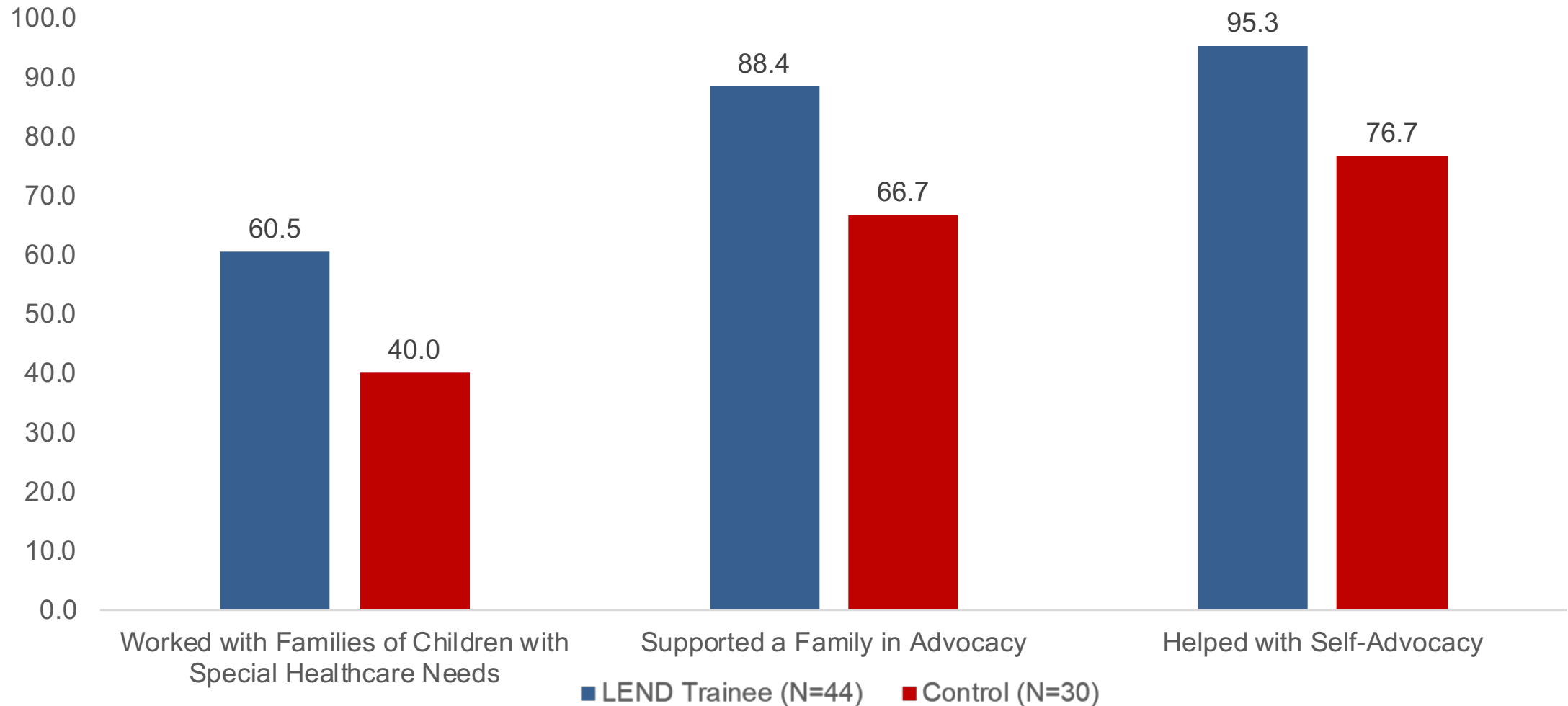
	23. In the past year, have you:
Advocacy	a. supported a family or individual by advocating for their legal or medical rights? <input type="checkbox"/> Yes <input type="checkbox"/> Not this year <input type="checkbox"/> Never
	b. participated in a family or self-advocacy group or organization for individuals with special needs? <input type="checkbox"/> Yes <input type="checkbox"/> Not this year <input type="checkbox"/> Never
	c. helped a family or individual with their own self-advocacy efforts? <input type="checkbox"/> Yes <input type="checkbox"/> Not this year <input type="checkbox"/> Never
Resource Brokering	d. assisted a family or group of families in finding an appropriate advocacy and/or support group? <input type="checkbox"/> Yes <input type="checkbox"/> Not this year <input type="checkbox"/> Never
	e. identified and shared community resources to address a family's or group of families' needs? <input type="checkbox"/> Yes <input type="checkbox"/> Not this year <input type="checkbox"/> Never
	f. identified and/or accessed financial resources to assist a family in meeting their needs? <input type="checkbox"/> Yes <input type="checkbox"/> Not this year <input type="checkbox"/> Never
Research	g. communicated research findings to colleagues or a professional group? <input type="checkbox"/> Yes <input type="checkbox"/> Not this year <input type="checkbox"/> Never
	h. participated in program evaluation on the effectiveness of a service delivery system? <input type="checkbox"/> Yes <input type="checkbox"/> Not this year <input type="checkbox"/> Never
	i. participated in research related to vulnerable populations? <input type="checkbox"/> Yes <input type="checkbox"/> Not this year <input type="checkbox"/> Never
Policy	j. evaluated a health care policy for your own or another organization? <input type="checkbox"/> Yes <input type="checkbox"/> Not this year <input type="checkbox"/> Never
	k. called, emailed or met with your federal or state legislators or member of their staff on an issue related to individuals with special needs? <input type="checkbox"/> Yes <input type="checkbox"/> Not this year <input type="checkbox"/> Never
	l. participated in an effort related to systems change (e.g., clinical or public health quality improvement, writing policy or clinical guidelines, translating evidence-based research to practice)? <input type="checkbox"/> Yes <input type="checkbox"/> Not this year <input type="checkbox"/> Never



