Dr Terrie Inder

General Bio



Dr Inder is a dual boarded newborn medicine physician and child neurologist with her research focus in the newborn brain. She also undertakes clinical service within the neonatal intensive care unit. As all her research activities are clinical investigations, the research studies and clinical care of high-risk infants are tightly integrated. Dr Inder's primary research is targeted at understanding the timing, mechanisms and impact of cerebral injury and altered cerebral development in infants at high risk for adverse neuodevelopmental outcome, including the prematurely-born infant, the sick term-born infant, and the infant with congenital heart disease. Her aim in her investigations is to investigate means of accurate, early diagnosis of brain injury as well as developing treatments and preventive strategies to reduce subsequent disabilities. This research work has utilized technologies including near infrared spectroscopy, electroencephalography and magnetic resonance imaging. Dr Inder has held previous leadership positions in neonatal medicine as Director of the Intellectual and Developmental Disabilities Research Center at Washington University in St Louis, the Chair and Mary Ellen Avery Professor of the Department of Pediatric Newborn Medicine at the Brigham and Womens Hospital in Boston and in 2022 as Director for the new Center for Neonatal Research at Childrens Hospital of Orange County. Her mission has been to develop programs that integrate discovery and innovation alongside translation into clinical excellence while mentoring the next generation of academic clinicians.

Curriculum Vitae Inder, Terrie Eleanor

03/23/2023 Inder, Terrie Eleanor
Childrens Hospital of Orange County 1201 West La Veta Ave, Orange, CA 92868
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Christchurch, New Zealand (714) 509.8057 (314) 489.2917 terrie.inder@choc.org

Education

2/83-12/88	MBChB	Medicine and	University of Otago, Dunedin, New
	Bachelor of	Surgery	Zealand
	Medicine and		
	Surgery		
12/92-12/97	MD	Thesis in Medicine	University of Otago, Dunedin, New
	Doctor of Medicine		Zealand
12/91-12/96	FRACP	Fellow Royal	Royal Australasian College of
	Fellow Royal	Australasian College	Physicians – Pediatrics with
	Australasian College	of Physicians	subspecialty Perinatal
	of Physicians		
12/2013-12/2014	MSc	Medical Science	Harvard Medical School
	Master of Science		
	(Honorary)		

Postdoctoral Training

12/88 – 12/89	Intern	General Medicine and Surgery	Waikato Hospital
12/89 - 12/92	Resident	Pediatrics	Dunedin Hospital, University of
			Otago, Dunedin, New Zealand
12/92 - 12/95	Fellow	Pediatrics –	Christchurch Hospital, Otago Medical
		Newborn Medicine	School, Christchurch, New Zealand
12/95 - 6/96	Chief Resident	Pediatrics	Christchurch Hospital, New Zealand
7/96 – 6/99	Resident	Child Neurology	Boston Children's Hospital, Harvard
			Medical School

Faculty Academic Appointments

1999 – 2001	Lecturer	Pediatrics	Christchurch School of Medicine,
			University of Otago School of
			Medicine, University of Auckland
1999 - 2001	Consultant Child	Pediatric Neurology	Starship Children's Hospital,
	Neurologist		University of Auckland, Auckland,
			New Zealand
2001 – 2005	Associate Professor	Pediatrics,	Royal Children's Hospital and Royal
		Child Neurology	Women's Hospitals, Murdoch
			Children's Research Institute and the
			Howard Florey Institute, University of
			Melbourne, Australia
2005 - 2010	Associate Professor	Pediatrics,	Washington University School of
		Neurology and	Medicine, St. Louis
		Radiology	
2010 - 2013	Professor	Pediatrics,	Washington University School of
		Neurology and	Medicine, St. Louis
		Radiology	
2013 - 2022	Professor	Pediatric Newborn	Harvard Medical School
		Medicine	
2022-	Professor	Pediatrics	University of California, Irvine

Hospital/Affiliated Institution Appointments

1999 – 2001	Neonatologist	Neonatology	Christchurch School of Medicine, New Zealand
1999-2001	Child Neurologist	Pediatric Neurology	Starship Children's Hospital, University of Auckland, Auckland, New Zealand
2001 – 2005	Neonatal Attending	Neonatology	Royal Woman's Hospital, Melbourne
2001 – 2005	Child Neurologist	Neurology	Royal Children's Hospital, Melbourne
2005 – 2013	Attending	Newborn Medicine	St. Louis Children's Hospital, USA
2005 - 2013	Attending	Neonatal Neurology	St. Louis Children's Hospital, USA
2013 - 2022	Attending	Newborn Medicine	Brigham and Women's Hospital, USA
2022 -	Attending	Newborn Medicine	Childrens Hospital of Orange County, California, USA

Other Professional Positions

2002 – Present	Member	International Society for Magnetic Resonance
		in Medicine
2006 -2014	Member	Steering Committee Vermont Oxford Network
		Encephalopathy Registry
2010 - 2013	Member, Washington University	Washington University School of Medicine, St.
	in St. Louis Gender Equity	Louis
	Committee	

2010 - 2013	McDonnell Academy	University of Melbourne
	Ambassador, University of	
	Melbourne	
2010 - 2013	Member, Chancellor's Steering	Washington University School of Medicine, St.
	Committee for McDonnell	Louis
	Academy	
2010 – Present	Member	American Society for Clinical Investigation
2010 – Present	Member	American Pediatric Society
2010 -2014	Member	Anesthetic and Life Support Drugs Advisory
		Committee, FDA, Washington DC
2010 - 2018	Member	SMART Tots Scientific Advisory Board Pediatric
		Anesthesia Neurotoxicity
2014-Present	Member (2014-2020) Guest	Neonatal-Perinatal Sub-Board for the American
	Editor (2021-	Board of Pediatrics.
2018- Present	Standing Member	Developmental Brain Disorders Study Section
		Roster (anticipated 6 years)
2020-Present	Member – Steering Committee	Newborn Brain Society

Major Administrative Leadership Positions

2005 – 2013	Director, Washington University Neonatal	Washington University School of
	Development Research Team	Medicine, St. Louis
2008, 2010	Course Director, Newborn Brain Symposium	Washington University School of
		Medicine, St. Louis
2010 - 2013	Director, Washington University Intellectual	Washington University School of
	and Developmental Disabilities Research	Medicine, St. Louis
	Center	
2009 - 2013	Co-Director, Patient Orientated Research	Washington University School of
	Unit- Department of Pediatrics	Medicine, St. Louis
2010-2013	Ambassador, McDonnell Scholars Academy	Washington University in St. Louis
	and member of the Chancellors Steering	
	Committee	
2010 - 2013	Director, Clinical and Translational Science	Washington University School of
	Award Pediatric Research Training	Medicine, St. Louis
2013 - 2022	Department Chair,	Brigham and Women's Hospital
	Department of Pediatric Newborn Medicine	Harvard Medical School
2019 - 2022	Chief of Pediatrics	Brigham and Women's Faulkner
		Hospital
2022 -	Director	Center for Neonatal Research,
		Childrens Hospital of Orange County

Committee Service

2011-2013	Member	Gender Equity Committee, Washington
		University in St Louis
2013 – 2016	Member	Committee on Academic Appointments &
		Promotions, Harvard Medical School
2013	Member	BWH Research Committee
		Brigham & Women's Hospital, Boston, MA

Professional Societies

1989 – 1992	Member	Waikato Postgraduate Society
1992 - Present	Member	Royal Australasian College of Physicians
1993 – 2003	Member	Paediatric Society of New Zealand
1994 – 2004	Member	New Zealand Perinatal Society
1995 – 2005	Member	International Society for Free Radical Research
1996 – Present	Active Member	Child Neurology Society
2000 – Present	Member	European Neonatal Brain Club
2001 – Present	Active Member	Society for Pediatric Research
2005 – Present	Active Member	Society for Magnetic Resonance Imaging in
		Medicine
2006 – Present	Active Member	American Academy of Pediatrics
2010 – Present	Active Member	American Pediatric Society

Editorial Boards – Scientific Advisory Boards

2003 – 2008	Consultant	Brainz Research, New Zealand
2010 - 2014	Member	Scientific Advisory Board, Masimo
		Technologies, Palo Alto, CA, USA
2007 –2015	Editorial Board	Journal of Pediatrics
2011 – 2019	Editorial Board	Journal of Neurodevelopmental Disorders
2016 – 2019	Member	Scientific Advisory, Square Roots Advocacy
		Organization for Pregnancy Wellbeing, D.C.
2017 – Present	Member	Aspect Imaging Advisory Board
2017 – Present	Member	149 Medical Advisory Board
2019 – Present	Member	Chiesi Farmaceutici Advisory Board
2019 – Present	Consultant	Shire/Takeda Pharmaceutical Company
2020 – Present	Scientific Advisory Board	Deck Therapeutics

Grant Review Activities:

National Institute of Health

Study Section/SEP	Study Section/SEP Name	<u>Meeting</u> <u>Class</u>	Attendee Type	<u>Attendee</u> <u>Class</u>	Meeting Date	SRO Name
ZNR REV	Pediatric applications	Video	Non-	Regular	2013/4/24	Dr. Tamiz
T15	NINR	Assisted	standing			'Chelvi'
		Meeting	member			Thyagarajan
ZNS1 SRB-	Program grant	Regular	Non-	Regular	2012/11/07	Richard
B(38)	applications		standing			Crossland
			member			
ZRG1 SBIB-P	SBIB Pediatric and	Video	Non-	Regular	2012/06/14	Weihua Rao
<u>(05)</u>	Fetal Applications	Assisted	Standing			
		Meeting	Member			
ZRG1 SBIB-V	SBIB Pediatric and	Video	Non-	Regular	2012/06/14	John Firrell
<u>(82)</u>	Fetal Applications	Assisted	Standing			
		Meeting	Member			

ZHD1 RRG-K	Patient-Oriented	Telephone	Non-	Teleconfe	2012/04/19	Anne Krey
<u>(92)</u>	Research Career	Assisted	Standing	rence		
	Development	Meeting	Member			
	Application					
ZHD1 DSR-	Mentored Training in	Regular	Non-	Teleconfe	2011/12/13	Carla Wells
<u>W (02)</u>	Executive		Standing	rence		
	Functioning (EF)		Member			
ZRG1 SBIB-V	SBIB Pediatric and	Editorial	Non-	Regular	2011/10/28	John Firrell
<u>(82)</u>	Fetal Applications	Board	Standing			
			Member			
ZHD1 RRG-K	Patient-Oriented	Regular	Non-	Teleconfe	2011/04/27	Anne Krey
<u>(51)</u>	Research Career		Standing	rence		
	Development Award		Member			
DBD	Developmental Brain	Regular	Non-	Regular	2018/02/01	Pat Manos
	Disorders Study		Standing			
	Section		Member			
ZRG1 BDCN-	Neurodevelopmental	Telephone	Non-	Teleconfe	2018/06/27	Pat Manos
<u>M (90)</u>	Disorders	Assisted	Standing	rence		
		Meeting	Member			
ZNSI SRB-A	Program Project	Telephone	Non-	Teleconfe	2018/10/17	Clariu, Ana
<u>(22)</u>	Grant P01	Assisted	Standing	rence		
		Meeting	Meeting			
ZRG1 BDCN-	Neurodevelopmental	Telephone	Non-	Teleconfe	2018/11/20	Pat Manos
<u>M (90)</u>	Disorders	Assisted	Standing	rence		
		Meeting	Meeting			
ZNS1 SRB-A	POI Reviewers	Regular	Standard	Standard	2019/0701	Ana Olariu
<u>(25)</u>	Meeting		Meeting	Meeting		
ZNS1 SRB-A	POI Reviewers	Regular	Standard	Standard	2019/0610	Ana Olariu
<u>(25)</u>	Meeting		Meeting	Meeting		
DBD	Developmental Brain	Regular	Standing	Regular	2018- current	Pat Manos
	Disorders Study		Study			
	Section,		Section			
			Member			

Additional Grant Review

Review for National organizations including the Medical Research Council of New Zealand, National Health and Medical Council of Australia, Swiss National Foundation, Medical Research Council of the United Kingdom. Review for the Doris Duke Charitable Foundation, Smart Tots Foundation, United Cerebral Palsy and the Thrasher Foundation.

Editorial Activities:

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- Peer Reviewer:
 - Pediatrics
 - Journal of Pediatrics
 - o JAMA
 - \circ Lancet
 - o Pediatric Research

- o Journal of Pediatrics and Child Health
- o Archives of Diseases in Childhood
- Annals of Neurology
- o Early Human Development
- Journal of Perinatology
- o Brain
- o Acta Pediatrica
- Proceedings of the National Academy of Sciences
- New England Journal of Medicine
- Neuroimage
- Neurology
- Other Editorial Roles:

2007 – 2015	Editorial Board	Journal of Pediatrics
2011 – Present	Editorial Board	Journal of Neurodevelopmental Disorders

Honors and Awards

1982	University Junior Scholarship		General Academic
1983	Stage 1 Psychology Prize (Janet	University of Otago, New	Psychology
	Ferguson Memorial Prize)	Zealand	
1983	Women's Federation Prize	University of Otago, New	Top female student in first
		Zealand	year of University
1984	Physiology Prize	Otago Medical School, New	Top mark in Physiology
		Zealand	
1985	Microbiology Prize, Sydney	Otago Medical School, New	Top mark in Microbiology
	Champtaloup Memorial Prize	Zealand	
1985	Junior Medical School Scholarship	Otago Medical School, New	Top aggregate grade in
		Zealand	third year of medical school
1985	Clinical Physiology Prize, John	Otago Medical School, New	Top grade in clinical
	Malcolm Memorial Prize	Zealand	physiology
1987	Pathology Prize, T.H. Pullar	Otago Medical School, New	Top grade in clinical
	Memorial Prize	Zealand	pathology
1987	Fowler Scholarship in Medicine	Otago Medical School, New	Top aggregate mark in
		Zealand	medical school class
1987	Renshaw Award	Otago Medical School, New	Top Summer Studentship
		Zealand	Project
1988	Staff Prize in Psychiatry	Otago Medical School, New	Highest grade in Psychiatry
		Zealand	
1988	Obstetrics and Gynaecology Prize	Otago Medical School, New	Highest grade in Obstetrics
		Zealand	and Gynaecology
1988	Alumnus Association Prize	Otago Medical School, New	Highest aggregate grade in
		Zealand	medical school class
1988	Travelling Scholarship in Medicine	Otago Medical School, New	Top graduate in medical
		Zealand	class
1989	Waikato Young Investigator Award	Waikato Hospital Board	Best presentation at annual
		Foundation	symposium

1992	Paediatric Research Fellowship	Masonic Lodge Fellowship,	Competitive Fellowship
		University of Otago	application
1993	New Zealand Paediatric Society	New Zealand Paediatric	Best presentation at annual
	Young Investigators Award	Society	symposium
1994	Australasian Perinatal Society	Perinatal Society of	Best presentation at annual
	Young Presenters Award	Australia and New Zealand	symposium
1995	Australasian Perinatal Society	Perinatal Society of	Best presentation at annual
	Young Presenters Award	Australia and New Zealand	symposium
1995	HRC Young Investigator Award	Health Research Council of	Competitive award in
		New Zealand	recognition of research
			potential
1999	Senior Research Fellowship	Health Research Council	Competitive fellowship to
		and New Zealand	protect research time
		Neurological Foundation	
1999	Clinical Resident Research Award	Society for Pediatric	Best presentation at annual
		Research	symposium
2004	Child Neurology Society (USA)	Child Neurology Society	Competitive research
	Young Investigator Award	(USA)	application with review of
			research potential
2004	Barry Smith Memorial Lectureship	Toronto Hospital for Sick	Invited lectureship
		Children	
2007	Paine Lectorship	Children's National	Invited lectureship
		Hospital, Washington DC	
2008	Charter Day Lecture	Trinity College, Dublin,	Invited lectureship
		Ireland	
2008	Dr. John J Fangman Lectureship	Children's Hospital,	Invited lectureship
		Minneapolis, MN	
2008	Doris Duke Distinguished Clinical	Doris Duke Charitable	Competitive mentoring
	Scientist Award	Foundation	award in recognition of
			research and mentoring
2011	Hugs for Hero's Award	St Louis Children's Hospital	Clinical Award in
		Foundation	recognition of clinical care
			and service
2012	Wendell Scott Lecture	Dept of Radiology,	Invited lectureship
		Washington University in	
		St. Louis	
2014	Mary Ellen Avery Professorship	Harvard Medical School	Endowed Chair
2015	Jewett Lecture	American College of	Invited Named Lectureship
		Obstetrics and Gynecology	
2016	Estrellita and Yousef Karsh Visiting	Children's Hospital of	Invited Professor
	Professorship	Eastern Ontario, Canada	
2017	Sam Darwish Memorial Lecture	University of Calgary,	Invited Lecture
		Canada	
2017	Finalist Schwartz National	Schwartz Center Boston	Award
201/	Compassionate Caregiver of the		
	Vear Award		

2019	American Health Council	Honors, America's Best	Award
		Doctors	
2021	Norman Kretchmer Visiting	Stanford University	Invited Professor
	Professor		
2022	A. Clifford Barger Excellence in	Harvard Medical School	Award
	Mentoring Award		
2022	Diana Woo Memorial Lecture	University of Chicago	Invited Professor

Report of Funded and Unfunded Projects:

Research Support:

Past

Years	Role	Funding Source	<u>If PI, Total</u>	
		Grant Type/#	<u>direct</u>	
1993 - 1996	Principal Investigator	Health Research Council of New Zealand	NZD\$125,000	
The Influence of Selenium Supplementation on Clinical Outcome in New Zealand Very Low				
Birthweight Infants - a Nationwide Randomized Controlled Trial.				

This study was a randomized controlled trial of selenium supplementation in the neonatal intensive care unit in a selenium deficient geographical area to evaluate the impact of neonatal outcomes, particularly chronic lung disease.

1993 - 1996	Principal Investigator	Health Research Council of New Zealand	NZD \$78,000	
Mechanisms of Free Radical Mediated Injury in Chronic Lung Disease in VLBW Infants.				

To measure the levels of free radicals including lipid peroxides in the endotracheal aspirates of preterm infants and relate these measures to clinical outcomes.

1999 - 2000	Principal Investigator	Canterbury Medical Research Foundation	NZD \$32,425
The Dia	agnosis of Periventricular V	White Matter Injury in the Premature Infant.	

This study undertook magnetic resonance imaging studies in preterm infants to define the nature of white matter injury.

1999 - 2000	Principal Investigator	Lottery Research Group	NZD \$39,385	
Measu	res of Free Radical Activity	in the Cerebrospinal Fluid of Premature Infant		
To measure the presence of any free radical activity with lipid and protein oxidative products in the CSF				
of premature infants and relate this to brain injury.				

1999 - 2001	Principal Investigator	Lottery Research Group	NZD \$122,893	
Quantitative Volumetric 3D Magnetic Resonance Imaging of the Premature Brain.				
To apply volumetric techniques on magnetic resonance imaging in preterm infants to gain insight into				
the impact of preterm birth on brain development.				

1999 - 2001	Principal Investigator	Health Research Council of New Zealand	NZD \$50,000	
Quantitative Volumetric 3D Magnetic Resonance Imaging of the Premature Brain.				
To acquire equipment to assist with the application of brain volume techniques in the newborn brain.				

1999 - 2001	Principal Investigator	Lottery Research Group	NZD \$77,206
Investi	gation of Hypoxic-Ischemic	: Injury in the Premature Brain	

To evaluate the utility of bedside limited channel electroencephalography in defining hypoxic-ischemic brain injury in the preterm infant.

2000 - 2001	Principal Investigator	Lottery Research Group	NZD \$70,000	
The Relationship of Measures of Spectral Edge to Brain Injury in the Premature Infant.				

To apply measures of upper spectral edge frequency to define preterm infants at risk for brain injury derived from continuous bedside limited channel electroencephalography in the first three days of life.

2000 - 2002	Principal Investigator	Health Research Council of New Zealand	NZD \$176,075	
The Correlation of Measures of Electroencephalographic Activity with Neurological Outcome in				
the Pre	emature Infant.			

To develop quantitative measures of brain function in the preterm infant using electroencephalographic activity and relate this to two-year outcomes.

2001 - 2002	Principal Investigator	Neurological Foundation of New Zealand	NZD \$55,000
New Bi	omarkers of Oxidative Stre	ess in Brain Injury in Premature Infants	

To investigate the application of new markers of protein and lipid oxidation in the blood, CSF and endotracheal aspirates of preterm infants in relation to morbidity.

2001 - 2002	Principal Investigator	Neurological Foundation of New Zealand	NZD \$65,000	
The Neurological and Developmental Outcome of Very Low Birthweight Infants at 2 years				
To complete the evaluation of developmental outcomes in preterm infants who had undergone				
advanced volumetric MRI studies to relate brain volumes to two-year outcomes.				

2002 - 2003	Principal Investigator	The Jack Brockhoff Foundation	AUD \$123,000	
Utilization of Advanced MRI Techniques in Understanding Altered Brain Development in the				
Premature Infant				
To apply more advanced imaging techniques including brain volumes, diffusion imaging and brain				
metrics for pilot data in the evaluation of the impact of preterm birth on brain development.				

2002 - 2004	Principal Investigator	United Cerebral Palsy Research and	USD \$100,000		
		Educational Foundation (USA)			
Unders	Understanding Brain Injury and Altered Brain Development in the Premature Infant - Insights				
Utilizing Advanced MRI Techniques.					
To apply more advanced imaging techniques including brain volumes, diffusion imaging and brain					
metrics in the evaluation of the impact of preterm birth on the motor systems that may result in the					
elevated risk of cerebral palsy in preterm infants.					

2002 - 2005	Principal Investigator	National Health and Medical Research	AUD \$495,000		
		Council, Australia			
The Ef	The Effect of Very Premature Birth on Brain Development				
To extend the application of magnetic resonance imaging (metrics, volumes, diffusion analysis) in 250					
preterm infants at the time of discharge from the neonatal intensive care unit to evaluate the impact of					
different therapies such as morphine or breast milk exposure on brain development.					

2003 - 2004	Co-Investigator	Australian Financial Markets	AUD \$85,000		
Early Ir	Early Intervention with premature Infants: Improving Medical, Neurobehavioral and Brain				
Functioning through Environmental Interventions.					
A pilot study to investigate the impact of training mothers in the neonatal intensive care unit to be more					
involved in the	involved in the care of their preterm infant to reduce stress in both the infant and the mother.				

2003 - 2006	Principal Investigator	National Health and Medical Research	AUD \$621,000		
		Council			
Improv	Improving the Outcome of Premature Infants - A randomized trial of preventative care at home				
A randomized controlled trial examining the neurodevelopmental impact at 2 years of age from 8 visits					
by a psychologist and physical therapist in the first year of life after discharge from the neonatal					
intensive care unit for 200 preterm infants.					

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2004 - 2007	Co-Investigator	National Health and Medical Research	AUD \$481,000	
		Council		
Insight	s into the Acute Cerebral L	esion of Childhood Diabetes and its Neuropsyc	hological	
Consequences				
A longitudinal magnetic resonance and neuropsychological evaluation of children who present with new				
onset type I diabetes – with and without ketoacidosis – with four evaluations in the first six months				
including pre-treatment, one-week post-treatment, 4 weeks and 6 months after diagnosis.				

2004 - 2007	Principal Investigator	National Institutes of Health	USD \$1,669,560		
		(NHLBI RO1 HL074942)			
Ventilation Modes and CNS Injury in Baboons with BPD.					
To evaluate the impact of diffgering ventilation modes on brain neuroimaging and histological findings in					
a primate model of neonatal intensive care.					

2005 - 2005	Principal Investigator	The Jack Brockhoff Foundation	AUD \$35,000
Utilizat	tion of advanced MRI Tech	niques - Transporting Sick Newborns	

The aim of this study was to develop equipment to stabilize infants during transfer to the MRI scanner for evaluation.

2005 - 2007	Co-Investigator	Australian Heart Foundation	AUD \$85,000		
Incidence and Timing of Neurological Abnormalities, and Influence on Outcome After Infant					
Cardia	Cardiac Surgery.				
This study was a multi-site observational study of 150 term born infants with congenital heart disease					
undertaking MRI scans and neurobehavior pre-operatively, post-operatively and at 3 months of age to					
define the natu	define the nature and timing of brain injury and alterations in brain development.				

2005 - 2008	Co-Investigator	National Research Council	AUD \$541,000	
Environmental Intervention with Premature Infants: Improving Medical, Neurobehavioral				
Development and Brain Functioning				

A randomized controlled study of the neurodevelopmental impact of a neonatal intensive care-based intervention for mothers and infants aimed to empower mothers in the care of their infants and reduce stress in the newborn infant.

2004- 2008	Principal Investigator	National Health and Medical Research	USD \$481,000	
		Council		
The ICE trial – A randomized trial of therapeutic hypothermia in term infants				
A randomized controlled trial to investigate the impact of therapeutic hypothermia using sport ice packs				
in term infants with hypoxic-ischemic encephalopathy.				

2007 - 2008	Principal Investigator	Australian Heart Foundation	USD \$181,000
Neona	tal Epileptic Seizures Cure	Kids Foundation	

A randomized controlled trial to investigate the role of monitoring for seizure activity in term infants with hypoxic-ischemic encephalopathy.

2007 - 2012	Co-Investigator	National Institute of Health (NINDS Sub Yale 07-0293)	USD \$16,583		
Genes Target for IVH					
Site investigator to co-ordinate the collection of biological samples to define genes that may increase the					
risk of intraven	risk of intraventricular hemorrhage in the preterm infant.				

2008 - 2011	Co-Investigator	NICHD R21 HD057512-01	USD \$275,000		
Optica	Optical Imaging of Brain Function in the Preterm Infant. National Institute of Health				

2008 - 2011	Co-Investigator	National Institute of Health	USD \$566,641	
		(NICHD R44-HD042872)		
EEG Monitoring in Term Infants with Encephalopathy.				
A SBIR grant aimed at developing new algorithms to define the extent and pattern of brain injury from				

electroencephalography in term infants with hypoxic-ischemic encephalopathy.

2008 - 2014	Principal Investigator	National Institute of Health	USD \$1,774,647		
		(NICHD RO1 HD058056)			
Neurol	Neurobehavioral Impairments in Preterm Children - A Longitudinal MR Study.				
This study follows our original cohort of 227 preterm infants and 100 term born control infants who					
underwent MRI at the time of discharge from the NICU. These children have been followed with >90%					
success at 2 and 5 years. This grant funded the follow up and repeats MR imaging at 7 years of age with					
more advanced techniques to track longitudinal change in brain development through childhood and the					
relationship to outcomes. A competitive renewal was submitted with a score of 20 and will be revised for					
resubmission in	resubmission in the next two weeks.				

2008 - 2014	Principal Investigator	Doris Duke Distinguished Clinical Scientists Award	USD \$1,500,000	
Understanding Brain Injury and Development in At-Risk Infants to Improve Outcomes				
This study explored the relationship of the neural progenitor population at the subventricular zone to				
outcomes in preterm infants. This grant also aimed to provide >50% of its resource toward mentorship				
and support fo	r fellows and junior faculty	<i>.</i>		

2009 - 2014	Principal Investigator	NICHD RO1HD057098	USD \$2,661,684
Unders	tanding Neurobehavioral	Deficits in Preterm Infants Through Imaging	

This study aims to define the nature and timing of alterations in brain development utilizing cortical cartography, diffusion and volumetry with serial MRI throughout the course of the NICU period. Infants receive between 2-4 scans prior to discharge and are followed up to 5 years for neurodevelopmental outcome.

2010 - 2014	Co-Investigator	National Institute of Health (NICHD RO1	USD \$3,307,399
		HD061619 PI: Cahill/Macones)	
			-

Predicting Fetal Acidemia with Intrapartum Electronic Fetal Heart Rate Monitoring. This study aims to correlate the electronic fetal heart monitoring patterns from 5,000 labors to cord pH. In addition, a subset of 200 infants – 50 with acidemia and 150 controls without acidemia – underwent MR imaging to understand the relationship of cord pH to brain injury. These images will also be studied

for the relationship of maternal exposures to brain development.

