



CONTINUING EDUCATION · COURSE DESCRIPTION

Pediatric Bootcamp & P.I.P.S.™ Technique Certification

The Architecture of Neurodevelopment, Oral Function, Airway Development, and Comprehensive Pediatric Assessment from Infancy Through Adolescence

INSTRUCTOR	Dr. Jenna F. Davis, DC
EDUCATIONAL HOURS	19 Hours Total (3 Hours Online Pre-Course · 16 Hours Live Instruction)
EDUCATIONAL LEVEL	Intermediate to Advanced
DOCUMENT PURPOSE	Course description prepared for continuing education accreditation review

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1. Course Overview

Course Title	Pediatric Bootcamp & P.I.P.S.™ Technique Certification
Instructor	Dr. Jenna F. Davis, DC
Total Educational Hours	19 Hours
Course Format	3 Hours Online Pre-Course + 16 Hours Live Instruction
Instructional Methods	Didactic instruction, current research review, clinical demonstration, case-based learning, and supervised hands-on practical training

2. Target Audience

Pediatricians, chiropractors, osteopaths, physiotherapists, occupational therapists, dentists, orthodontists, speech-language pathologists, myofunctional therapists, lactation consultants (IBCLCs), medical practitioners, rehabilitation professionals, healthcare students, and allied healthcare professionals involved in the assessment and care of infants, children, and adolescents.

3. Course Description

The Pediatric Bootcamp & P.I.P.S.™ Technique Certification is a comprehensive 19-hour educational program consisting of a 3-hour online pre-course and 16 hours of live instruction. The program explores neurodevelopment from conception through adolescence through the framework of the Architecture of Neurodevelopment, a clinical model that examines how foundational developmental processes influence regulation, sensory processing, movement, posture, oral function, airway development, learning, behavior, and overall health.

The online pre-course establishes foundational knowledge in neurodevelopment, developmental milestones, developmental observation, prenatal influences, birth considerations, and the Architecture of Neurodevelopment framework. Participants are introduced to the concepts of Regulation, Organization, Integration, and Expression, providing a foundation for understanding how neurodevelopment unfolds and how disruptions in these developmental processes may influence function throughout childhood and adolescence.

Building upon these foundations, the live program explores the interconnected relationships between nervous system maturation, craniofacial growth, feeding, breathing, oral function, sensory-motor integration, postural development, fascial continuity, and functional performance across the pediatric lifespan. Particular emphasis is placed on identifying developmental gaps, recognizing adaptive compensation patterns, and understanding how early developmental influences may contribute to later clinical presentations.

The program provides training in comprehensive pediatric assessment, including developmental history, neurological screening, cranial nerve observations, muscle tone assessment, primitive and postural reflex evaluation, movement analysis, postural assessment, skeletal development, oral function assessment, airway considerations, and clinical pattern recognition. Current research related to

neurodevelopment, autonomic regulation, vagal function, oral function, airway development, sensory-motor integration, fascial relationships, craniofacial growth, and pediatric clinical outcomes is integrated throughout the program.

A major component of the course includes certification training in P.I.P.S.™ (Pediatric Intraoral Palate Specific), a comprehensive assessment and treatment approach focused on evaluating and addressing restrictions, dysfunctions, and compensation patterns involving the oral cavity, palate, tongue, lips, temporomandibular system, craniofacial complex, and associated neurodevelopmental structures. Participants explore the relationship between oral function, feeding, breathing, airway development, craniofacial growth, postural adaptation, nervous system regulation, and whole-body compensation patterns.

Training includes both theoretical instruction and supervised hands-on application, with emphasis on clinical assessment, treatment planning, interdisciplinary collaboration, and integration into comprehensive pediatric care. Clinical considerations related to tongue function, oral restrictions, pediatric temporomandibular dysfunction, craniofacial development, fascial relationships, and functional adaptations throughout the body are incorporated throughout the certification process.