**\*Resource Brokering was NOT Significant\***

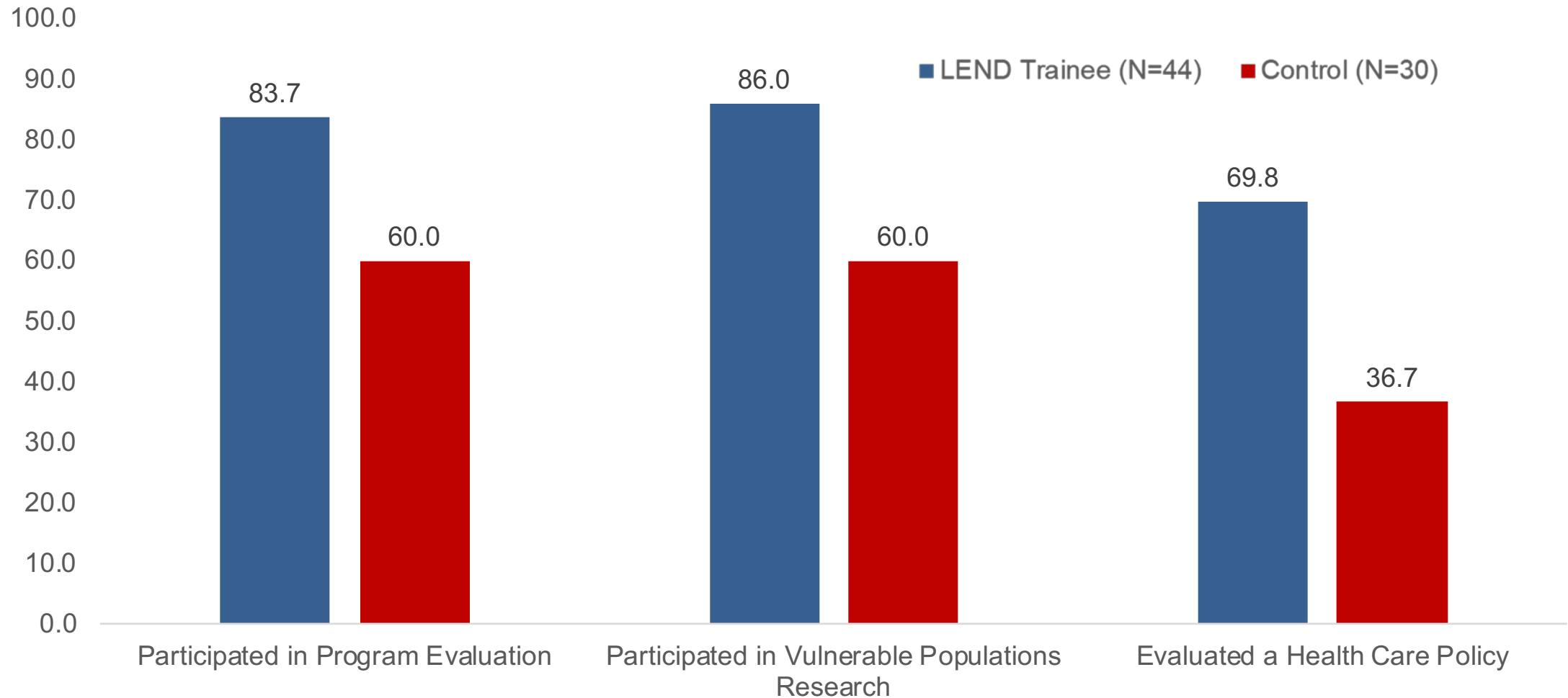
# LEND OUTCOMES FOLLOW-UP SURVEY

(SIGNIFICANT DIFFERENCES)



# LEND OUTCOMES FOLLOW-UP SURVEY

(SIGNIFICANT DIFFERENCES)



# LEND OUTCOMES FOLLOW-UP SURVEY

(DIFFERENCES THAT ARE NOT SIGNIFICANT)



- Workplace characteristics
- Distribution of work time across activities
- Perception of leadership in workplace
- Comfort with **MCH and LEND skills and competencies**
- Agreement with **intersectional orientation and life course perspective** concepts
- **Interdisciplinary** teaming
- Job satisfaction



# BENEFITS OF LEND

- LEND trainees are more likely to:
  - Work with MCH populations
  - Work with vulnerable populations
  - Endorse high-level leadership skills
  - Work on interdisciplinary teams
  - Participate in research
  - Participate in advocacy
  - Participate in policy practice




# LEND DOES NOT IMPACT

- Type of role or workplace
- Endorsement of agreement with:
  - MCH skills and competencies
  - LEND skills and competencies
  - Intersectional orientation
  - Life course perspective

# IMPLICATIONS AND FUTURE DIRECTIONS



- Strong methodology  increased confidence in findings
- Preliminary interpretation: identified significant differences: **perspectives** vs. **actual activities**
  - Both LEND trainees and comparison peers **self-report** that they are leaders and utilize MCH and LEND skills and competencies, **but**
  - LEND trainees **actual work activities** included significantly more leadership activities
- Results are preliminary and analysis is ongoing: need feedback from LEND Network
- Future: publication of results; refinement of survey; more data collection



# ACKNOWLEDGEMENTS



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  - U54 HD090256

## Important People:

- AUCD Staff (Sarah DeMaio, Christine Liao, Ben Kaufmann)
- LEND staff at Pitt, Waisman, and Nisonger
- LEND trainees and comparison peers who participated