2010 - 2015	Principal Investigator	National Institute of Health (NICHD P30HD062171)	USD \$4,555,033	
Washington University Intellectual and Developmental Disabilities Research Center.				

This grant is a new Intellectual and Developmental Disabilities Research Center with research focus will be on cerebral connectivity, genetics and environmental influences. More than 60 investigators from 12 university departments are involved in the center's research with use of the four Core services in Imaging, Translational Animal Models, Biostatistics and informatics and Phenotyping.

2010 2010	Duin air al lucca ati anta a	CDICO Creat Dragman /		
2016-2019	Principal Investigator	CRICO Grant Program/	USD \$406,318	
		Risk Management Foundation		
Implement	ation of optimal neuropro	tection in the term born infant with encephalo	pathy	
The treatm	The treatment of infants with mild HIE is currently an area of confusion and contention in			
neonatology. This study will perform early cerebral MRIs on a cohort of infants that were evaluated				
for hypoth	for hypothermia, but determined not to require treatment, and on a small cohort of healthy infants			
for control data. The cerebral MRI findings between these infants will be compared to those that				
were screened for TH and treated in-order to evaluate the sensitivity of current eligibility criteria for				
therapeutic hypothermia.				

2017-2018	Co-Investigator	SPS216730 - The Robertson Foundation-	USD \$34,500		
		Duke University consortium (Kurtzberg)			
A phase II i	A phase II multi-site study of autologous cord blood cells for hypoxic ischemic encephalopathy (HIE)				
This is Multicenter Phase 2 RCT to evaluate the effect of transfusing volume and red cell reduced					
autologous	autologous cord blood (rich in mononuclear cells) in improving the outcome of babies with moderate				
to severe encephalopathy receiving therapeutic hypothermia. Each baby will receive 1-2 transfusions					
in the first 48 hours of life. The primary outcome is survival and neurodevelopmental outcome at one					
year of age.					

2001 - 2019	Co- Investigator	NICHD5R01HD076258 – NIH-Boston	USD\$38,342	
		Children's consortium (Grant)		
Perinatal Brain Injury: Potential of innovative NIRS to optimize hypothermia				
Neonatal encephalopathy continues to cause significant morbidity and the lack of a bedside tool to				
assess newborn brain health limits progress in neonatal care that could improve				

neurodevelopmental outcomes. The overall goal of this proposal is to determine if FDNIRS-DCS can screen for acute neonatal encephalopathy, assess response to treatment and predict outcomes in a population of at-risk neonates

2017-2020 Principal Investigator Brigham Research Institute Transformative USD \$287,500 Award				
Award				
Healthy Starts to Life - Transformative Award in Newborn Research				
This study proposes to build a new neonatal and childhood research platform, that will both expand				
on the existing LIFECODES platform alongside more in-depth pipelines for targeted populations of				
high-risk infants. LIFECODES is one of the nation's largest pregnancy cohort studies with an extensive				
biobank of samples collected during pregnancy to research biomarkers of pregnancy complications				
including preterm birth and preeclampsia. To date, limited neonatal and no childhood data has been				
collected for these pregnancies.				

 2014-2021
 Principal Investigator
 POM Wonderful LLC
 USD \$750,000

 Impact of maternal pomegranate ingestion on brain growth and development in infants with inutero growth restriction.
 USD \$750,000

The objective of this research is to study the impact of maternal pomegranate ingestion on brain growth and development in infants with in-utero growth restriction.

2019-2022	Principal Investigator	Deborah Monroe Noonan Memorial Fund	USD \$25,000	
		Research Grant		
Optimizing therapeutic hypothermia eligibility criteria				
This study aims to compare cerebral MRI findings between three groups – infants who were				
screened for TH and treated, those who were screened for TH and not treated, and healthy controls.				

2020-2022	Co-Investigator	NIH – 3R34DA050289-01S2 (Nelson)	USD \$53,535		
The Cumu	The Cumulative Risk of Substance Exposure and Early Life Adversity on Child Health Development				
and Outco	mes				
The COVID	-19 pandemic has reached	nearly every continent across the globe with a	a profound impact		
in the Unit	ed States. There is limited	information regarding the susceptibility of pre	gnant women to		
experience	experience more severe illness, with corresponding implications for their child. While there is				
uncertainty surrounding the evidence of vertical transmission, consequential stress of contracting					
the infection while pregnant may pose a unique set of challenges for new infants and mothers in the					
current global, national, and local environments. Beyond the physical effects of the illness,					
contracting the virus during pregnancy is undoubtedly stressful.					

Current

2017-2023	Principal Investigator	CRICO Grant Program/	USD \$200,000		
		Risk Management Foundation			
Optimizing	Optimizing the diagnoses of cerebral injury in newborn infants with mild neonatal encephalopathy				
The treatment of infants with mild HIE is currently an area of confusion and contention in					
neonatology. This study will perform early cerebral MRIs on a cohort of infants that were evaluated					
for hypothermia, but determined not to require treatment, and on a small cohort of healthy infants					
for control data. The cerebral MRI findings between these infants will be compared to those who					

were screened for TH and treated in order to evaluate the sensitivity of current eligibility criteria for therapeutic hypothermia.

с . I I · Iс.					
for extreme low-birth-weight infants	DCS cerebral blood flow monitor for extreme low-birth-weight infants				
iffuse correlation spectroscopy (DCS) system	optimized for				
ral blood flow index in extremely premature i	nfants. The successful				
development, validation and demonstration of clinical feasibility and effectiveness of our proposed					
technology will lead to new patient management approaches for reducing neurological injury,					
protecting neurocognitive function, and reducing the overall morbidity and mortality associated with					
prematurity.					
ן ד כ	liffuse correlation spectroscopy (DCS) system or ral blood flow index in extremely premature in nonstration of clinical feasibility and effectiver ent management approaches for reducing neu on, and reducing the overall morbidity and mc				

2019-2023	Principal Investigator	Charles H. Hood Foundation Major Grant -	USD \$450,000		
		Child and Adolescent Mental Health			
The evolut	ion and consequences of p	perinatal ischemic brain injury			
Hypoxic-iso	Hypoxic-ischemic encephalopathy (HIE) is the most common form of neonatal brain injury,				
contributing to 25% of newborn deaths worldwide. This study aims to 1) define the nature of the					
temporal evolution of a perinatal ischemic brain injury, including its secondary impact on brain					
development, in term-born infants with HIE receiving therapeutic hypothermia compared to typical					
control infants; and 2) define the relationships between brain injury, subsequent cerebral					
development and neurodevelopmental outcome.					

2019-2024	Co-Investigator	NIH – R01HD097327 (Belfort)	USD \$3,796,466		
Targeting h	Targeting human milk fortification to improve preterm infant growth and brain development				
This study	will test an innovative stra	tegy to individually target human milk fortifica	tion and		
eliminate r	nacronutrient intake defic	its during the neonatal intensive care unit hos	pitalization, which		
is a critical	period for brain developm	ent in the very preterm infant. We will test the	e effects of this		
interventio	on on physical growth and	body composition, early brain development as	sessed by MRI,		
and a rang	and a range of neurodevelopmental outcomes at 2 years corrected age. The overall goal is to identify				
pragmatic	nutrition-based clinical str	ategies for neonatal intensive care that improv	ve long-term		
health and	health and neurodevelopmental outcomes for the ~63,000 very preterm infants born each year in				
the U.S. and many more worldwide.					
2019-2023	Principal Investigator	NIH – R/3NIS110337 (7immermann Inder)	115D \$556 270		

2019-2023	Principal Investigator	NIH – R43NS110337 (Zimmermann, Inder)	USD \$556,270		
Developm	Development and evaluation of diffuse correlation spectroscopy to monitor cerebral blood flow and				
detect intr	aventricular hemorrhage i	n extremely premature infants			
This projec	t aims to develop a novel r	near-infrared diffuse correlation spectroscopy	(DCS) system		
optimized	optimized for monitoring of the cerebral blood flow index in extremely premature infants. The				
successful	successful development, validation and demonstration of clinical feasibility and effectiveness of the				
proposed technology will lead to new patient management approaches for reducing neurological					
injury, protecting neurocognitive function, and reducing the overall morbidity and mortality					
associated with prematurity.					

2022-2027	Principal Investigator	NIH – <u>1UG3NS126701-01</u>	\$12,332,340.00		
Thyroxine Treatment in Premature Infants with Intraventricular Hemorrhage: Phase III Clinical Trial					
(Scored SE	(scored SEP 33% impact JT, awaiting council review of resubmission)				

Intraventricular hemorrhage (IVH) remains a major complication of prematurity and the survivors of IVH suffer from cerebral palsy, cognitive deficits, and neurobehavioral disorders. We propose a Phase III multicenter randomized controlled trial of thyroid hormone treatment in extremely premature neonates (23- 28 weeks gestation) with grade II-IV IVH to enhance their neurodevelopmental outcome. We will perform post-discharge MRI of brain at 44±1 weeks of postmenstrual age and assess neurodevelopmental outcome at 2 years of age. The study will conclusively determine whether the T4 treatment enhances motor outcome and diminishes composite endpoint of death or disability in preterm infants with grade II-IV IVH.

2022 - 2027	Principal Investigator	National Institute of Health	USD \$4,774,647	
		(NICHD RO1 HD058056-02)		
Neurol	oehavioral Impairments	in Preterm Children - A Longitudinal MR Study.		
This study follo	ws our original cohort c	of 227 preterm infants and 100 term born contro	l infants who	
underwent MR	I at the time of discharg	e from the NICU. These children have been follo	wed with >80%	
success at 2, 5,	7 and 13 years with pre	vious MR imaging at term equivalent, 7 and 13 y	ears confirming	
the impact of preterm birth on altered brain development. This grant will fund the follow up and repeat				
MR imaging at 20 years of age with more advanced techniques, including impact on cerebrovascular				
architecture for the first time, to track longitudinal change in brain development through childhood and				
the relationship to outcomes. Finally, risk factors for early cognitive decline including characterization of				
Epo2 and 4 sta	tus will be defined to co	mmence investigation of the impact of preterm	birth on risk for	
early cognitive decline.				

Teaching and Training:

Teaching of Students in Courses

U			
2007 - 2013	Lectures	Bio 4156	2 sessions
Principles and	Principles and Application of Imaging Sciences		

2007 - 2013	Lectures	Bio 1015	2 sessions
Application of Neurobiological Principles			

2007 - 2013	Lectures	Chem 181	1 session
Freshman Cher	mistry Research Seminar Se	eries	

Supervise on average three undergraduate students and three medical students for upto 12-month programs in clinical research each year.

Teaching of Residents, Clinical Fellows and Research Fellows

2007 - 2013	Lectures	Newborn Medicine Fellowship Program	1 session
Neonatal Neur	ology and brain injury		

2007 - 2013	Bedside teaching	Newborn medicine and Neurology	monthly	
	rounds	residents and fellows		
Examination and review of imaging and pathophysiology for 1-2 infants with neonatal neurological				
disorders in the NICU				

2014 -2022	Didactic Resident	Newborn medicine and Neurology	6 sessions
	Teaching	residents and fellows	
Neonatal Neurology and Brain Injury			

2014- 2022	Bedside teaching	Newborn medicine and Neurology	20 sessions	
	rounds	residents and fellows		
Neonatal Neurology, Examination of the newborn and understanding of diagnosis and treatment of				
common neonatal neurology conditions				

2014-2022	Harvard-MIT Health	Neuroprotection for the Newborn	1 session	
	Sciences & Technology			
Neonatal Neurology, Examination of the newborn and understanding of diagnosis and treatment of				
common neonatal neurology conditions				

Clinical Supervisory and Training Requirements

Professor in Pediatrics responsible for teaching newborn medicine, child neurology, and neonatal neurology of medical students, residents and fellows. Additional responsibilities in assisting residents and fellows in research in the field of neonatal neurology.

Formally Supervised Career Development Trainees

1. Mentored Career	Name and Degree	Current Title	
Development Awardees			
2008 – 2015	Steve Liao, MD	Assistant Professor, Newborn Medicine,	
		Washington University, St. Louis, MO	
Institutional KL2 career development award. Completed Master's in Clinical Investigation. Successful Loan			
Repayment Program (NIH). Acado	emic clinical investigator		

2008 – current	Christopher Smyser, MD	Professor, Neurology
		Washington University, St. Louis
Awarded K02 2014 – 2019.		

Successful Loan Repayment Program (NIH)

2009 – current	David Limbrick, MD, PhD	Professor, Dept of Neurosurgery,
		Chief of Pediatric Neurosurgery,
		St Louis Childrens Hospital.
		Washington University, St. Louis, MO
Mentor for K23 Award from NINDS.		
Created National Hydrocephalus Center.		
Successful Loan Repayment Program (NIH)		

Principal Investigator and co-investigator multiple R Awards

	r	
2009 – Current	Cynthia Ortinau, MD	Assistant Professor, Newborn Medicine,
		Washington University, St. Louis, MO
Successful funding application for three-year Foundation support.		
Institutional KL2 career development award		
Successful Loan Repayment Program (NIH)		
Mentor for 2018-2023 K23 award.		

	Division Director, Child Psychiatry	
	Washington University, St. Louis, MO	
Institutional KL2 career development award.		
K23 award 2014-2018 with Loan Repayment Program (NIH)		
2016- current Principal Investigator multiple R Awards National Institute of Health		
a y i	ward. ment Program (NIH) Iltiple R Awards Nation	

2010 – current	Roberta Pineda, PhD, OTR/L	Assistant Professor, Occupational Therapy, University of Southern California
Institutional K12 career development award.		
2021 Principal investigator National Institute of Health R01		

2014- current	Brian Walsh	Assistant Professor, University of Cork, Ireland
2014 T32 Mentored Clinical Research Award		
2018 CRICO Professional Organization Project Grant Award		
2020 National Irish Health Council Investigator Award		

2015-current	Rimi Sen, MD	Assistant Professor, Pediatric Newborn Medicine, Brigham & Women's Hospital, Boston, MA
K23 Mentored Clinical Research Award - Advisory Group		
Massachusetts Life Sciences Major Award		
National Institute of Health R Award		

2018-current	Cindy Liu, PhD	Assistant Professor, Pediatric Newborn Medicine, Brigham & Women's Hospital,
		Boston, MA
Mentor of K23 Mentored Clinical Research Award		

2018-current	CC Lee, MD	Associate Professor, Pediatric Newborn Medicine, Brigham & Women's Hospital, Boston, MA
Mentor of K23 Mentored Clinical 2022 Successful two R01-Awards		

2019 – current	Carmen Monthe-Dreze	Instructor, Pediatric Newborn Medicine,
	MD	Harvard Medical School, Boston
NIH Diversity Career Development Award. Harvard Medical School Diversity and Inclusion Career		
Development Award. Successful Loan Repayment Program (NIH)		

2018 – current	Mohamed El-Dib, MD	Assistant Professor, Pediatric Newborn
		Medicine, Brigham & Women's Hospital,
		Boston, MA
Funded clinical investigator focused in neonatal neuroscience		

2018 – current	Carmina Erdei, MD	Assistant Professor, Pediatric Newborn
		Medicine, Brigham & Women's Hospital,
		Boston, MA
Funded clinical investigator dual boarded neonatologist and developmental pediatrician		

2. PhD Students	Name and Degree	Current Title
2003 – 2007	Nisha Brown, PhD	Research Fellow, UOM
PhD awarded 2007. Remains active Research Fellow in Neonatal Neurobehavior		

2003 – 2007	Rodney Hunt, PhD	Division Director, Royal Children's Hospital
PhD awarded 2007. Division Director Newborn Medicine Royal Children's Hospital, Melbourne		

2004-2009Deanne Thompson, PhDScientist, NHMRC FellowshipPhD Awarded 2009. Director of Imaging Analysis Laboratory Murdoch Children's research Institute,
Melbourne supervising several trainees. Recognized as Research Fellow by the National Health and
Research Council

2004 – 2010	Divyen Shah	Senior Lecturer, Queen Mary University of
		London
PhD awarded 2009. Active academic appointment in London. Completed 12 manuscripts related to PhD		
work		

2005 – 2009	Jason Hill, MD, PhD	Pediatric Resident, Columbia, New York City
Manuscripts in Cerebral Cortex and Journal of Neuroscience. PhD Awarded 2009		

2005 – 2009	Alicia Spittle, PhD	NHMRC Research Fellow, UOM	
Eight manuscripts. PhD Awarded 2009. L'Oreal Scientific Finalist Australia. Independent Funding for salary			
and ongoing research			

2006 – 2010	Andrew Knutsen, PhD	NIH Fellowship
PhD awarded 2010. Postdoctoral Research Fellow at the National Institute of Health		

2006 – 2010	Jennifer Griffith, MD,	Pediatric Neurology Fellow, Washington
	PhD	University, St. Louis, MO

PhD Awarded 2010. Completed two manuscripts

2006 - 2010	Timothy Mitchell, PhD	Postdoc, Washington University, St. Louis,
		MO
PhD Awarded 2010. Completed two manuscripts. Postdoctoral Fellowship being undertaken		

2008 - 2013	Joan Smith, PhD	Nurse Practitioner, St. Louis Children's	
		Hospital	
PhD Awarded 2013. Completed two manuscripts. Recognized as PhD nurse leader for institution			

2008 - 2013	Yuning Zhang, PhD	Washington University, St. Louis, MO
PhD Awarded 2013. Teaching position at University of Virginia		

Invited Presentations – Local, National and International Presentations:

Local

1999	New Perspectives on Brain Injury in Neonates	Need
24th Aust	ralian and New Zealand Conference in Pediatric and Neonatal	Symposium
Intensive Care, Christchurch, New Zealand		

2000	A Window into the Neonatal Brain.	Grand Rounds
Starship Children's Hospital, Auckland, New Zealand		

2001	Neuromuscular Disorders in Children	Grand Rounds
Starship C	hildren's Hospital, Auckland, New Zealand	

2003	Is it Birth Asphyxia?	Symposium
Hopkins Symposium 2003, Royal Children's Hospital, Melbourne		
Australia		

2003	Pathogenesis of the Major Neuropathologies in the	Symposium
	Preterm Brain.	
Nurturing Neonatal Neurons Kitchen Scholar Symposium.		
Melbourne		

2003	Advanced MRI Techniques	Symposium
Nurturing Neonatal Neurons Kitchen Scholar Symposium.		
Melbourn	e	

2004	Continuous EEG monitoring in the PICU	Symposium
Australasian Intensive Care Meeting Melbourne		

2005	The Journey in Understanding Cerebral Injury in the	Grand Rounds
	Newborn Brain	
Royal Women's Hospital, University of Melbourne		

2005	Insights in vivo for the At-Risk Newborn Brain	Pediatric Grand Rounds
Washington University St. Louis, USA		

2005	Defining in-vivo the At-Risk Newborn Brain	Grand Rounds
St. Louis Children's Hospital. Washington University, St. Louis, USA		

2005	Seizures in the Newborn - Who? Why? And What Next?	Teaching Seminar
Early Bird Pediatric Conference, St. Louis Children's Hospital		

2006	New Advances in Understanding Injury and Altered	Teaching Seminar
	Development in the Brain of the Preterm Infant.	
Perinatal Meeting, Barnes Jewish Hospital, St. Louis		

2006	Insights into Injury in the Newborn Brain - Where and	Seminar Series
	Why? Hope Center for Neurological Diseases	
Washington University, St. Louis		

2006	Mechanisms of Injury in the Newborn Brain -	Symposium
	Understanding the Basics of Lesional Neuropathology -	
	Who, When, and Why?	
Newborn	Brain Symposium, St. Louis Children's Hospital	

2006	Understanding Cerebral Injury, It's Recognition of	Symposium
	into my clinical practice in 2006	
Newborn	Brain Symposium. St. Louis Children's Hospital	

2008	Insights into Injury and Abnormal Development in the	Seminar
	Newborn Brain	
Clinical Pediatric Update. Washington University		

2009	Inside the Newborn Brain - The Application of MR	Symposium
	imaging in Evaluation of Brain Injury and Development	
Washington University Imaging Retreat		

2012Advances in Caring for the Newborn Brain, SANS SpeakerSymposiumAmerican Society for Pediatric Neurosurgery, St. Louis, MO

2012	The Application of Advanced Imaging Methods to the	Seminar Series
	Developing Brain	
Department of Psychiatry Research Presentation, Washington		
University		

2015 Changing Guidelines for HIF Symposium
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District Meeting – American College of Obstetrics and Gynecology –	
Jewett Lectureship	

2015	Alterations in Brain Development in the Preterm Infant	Symposium
Child Neurology Grand Rounds: Barlow Lecture, Massachusetts		
General Hospital, Boston, MA		

2015Imaging Insights in the Newborn BrainSymposiumBrain Map Symposium, Martinos Center, Massachusetts General
Hospital, Boston, MAImaging Insights in the Newborn Brain

2015	Therapeutic Hypothermia – The old, the new and the	Grand Rounds
	cool	
OB/GYN Grand Rounds, Brigham & Women's Hospital, Boston MA		

2015Why building a Better Brain is ImportantSymposiumDiscover Brigham Day, Brigham & Women's Hospital, Boston, MA

2015	Early Sensory Experience & Brain Structure Function	Symposium
Harvard Catalyst Child Health Symposium Plenary, Harvard Medical		
School, Boston, MA		

2015	Therapeutic Hypothermia in Neonatal Encephalopathy	Grand Rounds
OB/GYN Grand Rounds, Newton Wellesley Hospital, Wellesley, MA		

2016	aEEG maturation and applications in Preterm infants Cases of aEEG use in preterm infants and complex clinical conditions	Keynote Speaker
Departme	nt of Pediatric Newborn Medicine (BWH) Neonatal aEEG	
Workshop		

2017	"Therapeutic Hypothermia in Neonates"	Grand Rounds
BWH OB Grand Rounds, Brigham & Women's Hospital, Boston, MA		

2017	NICU Didactic for OB/GYN Residents	Lecture
1. Premat	ure babies - brain injury, altered brain development,	
2. neurodevelopmental outcomes etc. for preterm 2. Term babies –		
3. hypothermia and outcomes for HIE		
BWH OG/0	BWH OG/GYN Residents, Brigham & Women's Hospital, Boston, MA	

2017	The effects of Hypoglycemia on the developing brain	Grand Rounds
BWH Pediatric Newborn Medicine Grand Rounds, Brigham &		
Women's Hospital, Boston, MA		

2017	Protecting the Newborn Brain	Grand Rounds
St. Elizabeth Medical Center , Boston, MA		

2017	The Influence of NICU Experience on Brain Development	Keynote Speaker
	in Preterm Infants	
Harvard Neonatal Epidemiology Conference, Boston, MA		

2017	Department of Pediatric Newborn Medicine: 2017	Grand Rounds
	Onward	
BWH, Department of Pediatric Newborn Medicine		
Brigham & Women's Hospital, Boston, MA		

2017	Department of OB/GYN – Maternal Fetal Medicine	Keynote Speaker
Protecting the Newborn Brain		

2017	aEEG Maturations and Applications in Premature Infants	Keynote Speaker
	Brain MRI In Preterm Infants	
New England Neonatal aEEG and Neuroimaging Workshop, Boston,		
MA		

2018	The Influence of the NICU Experience on Brain	Grand Rounds
	Development in Preterm Infants	
Beth Israe	l Deaconess Medical Center, Boston, MA	

2018	The Impact of Environment & Exposure on Brain	Grand Bounds
2010	Development in the Promature Infant	
	Development in the Fremature infant.	
Pediatric (Grand Rounds / Boston Medical Center, Boston, MA	

2018	Advances in the NICU – neurological development,	Keynote Speaker
	management and outcomes	
Advances	in NICU Feeding Management, 3-day workshop, Boston,	
MA		

2018	Advances in Understanding the Newborn Brain – Injury	Keynote Speaker
	and Protection	
Pentucket	Medical Associates – Journal Club	

2018	2018 Department of Pediatric Newborn Medicine	Grand Rounds
	Review	
Brigham 8	Women's Hospital, Boston MA	

2018	Therapeutic Hypothermia in the Newborn	Keynote Speaker
	Pathways to Safer Care, CRICO Hub Week, Boston, MA	

2018	The Science of Pain – The Newborn	Keynote Speaker
HMS Med	ia Fellowship, Brigham & Women's Hospital, Boston, MA	

2018	Therapeutic Hypothermia – Cooling and	Keynote Speaker
	Evidence of Impact on Outcome?	
CRICO Law Day December 7		

2018	"Seizures in the Newborn – What we know and don't	Grand Rounds
	know in 2018"	
Brigham 8	Women's Hospital, Boston, MA	

2019	Brain Injury and altered brain development in the preterm infant — insights to alter NICU practice to	Keynote Speaker
	improve outcomes	
Columbia	University Irving Medical Center, New York	

2019	Advances in the NICU – neurological development,	Keynote Speaker
	management, and outcomes	
Advances in NICU Feeding Management Workshop, BWH, Boston,		
MA		

2019	Preterm Birth and Neonatal Brain Injury	Keynote Speaker
New Engla	and Perinatal Society: 2018 Scientific Meeting, Newport	
Rhode Isla	nd	

2019	Protecting the Newborn Brain	Keynote Speaker
Boston Children's Hospital – Resident Lecture Series		
Boston, MA		

2019	Neurodevelopmental Disorders Symposium (Boston Children's Hospital)	Speaker
Measuring, Forecasting and Reducing Stress for Healthy Brain Development and Mental Health		

2020	Brigham & Women's Hospital, Department of Pediatric	Grand Rounds
	Newborn Medicine Grand Rounds	
The State	of the Department of Pediatric Newborn Medicine 2020	

2020	Newborn Brain Society & Brigham & Women's Hospital	Grand Rounds
	Department of Pediatric Newborn Medicine Grand	
	Rounds	
Clinical Us	e of MRI in the Preterm Infant	

2020	Neurology Seminar Series Brigham & Women's Hospital	Neurology Seminar Series - Virtual Speaker
Balancing Maternal Health and Fetal Risk in Epilepsy: Dual or		
Dueling Exposure Considerations		

2020	Neurology Seminar Series Brigham & Women's Hospital	Neurology Seminar Series - Virtual
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		Speaker
Balancing Maternal Health and Fetal Risk in Epilepsy: Dual or		
Dueling Exposure Considerations		

2020	Newborn Brain Society	Neurology Seminar Series - Virtual Keynote Speaker
Insights into the Pathways to Adverse Neurodevelopmental		
Outcomes in the Preterm Infant?		

