Caregivers' Insights Concerning Visual Efficiency Skills of Their Child Diagnosed as a Fetus Exposed to Noxious Substances in Relation to Early Childhood Development

> Patricia Myers Research Week 2021



Qualitative Study

• An Embedded Collective Case Study

• Employed Literal Replication Logic

Purpose Statement

- Explore Family Caregivers' and Practitioner Caregivers' Perceptions
- Visual Efficiency Skills of their child (9-36 months old)
- Diagnosed with FENS
- Four regions of the REUS Birth-to-Three System
- The context of five early childhood developmental domains

Visual Efficiency Skills

13 visual skills needed to access Daily Routines, Exploration, and Play.

- Acuity/Focal Length
- Depth
- Figure Ground
- Oculomotor
- Social Gaze
- Spatial Relationships/ Eye-Hand Integration

- Visual Association
- Visual Closure
- Visual Discrimination
- Visual Memory
- Visual Sequencing
- Visual Pursuit
- Visual Attention

Central Research Question

What are the insights of caregivers in three regions of the REUS Birth-to-Three system concerning how visual efficiency skills affect early childhood development in motor, communication, cognitive, adaptive, and personal-social domains for their child diagnosed with FENS?

Sub Questions

1. What are the insights of caregivers in four regions of the REUS Birth-to-Three system concerning how visual efficiency skills affect early childhood **motor** development for their child diagnosed with FENS? 2. Communication **3.** Cognitive **5.** Personal-Social 4. Adaptive





Socialized Biological Dimension

- Anastasiou and Kauffman (2013)
- Recognizes Brain Function/Dysfunction
- Accounts for the biological influence without allowing the biologic insult to overpower barriers, attitudes, and exclusions
- Ensures that the child's authentic abilities are evidenced and not stifled by the impairment

Related Literature

- Medical Research
- The Assumption of Visual Efficiency skills in Developmental Assessments
- Visual Resolution Needs

Boundaries Case



Participants

Cases from 4 REUS Regions 6
Family Caregivers 9
Practitioner Caregiver 6
Participant Researcher 1

Settings

• 12 Interviews

- Family Caregivers within the home setting
- Practitioner Caregivers in a secluded public location near the work schedule
- 6 Observations within the home setting
- 6 Cases of Archived Records Review in secured private setting
- 1 Focus Group in a centralized meeting location

Data Collection

- Interviews consisted of 21 questions developed by the researcher via the guidance of a 5-member expert panel
- **Observations** of the participant engaging in play with the child diagnosed with FENS
- Archived Records Review to further "corroborate & augment" (Yin, 2014, p. 107) the breadth and depth of the interviews and discoveries from observations
- Focus Group to present the preliminary findings represent the voices of this study



Data Analysis

- Both within case and across case analyses (Merriam, 1998; Yin, 2014)
- Chronological time-series analyses
- Word tables
- The use of inter-scorer reliability via post hoc observations of the identical real-time observations conducted.
- Three Stages of Analysis
- Participant reviews of transcripts to ensure authentic representation of participant
- Focus groups as member checking.

Themes

- Caregivers' Emotional Responses
- Vision Is the Hidden Culprit
- My Child's Vision Is Quirky.



Sub Questions Responses 1. What are the insights of caregivers in four regions of the REUS Birth-to-Three system concerning how visual efficiency skills affect early childhood **motor** development for their child diagnosed with FENS? 2. Communication **3.** Cognitive **5.** Personal-Social 4. Adaptive

Central Research Question Response What are the insights of caregivers in three regions of the REUS Birth-to-Three system concerning how visual efficiency skills affect early childhood development in motor, communication, cognitive, adaptive, and personal-social domains for their child diagnosed with FENS?

Discussion

- The Socialized Biological Dimension within the Social Model of Disabilities Theory
- Previous Research
- Novel Contributions

Implications

- Theoretical Implications
- Empirical Implications
- Practical Implications

References

Anastasiou, D., & Kauffman, J. M. (2011). A social constructionist approach to disability: Implications for special education. *Exceptional Children*, 77(3), 367-384. doi:10.1177/001440291107700307 Anastasiou, D., & Kauffman, J. M. (2013). The social model of disability: Dichotomy between impairment and disability. The Journal of *Medicine and Philosophy*, 38(4), 441-459. doi:10.1093/jmp/jht026 Merriam, S. B. (1998). Qualitative research and case study applications in education: Revised and expanded from case study research in education (2nd ed.). San Francisco, CA: Jossey-Bass. Yin, R. K. (2014). *Case study research* (5th ed.). Thousand Oaks, CA: Sage Publications, Inc.