

# DETECT of Mississippi: Evaluation

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# DETECT and Its Mandate

- Developmental Evaluation, Training and Educational Consultative Team of Mississippi
- Title II of the Americans with Disabilities Act requires all states to place qualified individuals with IDD in community settings rather than institutions
- DETECT supports healthcare providers and patients in Mississippi as the state transitions to community-based healthcare for people with IDD
- Rigorous evaluation of DETECT's outreach and educational efforts
- Research team also reviews medical periodicals to assist in information dissemination



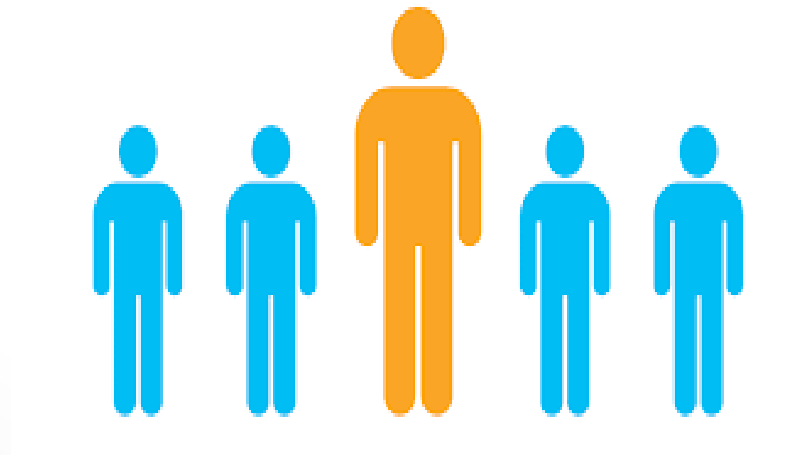
# IDD in the US: The Big Picture

- Americans with an IDD-related condition
  - 1.5%-3.0% of all citizens
  - Thus, 5-9 million Americans are affected
- Reduced life expectancy for severe IDD
  - 20% fewer years of life



# Prevalence of IDD in MS: The Need for DETECT

- Mississippi among states having highest proportion of civilians with IDD living in community settings
  - An estimated 14.5%-20.2% of Mississippians with IDD are living in community settings
  - MS self-care and vision disabilities also very high



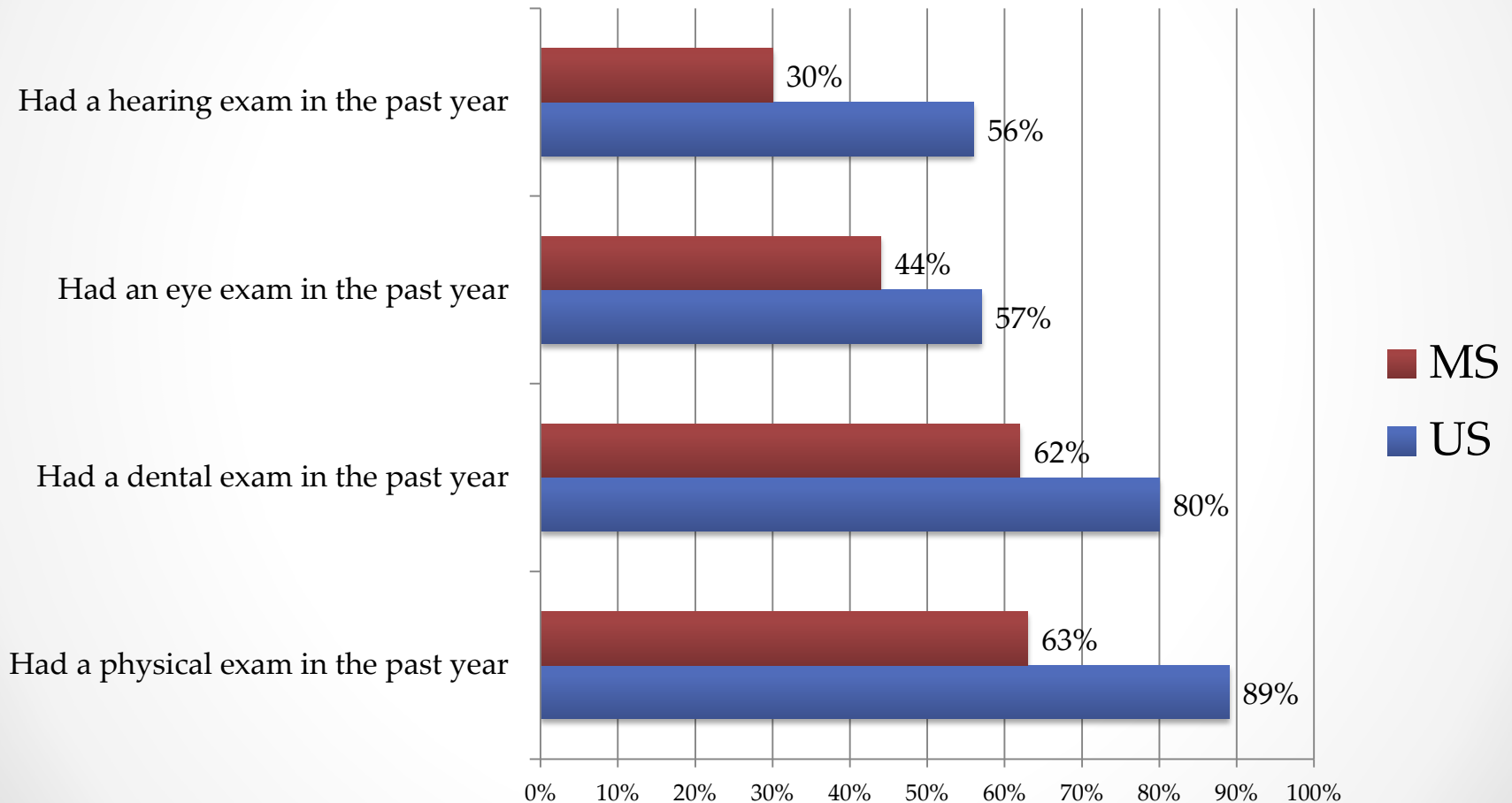
# IDD Health Risks in Mississippi: DETECT's Challenge