2020	Boston Children's Hospital, Boston MA	Newborn Medicine Summer
		Conference Series - Virtual
		Keynote Speaker
Neonatal	Encephalopathy	

2021	Boston Children's Hospital, Boston MA	BCH Fellows Core Curriculum
		Series Virtual
		Keynote Speaker
	Burnout & Culture at BWH	
2021	Boston Children's Hospital, Boston MA	BCH Fellows Core Curriculum
		Series Virtual
		Keynote Speaker
Therape	eutic Hypothermia and Care of Neonatal Encephalopathy	

2022	Boston Children's Hospital, Boston MA	Newborn Medicine Summer
		Conference Series - Virtual
		Keynote Speaker
Neonatal	Encephalopathy	

2022	University of California, Irvine	Newborn Medicine Fellows Conference series
Brain Injury in the Newborn		

2023	Intraventricular Hemorrhage Insights into Reduction	Invited Lecture
Nursing Ed	ucation Childrens Hospital Orange County	

2023	Therapeutic Hypothermia - Who and Why	Invited Lecture
Neuroprotection Education Sessions for Nursing and Physicians		
Childrens Hospital Orange County		

Regional

1999	Asphyxia and Neuro-imaging.	Symposium
The Perinatal Society of New Zealand National Conference,		
Wellington, New Zealand		

2000	Mechanisms of Brain Injury in the Premature Infant -	Symposium
	Identification of the High-Risk Infant.	
The Perinatal Society of Australia and New Zealand, Brisbane,		
Australia		

2012	Neurodevelopmental Outcomes in Preterm Infants	Seminar
Thompson Center Colloquium, Columbia, MO		

2012	Neuroprotection in the Newborn Brain.	Symposium
Missouri Valley Child Neurology Colloquium		

2012	Being Born Too Early or Too Small – Impact on Brain	
	Development and Outcome	Symposium
HCA Conference Overland Park, Kansas City		

2013	Improving Outcomes in Preterm Infants	Symposium
Laura Trainor Neonatal Research Day, Brigham & Women's Hospital,		
Boston		

2014	Improving Neurological outcomes in High Risk Infants	
		Symposium
Harvard Medical School of Public Health, Boston		

2014	Neuroprotection in Neonatal Encephalopathy in the	
	Term Infant	Symposium
Grand Rounds, Department of Obstetrics & Gynecology,		
Massachusetts General Hospital, Boston		

2014	Neuroprotection – The Future is Here	
		Symposium
Combin	ed Pediatric and Obstetric Gynecology Grand Rounds –	
Newton Wellesley Hospital, Newton		

2014	Therapeutic Hypothermia	Symposium
Obstetrics and Gynecology Grand Rounds, Brigham & Women's		
Hospital, Boston		

2014	Neuroprotection in the Term Infant	
		Symposium
Grand Rounds Department of Newborn Medicine, Brigham &		
Women's Hospital, Boston		
2014	Neuroprotection for the Newborn	
		Symposium
Reproductive Biology Fall Seminar, Harvard MIT Health Sciences,		
Boston		

2015	Impacting the High-Risk Newborn Brain, Who, How,	
	When	Grand Rounds
MGH Neurology Grand Rounds, Barlow Lecture		

2015	Cocktails and Ice – Therapy for Neonatal Encephalopathy	Grand Rounds
Annual March Course – Department of OB/GYN, Brigham &		
Women's Hospital, HMS		

2015	Changing Guidelines for HIE	Symposium
District Meeting – American College of Obstetrics and Gynecology –		
Jewett Lectureship		

2015	Outcomes of VLBW Infants	Symposium
Bresnan Course – Harvard Medical School		

2015	MRI Imaging in the High-Risk Brain – to be or not to be	Keynote Speaker
Annual Ne	ew England Conference on Prenatal Research	

2015	MRI Imaging in the High-Risk Brain – to be or not to be	Keynote Speaker
Annual New England Conference on Prenatal Research		
2021	My journey in my career – a discovery in the newborn	Keynote Speaker
	brain	
Brigham and Women's Summer Student Presentation, July 2021		

2022	Improving Neurological Outcomes in the preterm infant	Keynote Speaker
Academic Day for Neonatologists, Irvine, CA November 2022		

2023	Mild Encephalopathy - to Cool or not to Cool	Invited Lecture
California Association of Neonatologists		

National

2002	MRI in Infancy	Grand Rounds
Grand Rounds, Princess Margaret Hospital, Perth, Western Australia		

2002	Altered Brain Development in the Premature Infant?	Grand Rounds
Telethon Child Health Institute, Perth, Western Australia		

2002	New Insights into Post-Hemorrhagic Hydrocephalus in	Symposium
	the Newborn	
Pediatric Neurosurgeons Australasian Meeting		

2003	Brain Injury in the Preterm Infants: Recent Discoveries in	Pediatric Grand Rounds
	Neuroimaging. Perinatal Brain Injury: pathophysiology	
	and clinical aspects.	

Symposia in Pediatric Neurology - Neuroprotection in the Neonate.	The T.Y. Nelson Department of
The Children's Hospital, Sydney	Neurology

2003	Minding the at-Risk Infant Brain - Insights Utilizing MR/EEG	Pediatric Grand Rounds
Washington University, St. Louis, USA		

2004	The Preterm Infant: What can we do to Optimize	Symposium
	Neurodevelopmental Outcomes?	
Perinatal Society Australia and New Zealand Regional Meeting,		
Queensland		

2004	Outcomes of Neonatal Epilepsy	Symposium
Epilepsy Society of Australia. Sydney		

2005Cerebral Injury in the Preterm Infant.SymposiumNeoprep American Academy of Pediatrics San Diego

2005	State of the Art in Neonatal Encephalopathy	Symposium
Vermont Oxford Neonatal Annual Meeting, Washington DC		

2006	Research with Bedside EEG Monitors	Symposium
1st International Conference on Neonatal Brain Monitoring.		
Florida, USA		

2006	Monitoring the Preterm Brain-Harvard Neonatal	Grand Rounds
	Medicine Program	
Beth Israel Hospital		

2006	MR Imaging in the Preterm Infant	Symposium
Pediatric A	Academic Societies Plenary Session	

2006	The Newly Born Anzus Alliance	Symposium
Volpe Symposium Boston, USA		

2006	aEEG Monitoring	Web based teaching seminar
Vermont Oxford Network web-based training		

2006	Understanding the Target in Neuroprotection in the Preterm Brain	Symposium
Hershey C	onference Developmental Brain Injury, Princeton	

2006	Neonatal Brain Monitoring	Symposium
Child Neurology Society Pittsburg, USA		

2006	MRI Insights into the Cerebral Lesions Associated with	Symposium
	Adverse Outcome in the Preterm Infant	
Neonatal	Hot Topics	

2007	Application of MRI in Brain Injury and Development in	Symposium
	Infants - Who? Where? Why? And What to do next?	
	with Adverse Outcome in the Preterm Infant	
Frontiers i	n Science Program, San Antonio Texas,	

2007	MR Techniques in the Newborn Brain - II	Symposium
Clinical Ap	plications NeoFest, Cincinnati, OH	

2007	Neonatal Imaging: What Does the Radiologist Contribute?	Symposium
Society fo	^r Pediatric Radiology Annual Meeting, Miami, FL	

2007	Hypoxic - Ischemic Injury in the Newborn: New Concepts	Lecture
	of Pathogenesis and Investigation	
Paine Lectorship, Washington DC		

2007	Chairperson of the "Improving the Treatment of	Workshop seminar
	Neonatal Seizures" Workshop	
NINDS, NIH, Washington DC		

2007	Imaging in Term Encephalopathy	Symposium
AAP Perinatal Meeting San Francisco CA		

2007	Imaging in the Preterm Brain - Now and in the Future	Symposium
	Neuroprotection and Encephalopathy Clinical	
	Applications of bedside EEG tools in the NICU	
Neonatolo	ogy 2007 Conference, Miami FL	

2007	Evaluating the Newborn Brain	Grand Rounds
Cooper Hospital, Robert Johnson Medical School, New Jersey		

2007	New Insights into Newborn Brain Injury - Who? Where? Why?	Grand Rounds
Children's Hospital of Wisconsin		

2007	Intraventricular Hemorrhage and Periventricular White Matter Injury Neoprep	Symposium
Atlanta		

2007	aEEG Current Usage	Symposium
Hot Topics, Washington DC		

2008	Advances in the Recognition and Management of the	Symposium
	Term Asphyxiated Infant	
Perinatal Research Society, Santa Fe		

2008	Current and Future Studies - Neonatal Seizures.	Symposium
Pediatric Academic Society. Hawaii		

2008	New Diagnostic Approaches in Hypoxic Ischemic	Symposium
	Encephalopathy	
American Academy of Pediatrics 31st Seminar on Perinatal		Abbott Education
Medicine. Santa Fe		

2009	Timing of MRI in Infants who have been cooled	Symposium
Conference on Brain Monitoring and Neuroprotection. Florida		

2009	"Advanced MR Imaging in Brain Injury, Timing in Injury	Symposium
	and Potential Intervention"	
Internatio	nal Society for Magnetic Resonance in Medicine, Honolulu	
Hawaii		

2009	Nutrition and the Brain	Symposium
Academy of Pediatrics Fellowship Training Course Santa Fe, New		
Mexico		

2010	The Impact of Hypothermia on Neuroimaging in Term Encephalopathy	Symposium
NICHD Workshop		

2010	Imaging the Preterm Brain	Symposium
American Academy of Pediatrics. San Francisco		

2010	Infection and the Newborn Brain	Symposium
Neonatal Hot Topics. Washington DC		

2011	Imaging the Developing Brain.	Visiting Professor
Emery Lectureship. Vermont, Maine		

2011	Imaging the Brain and Neonatal Outcomes	Symposium
NEO Conference. Orlando ,Florida		

2011	The Impact of Preterm Birth on the Brain: Who? Where? Why?	Symposium
Issues in N	leonatology. New York	
2011	Nutrition and Brain Development in the Preterm Where?	Symposium
	Why?	
Providence Neonatal GI Summit. Providence, Rhode Island		

2011	Insights into the Impact Preterm Birth on Developmental	Grand Rounds
1	Outcomes – Risk and Resilience. Neuroprotection in the	
	Newborn Brain – Where are we at?	
Emery Leo	ture. Vermont	

2011	Surgery and the Preterm Infant. Early Biomakers for	Symposium
	Adverse Outcome Following Preterm Birth.	
Pediatric A	Academic Societies and Asian Society for Pediatric	
Research. Denver, Colorado		

2011	Brain Injury in the Term Born Infant	Symposium
33 rd Seminar on Neonatal Perinatal Medical. Santa Fe New Mexico		Abbott Education

2011	What's New in Imaging	Symposium
Neonatal Hot Topics Washington, DC		

2011	Insights Into Brain Development in the Preterm infant	Seminar series
Oxford University		

2011	The Impact of Preterm Birth on Brain Development	Grand Rounds
Department of Neurology Cornell University		

2012	Post HIE Imaging: Present and Near Future in the	Symposium
	hypothermia Era	
Duke University, North Carolina		

2012	Inside the Newborn Brain – Imaging Insights in the Impact of Preterm Birth	Pediatric Grand Rounds
UCLA		

2012	The Journey of Discovery of the Impact of Preterm Birth	Symposium
	on Brain Development	
Harvard N	eonatal Fellows Annual Symposium	

2012	Imaging Clues In Neuroscience – The Impact of Preterm Birth	Pediatric Grand Rounds
UCSD, San Diego, CA		

2013	Imaging Neuroprotection in the Newborn Brain	Grand Rounds
Case Western Visiting Professor, Cleveland, USA		

2013	Neuroprotection in the Newborn Brain	Invited Speaker
Dialogues in Neonatology, Duke University, North Carolina		

2013	Electrophysiological Monitoring of the Newborn Brain	Invited Speaker

American Academy of Neurology, San Diego

2013	Electrophysiological Monitoring of the Newborn Brain	Keynote Speaker
Perinatal Society of Australasia, Adelaide, Australia		

2013	Brain Development using Imaging	Keynote Speaker
Pediatric Academic Society, Washington DC, USA		

2013	Protecting the Newborn Brain	Keynote Speaker
Southern	Florida Neonatology Meeting, Marco Island, Florida	

2013	The impact of environment on brain development	Keynote Speaker
Vermont (Dxford Quality Meeting, Chicago, USA	

2013	The impact of Prematurity on Brain Development	Keynote Speaker
Laura Trainor Education Nursing Day, Boston, USA		

2014	White Matter Injury – Latest Pathophysiology Insights	Keynote Speaker
Dialogues	in Newborn Medicine, Duke University, North Carolina,	
USA		

2014	Neurodevelopmental outcomes in the preterm infant	Keynote Speaker
Jerry Elliott Memorial Lecture, New England Conference on		
Perinatal Research		

2014	Neurodevelopmental outcomes in the preterm infant	Keynote Speaker
Issues in Neonatology 2014, Boston, MA, USA		

2014	Wiring & Firing – Impact on the Developing Brain	Keynote Speaker
Columbia	University Memorial Lecture, Newborn Medicine,	
Department of Pediatrics, New York City		

2014	Imaging the Newborn Brain – Advances in Perinatal	
	Medicine	Keynote Speaker
Children's	Hospital, Philadelphia	

2014	Single Patient Rooms – Awareness of Potential Pitfalls	
		Keynote Speaker
Washington D.C.		

2015	What does the Neurologist want to know from Fetal MRI? Predictive Value of Neuroimaging in the Premature Infant	Keynote Speaker
Advances in Fetal and Neonatal Imaging, Orlando, Florida		

2015	Term Encephalopathy – New Frozen Frontiers	Keynote Speaker
	Nurturing the Premature Brain	
SWAN Messer Lectureship, Austin, TX		

2015	Nature and Pathway to Altered Brain Development in	Keynote Speaker
	the Preterm Infant	
	Neonatal Encephalopathy in the Term Infant- Etiology,	
	Therapy and Outcome	
Annual Ne	onatology Symposium – Vanderbilt University	

2015	Exposures in the NICU – Influences on Brain	Keynote Speaker
	Development	
Annual M	emorial Conference. Columbia University. NYC	

2015	Influence of the Environment & Expense of Brain	Keynote Speaker
	development & outcome	
	Posthemorrhagic Hydrocephalus- what should we do?	
Annual Int	ernational Neonatal Conference 2015, Miami, Florida	

2015	Single Patient Rooms – Awareness of Potential Pitfalls	Keynote Speaker
Neonatal Hot Topics, Washington, DC		

2015	Experience and its impact on brain development	Keynote Speaker
Neonatal Hot Topics, Washington, DC		

2016	Imaging in Neonatal Neurology	Keynote Speaker
American Academy of Pediatrics, San Francisco, CA		

2016	Impact of Respiratory Care on Neurological Outcomes in	Keynote Speaker
	Preterm Infants	
Bubble CPAP Conference, Washington, DC		

2016	Experience and its impact on brain development as well as the potential role of NDMA mediated neurotoxicity in	Keynote Speaker
	the immature brain	
Neonatal	Hot Topics, Washington, DC	

2016	Understanding the adverse Neurological Outcomes of	Keynote Speaker
	the Preterm Infant	
Kahan-Go	odman Lecture, Cleveland, Ohio	
2017	Vulnerabilities and Resiliency Across the Life Span	Keynote Speaker
	Continuing the Conversation: Brain Health	
Spotlight Health 2017, Aspen, CO		

2017	Insights into Neurological Consequences of Preterm Birth	Keynote Speaker
Cerebral Palsy Program Children's National, Washington, DC		

2017	Effect of NICU Environment including ventilation on	Keynote Speaker
	brain development	
6 th Annua	Bubble CPAP and Non-Invasive Respiratory Management	
of the Neonate Conference, Chapel Hill, NC		

2017	Mild Encephalopathy – to cool or not to cool	Keynote Speaker
The Children's Hospital Neonatal Consortium Annual Meeting,		
Columbus, OH		

2017	Nutrition to Cognition	Keynote Speaker
Abbott Nutrition "Cognition Summit, Chicago, IL		

2018	Nutrition to Cognition	Keynote Speaker
Abbott Nutrition "Cognition Summit, Chicago, IL		

2018	Impact of Environment and Exposures on Brain	Grand Rounds
	Development	
2018 New Frontier in Maternal-Fetal & Neonatal Care Conference		
Children's	Hospital & Medical Center, Omaha NE	

2018	New Insights into the Pathogenesis and Treatment of	Keynote Speaker
	Term Hypoxic Ischemic Encephalopathy (HIE)	
2018 New Frontier in Maternal-Fetal & Neonatal Care Conference		
Children's Hospital & Medical Center, Omaha NE		

2018	New Insights into the Pathogenesis and Treatment of	Keynote Speaker
	Term Hypoxic Ischemic Encephalopathy (HIE)	
University of Virginia Health System, Grand Rounds, Charlottesville,		
	VA	

2018	1. Neonatal seizures – monitoring, therapy and	Keynote Speaker
	outcomes	
	2. The Encephalopathy of Prematurity – what and why?	
Miami Neonatology Conference, 2018, Miami, FL		

2019	Mechanisms and Biomarkers of Brain Injury and Healing in HIE	Keynote Speaker
HIE Symposium -Developing the Future, Norfolk, VA		

2019	1. Development of the Immature Brain and Implications	Keynote Speaker
	for the NICU Environment	

2. Utility of the MRI in Establishing Prognosis	
11 th International Conference on Brain Monitoring and	
Neuroprotection in the Newborn, Clearwater, FL	

2019	 The impact of neonatal environment, exposures and growth on neurodevelopment in the preterm infant Neuroprotection in the term born infant – hypothermia plus 	Keynote Speaker
40 th Annual Seminar of Neonatal Perinatal Medicine, Santa Fe,		
New Mexico		

2019	1. To Cool or not to Cool – Decision making around	Keynote Speaker
	therapeutic hypothermia	
	2. Impact of environment and experience on brain	
	development in the preterm infant	
	3. Seizures in the newborn infant	
	4. Intraventricular hemorrhage in 2019 – where are we	
	at?	
	5. Infection in the newborn nervous system	
	6. Advances in neuromuscular disease in the newborn	
Southeast	ern Association of Neonatologist, Marco Island FL	

2019	1. Shedding Light on the Neonatal Brain	Keynote Speaker
	2. Technologies to Assist in Diagnosing Early Brain	
	Injury: NIRS, EEG and MRI	
	3. Neurobehavioral Impairments in Preterm Neonates	
7 th Annual	Fall Conference on Current Concepts in Neonatal Care	
(Symposium Medicus)		

2019	1. Neonatal MRI: The Who? Why: When and How:	Keynote Speaker
	2. To Cool or Not to Cool	
Florida Neonatal Neurologic Network Annual State Meeting –		
Nemours Children's Hospital, Orlando, FL		

2020	1. Improving Neurological Outcomes in High Risk Infants	Grand Rounds
The Children's Hospital at Montefiore at Albert Einstein College of		
Medicine, Bronx, NY		

2020	1. Shedding light through Imaging in the Newborn Brain	Keynote Speaker
	2. The challenges for the caregiver in the NICU Burnout -	
	and more	
33 rd Annua	al Graves Conference on the Environment and Care for High	Risk Newborns, Clearwater Beach.
FL		
2020	Insights for Improving Neurodevelopmental Outcomes in	Guest Lecture
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	High Risk Infants	
UCLA Mattel Children's Hospital, Los Angeles, CA		

2020	The Power of Magnetic Resonance Imaging Insights in	Guest Lecture
	Neonatal Encephalopathy	
Aspect Imaging, Los Angeles, CA		
Virtual Meeting		

2020	Understanding the impact of brain injury on neurological outcomes in the preterm infant Review the impact of experience and exposures in the	Keynote Speaker
	neonatal intensive care unit on brain development and	
	outcomes in the preterm infant	
	Advocate for parental presence and engagement in the	
	NICU as of critical value to neurodevelopment in the	
	preterm infant.	
18 th Annu	al academic Day for Neonatologists, CHOC Children's	
Hospital, Orange, CA		
Virtual Me	eeting	

2020	Neonatal Therapy in the NICU – Leading Brain	Keynote Speaker
	Rehabilitation & Development	
National Association of Neonatal Therapists (NANT)		
Virtual Meeting		

2020	What is the prognostic utility of MRI at time of discharge?	Keynote Speaker/Journal Club
Neonatal Heart Society – Neoheart /CHOC Children's Hospital		

2021	Pathway to Improving Outcomes in the Preterm infant –	Keynote Speaker
NANT 11 Conference – Virtual		

2021	Imaging in the Preterm Infant – is it Immature?	Grand Rounds
NYU Child Neurology Grand Rounds		

2021	Reinforcing the old and redefining the new approaches	Keynote Speaker
	to improving neurological outcomes in the NICU	
Cleveland Children's Clinic – Neonatal Brain Club Lecture Series		
Virtual Meeting		

2021	The impact of infection and inflammation of the developing brain	Keynote Speaker
2021 Small Baby Curse (Aspect Imaging) Virtual Meeting		

2021	1. Brain development in the ELBW in the NICU –	Keynote Speaker
	environment and exposures matter	
	2. Brain Monitoring in the ELBW – who, when and why?	
Miami Neo	onatology 2021, Miami Florida	
2021	1. Postnatal Corticosteroids: good, bad or ugly	Keystone Speaker
	2. Pathophysiology and neuropathology of post-	
	hemorrhagic ventricular dilation	
	3. Does preterm birth reprogram brain growth and	
	function: What does it mean for the future adult?	
Pediatric A	Academic Society Annual Meeting, May 2021, Virtual	

2021	Reinforcing the old and redefining the new approaches	Keynote Speaker
	to improving neurological outcomes in the NICU	
AAP Neonatal Regional Meeting, New Mexico, June 2021, Virtual		

2021	1. Brain injury in the preterm term infant – where are we at in 2021?	Keynote Speaker
	2. Improving neurodevelopmental outcomes in the	
	high-risk infant – Science and AA	
Stanford Ketchmer Professorship, September 2021		

2021	Reinforcing the old and redefining the new approaches to improving neurological outcomes in the NICU	Keynote Speaker
Rutgers Ur	niversity Grand Rounds	

2021	 Pattern of brain injury in the term infant – neuroprotection and neurorehabilitation approaches Improving neurodevelopmental outcomes in the preterm infant – reinforcing the old and redefining the new approaches 	Keystone Speaker
Pediatric P	hysical Therapy Conference, Rhode Island,	
November 2021		

2022	Improving neurological outcomes in the NICU	Invited Lecture
University of Chicago Grand Rounds March 2022		

2022	 Physician Burnout Improving neurodevelopmental outcomes in the preterm infant – reinforcing the old and redefining the new approaches 	Chair of Seminar and Keynote Lecturer
American Academy of Pediatrics Neonatal Perinatal Fellows Conference, Santa Fe, New Mexico June 2022		

2023	Improving neurological outcomes in the NICU	Invited Lecture
Loma Linda Longo Symposium Presentation		

2023	Less Invasive Interventions; Consider the Developing	Invited Lecture
	Brain	
PDA Stenting in Cyanotic Newborns: Comprehensive Management		
Strategies from Fetus to Toddler - San Diego		

International

1999	aEEG Current Usage	Symposium
Neonatal	Hot Topics, Washington, D.C.	
2001	Advances in Neuro-Imaging	Symposium
Neonatal Hot Topics , Washington, D.C.		

2002	Clinical Applications of Magnetic Resonance Imaging	Symposium
	Research	
Federation of Associations of Oceania and Pacific Perinatologists,		
Christchurch, New Zealand		

2002	Neonatal Seizures	Symposium
Federation of Associations of Oceania and Pacific Perinatologists,		
Christchurch, New Zealand		

2002	Neonatal Neuroimaging	Symposium
Society for Pediatric Research Perinatal Brain Club - Baltimore, USA		

2002	Opening a Window into our Understanding Brain	Symposium
	Development in the Newborn Infant.	
National Seminar 'Storming the Brain; Early Experience and Brain		
Development' Wellington, New Zealand		

2002	The Assessment of Cerebral Injury in the Newborn - EEG and MR tools	Grand Rounds
Newborn Medicine Program, Harvard Medical School, USA		

2002	MR Techniques in Assessing the Newborn Brain	Workshop
Siemens Pediatric MR Workshop, Erhlangen, Germany		

2002	The Nature of Cerebral Injury in the Premature Baboon	Seminar NIH
	Model - Impact of Respiratory Therapies	
Institute of Heart, Lung, and Blood, NIH, Washington, USA		

2002	Quantitative MR Techniques in the Premature Infant	Symposium
European Neonatal Brain Club, Madrid		

2003	Understanding the Effect of Premature Birth on Brain	Pediatric Grand Rounds
	Development - Insights Utilizing Magnetic Resonance	
	Imaging.	

University of California San Francisco, USA	
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2003	Clinical Use of Multimodal Neurophysiological Monitoring. Monitoring the CNS of the Neonate with	Symposium
	Neurophysiological Methods	
Perinatal I	Medicine Symposium, Sahlgrenska University Hospital,	
Sweden		

2003	Brain Injury in the Preterm Infants: Recent Discoveries in Neuroimaging. Perinatal Brain Injury: pathophysiology	Symposium
	and clinical aspects.	
Berzelius	Symposia 59, Swedish Society of Medicine	Swedish Society of Medicine

2003	Imaging in Hypoxic-Ischemic Encephalopathy	Symposium
Berzelius Symposia 59, Swedish Society of Medicine		Swedish Society of Medicine

2003	Insights into the Cerebral Lesion in the Prematurely Born Infant Utilizing Advances in-vivo Magnetic Resonance Techniques.	Symposium
Internatio	nal Neonatal Conference "Neonatology 2003", University	
of Miami,	Florida, USA	

2003	The Utility of Bedside EEG Tools in the NICU - From	Symposium
	Cerebral Function Monitors to Full Conventional EEG.	
International Neonatal Conference "Neonatology 2003", University		
of Miami, Florida, USA		

2003	Cooling the Term Encephalopathic Infant - The Evidence for whom, when, and why by which mode should we offer hypothermia.	Symposium
Internatio	nal Neonatal Conference "Neonatology 2003", University	
of Miami,	Florida, USA	

2003	Inhaled Nitric Oxide and Baboons	Symposium
Hot Topics in Neonatology. Washington, USA		

2004	Baboon Model of Periventricular White Matter Injury	Symposium
Hershey Conference on Developmental Brain Injury Asilomar, USA		

2004	Looking inside the Cerebral Lesion - Designing Interventions to Match Children	Symposium
gEarly Chi	dhood Conference, Wellington New Zealand	

2004	Understanding Cerebral Injury in the Newborn Infant	Seminar Series
Neonatal	Conference. Boston Children's Hospital, Harvard Medical	
School		

2004	The Long and Winding Road to Neuroprotection in the	Neurology Grand Rounds
	Newborn Brain.	
Cornell University. Department of Newborn Medicine, New York		

2004	Cerebral Injury in the Newborn Brain - the Pathway to	Seminar Series
	Rational Neuroprotection.	
Newborn Conference, UCSF Medical Center, UCSF, San Francisco		

2004	Predicting Outcome of Neonatal Encephalopathy.	Symposium
Child Neurology Society, Ottawa Canada		

2004	Barry Smith Memorial Lecture	Visiting Professor
Toronto Hospital for Sick Children		

2006	Evaluating the Premature Infant Brain	Grand Rounds
Auckland Hospital, New Zealand		

2007	Evaluation of the High-Risk Brain - MRI and EEG	Symposium
Irish Perinatal Society, Belfast		

2008	Evaluation of the High-Risk Brain - MRI and EEG	Symposium
Irish Perinatal Society, Belfast		

2008	Establishing Prognosis with Currently Available Data	Symposium
The 3rd International Conference on Brain Monitoring and Neuro-		
protectior	i, Vienna	

2008	Evaluation of the High-Risk Term Infant-from Bedside to	Symposium
	EEG to MRI	
SIENBA Mar Del Plata, Argentina		

2009	International Symposium on Neonatology;	Symposium
	Neuroprotection; Brain Injury and Brain Development in	
	the Preterm Infant; Neuroimaging in the NICU	
Sao Paulo Brazil		

2009	Imaging in the Newborn Intensive Care Unit:	Symposium
	Neuroprotection	
Chile National Neonatal Symposium, Sao Pauo, Chile		

2010	Reducing the Risk of Intraventricular Hemorrhage and	Symposium
	Periventricular Leukomalacia and Improve Outcomes in	
	the Preterm Infant. Infection and the Newborn Brain.	
Pediatric Academic Society Meeting. Vancouver, Canada		

Cool Topics in the Newborn. Melbourne, Australia	
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2011	Neuroimaging in the Newborn. New Techniques of	Symposium
	Neuroimaging.	
The 6 th International Conference on Brain Monitoring and Neuro-		
protection in the Newborn. Amsterdam		

2011	Common Lesions in the Newborn Brain	Symposium
ISMRM, Montreal		

2011	Neuroimaging in the Term Encephalopathic Infant	Grand rounds
Toronto Sick Kids University of Toronto		

2012	Update on the Washington University IDDRC	Seminar
NICHD Bethesda		

2012	Ten things that I have learn from Imaging on Brain	Symposium
	Development	
International SNAP symposium, University of Melbourne,		
Melbourne, Australia		

2012	Neonatal brain injury	Symposium
Ipokrates Lectureship Seminar Program, Utrecht, Holland		

2012	Insights into Brain Injury in the Newborn Brain	Symposium
European Pediatric Academy Meeting, Istanbul		

2012	Imaging Neuroprotection in the Newborn Brain	Grand Rounds
University of Geneva, Switzerland		

2013	Seizures in the Preterm Infant	Keynote Speaker
International Society for Neonatal Seizures, Tokyo, Japan		

2013	The impact of preterm birth on brain development	Keynote Speaker
Perinatal S	Society of Australasia, Adelaide, Australia	

2013	Electrophysiological Monitoring of the Newborn Brain	Keynote Speaker
Perinatal S	Society of Australasia, Adelaide, Australia	

