



# Advanced Neurorehabilitation for Pediatrics

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## DCE Site

The Neuro Specialist Institute is a team of internationally-renowned neurologists, neuroscientists, physicians, and therapists who engage in high level research and intervention in the field of neuro rehab.

→ Seek to improve outcomes for those with neurological conditions by equipping healthcare practitioners with the knowledge and skills to provide effective interventions based on current, high-level evidence



**Goal:** provide high quality and affordable certification program for practitioners who are passionate about neurological conditions

AOTA approved provider of continuing education

## Needs Assessment Summary

1. Difficult to find **affordable** continuing education courses for neurorehabilitation
2. Lack of **pediatric-focused** advanced neurorehabilitation courses offered at the Institute
3. Lack of **interprofessional** and **holistic** approach to neurorehabilitation as a specialty

## Literature Review

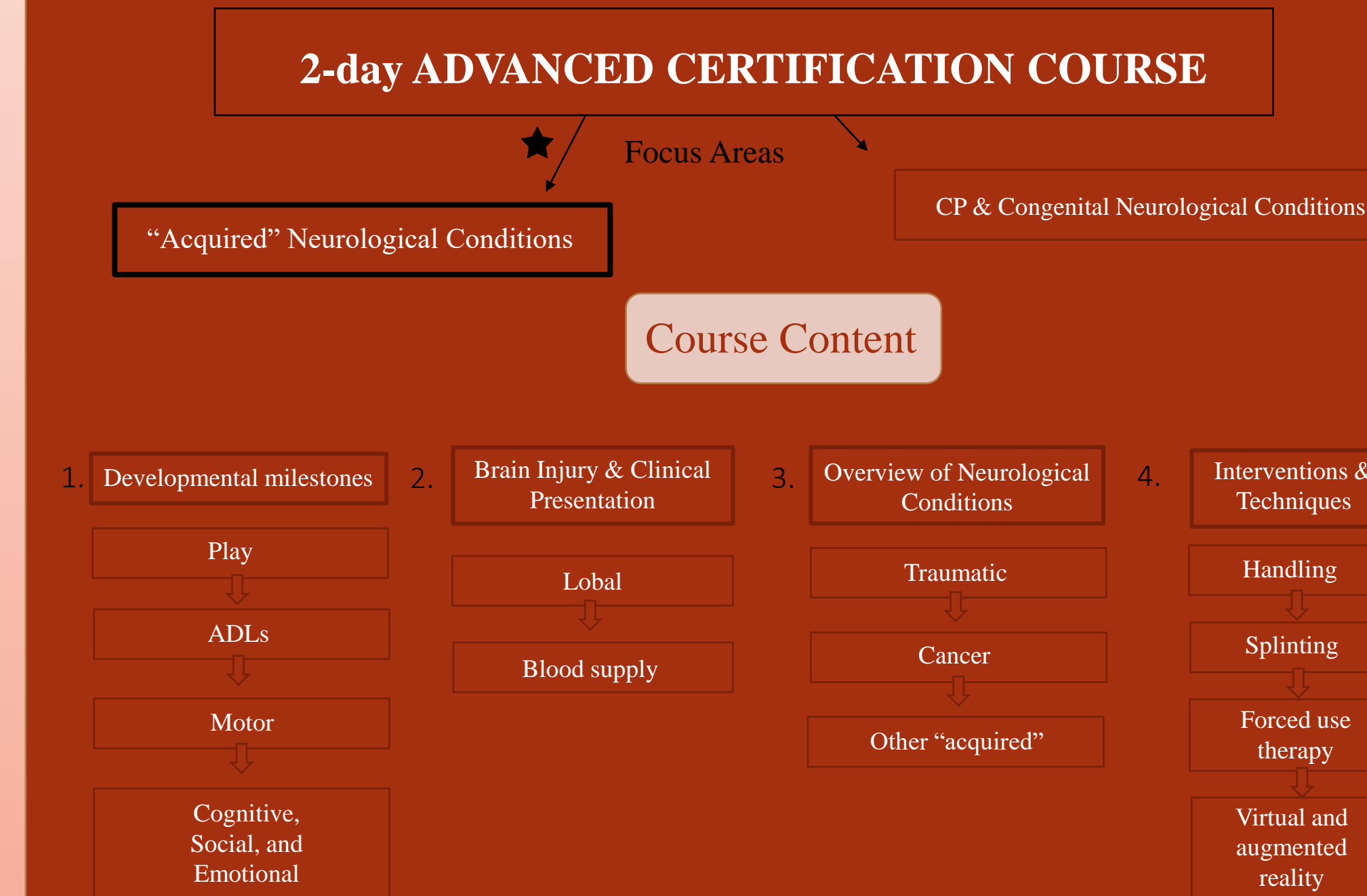
- There was a consensus that the **complexity of knowledge and skill necessary for effective treatment** provided rationale for **increasing specialization** with the health profession (Bartolo et al., 2012; Doucet, 2012)
- Advanced certification, knowledge, or training **decreased complications** of those with neurological conditions and **improved overall quality of life** (Bartolo et al., 2012; Bondoc et al., 2015; Doucet, 2012; Gilardi et al., 2020; Platz et al., 2020).
- Significance of an **interdisciplinary approach** and competence in order to optimize patient care (Bartolo et al., 2012; Bondoc et al., 2012; Doucet, 2012).

Gaps: Lack of affordable, accessible, post-professional advanced pediatric neurorehabilitation courses

## Student Learning Objectives

1. Develop an advanced certification manual for pediatric neurorehabilitation
2. Gain advanced clinical practice skills necessary to treat the pediatric population with neurological conditions in order to educate future practitioners who will take the course
3. Collaborate with professionals working with pediatric neurological conditions in order to develop an advanced certification course

## Project Description



## Evaluation of Outcomes and Implications

To evaluate the course, a form was created based on criteria items of American Occupational Therapy Association's guideline to become an approved continuing education provider. The capstone site mentor graded the course.

### Outcomes

Meets Criteria for all relevant sections (11-17)  
Exception: Assessment of learning outcomes as competency exam is not finalized

### Implications

Continue to develop course as it will be offered in 2023 as doctorate student will become an instructor

→ Collaborate with professionals and continue research

→ Network with companies to incorporate various technologies into course

REFERENCES AVAILABLE UPON REQUEST

## Summary of Deliverables



The Neuro Specialist Institute will have all original documents including course manual, competency exam, and multimedia (pictures, videos, audio recordings).

## Conclusion

Healthcare practitioners working in a complex field such as pediatric neurorehabilitation will be competent and well-equipped in analyzing and implementing interventions as appropriate for their clients. Overall, occupational therapy will be impacting rehabilitation as a whole by providing approaches that are holistic, collaborative, and client-centered ensuring best patient outcomes and satisfaction.

## Acknowledgements

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