

Pain in Child Health Curriculum

The methodology for delivering this curriculum includes: self-directed learning using many sources; PICH Training Institutes (2- to 4-day face-to-face workshops preceding national or international meetings, such as the International Forum on Pediatric Pain); monthly international research webinars; active listserv; short-term visits by trainees to approved research sites to learn specific skills and develop aspects of their research; and interaction between trainees and mentors both within and outside PICH.



<u>Domain of Learning</u>	<u>Examples (topics for self-directed or formal study)</u>
Biological basis of pain	Anatomy, physiology, biochemistry, genetics, evolution
Development of pain systems	Interaction of biology and experience in development, maturation of peripheral and central nervous system and of behavior
Cognitive, affective, social and cultural influences	Perception, emotion, memory, cognition, gender, family, culture, societal
Epidemiology and taxonomy	Classification by location and type of pain, diseases, acute, recurrent, chronic, palliative, special populations
Pharmacology	Analgesics, anesthetics, sedatives, anticonvulsants, adjuvants, WHO ladder, pharmacodynamics, pharmacokinetics, pharmacogenetics
Assessment	Measurement, observation, self-report, composite, brain imaging, physiological recordings, nerve conduction studies
Intervention and prevention	Pharmacological, physical, psychological, social, nerve blocks, brain stimulation, complementary and alternative methods, health care systems analysis
Study design	Quantitative: RCT, cohort; qualitative: phenomenology, ethnography, grounded theory, evidence-based health care, experimental pain methods, n=1 studies
Ethics	Proxy consent, protection of participants, human experiments, animal experiments, placebo, Tri-Council Policy Statement
Knowledge translation	Individual, unit and systems, facilitators and barriers to change and innovation, interactive strategies, advocacy, policy
Scholarly activities	Writing grants, publications, managing a research group, understanding budgets, forming an interdisciplinary team, mentoring
Career development	Work-life balance, planning for success, institutional and discipline politics, managing your mental health