2013	Magnetic Resonance Imaging of the Developing Brain	Keynote Speaker
Innovative	Neuroscience Planning Group, Melbourne, Australia	

2013 Protecting the Newborn Brain		Keynote Speaker		
New Zealand Pediatric Society Meeting, Dunedin, New Zealand				

2014 Imaging the Newborn Brain Keynote Speaker
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Society of Neonatology, Bangkok, Thailand	

2014	Seizures in the Newborn Infant	Keynote Speaker
Society of Neonatology, Bangkok, Thailand		

2014	The unrecognized impact of systemic infection on the	Invited Speaker
	immature brain - opportunities to improve outcomes	Sepsis Club
Pediatric A	Academic Society, Vancouver, Canada	

2015	Advances in Imaging the Newborn Brain	Keynote Speaker
Neonatal Physicians, Israel, Tel Aviv, Israel		

2015	Impact of Preterm Birth	Keynote Speaker
	Protecting the Developing Brain	
	Improving what we do not fully understand	
Internatio	nal Neuropsychological Society, Sydney, Australia	

2015	MRI in the Term Infant – Workshop	Keynote Speaker
	Monitoring the Newborn Brain – Which Technique for	
	which Question	
Brain Mor	nitoring and Neuroprotection, Cork, Ireland	

2016	Advances in Understanding Neurological Outcomes in	Grand Rounds
	the Prematurely Born Infant	
	Optimizing Therapeutic Hypothermia	
The Estrel	lita and Yousef Karsh Visiting Professorship / Children's	
Hospital of Eastern Ontario		

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2016	Alterations in Preterm Brain Development related to the	Keynote Speaker
	environment and experience	
	Post-Hemorrhagic hydrocephalus. Are there any new	
	insights?	
Seminair I	En Neurologie Neonatle, Reims, France	

2017	1. Updates on Brain Injury – IVH and PVL in the preterm	Keynote Speaker
	infant	
	2. Term Encephalopathy – How to Improve Outcomes	
	3. The impact of the environment on outcomes in the	
	preterm infant	
33 rd Annu	al Obstetrics & Gynecology, Perinatal Medicine,	
Neonatolo	ogy and the Law on Medical Negligence and Risk	
Managem	ent, Cabo San Lucas, Mexico	

2017	 Therapeutic Hypothermia for Newborns Seizures in the Newborn Infant 	Keynote Speaker
	3. IVH and PHVD	
Internatio	nal Neonatology Symposium: Bangkok, Thailand	

2017	1. Mild Encephalopathy in the Term Born Infant – To	Keynote Speaker
	cool or not to cool?	
	2. Nutrition in the NICU and Cognition	
Neonatal	Neurology Mini-Symposium, (Sam Darwish Memorial	
Lecture) C	algary, Canada	

2017Nutrition to CognitionKeynote SpeakerAbbott Nutrition "Cognition Summit, Chicago, IL

2017	The Advantage of neonatal MRI with case studies	Keynote Speaker
Aspect Imaging, Israel		

2018	1. Enhancing Brain Development before Birth	Keynote Speaker
	2. NICU of Tomorrow: How to Enhance Development	
	3. MRI new Ways to look at the Brain	
The 7 th Co	ongress of the European Academy of Paediatric Societies	
(EAPS)		

2019	1. To cool or note to cool: who, how & when?	Keynote Speaker
	2. "Brain Injury" in the premature baby	
	3. MRI - Understanding the tool and its application to	
	timing and nature of brain injury	
35 th Annua	al Obstetrics, Gynecology, Perinatal Medicine, Neonatology	
and the L	aw, Tufts University School of Medicine, Paradise Island,	
Bahamas		

2019	Insight into the Encephalopathy of Prematurity –	Keynote Speaker
	Pathways and Consequences	
Canadian	National Perinatal Research Meeting - CNPRM	

2019	Is MRI brain imaging relevant for long-term neuro-	Keynote Speaker
	developmental outcomes following neonatal hypoxic	
	ischemic event	
Journees	Nationales de Neonatologists, Paris, France	

2019	Neuroimaging insights into the pathway to adverse	Keynote Speaker
	Neurological outcomes in the preterm infant	
Conference, Geneva		

2020	Advances in Optimizing Neurological Outcomes in High Risk Infants	Keynote Speaker
ACCYPN Board Meeting Webinar, Perth, Australia		

2020	Preterm Birth and Aging	Keynote Speaker
European Academy of Pediatric Society – 2020		
Virtual, Barcelona, Spain		

2021	The winding path of academic medicine for women –	Keynote Speaker
	tips for trail finding	

International Women's Day – 2021	
Virtual, Mater Research Institute, Faculty of Medicine, The	
University if Queensland, South Brisbane, Queensland	

2021	The Role of MRI Informing the Newborn Brain – A Tale	Keynote Speaker
	of a Kiwi Girl	
SMRT National Chapter – Pacific Radiology,		
Virtual, Auckland, NZ		

2021	MRI in the preterm infant – long-term followup	Keynote Speaker
Brazil Neonatal Annual Conference, May 2021, Virtual		

2021	Therapeutic hypothermia – Outside the lines	Keynote Speaker
Canadian F	Paediatric Society Annual Conference, June 2021	

2021	The Utility of MRI in the Newborn	Keynote Speaker
Mexican Paediatric Society Annual Conference, August 2021		

2021	The utility of MRI in preterm prior to discharge	Keynote Speaker
Children's Hospital Orange County, July 2021 (Amir Ashrafi)		

2021	1. Stroke-like lesions in congenital heart disease	Keynote Speaker
	Caring for the caregiver – why and how	
European Pediatric Society Annual Meeting, September 2021,		
Virtual		

2022	1. Workshop: Neuroimaging in preterm infants: (Terrie	
	Inder and Christopher Smyser)	
	2. Debate Session: Neuroimaging practices in preterm	
	infants: Terrie Inder vs. Dwayne Pursley	
13 th International Newborn Brain Conference, Clearwater, Florida		
February 2022		

2023	1. Improving neurological outcomes in the preterm	
	infant: science meets nature.	
	2. Neonatal Seizures: what we know and what we do	
	not yet know guiding care in 2023?	
	3. Therapeutic Hypothermia in Neonatal	
	encephalopathy: Who? How? and Where next?	
XIX EDUCA	TIONAL EVENT OF THE IBERO-AMERICAN	
SOCIETY OF NEONATOLOGY, Argentina November 2023		

2023	1. Neuroimaging in the High-risk infant	Keynote Speaker
Medicolegal Conference, Florence, Italy September 2023		

2025 1. Magnetic Resonance imaging in the right lisk infant Reynole Speaker

Perinatal Society of Germany, December 2023	

Clinical Activities:

Medical Licensure and Board Certification

- 1988 Registered Medical Practitioner with New Zealand Medical Council 15892
- 1999 Board eligible Child Neurology
- 2000 Registered Medical Practitioner of the Medical Practitioners Board of Victoria, Australia
- 2005 Registered Medical Practitioner Missouri Board of Healing Arts, Missouri, USA
- 2008 Board Certified in Pediatrics, American Board of Pediatrics –
- 2009 Board Certified in Perinatal Neonatal Medicine, American Board of Pediatrics
- 2013 Registered Medical Practitioner of the Commonwealth of Massachusetts Board of Registration in Medicine
- 2022 Registered Medical Practitioner Medical Board of California

Clinical Activity

Attending newborn medicine specialist caring for high risk infants for 6-8 weeks/annum at Childrens Hospital of Orange County Neonatal Intensive Care Unit.

Clinical Innovations

1. Creation of a specialized fetal and neonatal neurological consultation service including training

We have developed a training pipeline for neurologists and newborn medicine specialists to recognize the neuropathology within the NICU infant population. We are working with the Child Neurology Society a formal recognition of a 1-2-year fellowship program. This clinical service provides high quality trained clinical care to optimize outcomes in infants.

2. Optimization of magnetic resonance imaging of the high- risk newborn infant without sedation or anesthesia

We have undertaken >2,000 MRI scans for clinical and research purposes in high risk infants without sedation. We have published guidelines, run workshops and circulate free of charge a DVD educating the clinical team how to gently swaddle and handle an infant to gain high quality clinical MR images. Around the USA many infants do not have access to MR imaging as it is required that they undergo general anesthesia. Our clinical teaching in this area has changed practice with MRI becoming the appropriate gold standard that can be more available to the infant.

3. Recognition of the importance of electroencephalographic monitoring of encephalopathic infants

We studied, published and have educated that close to 90% of newborn seizures are subclinical in nature with no recognition by the clinical nursing or physician team. We have also documented those seizures recognized on EEG can be readily managed with a reduction in total seizure burden and a trend toward improved outcomes in the infants who receive full EEG brain monitoring. This has increased the recognition and clinical demand for limited channel or full video EEG in the NICU environment for any infant with neurological concerns.

4. Developed an independent neonatal neurological examination form for evaluation of encephalopathy

We developed an independent encephalopathy evaluation tool which has been adopted nationally in many centers to assist in the documentation of the neurological examination.

5. Developed and evaluated a novel in-NICU magnetic resonance imaging system for term and preterm infants

We developed a novel in-NICU MRI system for term and preterm infants with Israeli based company Aspect imaging owned by Stewart Resnick (the Wonderful company, CA) for application in high risk infants for the evaluation of preterm and term born infants with brain injury and alterations in brain development. During 2020-2021 utilized imaging system in >200 infants.

6. Assisted in FDA approval and application of nutritional tools in the NICU

We worked with both MIRIS human milk analyzer to establish FDA approval and applied the measurement of human milk macronutrient composition to body composition using a Peapod body composition device and human brain development using magnetic resonance imaging.

7. Development of music therapy approach in the NICU

We worked with BOSE developing new music compositions and testing their impact on cerebrovascular physiology to identify music that calmed sick infants and then applied this in our clinical environment.

Publications

320 publications
H-index: 76
Total citations 21,000 (average per annum last 3 years 2,000 per annum)
50 articles with >100 citations, average 49 citations per publication (n=427 in web of science)

1990

1. **Inder T**, Geddis DC. Factors Influencing the Use of Infant Car Restraints. Accident Analysis and Prevention, June 1990; 22(3): 297-300. PMID: 2393477

1994

 Inder TE, Graham P, Sanderson K, Taylor B. Lipid Peroxidation as a Measure of Oxygen Free Radical Damage in the Very Low Birthweight Infant. Archives of Disease in Childhood 1994; 70: F107-F111. PMID: 8154902

1995

- Inder TE, Carr AC, Winterbourn CC, Darlow BA. Vitamin A and E Status in Very Low Birthweight Infants - Development of an Improved Parenteral Delivery System. Journal of Pediatrics 1995; 126: 128-131. PMID: 7815202
- 4. Neuzil J, Darlow BA, **Inder TE**, Sluis KB, Winterbourn CC, Stocker R. Oxidation of Lipid Emulsion by Ambient and Phototherapy Lights: Potential Toxicity of Routine Parenteral Neonatal Feeding. Journal of Pediatrics 1995; 126: 785-790. PMID: 7752007
- 5. Darlow BA, **Inder TE**, Sluis DB, Nuthall GA, Mogridge N, Winterbourn CC. Selenium Status of Infants Randomized to be Fed Either a Selenium Supplemented or a Standard Cows Milk Formula. Journal of Paediatrics and Child Health 1995; 31: 339-344. PMID: 7576895
- Darlow BA, Inder TE, Graham P, Sluis KB, Malpas R, Taylor BJ, Winterbourn CC. The Relationship of Selenium Status to Respiratory Outcome in the Very Low Birthweight Infant. Pediatrics 1995; 96: 314-319. PMID: 7630691

7. **Inder TE**, Darlow BA, Sluis DB, Winterbourn CC, Graham P, Sanderson KJ, Taylor BJ. The Correlation of Elevated Levels of an Index of Lipid Peroxidation (MDA-TBA) with Adverse Outcome in the VLBW Infant. Acta Paediatrica 1996; 85: 1116-1122. PMID: 8888929

1997

- 8. Darlow BA, Sluis KB, **Inder TE**, Winterbourn CC. Endotracheal Suctioning of the Neonate: Balancing Clinical and Resarch Needs. Pediatric Pulmonology 1997; 23(3): 217-221. PMID: 9094731
- Inder TE, Clemett RS, Austin NC, Graham P, Darlow BA. High Iron Status in VLBW Infants is Associated with Increased Risk of Retinopathy of Prematurity. Journal of Pediatrics 1997;131:541-4. PMID: 9386655

1998

- 10. **Inder TE**, Graham P, Winterbourn C, Austin N, Darlow B. Plasma Vitamin A Levels in the Very Low Birthweight Infant- Relationship to Respiratory Outcome. Early Human Development 1998 Sep;52(2):155-68. PMID: 9783817
- 11. **Inder TE**, Volpe JJ. Recovery of Congenital Isolated Pharyngeal Dysfunction: Implications for Early Management. Pediatric Neurology 1998;19(3) 222-4. PMID: 9806141

1999

- 12. **Inder TE**, Huppi PS, Warfield S, Kikinis R, Zientara G, Barnes PD, Volpe JJ. Periventricular White Matter Injury in the Premature Infant is Associated with a Reduction in Cerebral Cortical Gray Matter Volume at Term. Annals of Neurology 1999;46(5):755-760. PMID: 10553993
- 13. **Inder TE**, Huppi PS, Zientara GP et al. Early Detection of Periventricular Leukomalacia by Diffusion Weighted Magnetic Resonance Imaging Techniques. Journal of Pediatrics 1999;134:5:631-4

2000

- 14. Darlow BA, Winterbourn CC, **Inder TE**, Graham PJ, Harding JE, Weston PJ, Austin NC, Elder DE, Mogridge N, Buss HI, Sluis KB. The Effect of Selenium Supplementation on Outcome in Very Low Birthweight Infants: A Randomised Controlled Trial. Journals of Pediatrics 2000;136:473-480. PMID: 10753245
- 15. Winterbourn CC, Chan T, Buss H, **Inder TE**, Darlow BA. Protein Carbonyls and Lipid Peroxidation in Premature Infants: Associations with Chronic Lung Disease and Retinopathy and Effects of Selenium Supplementation. Pediatric Research 2000; 48:84-90. PMID: 10879804

2001

- 16. Murphy BP, **Inder TE**, Huppi PS, Zientara GP, Kikinis R, Jolesz FA, Volpe JJ. Impaired Cerebral Cortical Gray Matter Growth Following Treatment with Dexamethasone for Neonatal Chronic Lung Disease. Pediatrics 2001; 107:217-221. PMID: 11158449
- 17. Warfield SK, Rexilius J, Huppi PS, **Inder TE**, Miller EG, Wells WM, Zientara GP, Jolesz FA, Kikinis R. A Binary Entropy Measure to Assess Non-rigid Registration Algorithms. MICCAI 2001; 266-274.
- Huppi PS, Murphy B, Maier SE, Zientara GP, Inder TE, Barnes PD, Kikinis R, Jolesz FA, Volpe JJ. Microstructural Brain Development after Cerebral Perinatal White Matter Injury Assessed by Diffusion Tensor Magnetic Resonance Imaging. Pediatrics 2001; 107;455-460. PMID: 11230582

2002

19. Murphy BP, **Inder TE**, Rooks R, Taylor GA, Anderson NJ, Teele R, Mogridge N, DuPlessis AJ, Volpe JJ. Post-Haemorrhagic Ventriculomegaly - Natural History and Predictors of Outcome. Archives Diseases in Childhood 2002;87:F37-F41. PMID: 12091289

- 20. **Inder TE**, Mocatta T, Darlow B, Spencer C, Volpe JJ, Winterbourn CC. Elevated Free Radical Products in the Cerebrospinal Fluid of VLBW Infants with Cerebral White Matter Injury. Pediatric Research 2002;52:213-218. PMID: 12149498
- 21. **Inder** T, Mocatta T, Darlow B, Spencer C, Senthilmohan R, Winterbourn CC, Volpe JJ. Markers of oxidative injury in the cerebrospinal fluid of a premature infant with meningitis and periventricular leukomalacia. Journal of Pediatrics 2002;140(5);617-621.

- 22. **Inder TE**, Buckland L, Williams CE, Spencer C, Gunning MI, Darlow B, Volpe JJ, Gluckman PD. Lowered Cortical Spectral Edge Frequency Predicts the Presence of White Matter Injury in Premature Infants. Pediatrics 2003;111;27-33. PMID: 12509550
- 23. **Inder TE**, Anderson NJ, Spencer C, Wells S, Volpe JJ. White Matter Injury in the Preterm Infant: A Comparison between Serial Cranial Sonographic and MR Findings at Term. American Journal Neuroradiology 2003;24:805-9. PMID: 12748075
- 24. Sizonenko S, Sirimanne E, Mayall Y, **Inder TE**, Williams C, Gluckman PD. Selective Cortical Alteration in Myelination after Hypoxic-Ischemic Injury in the Very Immature Rat Brain. Pediatric Research 2003;54(2):263-9. PMID: 12736386
- 25. **Inder TE**, Wells S., Mogridge N., Spencer C., Volpe JJ. Defining the Nature of the Cerebral Abnormalities in the Premature Infant a Qualitative Magnetic Resonance Imaging Study. Journal of Pediatric 2003;143:171-9. PMID: 12970628
- 26. Buckland L., Austin N, Jackson A, **Inder TE**. Excessive Sound Exposure to Sick Infants during Neonatal Transport. Archives of Disease in Childhood 2003;88:F513-6. PMID: 14602701

2004

- 27. Hunt RW, Kean MJ, Stewart MJ, **Inder TE**. Patterns of Cerebral Injury in Infants with Congenital Diaphragmatic Herniae Utilizing Magnetic Resonance Imaging. Journal of Pediatric Surgery 2004;39:31-6. PMID: 14694367
- Anderson NJ, Warfield SK, Wells S, Spencer C, Balasingham A, Inder TE. A Limited Range of Quantitative Sonographic Measures Correlate with 3D-MRI Cerebral Volumes in the Premature Infant at Term. Ultrasound Medicine Biology. 2004 Jan;30(1):11-8. PMID: 14962603
- 29. Mocatta TJ, Winterbourn CC, **Inder TE**, Darlow BA. The Effect of Gestational Age and Labour on Markers of Lipid and Protein Oxidation in Cord Plasma. Free Radical Research. 2004 Feb; 38(2):185-91. PMID: 15104212
- 30. Hunt RW, Neil JJ, Coleman LT, Kean MJ, **Inder TE**. Apparent Diffusion Coefficient in the Posterior Limb of the Internal Capsule Predicts Outcome Following Perinatal Asphyxia. Pediatrics. 2004 Oct;114(4):999-1003. PMID: 15466097
- 31. Woodward L., Mogridge N., Wells S., **Inder TE**. Can Neurobehavioural Examination Predict the Presence of Cerebral Injury in VLBW Infants? Journal of Devevelopmental and Behavioral Pediatrics. 2004;25(5):326-34. PMID: 15502549
- 32. Dieni S., **Inder TE**, Yoder B., Briscoe T., Camm E., Egan G., Denton D., Rees S. Pattern of Cerebral Injury in a Primate Model of Premature Birth with Neonatal Intensive Care. Journal of Neuropathology Experimental Neurolology. 2004 Dec;63(12):1297-309. PMID: 15624766
- 33. **Inder TE**, Hunt RW, Morley CJ, Coleman L, Stewart M, Doyle LW, Jacobs SE. Systemic Hypothermia Selectively Protects the Cortex in Term Hypoxic-Ischemic Encephalopathy. Journal of Pediatrics. 2004 Dec;145(6):835-7. PMID: 15580212

- Shah DK, Daley AJ, Hunt RW, Volpe JJ, Inder TE. Cerebral White Matter Injury in the Newborn Following E Coli Meningitis. Europearn Journal of Pediatric Neurology 2005 Feb: 9(1); 13-17. PMID: 15701561
- 35. **Inder TE**, Warfield SK, Wang HX, Huppi PS, Volpe JJ. Abnormal Cerebral Structure at Term in Premature Infants. Pediatrics 2005 115(2):286-294. PMID: 15687434
- 36. Ellison VJ, Mocatta TJ, Winterbourn CC, Darlow BA, Volpe JJ, **Inder TE**. The Relationship of CSF and Plasma Cytokine Levels to Cerebral White Matter Injury in the Premature Newborn. Pediatric Research 2005 Feb;57(2):282-286. PMID: 15585689
- 37. **Inder TE**, Neil JJ, Kroenke C, Dieni S, Yoder B, Rees S. Investigation of Cerebral Development and Injury in the Prematurely Born Primate by Magnetic Resonance Imaging and Histopathology. Developmental Neuroscience 2005 Mar;27(2-4):100-11. PMID: 16046843
- 38. Sizonenko SV, Kiss J, **InderTE**, Gluckman PJ, Williams CE. Distinctive Neuropathological Alterations in the Subplate and Infragranular Layers of the Parietal Cortex After Moderate Ischemic-Hypoxic Injury in the Very Immature Rat Brain. Pediatric Research 2005;57:865-7. PMID: 15774844
- 39. Cameron FJ, Kean MJ, Wellard RM, Werther GA, Neil JJ, **Inder TE**. Insights into the Acute Cerebral Lesion of Childhood Diabetes. Diabetic Medicine 2005 May;22(5):648-53. PMID: 15842524
- 40. Kroenke CD, Bretthorst GL, **Inder TE**, Neil JJ. Diffusion MR Imaging Characteristics of the Developing Primate Brain. NeuroImage, 2005 May 1;25(4):1205-13. PMID: 15850738
- 41. Adamson C, Johnston L, **Inder T**, Rees S, Mareels I, Egan G. A Tracking Approach to Parcellation of the Cerebral Cortex. Medical Image 2005; 8: 294-301. PMID: 16685858
- 42. Woodward LJ, Edgin J, Inder TE. Object Working Memory Deficits Predicted by Early Cerebral Injury and Structural Development in Preterm Infants Brain 2005;128:2578-87. PMID: 16150850.
- 43. Anderson NG, Laurent I, Cook N, Woodward L, **Inder TE**. Growth Rate of Corpus Callosum in Very Premature Infants. American Journal of Neuroradiology 2005;26:2685-90 . PMID: 16286423

- 44. Kroenke CD, Bretthorst GL, **Inder TE**, Neil JJ. Modeling Water Diffusion Anisotropy within Fixed Prenatal Primate Brain Using Bayesian Probability Theory. Magnetic Resonance in Medicine 2006;55:187-97. PMID: 16342153
- 45. Filan PM, **Inder TE**, Cameron FJ, Kean MJ, Hunt RW. Severe Neonatal Hypoglycemia and Occipital Cerebral Injury. Journal of Pediatrics 2006;148(4):552-555. PMID: 16647423
- 46. Woodward LJ, Anderson PJ, Austin NC, Howard K, **Inder TE**. Cerebral Abnormalities on Neonatal Magnetic Resonance Imaging and Neurodevelopmental Outcomes in Preterm Infants. New England Journal of Medicine 2006; 355(7): 685-694. PMID: 16914704
- 47. Loeliger M, **Inder TE**, Cain S, Ramesh RC, Camm E, Thomson MA, Coalson J, and Rees SM. Cerebral Injury And Development In A Preterm Model Treated With Continuous Positive Airway Pressure. Pediatrics 2006; 118(4):1640-53. PMID: 17015557
- 48. Anderson NJ, Laurent I, Woodward LJ, **Inder TE**. Detection of Impaired Growth of the Corpus Callosum in Premature Infants. Pediatrics 2006; 118: 951-60. PMID: 16950985
- 49. Mewes AUJ, Huppi P, Rybicki FY, Als H, McAnulty G, **Inder TE**, Mulkern RV, Robertson R, Rivkin M, Warfield SK. Regional Brain Development in Serial MRI of Low-Risk Preterm Infants. Pediatrics 2006; 118: 23-33. PMID: 16818545
- 50. Navakatikyan MA, Colditz PB, Burke CJ, **Inder TE**, Richmond J, Williams CJ. Seizure Detection Algorithm for Neonates Based on Wave-Sequence Analysis. Clinical Neurophysiology 2006;117:1190-2003. PMID: 16621690
- 51. Gray D, Spencer C, **Inder TE**, Woodward LJ, Austin NC. Early Rehospitalisation in a Regional Cohort of Very Low Birthweight Infants. Journal of Paediatric Child Health 2006; 42: 377-83. PMID: 16737481

- 52. Shah DK, Anderson PJ, Carlin JB, Pavlovic M, Thompson DK, Howard K, Warfield S, Inder **TE**. Cerebellar Development in Preterm Infants Utilizing Advanced Magnetic Resonance Imaging Techniques. Pediatric Research 2006; 60: 97-102. PMID: 16690952
- 53. Shah DK, Guinane C, August P, Austin NC, Woodward LJ, Thompson D, Warfield SK, Clemett R and Inder TE. Reduced Occipital Regional Volumes at Term Predict Impaired Visual Function in Early Childhood in Very Low Birth Weight Infants. Investigative Opthalmology and Visual Science 2006; 47: 3366-3373. PMID: 16877404
- 54. Shah DK, Lavery S, Wong C, Doyle LW, McDougall P, **Inder TE**. Utility of Two-Channel Bedside EEG Monitoring in Term Born Encephalopathic Infants Related to Cerebral Injury Defined by Magnetic Resonance Imaging. Pediatrics 2006; 118: 47-55. PMID: 16818548
- 55. Brown NC, Doyle L, Bear M, **Inder TE**. Alterations in Neurobehavior at Term Reflect Differing Perinatal Exposures in Very Preterm Infants. Pediatrics 2006; 118:2461-71. PMID: 17142532
- 56. Neil JJ, **Inder** TE. Detection of Wallerian degeneration in a newborn by diffusion magnetic resonance imaging (MRI). Journal of Child Neurology 2006;21(2):115-118.
- 57 Rees S, Harding R, **Inder T**. The developmental environment and the origins of neurological disorders. Developmental Origins of Health and Disease 2006;379-391.

