



## Introduction

HANDS in Autism®, facilitates various community engagement initiatives such as Local Community Cadres (LCCs) which are regional networks of families and professionals invested in supporting individuals affected by autism spectrum disorder (ASD) and related developmental disabilities. Participation in the local cadres serves the purpose of identifying local needs and making targeted changes to positively impact ASD at the community level.

“Let’s Talk LCC” series which is the product of LCC’s was launched in 2024 which focuses on our 4 core pillars of Collaboration and Networking, Information Sharing, Training, and Dissemination. Participant satisfaction across "Let’s Talk LCC" events was analyzed between August 2024 and April 2025.

The project seeks to identify satisfaction trends and develop informatics-driven strategies to enhance future participant engagement.

## Practicum Scope

A comprehensive analysis of participant feedback collected during Let’s Talk LCC events. Key activities included extracting survey responses, cleaning inconsistent data, analyzing satisfaction trends, and creating visual dashboards to support data-driven improvements.

## Preceptor Details

- **Organization Name:** HANDS in Autism® Interdisciplinary Training & Resource Center
- **Mission:** To improve understanding, knowledge, and practices in supporting individuals with autism spectrum disorder through training and research.
- **My Worksite:** State and community facilitation Team, focusing on community engagement initiatives and program evaluation.
- **Structure:** Interdisciplinary team including facilitation and data specialists, researchers, digital material assistants and support staff.

## Learning Objectives

- Apply data analysis methods to real-world health informatics data.
- Develop interactive dashboards using Power BI.
- Communicate data insights effectively to non-technical stakeholders.
- Propose informatics-based improvements to program engagement.

## Timeline

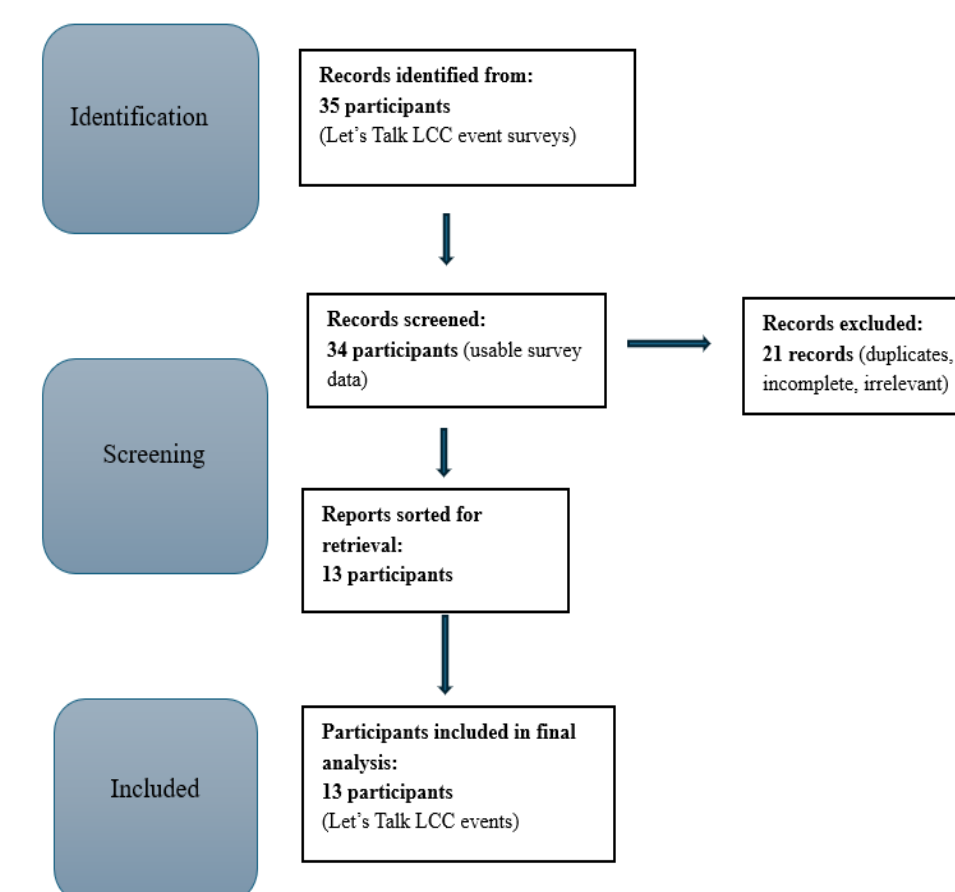
**January 2025:** Orientation, team introduction, and initial project review.