Through evidence-informed lectures, current research review, clinical demonstrations, case-based learning, video analysis, and supervised practical training, participants gain an integrated framework for understanding pediatric development, evaluating clinical presentations from infancy through adolescence, and communicating effectively within interdisciplinary healthcare teams.

Upon completion of the program, participants will possess practical assessment skills, enhanced clinical reasoning abilities, and a broader understanding of the relationships between neurodevelopment, oral function, airway development, posture, movement, and overall pediatric health.

4. Learning Objectives

Upon completion of this program, participants will be able to:

- 1 Describe the Architecture of Neurodevelopment framework and its application to pediatric assessment and clinical reasoning.
- 2 Explain how prenatal, birth, feeding, environmental, and developmental influences contribute to nervous system organization and function.
- 3 Identify developmental patterns associated with regulation, posture, movement, oral function, airway development, learning, behavior, and performance.
- 4 Perform comprehensive pediatric observations and assessment procedures related to neurological development, movement quality, posture, tone, coordination, and sensory-motor function.
- 5 Explain the relationship between oral function, craniofacial development, airway health, posture, and neurodevelopment.
- 6 Recognize common developmental compensation patterns and adaptive strategies across infancy, childhood, and adolescence.
- 7 Discuss the role of autonomic regulation, vagal function, sensory processing, and environmental influences in pediatric development and clinical presentation.
- 8 Apply foundational principles of P.I.P.S.™ assessment and treatment procedures within their professional scope of practice.
- 9 Integrate current research into clinical decision-making and interdisciplinary communication.
- 10 Develop age-appropriate clinical strategies to support optimal developmental outcomes.

5. Detailed Course Outline

Online Pre-Course (3 Hours)

Foundations of Neurodevelopment

- Nervous system development from conception
- Prenatal influences on development
- Birth and early adaptation
- Critical developmental windows
- Developmental milestones and variability
- Neuroplasticity and developmental progression

Introduction to the Architecture of Neurodevelopment

- Regulation
- Organization
- Integration
- Expression
- Developmental foundations and adaptation
- Developmental gaps and compensation patterns
- Clinical implications across childhood and adolescence

Developmental Observation and History

- Developmental history taking
- Pediatric observation strategies
- Functional developmental assessment
- Recognizing developmental patterns
- Introduction to clinical reasoning

Day One

Module 1 · The Architecture of Neurodevelopment

Regulation

- Development of autonomic regulation
- State regulation and adaptation
- Sensory foundations of development
- Stress physiology and developmental outcomes
- Co-regulation and self-regulation
- Foundations of vagal function and resilience

Organization

- Sensory system development
- Developmental sequencing
- Early motor organization
- Foundations of postural control
- Primitive reflexes within development
- Developmental gaps and adaptive strategies

Integration

- Vestibular integration
- Bilateral coordination
- Cross-pattern movement
- Motor planning
- Postural reflex development
- Building neurological efficiency

Expression

- Executive function
- Communication
- Emotional regulation
- Learning and academic performance
- Functional participation and performance

Module 2 · Nervous System Development and Functional Assessment

- Neurological maturation
- Sensory-motor integration
- Cranial nerve considerations
- Developmental screening principles
- Functional movement development
- Observation-based assessment
- Pattern recognition across developmental stages

Module 3 · Comprehensive Pediatric Examination

- Developmental history and intake
- Neurological screening procedures
- Cranial nerve observations
- Muscle tone assessment
- Primitive and postural reflex assessment
- Postural evaluation
- Skeletal development and alignment
- Gait analysis
- Functional movement assessment
- Clinical documentation and interpretation

Module 4 · Movement Development and Neurodevelopmental Foundations

- Developmental motor progression
- Rolling, crawling, creeping, and gait development
- Vestibular and proprioceptive influences
- Bilateral coordination
- Balance and postural control
- Compensation patterns and adaptation
- Clinical pattern recognition