- 58. Fraser M, Bennet L, Helliwell R, Wells S, Williams CE, Gluckman P, Gunn AJ, **Inder T**. MRI of the Preterm Fetal Sheep Brain. Reproductive Science. 2007 Feb;14(2):182-91. PMID: 17636230
- 59. Thompson DK, Warfield SK, Carlin JB, Pavlovic M, Wang HX, Bear M, Kean MJ, Doyle LW, Egan GF, Inder TE. Perinatal Risk Factors Altering Regional Brain Structure in the Preterm Infant. Brain 2007 Mar;130(Pt 3):667-77. PMID: 17008333
- Microstructural Changes of the Baboon Cerebral Cortex During Gestational Development Reflected in MRI Diffusion Anisotropy Cerebral Cortex. Journal of Neuroscience 2007; 27(46):12506-15. PMID: 18003829
- 61. Sizonenko SV, Camm EJ, Garbow J, Maier S, **Inder TE**, Kiss JZ, Williams CE, Neil JJ, Huppi PS. Developmental Changes and Injury Induced Disruption of the Radial Organization of the Cortex in the Immature Rat Brain Revealed by In Vivo Diffusion Tensor MRI (DTI). Cerebral Cortex 2007 Nov;17(11):2609-17. PMID: 17259644
- 62. Mewes A, Zöllei L, Hüppi P, Als H, McAnulty G, **Inder T**, Wells W, Warfield S. Displacement of Brain Regions in Preterm Infants with Non-Synostotic Dolichocephaly Investigated by MRI. Neuroimage 2007;15;36(4)1074-1085. PMID: 17513129
- 63. Filan PM, **Inder TE**, Anderson PJ, Doyle LW, Hunt RW. Monitoring the Neonatal Brain: A Survey of Current Practice Among Australian and New Zealand Neonatologists. Journal of Paediatric Child Health. 2007; 43(7-8):557-559. PMID: 17635686
- Rees SM, Camm EJ, Loeliger M, Cain S, Dieni S, McCurnin D, Shaul PW, Yoder B, McLean C, Inder T. Inhaled Nitric Oxide and the Premature Brain. Pediatric Research 2007;61:552-8. PMID: 17413862

- 65. Shah DK, Mackay MT, Lavery S, Watson S, Harvey S, Zempel J, Mathur A, **Inder TE**. The Accuracy of Bedside EEG Monitoring for Seizure Detection in Term Infants. Pediatrics 2008;121(6):1146-54. PMID: 18519484
- 66. Mathur A, Morris L, **Inder TE**, Zempel J. Utility of Prolonged Beside aEEG in Encephalopathic Infants. American Journal of Perinatology 2008;25(10):611-5. PMID: 18841534

- 67. Thompson DA, Wood SJ, Egan GF, Doyle LW, Warfield SK, Lodygensky GA, Anderson PJ, **Inder TE**. Neonate Hippocampal Volumes: Prematuring, Perinatal Predictors and 2 year Outcomes. Annals of Neurology 2008;63(5):642-51. PMC: 3964592
- 68. Cheong JLY, Hunt RW, Anderson PJ, Howard K, Thompson DK, Wang HX, **Inder TE**, Doyle LW. Head Growth in Preterm Infants: Correlation with MRI and Neurodevelopmental Outcomes. Pediatrics 2008 Jun;121(6):e1534-40. PMID: 18519457
- 69. Beauchamp MH, Thompson DK, Howard K, Doyle LW, Egan GF, **Inder TE**, Anderson P. Preterm Infant Hippocampal Volumes Correlate with Later Working Memory Deficits. Brain 2008;131:2986-94. PMID: 18799516
- 70. Edgin JO, **Inder TE**, Anderson P, Hood KM, Woodward LJ. Early Executive Functioning in Preschool Children Born Very Preterm: Relationship with Early White Matter Pathology. Internal Neuropsychological Society 2008 Jan;14(1):90-101. PMID: 18078535
- 71. Lavery SV, Shah DK, Hunt RW, Filan PM, Doyle LW, **Inder TE**. Single Versus Bihemispheric Amplitude Integrated EEG in Relation to Cerebral Injury and Outcome in the Term Encephalopathic Infant. Journal of Pediatrics and Child Health 2008;44(5):285-90. PMID: 18416705
- 72. Spittle AJ, Brown NC, Doyle LW, Boyd RN, Hunt RW, Bear MJ, **Inder T**. Quality of General Movements Related to White Matter Pathology in Very Preterm Infants. Pediatrics 2008;121(5):e1184-9. PMID: 18390959
- 73. Shah DK, Doyle LW, Anderson PJ, Bear M, Daley AJ, Hunt RW, **Inder TE**. Adverse Neurodevelopment in Preterm Infants with Postnatal Sepsis or Necrotizing Enterocolitis is Mediated by White Matter Abnormality on Magnetic Resonance Imaging at Term. Journal of Pediatrics 2008;153(2):170-5. PMID: 18534228

- 74. Spittle AJ, Boyd RN, Anderson PA, **Inder TE**, Bear M, Doyle LW. Predicting Motor Development in Very Preterm Infants at 12 months Corrected Age: The Role of Qualitative MRI and General Movements Assessment. Journal of Pediatrics 2009;123(2):512-7. PMID: 19171616
- 75. Treyvaud K, Anderson VA, Howard K, Bear M, Hunt RW, Doyle LW, **Inder TE**, Woodward L, Anderson PJ. Parenting Behavior is Associated with Early Neurobehavioral Development of Very Preterm Infants. Pediatrics 2009;123(2):555-61. PMID: 19171622
- 76. Cheong JLY, Thompson DK, Wang HX, Hunt RW, **Inder TE**, Doyle LW. Abnormal White Matter Signal on Magnetic Resonance Imaging is Related to Abnormal Tissue Microstructure. American Journal of Neuroradiology 2009;30(3):623-8. PMID: 19131414
- 77. Loeliger M, **Inder TE**, Dalitz PA, Cain S, Camm EJ, Folkerth R, Yoder B, McCurnin D, Coalson J, Shaul PW, Clyman R, Rees SM. Developmental and Neuropathological Consequences of Ductal Ligation in the Preterm Baboon. Pediatric Research 2009;65(2):209-14. PMCID: 2686107
- 78. Thompson DK, Wood SJ, Doyle LW, Warfield SK, Egan GF, **Inder TE**. MR Determined Hippocampal Asymmetry in Term and Preterm Newborn Infants. Hippocampus 2009;19(2):118-23. PMID: 18767066 PMCID: 2631622
- 79. Woodward LJ, Moor S, Hood KM, Champion PR, Foster-Cohen S, **Inder TE**, Austin NC. Four Year Neurodevelopmental Outcomes of Children Born Very Preterm. Archives of Diseases in Childhood 2009; 94(5):F339-44. PMID: 19307223
- 80. Rees SM, Loeliger MM, Munro KM, Shields A, Dalitz PA, Dieni S, Cain S, Thomson MA, Coalson J, Inder TE. Cerebellar Development in a Baboon Model of Preterm Delivery Effects of Early Versus Delayed Nasal Continous Positive Airway Pressure Ventilation. Journal of Neuropathy and Experimental Neurology 2009; 68:605-15. PMCID: 2766603

- 81. Nguyen The Tich S, Shimony JS, Anderson PJ, Hunt RW, Doyle LW, **Inder TE**. A Novel Quantitative Simple Brain Metric Using MRI for Preterm Infants. American Journal of Neuroradiology 2009;30(1):125-31. PMID: 18832662 PMCID: 2818625
- 82. Beca J, Gunn J, Coleman L, Hope A, Whelan L, Gentles T, **Inder TE**, Hunt R, Shekerdemian L. Preoperative Brain Injury in Newborn Infants with Transposition of the Great Arteries Occurs at Similar Rates to Other Complex Congenital Heart Disease and is Not Related to Balloon Atrial Septostomy. Journal of American College of Cardiology. 2009;53:1807-11. PMID: 19422989
- 83. Lawrence R, Mathur A, Nguyen The Tich S, Zempel J, **Inder TE**. A Pilot Study of the Impact of Continuous Limited Channel EEG in Term Infants with Encephalopathy. Journal of Pediatrics 2009; 154:835-41. PMID: 19230897
- 84. Brown N, **Inder TE**, Bear M, Hunt R, Anderson PJ, Doyle L. Neurobehavior at Term and White Gray Matter Abnormalities in Very Preterm Infants. Journal of Pediatrics 2009; 155:32-8. PMID: 19394041
- 85. Barnette A, Neil J, Kroenke C, Griffith J, Epstein A, Bayly P, Knutsen A, **Inder TE**. Characterization of Brain Development in the Ferret via Magnetic Resonance Imaging. Pediatric Research 2009; 66:80-4. PMCID: 3384539
- Spittle A, Trevyaud K, Doyle L, Roberts G, Lee K, Inder TE, Cheong J, Hunt R, Newhnam C, Anderson P. Early Emergence of Behavior and Social-Emotional Problems in Very Preterm Infants. Journal of Child and Adolescent Psychiatry 2009;48(9):909-18. PMID: 19633579
- 87. Newnham CA, **Inder TE**, Milgrom J. Measuring Preterm Cumulative Stressor within the NICU: The Neonatal Infant Stressor Scale. Early Human Development 2009;85(9):549-55. PMID: 19520525
- Loeliger M, Inder TE, Shields A, Dalitz P, Cain S, Yoder B, Rees SM. High-Frequency Oscillatory Ventilation is not Associated with Increased Risk of Neuropathology Compared with Positive Pressure Ventilation: A Preterm Primate Mode. Pediatric Research 2009;66(5):545-PMCID: 2804748
- 89. Spittle AJ, Ferretti C, Anderson PJ, Orton J, Eeles A, Bates L, Boyd RN, **Inder TE**, Doyle LW. Improving the Outcome of Infants Born at < 30 weeks Gestation A Randomized Controlled Trial of Preventative Care at Home. BMC Pediatrics 2009 Dec 3;9:73. PMCID: 2797498

- Hathi M, Sherman D, Inder TE, Rothman N, Natarajan A. Quantitative EEG in Babies at Risk for Hypoxic Ischemic Encehalopathy after Perinatal Asphyxia. Journal of Perinatology 2010;30(2):122-6. PMID: 19741652 PMCID: 2885544
- 91. Lodygensky G, West T, Stump M, Holtzman D, **Inder T**, Neil J. In-vivo MRI Analysis of an Inflammatory Injury in the Developing Brain. Brain Behav Immunology 2010 Jul;24(5):759-67. PMID: 19945527 PMCID: 2277321
- 92. Treyvaud K, Anderson V, Lee K, Woodard L, Newnham C, **Inder TE**, Doyle L, Anderson P. Parental Mental Health and Early Social-Emotional Development of Very Preterm Children. Journal of Pediatric Psychology 2010;35(7) 768-77. PMID: 19955253
- 93. Shah DK, Zempel J, Barton T, Lukas K, **Inder TE**. Electroencephalographic Seizures in Preterm Infants during the First Week of Life is Associated with Cerebral Injury. Pediatric Research 2010;67(1):102-6. PMID: 19745782
- 94. Barnette A, Myers B, Berg C, **Inder TE**. Sodium Intake and Intraventricular Hemorrhage in the Preterm Infant. Annals of Neurology 2010;67(6):817-23. PMID: 20517944
- 95. Hill J, Dierker D, Neil J, **Inder T**, Knutsen A, Harwell J, Coalson T, Van Essen D. A Surfaced Based Ananlysis of Hemispheric Asymmetries and Folding of Cerebral Cortex in Term-Born Human Infants. Journal of Neuroscience 2010;10;30 (6) 2268-76. PMID: 20147553 PMCID: 2836191

- 96. Smyser CD, Inder TE, Shimony JS, Hill JE, Degnan AJ, Synder A, Neil JJ. Longitudinal Analysis of Neural Network Development in Preterm Infants. Cerebral Cortex 2010;20(12): 2852-62. PMCID: 2978240
- 97. Spittle AJ, Doyle LW, Anderson PJ, **Inder TE**, Lee KJ, Boyd RN, Cheong JL. Reduced Cerebellar Diameter in very Preterm Infants with Abnormal General Movements. Early Human Development 2010;86(1):1-5. PMID: 20004536
- 98. Milgrom J, Newnham C, Anderson PJ, Doyle LW, Gemmill AW, Lee K, Hunt RW, Bear M, **Inder T**. Early Sensitivity Training for Parents of Preterm Infants: Impact on the Developing Brain. Pediatric Research 2010;67(3):330-5. PMID: 19952869
- 99. Liao SM, Gregg NM, White BR, Zeff BW, Bjerkaas KA, Inder TE, Culver JP. Neonatal Hemodynamic Response to Visual Cortex Activity: A high-density NIRS study. Journal of Biomedical Optics 2010;15(2):026010. PMCID: 2874048
- 100. Verney C, Rees S, Biran V, Thompson M, Inder T, Gressens P. Neuronal Damage in the Preterm Baboon: Impact of Ventilatory Support. Journal of Neuropathology Experimental Neurology 2010;69(5):473-82. PMCID: 3034245
- Hill J, Inder TE, Neil J, Dierker D, Harwell J, Van Essen D. Similar Patterns of Cerebral Expansion During Human Development and Evolution. Proc Natl Acad Sci U S A. 2010; 20;107(29):13135-40.
 PMID: 20624964 PMCID: 2919958
- 102. Spittle A, Anderson PJ, Lee K, Ferreti C, Eeles A, Orton J, Boyd R, Inder TE, Doyle L. Preventative Care at Home for very Preterm Infants Improves Infant and Caregive Outcomes at 2 years: Results of a Randomized Controlled Trial. Pediatrics 2010;126(1):e171-8. PMID: 20547650
- 103. Loeliger M, Shields A, McCurnin D, Clyman RI, Yoder B, Inder TE, Rees SM. Ibuprofen Treatment for Closure Of Patent Ductus Arteriosus Is Not Associated With Increased Risk Of Neuropathology. Pediatric Research. 2010;68(4):298-302. PMCID: 2976654
- 104. Berg CS, Barnette AR, Myers BJ, Shimony MK, Barton AW, Inder TE. Sodium Bicarbonate Administration and Outcome in Preterm Infants. Journal of Pediatrics 2010;157(4):684-7. PMID: 20580021
- 105. Limbrick D, Mathur A, Munro R, Johnston J, Inder T, Park TS, Leonard J, Smyth M. Neurosurgical Treatment of Progressive Post-Hemorrhagic Ventricular Dilatation in Preterm Infants: A 10 year Single –Institution Study. Journal of Neurosurgery Pediatrics. 2010;6(3):224-30 PMID:20809705
- 106. Doyle LW, Cheong J, Hunt RW, Lee KJ, Thompson DK, Davis PG, Rees S, Anderson PJ, Inder TE. Caffeine and Brain Development in very Preterm Infants. Annals Neurology 2010;68 (5): 734-42 PMID: 21031585
- 107. Lawrence R, Inder T, Neonatal Status Epilepticus. Seminars in Pediatric Neurology, 2010;17(3):1063-168.

- 108. Woodward LJ, Clark CAC, Pritchard VE, Anderson PJ, **Inder TE**. Neonatal White Matter Abnormalities Predict Global Executive Function Impairment in Children Born Very Preterm. Developmental Neuropsychology 2011;36 (1): 22-41. PMID: 21253989
- 109. Rees S, Loeliger M, Shields A, Shaul P, McCurnin D, Yoder B, **Inder T**. The Effects of Postnatal Estrogen Therapy on Brain Development in Preterm Baboons. 2010 The American Journal of Obstetrics and Gynecology 2011;204(2)177:e8-14 PMCID: 3032810
- 110. Thompson D, Inder T, Faggian N, Johnston L, Simon W, Anderson P, Doyle L, Egan F. Characterization of the Corpus Callosum in the very Preterm and Full Term Infants Utilizing MRI. Neuroimage 2011;15;55(2):479-90 PMCID: 3035727

- 111. Tich SN, Anderson PJ, Hunt RW, Lee KJ, Doyle LW, **Inder TE**. Neurodevelopmental and Perinatal Correlates of Simple Brain Metrics in Preterm Infants. Arch Pedatrics Adolescent Medicine 2011;165(3):216-22 PMID:2138327
- 112 Treyvaud K, Doyle LW, Lee KJ, Rogerts G, Cheong JL, **Inder TE**, Anderson PU. Family Functioning, Burden and Parenting Stress 2 years after very Preterm Birth. Early Human Development 2011;87(6):427-31 PMID:21497029
- 113. Jacobs S, Morley C, **Inder T**, Stewart M, Smith K, McNamara P, Wright I, Kipalani H, Darlow B, Doyle L. Whole-body Hypothermia for term and Near – Term Newborns with Hypoxic – Ischemic Encephalopathy. Archives of Pediatric Adolescent Medicine 2011;165(8)692-700 PMID:21464374
- 114. Howard K, Roberts G, Lim J, Lee K, Barre N, Treyvaud K, Cheong J, Hunt R, **Inder T**, Doyle L, Anderson P. Biological and Environmental Factors as Predictors of Language Skills in very Preterm Children at 5 years age. Journal of Developmentental & Behavioral Pediatrics 2011;32(2):239-49 PMID:21317804
- 115. Smith G, Gutovich J, Smyser C, Pineda R, Newnham C, Tjoeng T, Vavasseur C, Wallendorf M, Neil J, **Inder T**. Neonatal Intensive Care Unit Stress is Associated with Brain Development in Preterm Infants. Annals of Neurology 2011;70(4):541-9 PMCID: 4627473
- 116. Kidokoro H, Anderson P, Doyle LW, Neil JJ, **Inder TE**, High Signal Intensity on T2 Weighted MR Imaging at Term Equivalent Age in Preterm Infants Does Not Predict Two Year Neurodevelopmental Outcomes AJNR 2011;32(11):2005-10
- 117. Spittle AJ, Cheong J, Doyle LW, Roberts G, Lee KJ, Lim J, Hunt RW, **Inder** TE, Anderson PJ. Neonatal white matter abnormality predicts childhood motor impairment in very preterm children. Developmental Medicine & Child Neurology 2011;53(11):1000-1006.

- 118. Pineda R, Stransky K, Rogers C, Hensley M, Smith G, Neil J, Inder T. The Single Patient Room in the NICU: Maternal and Famiy Effects. Journal of Perinatology 2012;32(7):545-51. PMCID: 3790962
- 119. White BR, Liao SM, Ferradal SL, **Inder TE**, Culver JP. Bedside Optical Imaging of Occipital Resting-State Functional Connectivity in Neonates. Neuroimage 2012;59(3):2529-38 PMCID: 3598616
- 120. Bednarek N, Mathur A, **Inder T**, Wilkinson J, Neil J, Shimony J. Impact of Therapeutic Hypothermia on MRI Diffusion Changes in Neonatal Encephalopathy. Neurology 2012;71(2):1420-7 PMCID: 3345786
- 121. Filan P, Hunt R, Anderson P, Doyle L, **Inder TE**. Neurological Outcomes in Very Preterm Infants Undergoing Surgery. Journal of Pediatrics 2012;160(3):409-14 PMID:22048043
- 122. Tao JD, Barnette AR, Griffith JL, Neil JJ, **Inder TE**. Histopathologic Correlation With Diffusion Tensor Imaging Following Chronic Hypoxia in the Immature Ferret. Pediatric Research 2012;71(2):192-8 PMID:22258131
- 123. Ortinau C, Beca J, Lambeth J, Ferdman B, Alexopoulos D, Shimony JA, Wallendorf M, Neil J, Inder T. Regional Alterations in Cerenral Growth Exist Pre-Operatively in Infants with Congenital Heart Disease. Journal of Cardiothoracic and Vascular Surgery 2012;143(6): 1264-1270.e2 PMCID: 3322305
- 124. Griffith J, Cousins S, Rees S, McCurn D, **Inder T**, Neil J. MR Imaging Correlates of White Matter Pathology in a Preterm Baboon Model. Pediatric Research Jan 2012;71(2):185-91 PMCID: 3590025
- 125. Thompson DK, **Inder T**, Faggian N, Warfield S, Anderson P, Doyle L, Egan G. Corpus Callosum Alterations in Very Preterm Infants: Perinatal Correlates and 2 year Neurodevelopmental Outcomes. Neuroimage 2012;15;59(4):3571-81 PMCID: 3288421.
- 126. Rogers CE, Anderson PJ, Thompson DK, Kidokoro H, Wallendorf M, Treyvaud K, Roberts G, Doyle LW, Neil JJ, **Inder TE**. Regional Cerebral Development at Term Relates to School Age Social-

Emotional Development in Very Preterm Children. J Am Acad Child Adolesc Psychiatry2012;51(2):181-91 PMCID: 3411187

- 127. Thompson D, Ahmadzai B, Wood S, **Inder T**, Warfield S, Doyle L, Egan G. Optimizing Hippocampal Segmentation in Infants Utilizing MRI Post-Acquisition Processing. Neuroinformatics 2012;10(2):173-80 PMCID: 3717374
- 128. Chen B, Tuuli MG, Longtine MS, Shin JS, Lawrence R, **Inder T**, Michael Nelson D. Pomegranate Juice and Punicalagin Attenuate Oxidative Stress and Apoptosis in Human Placenta and in Human Placental Trophoblasts. American Journal of Physiology Endocrinology Metabolism 2012;302(9):E1142-52 PMCID: 3361977
- 129. Morales DM, LeDuc R, Malone JP, Ewersmann CA, Townsend RR, **Inder TE**, Limbrick DD, Alterations in Protein Regulators of Neurodevelopment in the Cerebrospinal Fluid of Infants with Post-hemorrhagic Hydrocephalus of Prematurity. Molecular Cellular Proteomics 2012;11(6):M111.011973. PMCID: 3433889
- 130. Treyvaud K, Doyle L, Lee K, Roberts G, Lim J, **Inder T**, Anderson P. Social-Emotional Difficulties in very Preterm and Term Born Two Years Old Predict Social-Emotional Problems at Five years. Journal of Pediatric Psychology 2012;37(7):779-85. PMID:22408055
- 131. Treyvaud K, **Inder TE**, Lee KJ, Northam EA, Doyle LW, Anderson PJ. Can the Home Environment Promote Resilience for Children born very Preterm in the Context of Social and Medical Risk? Journal of Experimental Child Psychology 2012;112(3):326-37 PMID:22480454
- 132. Ortinau C, **Inder T**, Lambeth J, Wallendorf M, Finucane K, Beca J. Congential Heart Disease Affects Cerebral Size but Not Brain Growth. Pediatric Cardiology 2012;33(7):1138-46. PMCID: 3702162
- 133. Nelson, KB, Bingham P, Edwards EM, Horbard JD, Kenny MJ, **Inder TE**, Pfister RH, Raju T, Soll. RF Antecedents of Neonatal Encephalopathy in the Vermont Oxford Network Neonatal Encephalopathy Registry. Pediatrics 2012;130(5):878-86. PMCID: 4074646
- Rogers C, Kidokoro H, Pineda B, Inder T. Identifying Mothers of Very Preterm Infants At-risk for Postpartum Depression and Anxiety Prior to Discharge. Journal of Perinatology 2012;130(5):878-86. PMCID: 3584234
- 135. Woodward LJ, Clark CA, Bora S, **Inder TE**. Neonatal White Matter Abnormalities an Important Predictor of Neurocognitive Outcome for very Preterm Children. PLOS One 2012;7(12):e51879.doi: 10.1371 PMID:23284800 PMCID: 3532310
- 136. Liao SM, Ferradal SL, White BR, Gregg N, **Inder TE**, Culver JP. High-Density Diffuse Optical Tomography of Term Infant Visual Cortex in the Nursery. Journal of Biomedical Optics 2012;1;17(8):81414. PMCID: 2291961
- 137. Smith JR, Raney M, Conner S, Coffelt P, McGrathy J, Brotto M, **Inder T**. Application of the M Technique in Hospitalized Very Preterm Infants: A Feasibility Study. Advanced Neonatal Care 2012;12 Suppl 5:S10-7. PMID:22968000
- 138. Smyser CD, Kidokoro H, **Inder TE**. Magnetic Resonance Imaging of the Brain at Term Equivalent Age in Extremely Premature Neonates: To Scan or not to Scan? Journal of Paediatric Child Health 2012;48(9):794-800. PMCID: 359503
- 139. Cheong JL, Coleman L, Hunt RW, Lee KJ, Doyle LW, **Inder TE,** Jacobs SE; Infant Cooling Evaluation Collaboration. Prognostic Utility of Magnetic Resonance Imaging in Neonatal Hypoxic-Ischemic Encephalopathy: Substudy of A Randomized Trial. Journal of Experimental Child Psychology 2012;112(3):326-37 PMID:22751877
- 140. Cheong JL, Coleman L, Hunt RW, Lee KJ, Doyle LW, **Inder TE**, Jacobs SE. Prognostic Utility of Magnetic Resonance Imaging in Neonatal Hypoxic-Ischemic Encephalopathy : Substudy of a Randomized Trial Arch Pediatr & Adolesc Med 2012; 166(7): 634-640

- 141. Pfister RH, Bingham P, Edwards EM, Horbar JD, Kenny MJ, **Inder TE**, Nelson KB, Raju T, Soll RE. The Vermont Oxford Neonatal Encephalopathy Registry: Rationale, methods, and initial results. BMC Pediatrics 2012:12L84.
- 142. Kidokoro H, **Inder T**, Okumura A, Watanabe K. What does cyclicity on amplitude-integrated EEG mean? Journal of Perinatology 2012;32(8):565-569.

- 143. Reidy N, Morgan A, Thompson DK, **Inder TE**, Doyle LW, Anderson PJ. Impaired Language Abilities and White Matter Abnormalities in Children Born Very Preterm and/or Very Low Birth Weight. Journal of Pediatrics Epub 2013;162 94):719-24. PMCID: 3600107
- 144. Pineda RG, Tjoeng TH, Vavasser C, Kidokoro H, Neil JJ, **Inder T**. Patterns of Altered Neurobehavior in Preterm Infants with the Neonatal Intensive Care Unit. Journal of Pediatrics 2013;162(3):470-476 PMCID: 3582758
- 145. Mitchell TJ, Neil JJ, Zempel JM, Thio LL, **Inder TE**, Bretthorst GL. Automating the Analysis of EEG Recordings from Prematurely-born Infants: A Bayesian Approach. Clinical Neurophysiology 2013;124(3):452-61. PMCID: 4151276
- 146. Srinivasakumar P, Limbrick D, Munro R, Mercer D, Rao R, **Inder T**, Mathur A. Posthermorrhagic Ventricular Dilatation-Impact on Early Neurodevelopmental Outcome. American Journal of Perinatology 2013;30(3):207-14 PMID:22898993
- 147. Pineda RG, Castellano A, Rogers C, Neil JJ, **Inder T**. Factors Associated with Developmental Concern and Intent to Access Therapy Following Discharge from the NICU. Pediatric Physical Therapy 2013;25(1):62-9. PMCID: 3554262
- 148. Thompson D, Adamson C, Roberts G, Lim G, Faggian N, Wood S, Warfield S, Doyle L, Anderson P, Egan G, Inder T. Hippocampal Shape Variations at term Equivalent age in Very Preterm Infants Compared with Term Controls: Perinatal Predictors and Functional Significance at age 7. Neuroimage 2013;15;70:278-87. PMID: 23296179 PMCID: 3584256
- 149. Reynolds LC, Duncan MM, Smith GC, Mathur A, Neil J, **Inder T**, Pineda RG. Parental Presence and Holding in the NICU and Associations with Early Neurobehavior. Journal of Perinatology 2013;33(8):636-41 PMCID: 3700586
- 150. Ortinau C, Alexopoulos D, Dierker D, Van Essen D, Beca J, **Inter TE**. Cortical Folding is Altered Before Surgery in Infants with Congenital Heart Disease. Journal of Pediatrics 2013 Nov;163(5):1507-10. PMCID: 3905308
- 151. Srinivasakumar P, Zempel J, Wallendorf M, Barton A, Lawrence R, **Inder T**, Mathur A. Anti-Seizure Effect of Therapeutic Hypothermia in Hypoxic-Ischemic Encephalopathy: A Novel Mechanism of Neuroprotection. Journal of Pediatrics 2013 Aug;163(2) 465-70.
- 152. Treyvaud K, Ure A, Doyle LW, Lee KJ, Rogers CE, Kidokoro H, **Inder TE**, Anderson PJ. Psychiatric outcomes at age seven for very preterm children: rates and predictors. J Child Psychol Psychiatry. 2013 Jul;54(7):772-9. PMCID: 3821531
- 153. Milgrom J, Newnham C, Martin P, Anderson PJ, Doyle LW, Hunt RW, Achenbach T, Ferretti C, Holt C, **Inder T,** Gemmill AW. Early Communication in Preterm Infants Following Intervention in the NICU. Early Hum Dev. 2013 Sep;89(9):755-62. PMID:23827378
- 154. Kidokoro H, Neil J, **Inder T**. New MR Imaging Assessment Tool to Define Brain Abnormalities in Very Preterm Infants at Term. American Journal of Neuroradiology 2013 Nov;34(11):2208-14. PMCID: 416369
- 155. Smyser C, Snyder A, Shimony JS, Blazey TM, **Inder TE**, Neil JJ. Effects of white matter injury on neural network development in prematurely born infants. PLOS One 2013 Jul 9;8(7):e68098. PMCID: 3706620

- 156. Crapnell T, Rogers C, Neil J, **Inder T**, Woodward L, Pineda R. Factors associated with feeding difficulties in the very preterm infant. Acta Paediatr. 2013 Aug 17. PMCID: 3873367
- 157. Zarem C, Kidokoro H, Neil J, Wallendorf M, **Inder T**, Pineda R. Psychometrics of the neonatal oral motor assessment scale. Dev Med Child Neurol. 2013 Dec;55(12):1115-20 PMCID: 3830735
- 158. Thompson DK, Thai D, Kelly CE, Leemans A, Tournier JD, Kean MJ, Lee KJ, **Inder TE**; Doyle LW, Anderson PJ and Hunt RW. Alterations in the Optic Radiations of Very Preterm Children Perinatal Predictors and Relationships with Visual Outcomes. Neuroimage 2013 Neuroimage Clin. 2013 Nov 28; 4: 145-53 PMCID: 3871291.