- Greatly elevated health and social risks among Mississippians with a disability
- When compared to people with IDD in other states, Mississippians with IDD have...
  - Higher rates of obesity and smoking
  - Lower rates of exercise
  - Lower rates of employment
  - Diminished earnings



# Medical Services: IDD in MS vs. US

Source: NCI 2012-2013



# Equipping Medical Providers: DETECT Infrastructure Gains

- Creation of referral network among MS clinicians
  - Over 200 clinicians, more than 40 dentists
  - Providers located throughout the state for broad geographical reach
- MS medical school curricula revised to address IDD
  - UMMC and William Carey College of Medicine
  - Major achievement: Alters medical pipeline, educates next generation
- Training medical students through DETECT site visits
  - Knowledge gains coupled with observation, modeling of care delivery
- Development & dissemination of clinician resources
  - Several IDD fact sheets & annotated bibliographies circulated statewide
  - Based on systematic review of hundreds of published medical studies
- DETECT promotional efforts and visibility: Over...
  - 404,000 web hits with impressive click-through rates; 12,600 FB likes
  - 13,500 post cards; 4,700 letters; magazine and newsletter ads

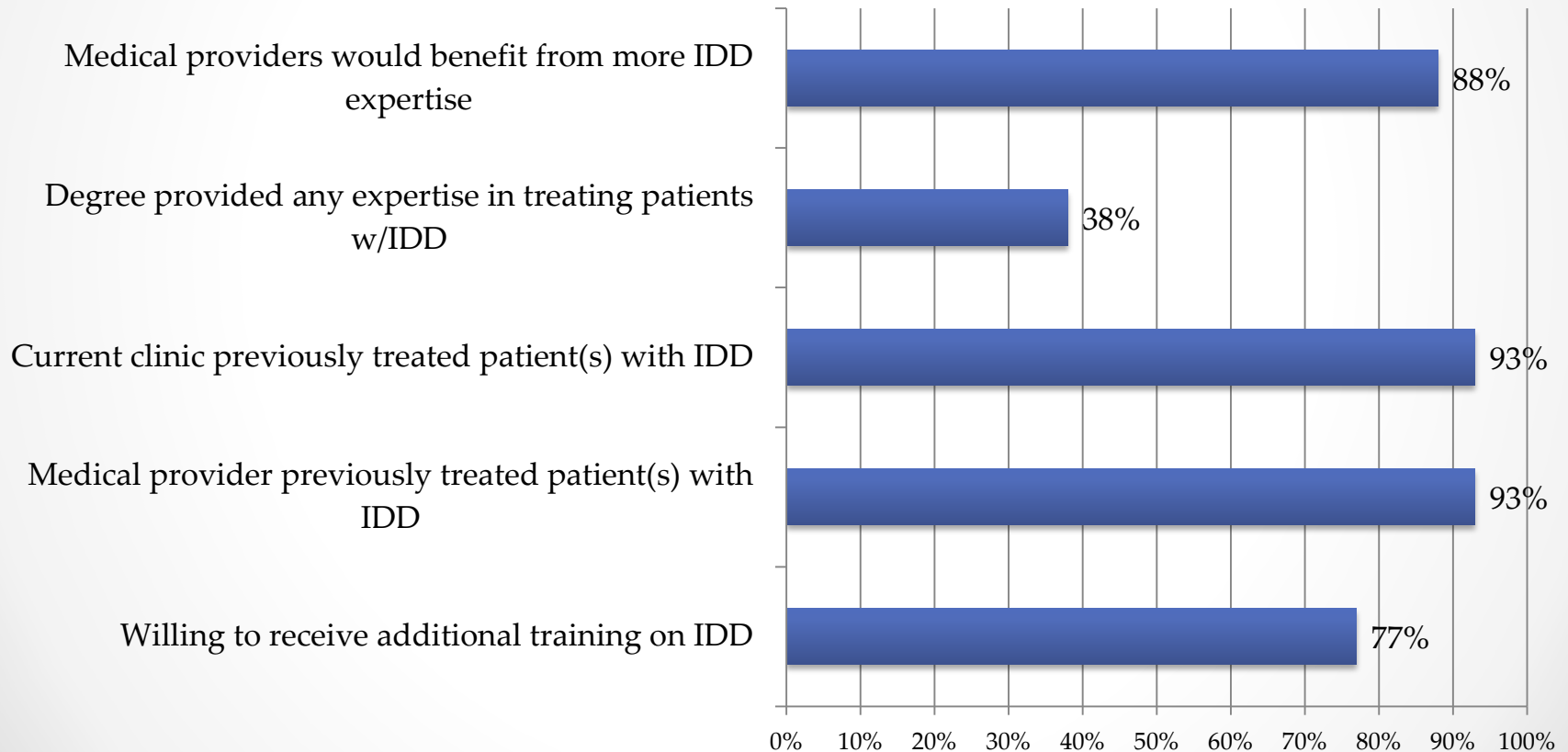
# Equipping Medical Providers: DETECT Educational Seminars

- Broad reach of educational seminars
  - Over 1,700 seminar attendees through more than 20 seminars
  - Majority are clinicians: Physicians, nurse practitioners, and RNs
  - Others served: Behavioral health providers, interested citizens (parents)
  - Educational seminars offered statewide
- MS as leader in IDD-related physician education
  - Seminars provided to health administrators, physicians, and others in North Carolina, Florida, Georgia, California
  - DETECT viewed as model for other states
  - MS as stringent test of medical education effectiveness
    - Health disparities, physician shortage, population dispersion
- Seminars as promotional conduit among clinicians
  - 82% unaware of DETECT prior to seminar; 86% unaware of mission beforehand
- Only 22% of clinician attendees self-rated as very knowledgeable about IDD before seminars