Day Two

Module 5 · Oral Function, Feeding and Airway Development

- Embryology of oral structures
- Feeding and swallowing development
- Oral reflex maturation
- Tongue function and posture
- Oral motor development
- Nasal breathing and airway development
- Craniofacial growth and development
- Functional consequences of oral dysfunction
- Oral function assessment procedures
- Current research related to oral function and airway development

Module 6 · Fascial, Cranial and Structural Relationships

- Fascial continuity and development
- Oral-cervical-postural relationships
- Craniofacial development
- Structural adaptation and compensation
- Whole-body integration
- Clinical implications for assessment and care

Module 7 · Autonomic Regulation, Vagal Function and Neurodevelopment

- Autonomic nervous system function
- Vagal pathways and regulation
- Regulation and resilience
- Feeding, breathing, and autonomic function
- Clinical implications of dysregulation
- Current research and emerging perspectives

Module 8 · P.I.P.S.™ Technique Certification

Theoretical Foundations

- Principles of P.I.P.S.™
- Palatal and intraoral anatomy
- Tongue, lip, and oral function assessment
- Pediatric temporomandibular considerations
- Craniofacial development and adaptation
- Neurodevelopmental considerations
- Fascial and structural relationships
- Clinical indications and contraindications
- Integration within interdisciplinary care

Practical Training

- Intraoral assessment procedures
- Palatal evaluation
- Tongue and oral function assessment
- Clinical observation of compensatory patterns
- Demonstration of procedures
- Supervised hands-on application
- Clinical decision-making and treatment planning
- Integration with broader neurodevelopmental findings

Certification Requirements

- Attendance at the full program
- Participation in practical training components
- Demonstration of foundational competency in P.I.P.S.™ assessment procedures

Module 9 · Clinical Integration from Infancy Through Adolescence**Infants**

- Feeding and oral function
- Regulation and developmental foundations
- Early developmental concerns
- Oral function and airway considerations

Children

- Sensory-motor development
- Learning and behavior
- Posture and movement
- Coordination and performance
- Neurodevelopmental compensation patterns

Adolescents

- Posture and biomechanics
- Airway and breathing considerations
- Athletic performance
- Headaches and temporomandibular presentations
- Functional compensation patterns
- Developmental influences on performance and participation

Case Integration

- Clinical pattern recognition
- Interdisciplinary communication
- Referral considerations
- Case studies from infancy through adolescence
- Longitudinal developmental management

6. Teaching Methods

- Evidence-informed lectures
- Current research review
- Clinical demonstrations
- Supervised hands-on practical training
- Video analysis
- Case-based learning
- Interactive discussion
- Clinical application exercises

7. Educational Level & Prerequisites

Educational Level

Intermediate to Advanced

Prerequisites

Healthcare professionals, healthcare students, or practitioners involved in pediatric, developmental, oral function, airway, rehabilitation, manual therapy, or healthcare-related fields.

Pediatric Bootcamp & P.I.P.S.(TM) Technique Certification

The Architecture of Neurodevelopment, Oral Function, Airway Development, and Comprehensive Pediatric Assessment from Infancy Through Adolescence

Instructor	Dr. Jenna F. Davis, DC
Dates / Location	18-19 September 2026 / Heiden, Switzerland
Live course	08:30-17:30 each day; 1-hour lunch break
Educational hours	3 h online pre-course + 16 h live instruction = 19 h total
Participants	Minimum 15 / Maximum 30
Educational level	Intermediate to Advanced

Course Description

The Pediatric Bootcamp & P.I.P.S.(TM) Technique Certification is a comprehensive 19-hour educational program designed to advance clinical understanding of pediatric neurodevelopment, nervous system organization, movement development, oral function, airway development, autonomic regulation, and comprehensive pediatric assessment from infancy through adolescence. The course integrates current research in developmental neuroscience, pediatric neurology, sensory-motor integration, oral function, airway health, craniofacial development, autonomic nervous system regulation, and functional movement assessment. Participants develop advanced clinical reasoning skills to identify developmental gaps, compensatory patterns, and functional challenges that may influence regulation, posture, movement, feeding, breathing, learning, behavior, and overall developmental performance.