- 159. Estep M, Smyser C, Anderson P, Ortinau C, Wallendorf M, Katzman C, Doyle L, Thompson D, Neil J, Inder T, and Shimony J. Diffusion Tractography and Neuromotor Outcome in Very Preterm Children with White Matter Abnormalities. Pediatr Res. 2014 Jul;76(1):86-92. doi: 10.1038/pr.2014.45. Epub 2014 Apr 8. PMID:24713814
- 160. Kidokoro H, Anderson PJ, Doyle LW, Woodward LJ, Neil JJ, **Inder TE**. The Nature of Brain Injury and Altered Brain Growth in Preterm Infants: Predictors and Prognosis. Pediatrics 2014 Aug;134(2):e444-53. PMID: 25070300
- 161. Reynolds L, Mathur A, Shah D, **Inder TE**. Cerebral Maturation on Amplitude-Integrated Electroencephalography (aEEG) and Perinatal Exposures in Preterm Infants. Acta Pediatrica 2014 Mar;103(3):e96-e100 PMCID: 3945948
- 162. Thompson DJ, Lee K; Egan G; Warfield S, Doyle L, Anderson P; **Inder, T**. Regional white matter microstructure in very preterm infants: Predictors and 7 year outcomes. Cortex 2014, 52:60-74, PMCID: 3955713
- 163. Omizzolo C, Scratch SE, Stargatt R, Kidokoro H, Thompson DK, Lee KJ, Cheong J, Neil J, **Inder TE**, Doyle LW, Anderson PJ. Neonatal brain abnormalities and memory and learning outcomes at 7 years in children born very preterm. Memory. 2014; 22;605-615, PMCID: 3965650
- 164. Thompson DJ, Omizzolo C, **Inder TE**, Egan G, Doyle LW, Anderson PJ. Longitudinal growth and morphology of the hippocampus through childhood: Impact of prematurity and implications for memory and learning. Human Brain Mapping 2014 35;4129-4139. PMCID: 5516043
- 165. Scratch SE, Hunt RW, Thompson DK, Doyle LW, **Inder TE**, Anderson PJ. Free thyroxine levels after very preterm birth and neurodevelopmental outcomes at age 7 years. Pediatrics 2014 133:e955-963 PMCID: 3966502
- 166. Vesoulis ZA, Woodward LJ, **Inder TE**, Mathur AM.Early Electrographic Seizures, Brain Injury and Neurodevelopmental Risk in the Very Preterm Infant. Pediatr Res 2014 Dec:75(4):564-9. PMCID: 3961524
- 167. Vesoulis ZA, Paul RA, Mitchell TJ, **Inder TE**, Mathur AM. Normative Amplitude Integrated EEG (aEEG) Measures in Preterm Infants. Pediatrics 2014 Apr;75 (4) 564-9. PMCID: 3961524
- Barnette AR, Horbar JD, Soll RF, Pfister RH, Nelson KB, Kenny MJ, Raju TNK, Bingham PM, Inder TE. Neuroimaging in the Evaluation of Neonatal Encephalopathy. Pediatrics 2014 June 133(6);e1508-17. PMID:24864165
- 169. Lee, I., Neil J., Huettner P., Smyser C., Rogers C., Shimony J., Kidokoro H., Mysorekar I., and Inder TE. The impact of prenatal and neonatal infection on neurodevelopmental outcomes in very preterm infants. Clin Biochem. 2014 Oct;47(15):101-8. doi: 10.1016/j.clinbiochem.2014.06.002. Epub 2014 Jun 10. PMID:24927648
- 170. Bora S, Pritchard VE, Chen Z, **Inder TE**, Woodward LJ. Neonatal cerebral morphometry and later risk of persistent inattention/hyperactivity in children born very preterm. J Child Psychol Psychiatry. 2014;55:828-838 PMCID: 4065623

- 171. Madlinger-Lewis L, Reynolds L, Zarem C, Crapnell T, **Inder T**, Pineda R. The effects of alternative positioning on preterm infants in the neonatal intensive care unit: A randomized clinical trial. Res Dev Disabil. 2014 Feb;35(2):490-7 PMCID: 3938066
- 172. Cameron FJ, Scratch C, Neil J, Notham L, Wellard M, **Inder T**. Neurological Consequences of Diabetic Ketoacidosis at Initial Presentation of Type I Diabetes in Childhood. DKA Brain Injury Study Group.Diabetes Care. 2014 Jun;37(6):1554-62. doi: 10.2337/dc13-1904. PMCID: 4125363
- 173. Greaves RF, Zacharin MR, Donath SM, **Inder TE**, Doyle LW, Hunt RW. Establishment of hormone reference intervals for infants born <30 weeks' gestation. Clin Biochem. 2014 Oct;47(15):101-8. PMID:24927648
- 174. Strunk T, **Inder T**, Wang X, Burgner D, Mallard C, Levy O. Infection-induced inflammation and cerebral injury in preterm infants. Lancet Infect Dis. 2014 Aug;14(8):751-62. PMID:24877996 PMCID: 4125363
- 175. Smith JR, McGrath J, Brotto M, **Inder T**. A randomized-controlled trial pilot study examining the neurodevelopmental effects of a 5-week m technique intervention on preterm infants. Adv Neonatal Care. 2014 Jun;14(3):187-200. PMID:24858669 PMC in process
- 176. Reynolds LC, **Inder TE**, Neil JJ, Pineda RG, Rogers CE. Maternal obesity and increased risk for autism and developmental delay among preterm infants. J Perinatol. 2014 May;33(9):688-92. J Perinatol. 2014 Sep;34(9):688-92. doi: 10.1038/jp.2014.80. Epub 2014 May 8. PMID: 24811227 PMCID: 4152391
- 177. Murray AL, Scratch SE, Thompson DK, **Inder TE**, Doyle LW, Anderson JF, Anderson PJ. Neonatal brain pathology predicts adverse attention and processing speed outcomes in very preterm and/or very low birth weight children. Neuropsychology. 2014 Apr;28(4):552-62. PMCID: 4106799
- 178. Kidokoro H, Anderson PJ, Doyle LW, Woodward LJ, Neil JJ and **Inder TE**. Brain injury and altered brain growth in preterm infants: Predictors and prognosis. Pediatrics 2014 134(2):e444-53. doi: 10.1542/peds.2013-2336. PMID: 25070300
- 179. **Inder T**. The current state of the nation in evaluating the neonatal brain Who? Why? How? Current Pediatric Reviews, 2014; 10(1)1.
- 180. Paul RA,Smyser CD, Rogers CE, English DI, Wallendorf M, Alexopoulos D, Meyer EJ, Van Essen DC, Neil JJ, Inder TE. An allometric scaling relationship in the brain of preterm infants. Ann Clin Transl Neurol. 2014 Nov;1(11):933-7. doi: 10.1002/acn3.130. Epub 2014 Oct 9. PMID: 25540808 PMCID: 4265065
- 181. Pineda RG, Neil J, Dierker D, Smyser CD, Wallendorf M, Kidokoro H, Reynolds LC, Walker S, Rogers C, Mathur AM, Van Essen DC, Inder T. Alterations in Brain Structure and Neurodevelopmental Outcome in Preterm Infants Hospitalized in Different Neonatal Intensive Care Unit Environments. J Pediatr. 2014 164:52-60 e52. PMCID: 3872171

- 182. Crapnell TL, Woodward LJ, Rogers CE, **Inder TE**, Pineda RG. Neurodevelopmental Profile, Growth, and Psychosocial Environment of Preterm Infants with Difficult Feeding Behavior at Age 2 Years. *J Pediatr*. 2015;167(6):1347-1353.PMCID: 4662882
- 183. Steinhorn R, McPherson C, Anderson P, Zhang Y, Alexopoulous D, Neil J, Doyle LW, **Inder TE.** Neonatal morphine exposure in very preterm infants – cerebral development and outcomes. Journal of Pediatrics 2015 May;266(5):1200-1207 e4. PMCID: 4928575
- 184. McPherson C, Neil J, Tjoeng T, Pineda R and Inder T. A pilot randomized trial of high-dose caffeine therapy in preterm infants. Pediatr Res 2015 Aug:78(2):198-204. J Clin Endocrinol Metab. 2015 Jul;100(7):2709-17. doi: 10.1210/jc.2014-4342. Epub 2015 May 14.PMID: 25974734 PMCID: 4928641

- 185. Zhang Y, **Inder TE**, Neil JJ, Dierker DL, Alexopoulos D, Anderson PJ and Van Essen DC. Cortical structural abnormalities in very preterm children at 7 years of age. Neuroimage. 2015 Apr 1;109:469-79. doi: 10.1016/j.neuroimage.2015.01.005. Epub 2015 Jan 20. PMID:25614973 PMCID: 4340728
- 186. Thompson DK, Lee KJ, van Bijnen L, Leemans A, Pascoe L, Scratch SE, Cheong J, Egan GF, **Inder TE**, Doyle LW, Anderson PJ. Accelerated corpus callosum development in prematurity predicts improved outcome. Hum Brain Mapp. 2015;36:3733-3748 Hum Brain Mapp. 2015 Oct;36(10):3733-48. doi: 10.1002/hbm.22874. PMID: 26108187
- 187. Engelhardt E, Inder TE, Alexopoulos D, Dierker D, Hill J, Van Essen D and Neil JJ. Regional impairments in cortical folding of premature infants. Ann Neurol. 2015 Jan;77(1):154-62. doi: 10.1002/ana.24313. PMID: 25425403 PMCID: 4324979
- 188. Morales DM, Holubkov R, **Inder TE**, Ahn HC, Mercer D, Holtzman D and Limbrick DD. Cerebrospinal fluid levels of amyloid precursor protein are associated with ventricular size in post-hemorrhagic hydrocephalus of prematurity. J Clin Endocrinol Metab. 2015 Jul;100(7):2709-17. doi: 10.1210/jc.2014-4342. Epub 2015 May 14. PMID: 25974734 PMCID: 4349693
- 189. Pascoe L, Scratch SE, Burnett AC, Thompson DK, Lee KJ, Doyle LW, Cheong JL, Inder TE, Anderson PJ. Neurodevelopmental Outcomes and Neural Mechanisms Associated with Non-right Handedness in Children Born Very Preterm. J Int Neuropsychol Soc. 2015. Sept;2015;21:610-621. PMCID: 4792512
- 190. McPherson C, Haslam M, Pineda R, Rogers C, Neil JJ, **Inder TE**. Brain Injury and Development in Preterm Infants Exposed to Fentanyl. Ann Pharmacother. 2015;49(12):1291-1297. PMCID: 4644677
- 191. Ullman H, Spencer-Smith M, Thompson DK, Doyle LW, **Inder TE**, Anderson PJ, Klingberg T. Neonatal MRI is associated with future cognition and academic achievement in preterm children. Brain. 2015, Nov:138(Pt11):3251-62. PMCID: 4731414
- 192. Srinivasakumar P, Zempel J, Trivedi S, Wallendorf M, Rao R, Smith B, **Inder TE.** Mathur AM. Treating EEG seizures in hypoxic ischemic encephalopathy: A randomized controlled trial. Pediatrics. 2015, Nov;136(5):e1302-09. PMID: 26482675
- 193. Wu Q, Chen W, Sinha B, Tu Y, Manning S, Thomas N, Zhou S, Jiang H, Ma H, Kroessler DA, Yao J, Li Z, **Inder TE**, Wang X. Neuroprotective agents for neonatal hypoxic-ischemic brain injury. Drug Discov Today. 2015, 20:1372-1381. PMID: 2630053
- 194. Scratch SE, Anderson PJ, Doyle LW, Thompson DK, Ahmadzai ZM, Greaves RF, **Inder TE**, Hunt RW. High postnatal growth hormone levels are related to cognitive deficits in a group of children born very preterm. J Clin Endocrinol Metab. 2015, 100:2709-17. PMCID: 4490305
- 195. Vesoulis ZA, Paul RA, Mitchell TJ, Wong C, **Inder TE,** Mathur AM. Normative amplitude-integrated EEG measures in preterm infants. J Perinatol. 2015 Jun;35(6):428-33. doi: 10.1038/jp.2014.225. Epub 2014 Dec 18.PMID: 25521561 PMCID: 4447544
- 196. Pineda R, Melchior K, Oberle S, **Inder T**, Rogers C. Assessment of Autism Symptoms During the Neonatal Period: Is There Early Evidence of Autism Risk? American Journal of Occupagitonal Therapy 2015;69(4):1-11.

197. Ure A, Treyvaud K, Thompson DK, Pascoe L, Roberts G, Lee KJ, Seal ML, Northam E, Cheong JL, Hunt RW, **Inder TE,** Doyle LW, and Anderson PJ. Neonatal brain abnormalities associated with autism spectrum disorder in children born very preterm. Autism Res 2016;9:543-552. PMID: 26442616

- 198. Ferradal SL, Liao SM, Eggebrecht AT, Shimony JS, **Inder TE**, Culver JP, Smyser CD. Functional imaging of the Developing Brain at the Bedside Using Diffuse Optical Tomography. Cereb Cortex 2016;26(4(1558-1568. PMID:25595183 PMCID: 4785947
- 199. Smyser CD, Snyder AZ, Shimony JS, **Inder TE**, Mitra A, Neil JJ. Resting-state network complexity and magnitude are reduced in prematurely born infants. *Cereb Cortex.* 2016;26(1):322-333.PMID:25331596 PMCID: 4785947
- 200. Murray AL, Thompson DK, Pascoe L, Leemans A, **Inder TE,** Doyle LW, Anderson, JF, Anderson PJ. White matter abnormalities and impaired attention abilities in children born very preterm. *Neuroimage*. 2016;124(Pt A):75-84. PMCID: 4791057
- 201. Pineda RG, Reynolds LC, Seefeldt K, Hilton CL, Rogers CL, **Inder TE**. Head lag in infancy: what is it telling us? Am J Occup Ther. 2016;70(1):7001220010p1-8. PMCID: 4690596
- 202. Shimony JS, Smyser CD, Wideman G, Alexopoulos D, Hill J, Harwell J, Dieker D, Van Essen DC, Inder TE, Neil JJ. Comparison of cortical folding measures for evaluation of developing human brain. NeuroImage. 2016, 125:780-90. PMCID: 4691428
- 203. Rogers CE, Smyser T, Smyser CD, Shimony J, **Inder TE**, Neil JJ. Regional white matter development in very preterm infants: perinatal predictors and early developmental outcomes. Pediatr Res. 2016;79:87-95. PMCID: 4724306
- 204. Vesoulis ZA, McPherson C, Neil JJ, Mathur AM, **Inder TE.** Early High-Dose Caffeine Increases Seizure Burden in Extremely Preterm Neonates: A Preliminary Study. J Caffeine Res. 2016;6(3):101-107. PMID:27679737 PMCID: 5031091
- 205. Belfort MB, Anderson PJ, Nowak VA, Lee KJ, Molesworth C, Thompson DK, Doyle, LW, **Inder TE.** Breast Milk Feeding, Brain Development, and Neurocognitive Outcomes: A 7-Year Longitudinal Study in Infants Born at Less Than 30 Weeks' Gestation. J Pediatr. 2016;177:133-139 e131. PMCID: 5037020
- 206. Monson BB, Anderson PJ, Matthews LG, Neil JJ, Kapur K, Cheong JL, Doyle LW, Thompson DK, Inder TE. Examination of the Pattern of Growth of Cerebral Tissue Volumes From Hospital Discharge to Early Childhood in Very Preterm Infants. JAMA Pediatr. 2016;170(8):772-779. PMID: 27368090
- 207. Smyser CD, Dosenbach NU, Smyser TA, Snyder AZ, Rogers CE, **Inder TE**, Schlaggar BL, Neil JJ. Prediction of brain maturity in infants using machine-learning algorithms. Neuroimage. 2016;136:1-9. PMCID: 4914443
- 208. Kelly CE, Thompson DK, Chen J, Leemans A, Adamson CL, **Inder TE**, Cheong JL, Doyle LW. Anderson PJ. Axon density and axon orientation dispersion in children born preterm. Hum Brain Mapp. 2016;37(9):3080-3102.PMCID: 5524572
- 209. Beare RJ, Chen J, Kelly CE, Alexopoulos D, Smyser CD, Rogers CE, Loh WY, Matthews LG, Cheong JL, Spittle AJ, Anderson PJ, Doyle LW, **Inder TE.** Seal MI, Thompson DK. Neonatal Brain Tissue Classification with Morphological Adaptation and Unified Segmentation. Front Neuroinform. 2016;10:12. PMCID: 4809890
- 210. Thompson DK, Chen J, Beare R, Adamson CL, Ellis R, Ahmadzai ZM, Kelly CE, Lee KJ, Zalesky A, Yang JY, Hunt RW, Cheong JL, **Inder** TE, Doyle LW, Seal ML, Anderson PJ. Structural connectivity relates to perinatal factors and functional impairment at 7years in children born very preterm. Neuroimage. 2016 Jul 1;134:328-37. PMCID: 49142891
- 211 Rand KM, Austin NC, Inder TE, Bora S, Woodward LJ. Neonatal a lagprediction and Later Neurodevelopmental Risk in the Very Preterm Infant. J Pediatr. 2016;170:97-104.PMID: 26707582
- 212. Treyvaud K, Doyle LW, Lee KJ, Ure A, **Inder TE**, Hunt RW, Anderson PJ. Parenting behavior at 2 years predicts school-age performance at 7 years in very preterm children. J Child Psychol Psychiatr. 2016;57(7):814-821. PMID: 26616792

- 213. Smyser TA, Smyser CD, Rogers CE, Gillespie SK, **Inder TE**, Neil JJ. Cortical Gray and Adjacent White Matter Demonstrate Synchronous Maturation in Very Preterm Infants. Cereb Cortex. 2016;26(8):3370-3378. PMCID: 4961016
- 214. Mackay MT, Molesworth C, Northam EA, **Inder TE**, Cameron FJ, Group DKABIS. Diabetic ketoacidosis and electroencephalographic changes in newly diagnosed pediatric patients. Pediatr Diabetes. 2016;17(4):244-248. PMID: 26080904
- 215. Dunsirn S, Smyser C, Liao S, **Inder T**, Pineda R. Defining the nature and implications of head turn preference in the preterm infant. Early Human Development 2016;96(93):53-60.

- 216. Morales DM, Silver SA, Morgan CD, Mercer D, Inder TE, Holtzman DM, Wallendorf MJ, Rao R, McAllister JP, Limbrick DD Jr. Lumbar Cerebrospinal Fluid Biomarkers of Posthemorrhagic Hydrocephalus of Prematurity: Amyloid Precursor Protein, Soluble Amyloid Precursor Protein α, and L1 Cell Adhesion Molecule. Neurosurgery. 2017;80(1):82-90. PMCID: 5326702
- 217. Shany E, **Inder TE**, Goshen S, Lee I, Neil JJ, Smyser CD, Doyle LW, Anderson PJ, Shimony JS. . Diffusion Tensor Tractography of the Cerebellar Peduncles in Prematurely Born 7-Year-Old Children. Cerebellum. 2017;16(2):314-325. PMCID: 5136350
- 218. Cahill AG, Macones GA, Smyser CD, Lopez JD, **Inder TE**, Mathur AM. Umbilical Artery Lactate Correlates with Brain Lactate in Term Infants. Am J Perinatol. 2017;34(6):535-540. PMCID: 5530875
- 219. McPherson C, **Inder T**. Perinatal and neonatal use of sedation and analgesia. Semin Fetal Neonatal Med. 2017;22(5):314-320. PMID: 28734732
- 220. Loh WY, Anderson PJ, Cheong JLY, Spittle AJ, Chen J, Lee KJ, Molesworth C, **Inder** TE, Connelly A, Doyle LW, Thompson DK. Neonatal basal ganglia and thalamic volumes: very preterm birth and 7year neurodevelopmental outcomes. Pediatr Res. 2017;82(6):970-978. PMCID: 5685902
- 221 Walsh BH, Neil J, Morey J, Yang E, Silvera MV, **Inder TE**, Ortinau C. The Frequency and Severity of Magnetic Resonance Imaging Abnormalities in Infants with Mild Neonatal Encephalopathy. J Pediatr 2017;187:26-33 e21. PMCID: 5533615
- 222. Anderson PJ, Treyvaud K, Neil JJ, Cheong JLY, Hunt RW, Thompson DK, Lee KJ, Doyle LW, **Inder TE**. Associations of Newborn Brain Magnetic Resonance Imaging with Long-Term Neurodevelopmental Impairments in Very Preterm Children. J Pediatr 2017; 187:58-65 e51. PMCID: 5533625
- 223. Brouwer MJ, Kersbergen KJ, van Kooij BJM, Benders M, van Haastert IC, Koopman-Esseboom C, Neil JJ, de Vries LS, Kidokoro H, **Inder TE**, Groenendaal F. Preterm brain injury on term-equivalent age MRI in relation to perinatal factors and neurodevelopmental outcome at two years. PLoS One 2017;12:e0177128. PMCID: 5423624
- 224. Limbrick DD, Jr., Baksh B, Morgan CD, Habiyaremye G, McAllister JP, 2nd, **Inder TE**, Mercer D, Holtzman DM, Strahle J, Wallendorf MJ, Morales DM. Cerebrospinal fluid biomarkers of infantile congenital hydrocephalus. PLoS One 2017;12:e0172353, PMCID: 5315300
- 225 Cahill AG, Mathur AM, Smyser CD, McKinstry RC, Roehl KA, Lopez JD, **Inder TE**, Macones GA. Neurologic Injury in Acidemic Term Infants. Am J Perinatol 2017;34:668-675. PMID: 27926973
- 226. Nwabara O, Rogers C, **Inder T**, Pineda R. Early therapy services following neonatal intensive care unit discharge. Phys Occup Ther Pediatr 2017;37:414-424-424. PMCID: 5630140
- 227. Pineda R, Durant P, Mathur A, **Inder T**, Wallendorf M, Schlaggar BL. Auditory exposure in the neonatal intensive care unit: room type and other predictors. J Pediatr 2017;183:56-66 e3. PMCID: 5378448

- 228. Farzam P, Buckley EM, Lin PY, Hagan K, Grant PE, **Inder TE**, Carp SA, Franceschini MA. Shedding light on the neonatal brain probing cerebral hemodynamics by diffuse optical spectroscopic methods. Sci Rep 2017; 7:15786. PMCID: 5693925
- 229. Haebich KM, Willmott C, Ellis R, Burnett AC, Scratch SE, Pascoe L, Spencer-Smith MM, Cheong JLY, Inder TE, Doyle LW, Thompson DK, Anderson PJ. Goal setting deficits at 13 years in very preterm born children. J Int Neuropsychol Soc 2018; 24:372-381. PMID29145913

- 230. Monson BB, Eaton-Rosen Z, Kapur K, Liebenthal E, Brownell A, Smyser CD, Rogers CE, **Inder TE**, Warfield SK, Neil JJ. Differential rates of perinatal maturation of human primary and nonprimary auditory cortex. eNeuro, 2018,5(1):e0380-17. PMCID: 5773280
- 231. Sinha B, Wu Q, Li W, Tu Y, Sirianni AC, Chen Y, Jiang J, Zhang X, Zhou S, Chen W, Reiter RJ, Manning S, Patel NJ, Aziz-Sultan AM, Inder TE, Friedlander RM, Fu J, Wang X. Protection of melatonin in experimental models of newborn hypoxic-ischemic brain injury through MT1 receptor. J Pineal Res, 2018;64:e12443.
- 232. Matthews LG, Walsh BH, Knutsen C, Neil JJ, Smyer CD, Rogers CE, **Inder TE**. Brain growth in the NICU Critical periods of tissue-specific expansion. Pediatr Res, 2018;83(5):976-981. PMCID: 6054136
- 233. Walsh BH, **Inder TE**. MRI as a biomarker for mild neonatal encephalopathy. Early Hum Dev, 2018;120:75-79. PMID: 29463417
- 234. Matthews LG, **Inder TE**, Pascoe L, Kapur K, Lee KJ, Monson BB, Doyle LW, Thompson DK, Anderson PJ. Longitudinal preterm cerebellar volume: Perinatal and neurodevelopmental outcome associations. The Cerebellum, 2018;17(6):610-627.PMCID: 126980
- 235. Farzam P, Buckley EM, Lin PY, Hagan K, Grant PE, **Inder TE**, Carp SA, Franceschini MA. Publisher correction: Shedding light on the neonatal brain: probing cerebral hemodynamics by diffuse optical spectroscopic methods. Sci Rep 2018;8:6007. PMCID: 5897551
- 236. Nguyen TN, Spencer-Smith M, Zannino D, Burnett A, Scratch SE, Pascoe L, Ellis R, Cheong J, Thompson D, **Inder T**, Doyle LW, Anderson PJ. Developmental trajectory of language from 2 to 13 years in children born very preterm. Pediatrics 2018;141(5),e20172831. PMCID: 5914491
- 237. Haebich KM, Willmott C, Ellis R, Burnett AC, Scratch SE, Pascoe L, Spencer-Smith MM, Cheong JLY, Inder TE, Doyle LW, Thompson DK, Anderson PJ. Goal setting deficits at 13 years in very preterm born children. J Int Neurospsychol Soc 2018;(4):372-381. PMID: 29145913
- 238. Mürner-Lavanchy I, Kelly CE, Reidy N, Doyle LW, Lee KJ, **Inder T**, Thompson DK, Morgan AT, Anderson PJ. White matter microstructure is associated with language in children born very preterm. Neuroimage Clin. 2018;20:808–822. PMCID: 6169247
- 239. Ortinau CM, Mangin-Heimos, K, Moen J, Alexopoulos D, **Inder TE**, Gholipour A, Shimony JS, Eghtesady P, Schlaggar BL, Smyser CD. Prenatal to postnatal trajectory of brain growth in complex congenital heart disease. Neuroimage Clin. 2018;20:9 13–922. PMCID: 6178192

- 240. Ortinau CM, Rollins CK, Gholipour A, Yun HJ, Marshall M, Gagoski B, Afacan O, Friedman K, Tworetzky W, Warfield SK, Newburger JW, **Inder TE,** Grant PE, Im K. Early-Emerging Sulcal Patterns Are Atypical in Fetuses with Congenital Heart Disease. Cereb Cortex. 2019. 3605-3616. PMC6644862
- 241. Murner-Lavanchy M, Kidokoro H, Thompson DK, Doyle LW, Cheong JLY, Hunt RW, **Inder TE**, Anderson PJ. Thirteen-year outcomes in very preterm children associated with diffuse excessive high signal intensity on neonatal magnetic resonance imaging. J Pediatr. 2019;206:66-71. PMID:30414629

- 242. El-Dib M, **Inder TE**, Chalak LF, Massaro AN, Thoresen M, Gunn AJ. Should therapeutic hypothermia be offered to babies with mild neonatal encephalopathy in the first 6 h after birth? Pediatr Res. 2019 Mar;85(4):442-448. PMID:30733613
- 243. El-Dib M, Parziale M, Johnson L, Benson C, Grant E, Robinson J, Volpe J, **Inder T.** Encephalopathy in neonates with subgaleal hemorrhage is the key predictor of outcome. Pediatr Res. 2019;86(2):234-241, 2019.
- 244. Matthews LG, Smyser CD, Cherkerzian S, Alexopoulos D, Kenley J, Tuull MG, Nelson DM, **Inder TE.** Maternal pomegranate juice intake and brain structure and function in infants with intrauterine growth restriction: A randomized controlled pilot study. PLoS One 019;14(8):e029596. PMC6703683
- 245. Bell KA, Matthews LG, Cherkerzian S, Palmer C, Drouin K, Pepin HL, Ellard D, **Inder TE**, Ramel SE, Belfort MB. Associations of Growth and Body Composition with Brain Size in Preterm Infants. J Pediatr 2019;214:20-6, e2.
- 246. McCann ME, Lee JK, **Inder T.** Beyond anesthesia toxicity: anesthetic considerations to lessen the risk of neonatal neurological injury. Anesth Analg. 2019;129(5):1354-1364. PMC7032045
- 247. Erdei C, **Inder TE,** Dodrill P, Woodward LJ. The Growth and Development Unit. A Proposed Approach for Enhancing Infant Neurodevelopmental and Family-Centered Care in the Neonatal Intensive Care Unit. J Perinatol. 2019;39(12):1684-1687.