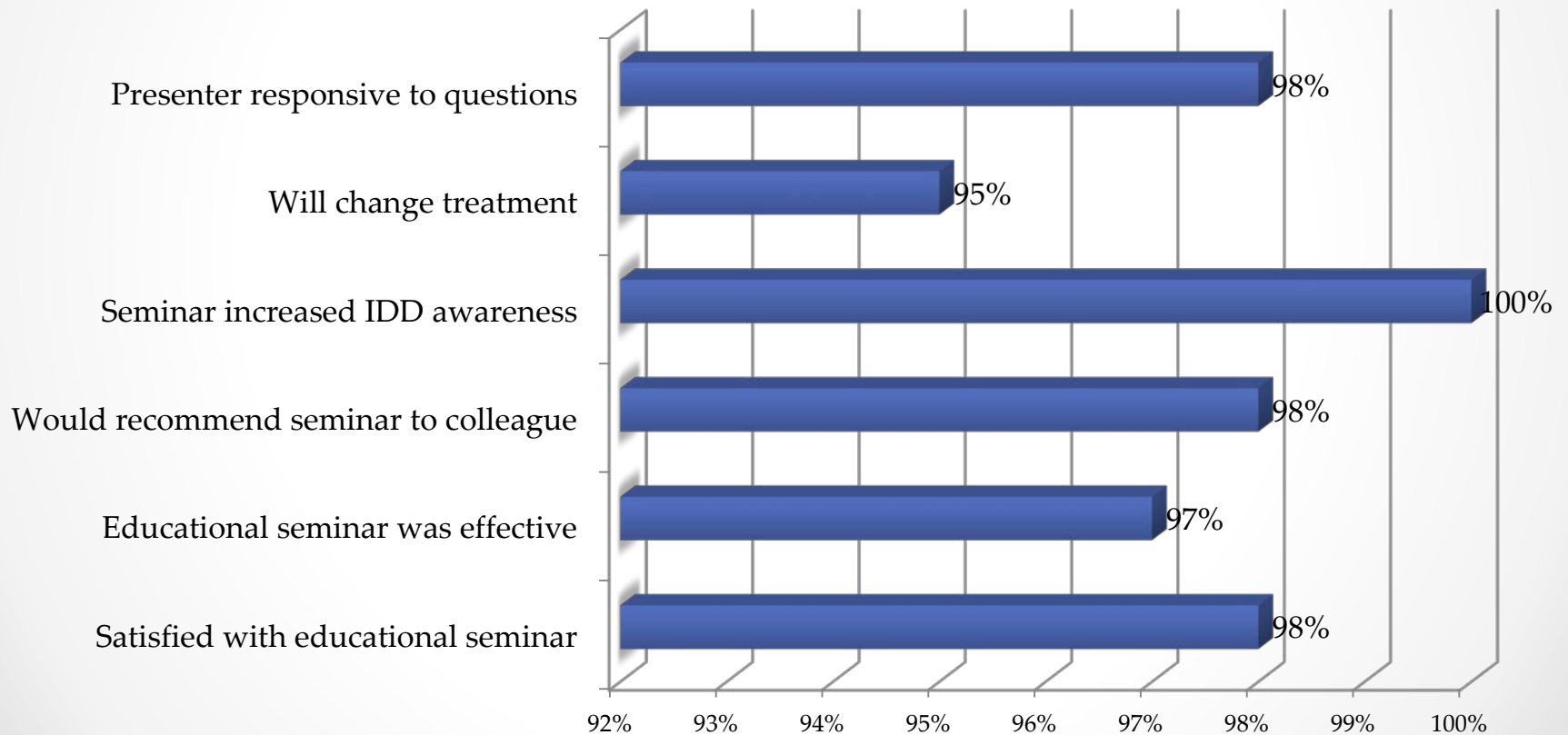
# Mississippi Medical Provider Educational Needs

## MS DETECT Seminar Attendees Survey



# Effective Medical Provider Education: Attendee Appraisals

## DETECT Seminar Impact



# Objective Knowledge Gains: DETECT Educational Seminars

- Comparisons of attendee knowledge before and after educational seminars reveal significant knowledge gains
  - Pretest/post-test methodology: Compare scores across several survey items to discern knowledge acquisition from seminar
  - Calculate statistical significance: Magnitude of pre/post change
- Statistically significant knowledge gains include...
  - Knowledge of federal law governing living arrangement options for people with IDD
  - Knowledge of the fatal four health conditions that threaten the well-being of people with IDD
  - Knowledge of dental issues that are commonly faced by people with IDD
  - Knowledge of the locations of the three DETECT clinics in Mississippi

# Self-Assessment Before & After: DETECT Educational Seminars

- Medical providers scored themselves on a 100-point scale for effectively treating patients with IDD
  - Average self-assessment score before educational seminars: 56
  - Average self-assessment score after educational seminars: 72
  - Proportional gain in score due to seminar completion (before vs. after): **29% improvement over baseline**
  - Indicator suggests greater clinician proficiency in understanding IDD and awareness of effective treatment options following seminar



# Summing Up...

- DETECT of Mississippi has successfully achieved, even exceeded, its goals since its inception
- Infrastructure enhancement (e.g., referral network establishment, curricular integration) pursued in tandem with physician education
- Knowledge disseminated through various conduits
  - Seminars, fact sheets, annotated bibliographies, new media and conventional media
- DETECT has become a national model of clinician education for the treatment of patients with IDD
- Programs aim to alter IDD-related health disparities
  - Plan to add several items to National Core Indicators in MS for 2017