Target Audience

Pediatricians, chiropractors, osteopaths, physiotherapists, occupational therapists, dentists, orthodontists, speech-language pathologists, myofunctional therapists, lactation consultants (IBCLCs), medical practitioners, rehabilitation professionals, healthcare students, and allied healthcare professionals involved in the assessment and care of infants, children, and adolescents.

Learning Objectives

1. Describe the Architecture of Neurodevelopment framework and its application to pediatric assessment and clinical reasoning.
2. Explain how prenatal, birth, feeding, environmental, and developmental influences contribute to nervous system organization and function.
3. Identify developmental patterns associated with regulation, posture, movement, oral function, airway development, learning, behavior, and performance.
4. Perform comprehensive pediatric observations and assessment procedures related to neurological development, movement quality, posture, tone, coordination, and sensory-motor function.
5. Explain the relationship between oral function, craniofacial development, airway health, posture, and neurodevelopment.
6. Recognize common developmental compensation patterns and adaptive strategies across infancy, childhood, and adolescence.
7. Discuss the role of autonomic regulation, vagal function, sensory processing, and environmental influences in pediatric development and clinical presentation.
8. Apply foundational principles of P.I.P.S.(TM) assessment and treatment procedures within their professional scope of practice.
9. Integrate current research into clinical decision-making and interdisciplinary communication.
10. Develop age-appropriate clinical strategies to support optimal developmental outcomes.

Programme

Online Pre-Course - 3 Hours

- Foundations of Neurodevelopment: nervous system development from conception; prenatal influences; birth and early adaptation; critical developmental windows; developmental milestones and variability; neuroplasticity and developmental progression.
- Architecture of Neurodevelopment: Regulation, Organization, Integration and Expression; developmental foundations and adaptation; developmental gaps and compensation patterns; clinical implications.
- Developmental Observation and History: history taking; pediatric observation strategies; functional developmental assessment; recognizing developmental patterns; introduction to clinical reasoning.

Day 1 - 18 September 2026 | 08:30-17:30

Lunch break: 1 hour

Module 1: The Architecture of Neurodevelopment

- Regulation: autonomic regulation, state regulation, sensory foundations, stress physiology, co-regulation and self-regulation, vagal function and resilience.
- Organization: sensory system development, developmental sequencing, early motor organization, postural control, primitive reflexes, developmental gaps and adaptive strategies.
- Integration: vestibular integration, bilateral coordination, cross-pattern movement, motor planning, postural reflex development and neurological efficiency.
- Expression: executive function, communication, emotional regulation, learning, academic and functional performance.

Module 2: Nervous System Development and Functional Assessment

- Neurological maturation; sensory-motor integration; cranial nerve considerations; developmental screening; functional movement development; observation-based assessment; pattern recognition across developmental stages.

Module 3: Comprehensive Pediatric Examination

- Developmental history and intake; neurological screening; cranial nerve observations; muscle tone; primitive and postural reflexes; postural evaluation; skeletal development and alignment; gait analysis; functional movement assessment; clinical documentation and interpretation.

Module 4: Movement Development and Neurodevelopmental Foundations

- Developmental motor progression; rolling, crawling, creeping and gait; vestibular and proprioceptive influences; bilateral coordination; balance and postural control; compensation patterns; clinical pattern recognition.

Day 2 - 19 September 2026 | 08:30-17:30

Lunch break: 1 hour

Module 5: Oral Function, Feeding and Airway Development

- Embryology of oral structures; feeding and swallowing development; oral reflex maturation; tongue function and posture; oral motor development; nasal breathing and airway development; craniofacial growth; functional consequences of oral dysfunction; oral function assessment; current research.