- 248. Haebich KM, Willmott C, Scratch SE, Pascoe L, Lee KJ, Spencer-Smith MM, Cheong JLY, Inder TE, Doyle LW, Thompson DK, Anderson PJ. Neonatal brain abnormalities and brain volumes associated with goal setting outcomes in very preterm 13-year-olds. Brain Imaging Behav. 2020;14(4):1062-1073. PMID:30684152
- 249. Loh WY, Anderson PJ, Cheong JLY, Spittle AJ, Chen J, Lee KJ, Molesworth C, Inder TE, Connelly A, Doyle LW, Thompson DK. Longitudinal growth of the basal ganglia and thalamus in very preterm children. Brain Imag Behav. 2020;14(4)998-1011.
- 250. Thompson DK, Loh WY, Connelly A, Cheong JL, Spittle AJ, Chen J, Kelly CE, Inder TE, Doyle LW, Anderson PJ. Basal ganglia and thalamic tract connectivity in very preterm and full-term children; associations with 7-year neurodevelopment. Pediatr Res 2020, 87;48-56.
- 251. Tuuli MG, Chen B, Longtine MS, Kraus FB, Smyser CD, Inder TE, Nelson DM. A randomized, placebo-controlled, double-blind trial of maternal antenatal pomegranate juice (POM) ingestion and POM effects on placental morphology and function in women diagnosed antenatally with intrauterine growth restriction. Trends in Developmental Biology, 2020, 12;13-22.
- 252. Thompson DK, Matthews LG, Alexander B, Lee KJ, Kelly CE, Adamson CL, Hunt RW, Cheong JLY, Spencer-Smith M, Neil JJ, Seal ML, Inder TE, Doyle LW, Anderson PL. Tracking regional brain growth up to age 13 in children born term and very preterm. Nat Commun, 2020, 11(1);696.
- 253. McPherson C, Miller SP, El-Dib M, Massaro AN, Inder TE. The influence of pain, agitation, and their management on the immature brain. Pediatr Res, 2020;88:168-175.
- 254. Belfort MB, Cherkerzian S, Bell KA, Soldateli B. Cordova Ramos E, Palmer C, Steele T, Pepin H, Ellard D, Drouin K, Inder TE. Macronutrient intake from human milk, infant growth, and body composition at term equivalent age: a longitudinal study of hospitalized very preterm infants. Nutrients, 2020;12(8):2249. doi:10.3390/nu12082249.
- 255. Yates R, Treyvaud K, Doyle LW, Ure A, Cheong JLY, Lee KJ, Inder TE, Spencer-Smith M, Anderson PJ. Rates and stability of mental health disorders in very preterm children at 7 and 13 years. Pediatrics, 2020;145(5):e20192699.

- 256. El-Dib M, Munster C, Szakmar E, Inder T, Gunn AJ. Late onset oxygen requirement following neonatal therapeutic hypothermia. Acta Paediatr, 2020, Nov 109(11):2258-2265. doi:10.1111/apa.15222.
- 257. White YN, Grant PE, Soul JS, Inder T, El-Dib M. Early exit from neonatal therapeutic hypothermia: A single institution experience using MRI to guide decision-making. J Neonatal Perinatal Med 2020, 13(4):44-447: doi:10.3233/NPM-200458.
- 258. El-Dib M, Limbrick D, Inder T, Whitelaw A, Kulkarni AV, Warf B, Volpe JJ, de Vries LS. Management of post-hemorrhagic ventricular dilatation in the preterm infant. J Pediatr, 2020, Jul 30:S0022-3476(20)30978-1. doi: 10.1016

- 259. Benninger KL, Inder TE, Goodman AM, Cotton CM, Nordli DR, Shah TA, Slaughter JC, Maitre NL. Perspective from the society for pediatric research neonatal encephalopathy clinical trials: developing the future. Pediatr Res, 2021, Jan 89(1):74-84. doi:1038/s41390-020-0859-9
- 260. Limbrick DD, Morales DM, Shannon CN, Wellons JC, Kulkarni AV, Alvey JS, Reeder RW, Freimann V, Holubkov R, Riva-Cambrin JK, Whitehead WE, Rozzelle CJ, Tamber M, Oakes WJ, Drake JM, Pollack JF, Naftel RP, Inder TE, Kestle JR, Hydrocephalus Clinical Research Network. Cerebrospinal fluid NCAM-1 concentration is associated with neurodevelopmental outcome in post-hemorrhagic hydrocephalus of prematurity. PLoS One, 2021, Mar 10;16(3):e0247749.
- 261. Ross MM, Cherkerzian S, Mikulis ND, Turner D, Robinson J, **Inder TE**, Matthews LC. A randomized controlled trial investigating the impact of maternal dietary supplementation with pomegranate juice on brain injury in infants with IUGR. 2021, Sci Rep 2021, Feb 11:11(1):3569 doi: 10.1038/s41598-021-82144-0.
- 262. Szakmar E, Smith J, Yang E, Volpe J, **Inder T**, El-Dib M. Association between cerebral oxygen saturation and brain injury in neonates receiving therapeutic hypothermia for neonatal encephalopathy. J Perinatol, 2021, 41(2):269-277.
- 263. Bogičević L, Pascoe L, Nguyen TN, Burnett AC, Verhoeven M, Thompson DK, Cheong JLY, **Inder TE**, Baar AL, Doyle LW, Anderson PL. Individual attention patterns in children born very preterm and full term at 7 and 13 years of age. J Int Neuropsychol Soc, 2021,27(10);970-980
- 264. Mikulis N, **Inder T**, Erdel C. Utilising recorded music to reduce stress and enhance infant neurodevelopment in neonatal care units. Acta Pediatrica, 2021, 110(11);2921-2936
- 265. Fahim N, Georgieff MK, Zhang L, Naisbitt S, Rao R, **Inder TE**. Endogenous erythropoietin concentrations and association with retinopathy of prematurity and brain injury in preterm infants. PLOS One, 2021, 16(6):e0252655.
- 266. Sakpichaisakul K, Supapannachart KJ, El-Dib M, Szakmar E, Yang E, Walsh BH, Robinson JN, Cherkerzian S, Volpe JJ, **Inder TE**. Blood gas measures as predictors for neonatal encephalopathy severity. J Perinatol. 2021, 41:2261-2269.
- 267. Garg PM, Paschal J, Zhang M, Pippin M, Matthews A, Adams KV, Taylor CS, Reddy KM, **Inder T**, Hillegass W. Brain injury in preterm infants with surgical necrotizing enterocolitis: clinical and bowel pathological correlates. Pediatr Res, 2021, 91(5);I1182-1195.
- 268. Szakmar E, Meunier H, El-Dib, M, Yang E, **Inder TE**. Interobserver reliability of a magnetic resonance imaging scoring system in infants with hypoxic-ischemic encephalopathy. AJNR, 2021, May;42(5):969-974.
- 269. Inder TE, de Vries LS, Ferriero DM, Grant E, Ment LR, Miller SP, Volpe JJ. Commentary: Neuroimaging of the preterm brain – Review and recommendations. J Pediatr, 2021, J Pediatr. 2021 Oct;237:276-287.e4

- 270. Collins S, Burnett A, Thompson D, Anderson P, Doyle L, Cheong J, Pascoe L, Kelly C, Yang J, Inder TE. Development of brain white matter and math computation ability in children born very preterm and full-term. Dev Cog Neurosci, 2021, 51;100987
- 271. Gilchrist C, Thompson DK, Alexander B, Kelly CE, Treyvaud K, Matthews LG, Pascoe L, Zannino D, Adamson C, Tolcos M, Cheong JLY, **Inder TE**, Doyle LW, Cumberland A, Anderson PJ. The structural connectome and internalizing and externalizing symptoms at 7 and 13 years in individuals born very preterm and full-term. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging 2021 (In Press)
- 272. Thompson DK, Yang J, Chen J, Kelly C, Adamson CL, Alexander B, Gilchrist C, Matthews L, Lee KJ, Hunt RW, Cheong J, Spencer-Smith M, Neil J, Seal M, Inder TE, Doyle LW, Anderson PJ. Brain white matter development over the first 13 years in very preterm and typically developing children based on the T1-W/T2-W ratio. Neurology 2021 Dec 22; doi: 10.1212/WNL.00000000013250.doi: 10.1212/WNL.00000000013250. [Online ahead of print].
- 273. Kelly C, Ball G, Matthews LG, Cheong JL, Doyle LW, **Inder TE**, Thompson DK, Anderson PJ. Investigating brain structural maturation in children and adolescents born very preterm using the brain age framework. NeuroImage, 2021, Dec 17;247:118828. [Online ahead of print].
- 274. Mrelashvili A, **Inder TE**, de Vries L, Miller SP, Ferriero DM. The value of magnetic resonance imaging for the newborn brain. JICNA, 2021, [Epub Ahead of Print].
- 275. Wisnowski JC, Wintermark P, Bonifacio SL, Smyser CD, de Vries L, Barkovich AJ, Edwards D, **Inder TE,** Chau V. Neuroimaging in the term newborn with neonatal encephalopathy. Semin Fetal Neonatal Med 2021, Oct. 26(5);101304
- 276. Walsh BH, El-Shibiny HE, Munster C, Yang E, **Inder TE**, El-Dib M. Differences in standardized neonatal encephalopathy exam criteria may impact therapeutic hypothermia eligibility. Pediatr Res 2021 doi: 10.1038/s41390-021-01834-7
- 277. Lee ACC, Cherkerzian S, Olson IE, Salahuddin AS, Chowdhury NH, Khanam R, Rahman S, Andrews C, Baqui AH, Fawzi W, **Inder TE**, Nartey S, Nelson CA, Oken E, Sen S, Fichorova RN. Maternal diet, infection and risk of neonatal inflammation in the Bangladesh Projahnmo pregnancy cohort. Nutrients 2021, Oct 26;13(11):3792.
- 278. Gilchrist CP, Thompson DK, Alexander B, Kelly CE, Treyvaud K, Matthews LG, Pascoe L, Zannino D, Yates R, Adamson C, Tolcos M, Cheong JLY, **Inder TE**, Doyle LW, Cumberland A, Anderson PJ. Growth of prefrontal and limbic structures and anxiety disorders in children born very preterm. Psychol Med. 2021 Jun 9:1-12. doi: 10.1017/S0033291721002105
- 279. Treyvaud K, Thompson DK, Kelly CE, Loh WY, **Inder TE**, Cheong JLY, Doyle LW, Anderson PJ. Early parenting is associated with the developing brains of children born very preterm. Clin Neuropsychol. 2021 Jul;35(5):885-903.
- 280. Szakmar E, Smith J, Yang E, Volpe JJ, **Inder T,** El-Dib M.J Association between cerebral oxygen saturation and brain injury in neonates receiving therapeutic hypothermia. J Perinatol 2021 Feb;41(2):269-77
- 281. Walsh BH, Paul RA, **Inder TE**, Shimony JS, Smyser CD, Rogers CE. Surgery requiring general anesthesia in preterm infants is associated with altered brain volumes at term equivalent age and neurodevelopmental impairment. Pediatr Res. 2021 Apr;89(5):1200-1207.
- 282. Belfort MB, Woodward LJ, Cherkerzian S, Pepin H, Ellard D, Steele T, Fusch C, Grant PE, **Inder TE**. Targeting human milk fortification to improve very preterm infant growth and brain development: study protocol for Nourish, a single center randomized controlled trial BMC Pediatr. 2021 Apr 9;21(1):167. doi: 10.1186/s12887-021-02635-x.
- 283. Erdei C, Klass P, **Inder TE**. Reading Aloud with Infants in the Neonatal Intensive Care Unit: A Unit-Based Program to Enhance Language Enrichment and Support Early Foundational Relationships. Am J Perinatol. 2021 Jun 7. doi: 10.1055/s-0041-1731043.

- 284. Walsh BH, Munster C, El-Shibiny H, Yang E, **Inder TE**, El-Dib M.J Comparison of numerical and standard Sarnat grading using the NICHD and SiBEN methods. J Perinatol. 2022;42(3):328-334
- 285. Kelly C, Ball G, Matthews LG, Cheong JL, Doyle LW, **Inder TE**, Thompson DK, Anderson PJ. Investigating brain structural maturation in children and adolescents born very preterm using the brain age framework. NeuroImage, 2022, 247;11828.
- 286. Sanislow W, Singh E, Yang E, **Inder T**, El-Dib M. Value of cranial ultrasound at initiation of therapeutic hypothermia for neonatal encephalopathy. J Perinatol, 2022, 42(3);335-340289.
- 287. Gilchrest C., Treyvard K, Tolcos M, Cumberland A, Kelly C, Dhollander T, Lee K, Doyle L, Cheong J, Inder TE, Thompson D, Anderson P. The structural connectome and internalizing and externalizing symptoms in children born very preterm and full-term. Biol Psychiatry Cogn Neurosci Neuroimaging. 2022 (7)4;424-434
- 288. McPherson C, Smyser C, Rogers C, **Inder TE**. Five-year outcomes of premature infants randomized to high or standard loading dose caffeine. Journal of Perinatology 2022 42;631-635
- 289. Bell KA, Matthews LG, Cherkerzian S, Prohl AK, Warfield SK, **Inder TE**, Onishi S, Belfort MB. Associations of body composition with regional brain volumes and white matter microstructure in preterm infants. Arch Dis Childhood 2022, Jan 20:fetalneonatal-2021-321653. doi: 10.1136/archdischild-2021-321653
- 290. Thompson DK, Yang JYM, Chen J, Kelly CE, Adamson CL, Alexander B, Gilchrist C, Matthews LG, Lee KJ, Hunt RW, Cheong JLY, Spencer-Smith M, Neil JJ, Seal ML, Inder TE, Doyle LW, Anderson PJ. Brain White Matter Development Over the First 13 Years in Very Preterm and Typically Developing Children Based on the T₁-w/T₂-w Ratio Neurology. 2022 Mar 1;98(9):e924-e937.
- 291. Kelly C, Dhollander T, Harding IH, Khan W, Beare R, Cheong JLY, Doyle LW, Seal M, Thompson DK, **Inder TE**, Anderson PJ. Brain tissue microstructural and free-water composition 13 years after very preterm birth. Neuroimage, 2022, 254; Pages 119168.
- 292. Collins S, Burnett A, Thompson D, Anderson P, Armstrong-Kelly C, Gilchrest C, Matthews, L, Inder TE, Cheong J, Lee K, Doyle L. Development of regional brain gray matter volume across the first 13 years of life is associated with childhood math computation ability for children born very preterm and full-term. Brain Cogn. 2022 Jul;160:105875.
- 293. Szakmar E, Munster CB, El-Shibiny H, **Inder TE,** El-Dib M. Hypocapnia in early hours of life is associated with brain injury in moderate to severe neonatal encephalopathy. J Perinatol, 2022, 42(7);892-897
- 294. Belfort MB, **Inder TE**. Human milk and preterm infant brain development: A narrative review. Clin Ther, 2022, 44(4);612-621.
- 295. Thiim KR, Singh E, Mukundan S, Grant PE, Yang E, El-Dib M, **Inder TE.** Clinical experience with an in-NICU magnetic resonance imaging system. J Perinatol. 2022 Apr 22:1-7. doi: 10.1038/s41372- 022-01387-5.
- 296. Pineda R, Liszka L, Tran P, Kwon J, Inder T. Neurobehavior in very preterm infants with low medical risk and full-term infants. J Perinatol, 2022. Accession Number: 35717460 DOI: 10.1038/s41372-022-01432-3.
- 297. Mills KP, Lean RE, Smyser C, **Inder T**, Rogers C, McPherson CC. Fentanyl exposure in preterm infants: 5-year neurodevelopmental assessment. Frontiers in Pediatrics, 2022,1;3:836705.

- 298. Munster CB, El-Shibiny H, Szakmar E, Walsh BH, Inder TE, WI-Dib M. Magnetic resonance venography to evaluate cerebral sinovenous thrombosis in infants receiving therapeutic hypothermia. Pediatr Res 2022 Jul 19. doi: 10.1038/s41390-022-02195-5
- 299. Garvey AA, Walsh BH, Inder TE. Pathogenesis and Prevention of intraventricular hemorrhage. Semin Perinatol 2022; 46: 151592
- 300. El-Dib M, Munster C, Sunwoo J, Cherkerzian S, Lee S, Hildrey E, Steele T, Bell K, Franceschini MA, Volpe JJ, Inder T. Association of early cerebral oxygen saturation and brain injury in extremely preterm infants. j Perinatolo 2022 Jul 5 doi:10.1038/s41372-022-01447-w
- 301. Garg PM, Paschal JL, Zhang M, Pippins M, Matthews A, Adams K, Taylor C, Reddy K, Inder TE, Hillegass WB. Brain INjury in perterm infants with surgical necrotizing enterocolitis: clinical and bowel pathological correlates. Pediatr Res 2022, 91: 1182-95
- 302. Sunwoo J, Zavriyev AL, Kaya K, Martin A, Munster C, Steele T, Cuddyer D, Sheldon Y, Orihuela-Espina F, Herzberg EM, Inder T, Franceschini MA, El-Dib M. Diffuse correlation spectroscopy blood flow monitoring for intraventricular hemorrhage vulnerability in extremely low gestational age newborns. Sci Rep 2022; Jul 27: 12 (1) 12798
- 303. Bell KA, Cherkerzian S, Drouin K, Matthews LG, Inder TE, Prohl AK, Warfield SK, Belfort MB. Associations of Macronutrient Intake Determined by Point-of-Care Human Milk Analysis with Brain Development among very Preterm Infants. Children 2022;9(7);969
- 304. Gilchrist CP, Kelly CE, Cumberland A, Dhollander T, Treyvaud K, Lee K, Cheong JLY, Doyle LW, Inder TE, Thompson DK, Tolcos M, Anderson PJ. Fiber-Specific Measures of White Matter Microstructure and Macrostruture are associated with Internalizing and Externalizing Symptoms in Children Born very Preterm and Full-term Biol Psychiatry. 2022 Sep 17:S0006-3223(22)01592-X
- 305. Erdei C, Forde M, Cherkerzian S, Conley MS, Liu CH, Inder T "My Brigham App" A Pilot Study using Technology to Enhance Parent Experience in the Neonatal Intensive Care Unit. Am J Perinatol. 2022 Nov 30
- 306. Abend N, Adams E, Al Balushi A, Alburaki W, Appendino J, Barbosa VS, Birca A, Bonifacio S, Branagan A, Chang T, Chowdhury R, Christou H, Chu C, Cilio MR, Comani S, Corsi-Cabrera M, Croce P, Cubero-Rego L, Dawoud F, de Vries L, Dehaes M, Devane D, Duncan A, El Ters N, El-Dib M, Elshibiny H, Esser M, Fairchild K, Finucane E, Franceschini MA, Gallagher A, Ghosh A, Glass H, Venkata SKRG, Baillet TH, Herzberg E, Hildrey E, Hurley T, Inder T, Jacobs E, Jefferies K, Jermendy A, Khazaei M, Kilmartin K, King G, Lauronen L, Lee S, Leijser L, Lind J, Llaguno NS, Machie M, Magalhães M, Mahdi Z, Maluomi J, Marandyuk B, Massey S, McCulloch C, Metsäranta M, Mikkonen K, Mohammad K, Molloy E, Momin S, Munster C, Murthy P, Netto A, Nevalainen P, Nguyen J, Nieves M, Nyman J, Oliver N, Peeters C, Pietrobom RFR, Pijpers J, Pinchefksy E, Ping YB, Quirke F, Raeisi K, Ricardo-Garcell J, Robinson J, Rodrigues DP, Rosati J, Scott J, Scringer-Wilkes M, Shellhaas R, Smit L, Soul J, Srivastava A, Steggerda S, Sunwoo J, Szakmar E, Tamburro G, Thomas S, Toiviainen-Salo S, Toma AI, Vanhatalo S, Variane GFT, Vein A, Vesoulis Z, Vilan A, Volpe J, Weeke L, Wintermark P, Wusthoff C, Zappasodi F, Zein H, Zempel J.J Proceedings of the 13th International Newborn Brain Conference: Neonatal Neurocritical Care, Seizures, and Continuous EEG monitoring. Neonatal Perinatal Med. 2022;15(2):467-485.
- 307. Abramsky R, Acosta R, Acosta Izquierdo L, Albeshri B, Almouqdad M, Asfour Y, Asfour S, Austin T, Bach A, Barkovich J, Beare R, Ben Fadel N, Berger A, Blanco B, Boomsma M, Bora S, Boswinkel V, Chin T, Collins-Jones L, Cooper R, Dagur G, Davila J, de Vries L, Shesrao L, Dovjak G, Edwards A, El-Dib M, Elshibiny H, Eshel D, Eshel R, Ferriero D, Gano D, Girvan O, Glass H, Goeral K, Golan A, Gurvitz M, Inder T, Jamjoom D, Kadom N, Kasprian G, Khalil T, Klebermass-Schrehof K, Kleinmahon J, Krüse-Ruijter M, Lambing H, Lee S, Leemans A, Leijser L, Lemyre B, Li Y, Maltais-Bilodeau C, Marks K, McCulloch C, Milla S, Miller E, Mishra A, Mitsakakis N, Mohammad K, Tollenaer SM,

Munster C, Nijboer J, Nijboer-Oosterveld J, Nijholt I, Novoa R, Ortinau C, Porter E, Prayer D, Reddy D, Redpath S, Rogers E, Schmidbauer V, Scott J, Sewell E, Shany E, Shelef I, Singh E, Slump C, Steele T, Szakmar E, Tax C, Thiim K, Uchitel J, van Osch J, van Wezel-Meijler G, Verschuur A, Wu-Smit MN, Yang E, Zein H.J Proceedings of the 13th International Newborn Brain Conference: Neuroimaging studies. Neonatal Perinatal Med. 2022;15(2):389-409.

- 308. Balashova E, Beaulieu O, Benhmida I, Birca A, Boylan G, Carkeek K, Chowdhury R, Cilio MR, Consoli A, Cote Corriveau G, Cuddyer D, Degtyarev D, Dehaes M, Dempsey E, Dereymaeker A, Desnous B, El-Dib M, Elsayed E, Feldman HA, Finn D, Franceschini MA, Freeman S, Gagnon MM, Gagnon M, Garvey A, Ghosh A, Golubtsova Y, Grant PE, Hay SC, Hermans T, Herzberg E, Hsiao CH, Iennaco M, Inder T, Ionov O, Kaya K, Keister F, Kemigisha M, Kirtbaya A, Lee S, Leijser L, Liao S, Lin PY, Lippman R, Livingstone V, Luu TM, Magombe J, Mahdi Z, Marandyuk B, Martin A, Mathieson S, Mbabazi E, Mohammad K, Moore M, Mulondo R, Munster C, Murray D, Nalule E, Natukwatsa D, Naulaers G, Noroozi M, Nsubuga B, O'Toole J, Pavel A, Peterson M, Pinchefsky E, Playter K, Queally J, Rajaram A, Ryndin A, Schiff S, Seruwu M, Sharafutdinova D, Sheldon Y, Simard MN, Sims J, Steele T, Stritzke A, Sunwoo J, Sutin J, Tatz J, Vadset T, Vesoulis Z, Vyas R, Wabukoma M, Walsh B, Wandukwa J, Warf B, Whitehead H, Woglom M, Yen FY, Zampolli L, Zavriyev AI, Zein H, Zimmermann B, Zubkov V.J Proceedings of the 13th International Newborn Brain Conference: Other forms of brain monitoring, such as NIRS, fMRI, biochemical. Neonatal Perinatal Med. 2022;15(2):453-465.
- 309. Anderson DI, Balog V, Bansal S, Barbu-Roth M, Barks MC, Barlet M, Barrera Resendiz JE, Bernstein S, Biran V, Blennow M, Brandon D, Canfora M, Craig A, Cutler A, Deerwester K, Dumuids MV, El-Dib M, Erdei C, Eriksson Westblad M, Forde M, Forma V, Fox L, Glass H, Harmony T, Inder T, Jermendy Á, Kaneko-Tarui T, Kapadia J, Kátai LK, Kumar A, Lemmon M, Lindström K, Maron J, Pilon B, Pollak K, Provasi J, Grossmann KR, Sunwoo J, Szabó M, Ubel P, Vakharia B, Vatai B, Vatsavai S, Weinfurt K.JProceedings of the 13th International Newborn Brain Conference: Long-term outcome studies, Developmental care, Palliative care, Ethical dilemmas, and Challenging clinical scenarios. Neonatal Perinatal Med. 2022;15(2):441-452

- 310. Vanhatalo S, Stevenson NJ, Pressler RM, Abend NS, Auvin S, Brigo F, Cilio MR, Hahn CD, Hartmann H, Hellström-Westas L, **Inder TE**, Moshé SL, Nunes ML, Shellhaas RA, Vinayan KP, de Vries LS, Wilmshurst JM, Yozawitz E, Boylan GB Why monitor the neonatal brain that is the important question. Pediatr Re. 2023 Jan;93(1):19-21.
- 311. Thiim KR, Garvey AA, Singh E, Walsh B, **Inder TE,** El-Dib M. Brain injury in infants evaluated for, but not treated with, therapeutic hypothermia. J Pediatr. 2023 Feb;253:304-309
- 312. Kelly CE, Shaul M, Thompson DK, Mainzer RM, Yang JY, Dhollander T, Cheong JL, **Inder TE**, Doyle LW, Anderson PJ. Long-lasting effects of very preterm birth on brain structure in adulthood. A systematic review and meta-analysis. Neurosci Biobehav Rev. 2023 Apr;147:105082. doi: 10.1016/j.neubiorev.2023.105082.
- 313. Thiim KR, Garvey AA, Singh E, Walsh B, **Inder TE**, El-Dib M. Brain injury in infants Evaluated for, but not treated with, therapeutic hypothermia J Pediatr. 2023 Feb;253:304-309
- 314. Garvey AA, El-Shibiny H, Yang E, **Inder TE,** El-Dib M. Differences between early and late MRI in infants with neonatal encephalopathy following therapeutic hypothermia Pediatr Res. 2023 Apr 6. doi: 10.1038/s41390-023-02580-8.
- 315. Munster CB, El-Shibiny H, Szakmar E, Yang E, Walsh BH, **Inder TE**, El-Dib M. Magnetic resonance venography to evaluate cerebral sinovenous thrombosis in infants receiving therapeutic hypothermia. Pediatr Res. 2023 Mar;93(4):985-989.