**February 2025:** Data extraction, preliminary cleaning, and handling missing values.

**March 2025:** Data standardization, descriptive statistical analysis, and trend identification.

**April 2025:** Power BI dashboard development, findings visualization, report finalization, and presentation.

## Practicum Duties



### Data Extraction and Cleaning:

Satisfaction survey data was collected across "Let’s Talk LCC" events from August 2024 to April 2025. Cleaned the datasets by handling missing values, standardizing response formats, and ensuring data integrity.

### Data Standardization:

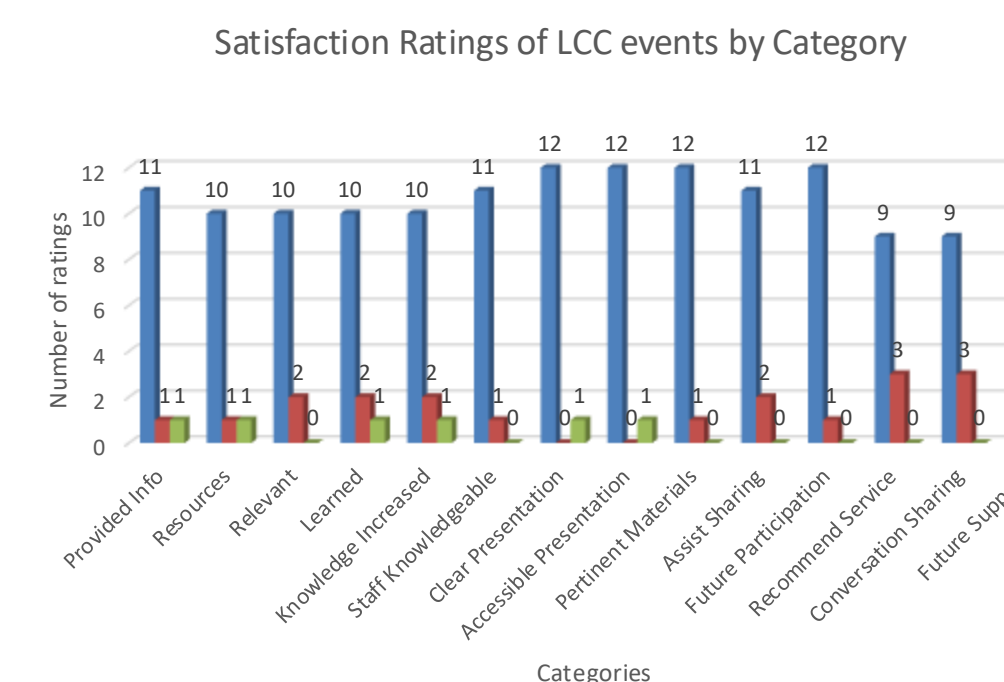
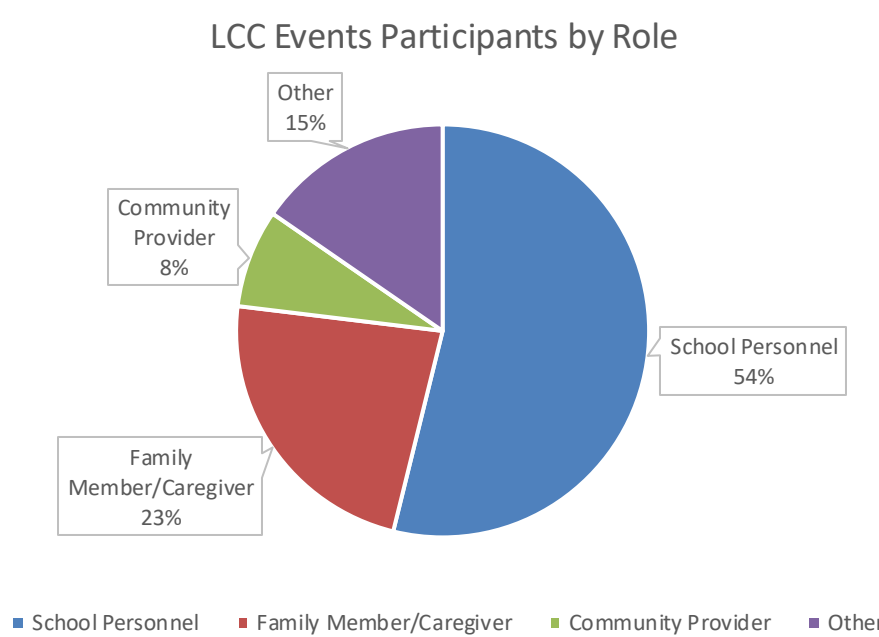
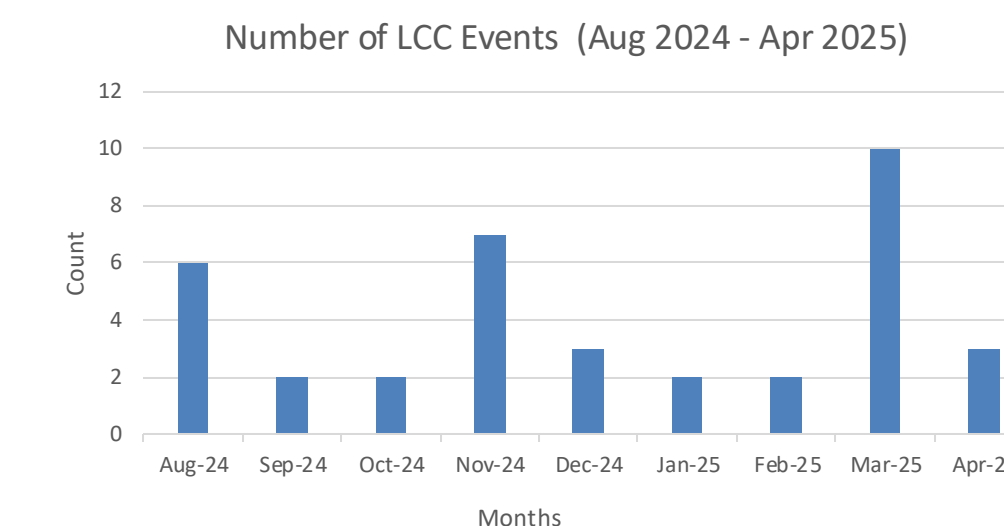
Transformed varied Likert scale responses and event labels into a consistent structure to enable accurate comparison across different events and timelines.

