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Export citation 22 - Structural and functional imaging of hypoxic-ischemic injury (HII) in the fetal and neonatal brain pp

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446-489 By Francis G. Blankenberg, Lucile Packard Children's Hospital, Palo Alto, CA, USA, Patrick D. Barnes, Lucile Packard Children's Hospital, Palo Alto, CA, USA

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Learning from avoidable brain injuries at birth NHS Resolution has reported on the first year of its innovative scheme to drive

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improvements in maternity and neonatal services and to ensure that families are better supported whose babies suffer rare, but tragic, avoidable brain injuries at birth.

## **Learning from avoidable brain injuries at birth - NHS ...**

In addition, infants with intrauterine growth restriction (IUGR) make up a disproportionate share of infants with neonatal brain injury, suggesting that the underlying cause or causes of the growth restriction may have started in utero and continued through the intrapartum and postpartum periods.

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This new edition of Fetal and Neonatal Brain Injury brings the reader fully up to date with all advances in clinical management and outcome assessment. Updated material includes inflammation focusing in particular on chorioamnionitis and fetal brain injury; genetic brain injury; and expanded sections on cholestasis, diabetes, and thyroid disease.

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Books

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Learn more about commonly encountered fetal and neonatal neurological conditions Develop effective communication skills with families and other health care providers Perform age-appropriate neurological examinations Synthesize available clinical information to predict neurological outcomes

## **BRAIN 2021 - Fetal and Neonatal Neurology Congress**

Conditions that lead to brain injury around the time of birth, 1 such as hypoxia-ischaemia, stroke and intracranial haemorrhage, are leading causes of neonatal mortality 2 and life-long morbidities including some forms of cerebral palsy. 3

## **Neonatal brain injuries in England: population-based ...**

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Fetal brain MRI has revolutionized early detection of intrauterine CNS injury in high-risk fetal and pregnancy conditions. Fetal MRI can be technically challenging, with acquisition of diagnostic...

## **Detection and assessment of brain injury in the growth ...**

Protecting the brain from injury during the fetal, peri-partum and neonatal periods is of major importance owing to the significant number of infants who now survive very preterm birth but develop neurodevelopmental and motor disabilities.

## **The biological basis of injury and neuroprotection in the ...**

Exposure of fetal or neonatal NHP brain to propofol caused a significant increase in apoptosis of neurones, and of OLs at a stage when OLs were just beginning to myelinate axons. Apoptotic degeneration affected similar brain regions but to a lesser extent than we previously described after isoflurane.

## **Propofol-induced apoptosis of neurones and ...**

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Improvements in the detection of fetal and neonatal brain injuries, advances in our understanding of the pathophysiology, cellular and molecular bases of encephalopathy, and new treatment options have all combined to produce significant changes in the management of neonatal brain disorders in the past few years. This new edition of Fetal and Neonatal Brain Injury brings the reader fully up to ...

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A comprehensive survey of fetal and neonatal brain injury arising from hypoxic or ischemic events.

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Authoritative, practical clinical text giving clear management advice on diagnosis, treatment and outcomes of all fetal and neonatal brain injuries.

An examination of legal measures which might be used to solve the problem of fragmentation of patents in genetics.

The immature brain is vulnerable to prenatal and postnatal stresses, which may produce brain damage leading to neurological dysfunction in survivors. This special issue presents new in-sights into the detection, pathophysiology and treatment of developmental brain injuries. Importantly, several papers in this issue report pre-clinical tests of new therapies that prevent injury to the developing brain including erythropoietin, insulin-like growth factor- 1 peptides and antioxidants. New insights into how to promote brain repair from neural stem cells is also reported. Information obtained from MRI on human infants, combined with data from several animal models, highlights the effects of hypoxia-ischemia interaction, excitotoxicity, oxidative stress, seizures and inflammation on the outcome of developmental brain injury and ultimate neurological

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outcome. This publication is recommended to both clinicians and basic scientists, who are interested in the developing nervous system, its vulnerability to various pathophysiological processes, and the eventual consequences for neurological development.

The immature brain is vulnerable to prenatal and postnatal stress, which may produce brain damage leading to neurological dysfunction in survivors. The articles in this special issue provide new insights into the pathophysiology and treatment of developmental brain injuries and functional outcomes. Information obtained using preclinical models as well as data from clinical studies emphasize the influence of hypoxia-ischemia, excitotoxicity, oxidative stress, seizures and inflammatory mediators on the outcome of developmental brain injury and ultimate neurological outcome. Importantly, several papers report preclinical tests of new therapies that show real promise in preventing injury to the developing brain including erythropoietin, melatonin and steroids. This publication will be of interest to both clinicians and basic scientists who are interested in the developing nervous system, its vulnerability to various pathophysiological processes and the eventual consequences for neurologic development.

International Reviews of Child Neurology Series No. 13 Given the

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tremendous advances in the last five years in the understanding of acquired neonatal brain injury and in the care of affected newborn infants, this book provides a timely review for the practising neurologist, neonatologist and pediatrician. The editors take a pragmatic approach, focusing on specific populations encountered regularly by the clinician. They begin by addressing aspects of fetal neurology and the interpretation of fetal imaging studies. They then follow a "bench to bedside" approach to acquired brain injury in the preterm and term newborn infant in the next chapters. The contributors, all internationally recognized clinician scientists, provide the clinician reader with a state-of-the art review in their area of expertise. The final section of the book address special populations and concerns, areas that are largely overlooked in existing neurology textbooks. Each of these areas has seen considerable advances in the last five years and is of increasing relevance to the neurologist and neonatologist clinician. The comprehensive nature of each section (from basic science to acute clinical care to outcomes) should appeal broadly to scientists and allied health professionals working in neonatal neurology. Readership Paediatric neurologists, neonatologists, neurologists and paediatricians, clinicians in child development, child health researchers and allied health professionals (in physiotherapy,

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occupational therapy, speech therapy and psychology). Trainees in these areas.

The definitive reference work on the developing brain from conception through the first year of life, this book provides specialists involved in the management of the fetus and the neonate with the latest information on the developmental neurology and pathology of the developing central nervous system.

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