Module 6: Fascial, Cranial and Structural Relationships

- Fascial continuity and development; oral-cervical-postural relationships; craniofacial development; structural adaptation and compensation; whole-body integration; clinical implications.

Module 7: Autonomic Regulation, Vagal Function and Neurodevelopment

- Autonomic nervous system function; vagal pathways and regulation; regulation and resilience; feeding, breathing and autonomic function; clinical implications of dysregulation; current research and emerging perspectives.

Module 8: P.I.P.S.(TM) Technique Certification

- Theoretical foundations: P.I.P.S.(TM) principles; palatal and intraoral anatomy; tongue, lip and oral function assessment; pediatric TMJ; craniofacial development; neurodevelopmental, fascial and structural relationships; clinical indications and contraindications; interdisciplinary integration.
- Practical training: intraoral assessment; palatal evaluation; tongue and oral function assessment; observation of compensatory patterns; demonstrations; supervised hands-on application; clinical decision-making and treatment planning.
- Certification requirements: full attendance; participation in practical training; demonstration of foundational competency in P.I.P.S.(TM) assessment procedures.

Module 9: Clinical Integration from Infancy Through Adolescence

- Infants: feeding, oral function, regulation, developmental foundations and airway considerations.
- Children: sensory-motor development, learning and behavior, posture, movement, coordination and compensation patterns.
- Adolescents: posture and biomechanics, airway and breathing, athletic performance, headaches, temporomandibular presentations and functional compensation patterns.
- Case integration: clinical pattern recognition, interdisciplinary communication, referral considerations, case studies and longitudinal developmental management.

Teaching Methods

- Evidence-informed lectures
- Current research review
- Clinical demonstrations
- Supervised hands-on practical training
- Video analysis
- Case-based learning
- Interactive discussion
- Clinical application exercises

Educational Hours Summary

Component	Hours
Online pre-course	3
Live instruction	16
Total educational hours	19

Instructor Professional Profile

Dr. Jenna Davis

Professional role	Chiropractor, educator and speaker
Clinical role	Owner and Clinical Director, Acorn Family Health and Wellness Centre, Oakville, Ontario
Professional focus	Fertility, pregnancy, postpartum care and pediatric care
Technique	Developer of the P.I.P.S.(TM) (Pediatric Intraoral Palate Specific) Technique

Professional Profile

Dr. Jenna Davis is an internationally recognized chiropractor, educator and speaker, specializing in fertility, pregnancy, postpartum care and pediatric care. She is the owner and Clinical Director of Acorn Family Health and Wellness Centre in Oakville, Ontario, where she leads an interdisciplinary team focused on optimizing the brain-body connection to support neurological function and the overall well-being of families.

P.I.P.S.(TM) Technique

Dr. Davis developed the P.I.P.S.(TM) (Pediatric Intraoral Palate Specific) Technique, a specialized approach for pediatric temporomandibular joint dysfunction, tongue- and lip-ties, dural tension and oromotor challenges. Through her coaching and education company, Baby Boom Creations, she trains and certifies professionals worldwide, thereby contributing to the advancement of care for infants and children.

Teaching and Speaking

As a sought-after keynote speaker, Dr. Davis presents at leading professional congresses in North America, Oceania and Europe. Her engaging, evidence-based presentations address pediatrics, tongue- and lip-ties, oral function, child development, primitive reflexes, neurodevelopment, women's health and communication.

Areas Covered in Her Professional and Educational Work

- Fertility, pregnancy and postpartum care
- Pediatric care
- Pediatric temporomandibular joint dysfunction
- Tongue- and lip-ties
- Dural tension and oromotor challenges
- Oral function and child development
- Primitive reflexes and neurodevelopment
- Women's health and communication
- Training and certification of professionals in the P.I.P.S.(TM) Technique