### Data Analysis:

Performed descriptive statistical analysis to identify trends in participant satisfaction scores across different months, topics, and event types.

**Dashboard Development Reporting and Recommendations Team Collaboration and Communication Ethical Data Management**

## Practicum Outcomes – Professional



- 52% of stakeholders were from education; 18% from healthcare; 15% from family/community services; and 15% from other sectors.
- 70% of attendees were returning participants.
- Returning participants reported slightly higher satisfaction than first-time attendees.
- Interactive sessions scored higher satisfaction than lecture-style sessions.
- "Clarity of Information" and "Relevance of Materials" were the top-rated categories.
- March 2025 events showed a slight satisfaction dip, linked to fewer interaction opportunities.
- Power BI dashboards enabled real-time analysis and improved event planning.

## Practicum Outcomes – Learning Objectives

- **Tasks:** Data extraction, data cleaning, dashboard creation, results reporting.
- **Objectives:** Identify participant satisfaction trends and recommend improvements.
- **Methodology:** Descriptive statistics, trend analysis, and data visualization using Power BI.
- **Tools Used:** Microsoft Excel, Power BI, REDCap (for initial data source).

## Conclusion

Analyzing participant satisfaction across "Let’s Talk LCC" events provided valuable insights into program strengths and areas for growth.

Interactive sessions consistently received higher satisfaction, emphasizing the importance of participant engagement.

The use of informatics tools like Power BI allowed dynamic, real-time analysis and better communication of findings to leadership.

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