- 316. Erdei C, Bell KA, Garvey AA, Blaschke C, Belfort MB, **Inder TE**. Novel metrics to characterize temporal lobe of very preterm infants on term equivalent brain MRI. Pediatr Res. 2023 Mar 18. doi: 10.1038/s41390-023-02567-5
- 317. Erdei C, Klass P, **Inder TE**. Reading Aloud with Infants in the Neonatal Intensive Care Unit: A Unit Based Program to Enhance Language Enrichment and Support Early Foundational Relationships. Am J Perinatol. 2023 Feb;40(3):255-259. doi: 10.1055/s-0041
- 318. Gilchrist CP, Thompson DK, Alexander B, Kelly CE, Treyvaud K, Matthews LG, Pascoe L, Zannino D, Yates R, Adamson C, Tolcos M, Cheong JLY, **Inder TE,** Doyle LW, Cumberland A, Anderson PJ. Growth of prefrontal and limbic brain regions and anxiety disorders in children born very preterm. Psychol Med. 2023 Feb;53(3):759-770
- 319. Ronit M. Pressler, Nicholas S. Abend, Stéphan Auvin, Geraldine Boylan, Francesco Brigo, Maria Roberta Cilio, Linda S. De Vries, Maurizio Elia, Alberto Espache⁹ Cecil D. Hahn, **Terrie Inder**, Nathalie Jette, Angelina Kakooza Mwesige, Silke Mader, Eli M. Mizrahi, Solomon L. Moshé, Lakshmi Nagarajan, Iris Noyman, Magda L. Nunes, Pauline Samia, Eilon Shany, Renée A. Shellhaas, Ann Subota, Chahnez Charfi Triki, Tammy Tsuchida, Kollencheri Puthenveettil Vinayan, Jo M. Wilmshurst, Elissa G Yozawitz, Hans Hartmann. Treatment of Seizures in the Neonate: Guidelines and Consensus-Based Recommendations - Special Report from the ILAE Task Force on Neonatal Seizures Epilepsia 2023 In Press
- 320. **Inder TE,** Volpe JJ, Anderson PA, Neurological Consequences of Preterm Birth (Review Article) New England Journal of Medicine 2023 (In Press - embargoed till night prior)
- 321. Meunier H, Szakmar E, Volpe JJ, El-Dib M, **Inder T**. Cerebellar hemorrhage in infants with hypoxic ischemic encephalopathy treated with therapeutic hypothermia. American J Neuroradiol, 2022, Under review
- 2. Non-Peer Reviews, chapters, monographs and editorials (n=98)
- 1. **Inder T,** Huppi P, Zientara G, Holling E, Barnes P, Volpe JJ. The evolution of polymicrogyria using magnetic resonance imaging in an infant from 30 weeks of gestational age. Ann Neurol, 1998;44(3):550-551.
- 2. **Inder T,** Huppi P, Maier S, di Salvo D, Barnes P, Volpe JJ. Early detection of periventricular leukomalacia using diffusion-weighted magnetic resonance imaging. Ann Neurol, 1998;(3):550.
- 3. **Inder TE,** Huppi PS, Warfield S, Kikinis R, Zientara GP, Barnes PD, Volpe JJ. Periventricular white matter injury is associated with a reduction in cerebral cortical gray matter and myelin volume at term. Ann Neurol, 1998;44(3):536.
- 4. **Inder TE,** Murphy BP, Huppi PS, Warfield S, Zientara GP, Kikinis R, Jolesz FA, Volpe JJ. Quantitative assessment of brain growth following treatment with dexamethasone for neonatal chronic lung disease. Ann Neurol, 2000;48(3):518.
- 5. **Inder TE,** Williams CE, Gunning MI, Darlow BA, Gluckman PD. Relationship of electroencephalographic upper quartile cortical spectral edge frequency to the presence of white matter injury in premature infants. Ann Neurol, 2000;48(3):526.
- 6. **Inder TE**, Mocatta T, Darlow BA, Winterbourn CC. Elevated free radical products in the cerebrospinal fluid of premature infants with white matter injury. Ann Neurol, 2000;48(3):528-529.
- 7. **Inder TE**, Murphy BP, Rooks R, Taylor GA, Anderson NJ, Teele R, Mogridge N, duPlessis AJ, Volpe JJ. Posthemorrhagic ventriculomegaly: Natural history and predictors of outcome. Ann Neurol, 2000;48(3):529.

- 8. Winterbourn CC, Chan T, Buss IH, **Inder TE**, Mogridge N, Darlow BA. Protein carbonyls and lipid peroxidation products as oxidation markers in pretern infant plasma: Associations with chronic lung disease and retinopathy and effects of selenium supplementation. Pediatr Res, 2000;48(3):379.
- 9. Inder TE, Volpe JJ. Mechanisms of Perinatal Brain Injury. Semin Neonatol, 2000:5:31 160. PMID:10802746 (Review)
- 10. **Inder TE,** Huppi PS. In Vivo Studies of Brain Development by Magnetic Resonance Imaging. Mental Retardation and Developmental Disabilities Research Reviews 2000:6:59-68 PMID:10899798 (Review)
- 11. Huppi PS, **Inder TE.** Magnetic Resonance Techniques in the Evaluation of the Perinatal Brain: Recent Advances and Future Directions. Semin Neonatol, 2001;6(2);195-210 PMID:11230582 (Review)
- 12. **Inder TE**. Magnetic Resonance Imaging Techniques Opening A Window into Our Understanding of Brain Development in the Newborn Infant. Children's Issues 2002; 6: 30-35 (Review)
- 13. Sizonenko S, Williams C, Inder T, Gluckman P. Cellular damage and gliosis after mild hypoxiaischemia in P3 rat brain. Pediatr Res, 2002;52(5):824.
- 14. **Inder TE,** Volpe JJ. Pathophysiology of Intraventricular Hemorrhage in the Neonate. Ch. 171, p1757-72. Fetal and Neonatal Physiology 3rd ed, Polin, Fox, Abman. WB Saunders Philadelphia 2003 (Textbook Chapter)
- 15. Jacobs S, Hunt R, Tarnow-Mordi W, **Inder T,** Davis P. Cooling for Newborns with Hypoxic-Ischemic Encephalopathy. Cochrane Database Systematic Reviews 2003;CD003311 PMID:14583966 (Cochrane review)
- 16. **Inder TE.** Amplitude-integrated electroencephalogram and cerebral injury Reply Pediatrics, 2003;112(4):1002.
- 17. **Inder TE**, Wang H, Warfield SK, Volpe JJ, Woodward LK. Altered MR cerebral volumes correlate with neurodevelopmental outcome at 2 years in VLBW infants. Ann Neurol, 2003;54:S124.
- 18. **Inder TE**, Rees S, Dieni S, Warfield SK, Yoder B, Neil JJ. A primate model of cerebral injury in the premature infant. Ann Neurol, 2003;54:5121.
- 19. Neil JJ, Hunt RW, Wang H, Kean M, **Inder TE.** Apparent diffusion coefficient values in posterior limb of internal capsule predictive of outcome after perinatal asphyxia. Ann Neurol, 2003;54:S126-S127.
- 20. **Inder TE**, Anderson AR, Neil JJ, Ment LR. Imaging the High Risk Developing Brain. Yearbook of Neonatal and Perinatal Medicine, Faranoff, 2003 (Review)
- 21. Hunt RW, Davis PG, **Inder T.** Replacement of Estrogens and Progestins to Prevent Morbidity and Mortality in Preterm Infants. Cochrane Database Systematic Reviews 2004;CD003848 (Cochrane Review)
- 22. Neil JJ, **Inder TE.** Imaging Perinatal Brain Injury in Premature Infants. Semin Perinatol, 2004;28:433-43 (Review)
- 23. **Inder TE,** Rees SJ. Non-Human Primate Models of Neonatal Brain Injury. Semin Perinatol, 2004;28: 396-404 (Review)
- 24. **Inder TE,** Shah D, Lavery S, Wong C. Utility of bedside EEG tools in term encephalopathic infants. Ann Neurol, 2004;56:S114.
- 25. Brown NC, Anderson PJ, Howard K, Bear MJ, Wang H, Hunt RW, Doyle LW, **Inder TE.** Clinical validity of early neurobehavioral assessments of very preterm infants. Ann Neurol, 2004;56:S92
- 26. **Inder TE**, Hunt RW, Morley CJ, Coleman L, Stewart M, Doyle L, Jacobs S. Systemic hypothermia selectively protects the cortex in term hypoxic-ischemic encephalopathy. Ann Neurol, 2004;56:S91.

- 27. Neil JJ, Kroenke CD, Bretthorst GL, Yoder B, McCurnin D, **Inder, TE**. Characterization of diffusion anisotropy during development in fixed baboon brain. Ann Neurol, 2004;56:S91.
- 28. Adamson C, Davies R, **Inder T,** Rees S, Mareels I, Egan G. Markov random field-based parcellation of the cerebral cortex: Application to histology images. Proceedings of the 2004 Intelligent Sensors, Sensor Networks & Information Processing Conference, 2004;559-564.
- 29. **Inder TE.** Why is the neurological examination so badly neglected in early childhood? Reply, Pediatrics, 2005;116(4):1047-1048.
- 30 Navakatikyan MA, Colditz PB, Burke CJ, **Inder TE**, Richmond J, Williams CE. A regularity-based seizure detection algorithm for neonates. Pediatr Res, 2005;58(2):399.
- 31. Shah DK, Wang HX, Leoliger M, Kroenke CD, Nei JJ, Rees S, **Inder TE**. Correlation between water diffusion values and histopathological white matter changes in fixed tissue from a primate model of premature birth. Pediatr Res, 2005;58(2):412.
- 32 Shah DK, Lavery S, Wong C, Jamsen K, McDougall P, **Inder TE**. The utility of two-channel bedside EEG monitoring in term born encephalopathic infants in relation to cerebral injury as defined by MR imaging. Pediatr Res, 2005;58(2):412.
- 33. Hunt RW, **Inder TE**. Neonatal Seizures Have we got the Treatment Right? J Pediatr Ch Health, 2005;41:311-2 (Editorial)
- 34. Rees S, Inder T. Fetal and Neonatal Origins of Altered Brain Development. Early Human Development 2005;81:753-61 (Review)
- 35. **Inder** T, Rees S. Patterns of Cerebral Injury in a Primate Model of Preterm Birth and Neonatal Intensive Care. Journal Child Neurology. 2005 Dec;20(12):965-7 (Review)
- 36. Rees S, Harding R, **Inder T**. Fetal Origins of Neurological Disorder in Developmental Origins of Health and Disease, Cambridge University 2005 (Textbook Chapter)
- 37. **Inder TE**, Woodward LJ. Anderson PJ. Neonatal MRI and neurodevelopmental outcomes. Reply, N Engl J Med, 2006;355(22):2374-2375.
- 38. Neil JJ, **Inder TE**. Novel Neuroimagining. Developmental Disabilities, Shevell, M. Ed. 2007; Ch 9 pg 119-144 (Textbook Chapter).
- 39. Hunt RW, **Inder TE.** Perinatal and Neonatal Ischaemic Stroke. Thrombosis Res, 2006; 118: 39-48 (Review)
- 40. **Inder TE**. Neurodevelopment Impact of Low-Grade Intraventricular Hemorrhage in Very Preterm Infants. J Pediatr, 2006 149:152-154 (Editorial)
- 41. Rees S, Harding R, **Inder T.** Fetal Origins of Neurological Disorder in Developmental Origins of Health and Disease, Cambridge University 2006, (Review)
- 42. Jacobs S, Hunt RW, Tarnow-Mordi W, **Inder T**, Davis P. Cooling for Newborns with Hypoxic Ischaemic Encephalopathy. Cochrane Database Systematic Reviews. 2007 Oct 7;(4):CD003311. Review. (Cochrane Review)
- 43. Raju T, Nelson K, Ferriero D, **Inder T**. Perinatal Ischemic Stroke: Summary of a Workshop Sponsored by NICHD and NINDS on Classification, Challenges, and Opportunities. Pediatrics 2007;120(3):609-16. PMID: 17766535 (Workshop summary)
- 44. Shah DK, MacKay MT, Lavery S, Watson S, Harvey AS, **Inder TE.** The accuracy of bedside EEG monitoring as compared with simultaneous continuous conventional EEG for seizure detection in term infants. Acta Paediatr, 2007;96:62-63.
- 45. Silverstein FS, Jensen FE, **Inder TE**, Hellstrom-Westas L. Improving the Treatment of Neonatal Seizures. Journal of Pediatrics 2008 Jul;153(1):12-5. PMID: 18571526 (Review)
- 46. Mathur AM, Neil JJ, McKinstry RC, **Inder TE.** Transport, Monitoring, and Successful Brain MR Imaging in Unsedated Neonates. Pediatric Radiology. 2008 Mar;38(3):260-4. PMID: 18175110 (Review)
- 47. Shah D, deVries L, Hellstrom-Westas L, Toet M, Inder TE. Amplitude-Integrated Electroencephalography in the Newborn: A Valuable Tool. Pediatrics 2008;122(4):863-5. PMID: 18829811 (Review)
- 48. Lodygensky GA, **Inder TE**, Neil JJ. Application of MR Imaging in Animal Models of Perinatal Hypoxic-Ischemic Cerebral Injury. Int J Dev Neurosci. 2008;Feb; 26(1):13-25 (Review)
- 49. Shimony JS, Lawrence L, Neil JJ, **Inder TE.** Imaging for Diagnosis of Cerebral Palsy. Clin Obstet Gynecol, 2008; Dec 51(4):787-99 (Review)
- 50. Lawrence R, **Inder TE.** Anatomic Changes and Imaging in Assessing Brain Injury. Clin Perinatol, 2008;34(4):679-93 (Review)
- 51. Liao SM, Gregg NM, White BR, **Inder TE,** Culver JP. Characterization of visual functional response in newborn infants using high density near infrared spectroscopy. Pediatr Res, 2008;64(4):448.
- 52. **Inder TE.** How Low Can I Go? The Impact of Hypoglycemia on the Immature Brain. Pediatrics, 2008 Aug;122(2):440-1 (Editorial)
- 53. **Inder TE.** 50 Years Ago in the Journal, Incontinentia Pigmenti. J Pediatr, 2008 (Monograph)
- 54. Shah DK, Lawrence R, **Inder TE.** Automated Seizure Detection Systems in the Newborn. J Pediatr Neurol, 2009;7(1):45-49 (Review)
- 55. Lawrence R, **Inder TE**, Mathur A. Developing Clinical Trials for the Diagnosis of Treatment of Neonatal Seizures. J Pediatr Neurol, 2009;7(1):69-77 (Review)
- 56. Barnette AR, **Inder TE**. Management of Stroke in the Neonate. Clin Perinatol, 2009;36 (1):125-36 (Review)
- 57. Liao SM, **Inder TE**. Symptomatic Neonatal Hypoglycemia Associated with Toxemia Of Pregnancy. J Pediatr, 2009;155(4):521.
- 58. Liao SM, Inder TE. Neonatal Visual Activation Response using Diffuse Imaging. Pediatr Res, 2009;66(4):471.
- 59. Tao J, Barnette A, Griffith J, Neil J, **Inder T.** Impact of Early versus Late Hypoxia on the Immature Ferret Brain. Pediatr Res, 2009;66 4:472.
- 60. **Inder TE**. Incontinentia Pigmenti, J Pediatr, 2009;154(4):606.
- 61. Knutsen AK, Hill JE, Neil JJ, **Inder TE**, Bayly PV. Quantification of Cortical Surface Convolution in the Developing Ferret and Human Infant. Proceedings of the ASME Summer Bioengineering Conference, 2009; Pt A and B:1225-1226.
- 62. Mathur A, **Inder TE**. Magnetic Resonance Imaging-Insight into Brain Injury and Outcomes in Premature Infants. J Comm Dis, 2009;42:248-55 (Review)
- 63. Liao S, Inder TE. Late Preterm Infants- no so near term. Pediatric Health 2009;3:417-19 (Review)
- 64. Mathur A, Neil JJ, **Inder TE**. Understanding Brain Injury and Neurodevelopmental Disabilities in Preterm Infant: The Evolving Role of Advanced MRI. Semin Perinatol, 2010;34(1):57-66 (Review)
- 65. Vavasseur C. Inder T. 50 Years Ago in The Journal of Pediatrics. The Electroencephalogram in Neonatal Convulsions. J Pediatr, 2010;157(4)616. (Monograph)
- 66. Knutsen AK, Hill JE, Neil JJ, **Inder TE,** Bayly PV. Posthemorrhagic ventricular dilation Response. J Neurosurg – Pediatrics, 2010;6(3):222-223.
- 67. Smyser CD, **Inder TE**. 50 Years Ago in The Journal of Pediatrics. A Familial Convulsive Disorder with an Unusual Onset During Intrauterine Life, J Pediatr, 2010:156(5):809.
- 68. Abbasi S, Aden U, Allan W, Bada H, Barks J, Bauer C, Bizzarro M, Carlo W, Chen X, Cummings J Ehrenkranz R, Eyal F, Faix R, Fuller J, Hopper A, **Inder T,** Kaiser J, Karpen H. Lifton R, Ment L, O'Shea T, Poindexter B, Pourcyrous M, Sayman K, Shankaran S, Vohr B, Yoder B, Zhang H. Early Caffeine is Associated with Decreased IVH in Very Low Birth Weight Neonates. Ann Neurol, 2010;68(4):S89.
- 69. **Inder TE**. Imaging the Preterm Brain in Preterm Birth: Long Term Effects on Brain and Behavior. Ed C Nosarti Cambridge Press 2010 (Textbook Chapter)

- 70. **Inder T.** Imaging Insights of Alterations and Adaptations in the Preterm and Late Preterm Brain. Journal of Pediatrics. 2010;156(6):867-8. PMID: 20493317 (Review)
- 71. Lawrence R, Inder T. Neonatal Status Epilepticus. Semin Pediatr Neurol 2010;14(3):163-8 (Review)
- 72. **Inder TE**, Volpe JJ. Intraventricular Hemorrhage in the Neonate. Fetal and Neonatal Physiology, 4th ed. Polin, Fox, Abman. WB Saunders, Philadelphia, 2011 (Textbook Chapter)
- 73. Higgins RD, Raju T, Edwards AD, Azzopardi DV, Bose CL, Clark RH, Ferriero DM, Guillet R, Gunn AJ, Hagberg H, Hirtz D, **Inder TE**, Jacobs SE, Jenkins D, Juul S, Laptook AR, Lucey JF, Maze M, Palmer C, Papile L, Pfister RH, Robertson NJ, Rutherford M, Shankaran S, Silverstein FS, Soll RF, Thoresen M, Walsh WF; Eunice Kennedy Shriver National Institute of Child Health and Human Development Hypothermia Workshop Speakers and Moderators. J Pediatr, 2011;159(5):851-858.e1 PMID:21875719 (NIH Workshop summary)
- 74. Smyser C, **Inder T,** Shevell M, Miller S. Protecting the Preterm Brain. Acquired Brain Injury Mackeith Press (UK) Jan 2011 (Textbook Chapter)
- 75. Holowach J, **Inder TE.** 50 Years Ago in the Journal of Pediatrics. Psychomotor Seizures in Childhood. J Pediatr 2011;159(3):376 (Monograph)
- 76. **Inder TE,** Tao J, Neil JJ. Common Lesions in the Newborn Brain. Topics in Magnetic Resonance Imaging 2011;22(1):25-32 (Review)
- 77. **Inder T.** Education of a Child Neurologist in Neonatal Neurology. J Pediatr, 2011;18(2):110-1 (Editorial)
- 78. **Inder TE.** Pediatrics: Predicting Outcomes after Perinatal Brain Injury. Nat Rev Neurol 2011;13;7(10):544-5 (Editorial)
- 79. Jacobs SE, Morley CJ, **Inder TE**, Stewart MJ, Smith KR, McNamara PJ. Wright IMR, Kirpalani HM, Darlow BA, Doyle LW. Whole-Body Hypothermia for Term and Near-Term Newborns with Hypoxic-Ischemic Encephalopathy: A Randomized Controlled Trial . Editorial Comment. Obstet Gynecol, Survey, 2011;66(12):743-744.
- 80. **Inder TE.** Should We Resuscitate Newborn Infants in Developing Countries. J Pediatr, 2012;160(5):A4 (Editorial)
- 81. Smith JR, Raney M, Conner S, Coffelt P, McGrath J, Brotto M, Inder T, Application of the M Technique in Hospitalized Very Preterm Infants: A Feasibility Study. Adv Neonat Care, 2012;12(4):243-244.
- 82. **Inder T,** Mckinstry R, Miller S. Role of Neuroimaging Special Edition from American College of Obstetricians and Gynecologists on Neonatal Encephalopathy. 2013; (Review)
- 83. **Inder T.** (Guest Editor) Special Issue on Monitoring the Newborn Brain. Current Pediatric Review, 2013; (Review)
- 84. **Inder TE**, Benders M. Postnatal Steriods in the Preterm Infant the good, the ugly and the unkown. Journal of Pediatrics 2013;162(4):667-70 PMCID. (Editorial)
- 85. Jacobs SE, Berg M, Hunt R, Tarnow-Mordi WO, **Inder TE,** Davis PG. Cooling for Newborns with Hypoxic-Ischaemic Encephalopathy. Cochrane Database Syst Rev. 2013 Jan 31;1:CD003311. doi: 10.1002/14651858.CD003311 (Cochrane Review)
- 86. Madlinger-Lewis L, Reynolds L, Zarem C, Crapnell T, Inder T, Pineda R. The effects of alternative positioning on preterm infants in the neonatal intensive care unit: A randomized clinical trial. 2014;35:490-7.
- 87. Morton W, Davidson A, Doyle L, **Inder T,** Anderson P, Hunt R. Neurodevelopmental outcome at seven years of age following neonatal anaesthesia in very preterm infants. Anaesthesia, 2014;69:37.
- 88. Cahill A, Macones G, Colvin R, **Inder T,** Mathur A. Arterial cord blood (ACB) lactate correlates with brain lactate in non-encephalopathic term infants. Am J Obstet Gynecol, 2014;210:S32-S33.

- 89. Madlinger-Lewis, L, Reynolds L, Zarem C, Crapnell T, **Inder T,** Pineda R. Research in Developmental Disabilities 2015 41-42, 101-102
- 90. Volpe JJ, **Inder TE**, du Plessis AJ, Darras BT, Perlman JM, Neil J, deVries LS. (Editors). Volpe's Neurology of the Newborn, 6th ed. Philadelphia: Elsevier (38 chapters, 1189 pages, 614 Tables, 829 Figures, approximately 14,551 references), 2018, (Textbook Chapters).
- 91. **Inder TE**, Doyle LW, Cheong JLY, Anderson PJ. Value-based care: the preference of outcome over prediction. Reply. J Pediatr, 2018;196:331.
- 92. Walsh BH, **Inder TE**. Intraventricular Hemorrhage in the Neonate. Fetal and Neonatal Physiology. Chapter 134, 5th ed. Polin, Fox, Abman. Philadelphia, Elsevier, 2020 (Textbook Chapter).
- 93. Inder TE. Neonatal Neuroimaging. The History of Child Neurology (to be published 2021)
- 94. Inder TE, de Vries LS, Ferriero DM, Grant E, Ment LR, Miller SP, Volpe JJ. Commentary: Neuroimaging of the preterm brain – Review and recommendations. Reply. J Pediatr, 2021, In Press. Dec;239:248-249. doi: 10.1016/j.jpeds.2021.08.007. Epub 2021 Aug 11.
- 95. Garvey AA, Walsh BH, **Inder TE**. Pathogenesis and prevention of intraventricular hemorrhage. Semin Perinatol, 2022, Pages 151592.
- 96. Kayyal S, **Inder TE**. Seizures in Neonates. Fanaroff and Martin's Neonatal Perinatal Medicine 2023 (In Press)
- 97. Shafer G, Tran J, **Inder TE**. Neonatal Brain Disorders. Klaus and Fanaroff's Care of the High-Risk Neonate, 8th edition 2023 (In Press)
- 98. Garvey A, Walsh BH, **Inder TE**. Intraventricular Hemorrhage. Polin: Workbook in Practical Neonatology, 7/e 2023 (In Press)

3. Case Reports (n=8)

- 1. **Inder TE,** Huppi PS, Maier S, diSalvo D, Barnes PD, Volpe JJ. Early Detection of Periventricular Leukomalacia Using Diffusion-Weighted Magnetic Resonance Imaging. Journal Paediatrics 1999;134(5):631-634. PMID: 10228300
- 2. **Inder TE**, Huppi PS, Zientara G, Holling E, Barnes PD, Volpe JJ. The Postmigrational Development of Polymicrogyria Documented by Magnetic Resonance Imaging from 31 Weeks Postconceptional Age. Annals of Neurology 1999;45(6):798-801. PMID: 10360774
- 3. **Inder TE,** Mocatta T, Darlow BA, Winterbourn CC, Volpe JJ. Elevation of Oxidative Injury Markers in the CNS with Periventricular Leukomalacia in a Premature Infant with Meningitis. Journal of Pediatrics 2002 ;140(5):617-21. PMID: 12032532
- 4. Hunt RW, Loughnan P, Volpe JJ, **Inder TE.** Magnetic Resonance Demonstration in the Newborn of Generalized Cerebral Venous Dilatation with Spontaneous Resolution. European Journal of Pediatric Neurology 2002;6:289-292. PMID: 12374581
- 5. Hunt RW, Warfield SK, Wang H, Keane M, Volpe JJ, **Inder TE.** Assessment of the Impact of the Removal of Cerebrospinal Fluid on Cerebral Tissue Volumes by Advanced Volumetric 3D-MRI in Post-Hemorrhagic Hydrocephalus in a Premature Infant. Journal Neurology Neurosurgery Psychiatry 2003;74(5):658-660. PMID: 12700314
- 6. Efron DE, South M., Volpe JJ, **Inder TE**. Cerebral Injury in Association with Profound latrogenic Hyperglycaemia in a Neonate. Euro J Pediatric Neuro 2003 7:167-171. PMID: 12865056
- 7. Hennel S, Ekert P., Volpe JJ, **Inder TE.** Insights Into the Pathogenesis of the Cerebral Lesions in Incontinentia Pigmenti a case report. Pediatric Neurology. 2003;29:148-50. PMID: 14580659
- 8. Neil JJ, **Inder TE**. Detection of Wallerian Degeneration in a Newborn by Diffusion MR Imaging. Journal of Child Neurology 2006;21(2):115-8. PMID: 16566874

4. Textbooks

- 1. Associate Editor Volpe's Neurology of the Newborn, 6th ed. Philadelphia: Elsevier (38 chapters, 1189 pages, 614 Tables, 829 Figures, approximately 14,551 references), 2018, (Textbook Chapters).
- 2. Senior Associate Editor Volpe's Neurology of the Newborn, 7th ed. Philadelphia: Elsevier (43 chapters, 1489 pages), 2024, (In Press)
- Co-Editor Perlman Neurology: Neonatology Questions and Controversies, 4th edition 2023 (In Press) 15 chapters

Narrative – Dr Terrie Inder

I am a dual boarded newborn medicine physician and child neurologist with my predominant academic effort (75%) being focused on research in the newborn brain. I also undertake clinical service within the neonatal intensive care unit. As all our research activities are clinical investigations, our studies and clinical care of high-risk infants are tightly integrated. My research is targeted at understanding the timing, mechanisms and impact of cerebral injury and altered cerebral development in the human infant. Thus, my studies have focused on infants at high risk for brain injury including the prematurely-born infant, the sick term-born infant, and the infant with congenital heart disease. I aim to investigate means of accurate, early diagnosis of brain injury as well as developing treatments and preventive strategies to reduce subsequent disabilities. This research work has utilized technologies including near infrared spectroscopy, electroencephalography and magnetic resonance imaging. The findings from our research are often translated rapidly into clinical practice by newborn medicine attendings desiring to improve the neurological outcomes in their high-risk infants.

Alongside this focused research effort, I have acquired leadership skills in neuroscience research and academic activities, including mentorship, with a particular focus on innovation. From 2001-2005, I founded a new magnetic resonance imaging facility at the Murdoch Childrens Research Institute with a philanthropic gift of \$40M. This novel imaging center required co-operation across multiple departments, research institutes and with the regional and state government.

In 2005-13, I was recruited to Washington University in St Louis to establish a center of excellence in neonatal neurology. I founded the Washington University Neonatal Development Research (WUNDER) team which consisted of 12 physician scientists and 14 staff with an annual budget of \$2M to undertake our focused neonatal neurology investigations. In 2010-13, I was successful in gaining National Institute of Health funding for the first new Intellectual and Developmental Disabilities Research Center in the last two decades. I was the founding Director of the Washington University Intellectual and Developmental Disabilities Research Center (WUIDDRC), which consisted of four research cores in imaging; neuropsychology and genetics; translational animal models; biostatistics and bioinformatics to accelerate research findings in infants and children both at risk and with developmental disabilities supporting over 50 investigators. During my years at Washington University in St Louis, my commitment to mentoring the next generation of clinical investigators was recognized with the Doris Duke Distinguished Clinical Scientist Award and with the success of six K-level career trainees who all remain dedicated R-funded investigators in research leadership.

In 2013, I was recruited to be the first Chair of Pediatric Newborn Medicine at the Brigham and Women's Hospital with appointment as the Mary Ellen Avery Professor in Pediatrics at Harvard Medical School. The Department has over 100 employees with 50 physicians providing clinical newborn care to over 12,000 newborns with two neonatal intensive care units with 80 neonatal beds with an annual budget of close to \$20M. During this period, we rebuilt a new clinical facility extending by 20 beds with a novel design system optimizing differing models of care, established a neonatal transport program and built a consolidated network, established >50 clinical care pathways and created novel programs in fetal

care, specialized clinical care for neonatal neurocritical care and small baby care. We also optimized safety and quality through optimal multidisciplinary teamwork with novel leadership and organizational structures empowering all team members. The academic mission in the Department grew from \$1M to close to >\$15M with continuing growth, and with research activities in neonatal neuroscience, pulmonary medicine, genetics and global health. The Department educates more than 200 trainees in pediatric and neonatal medicine with a commitment to national and international teaching. I have also had the privilege of recruiting and retaining 6 K-level career trainees of whom three have become R-funded while the remaining complete training.

In 2022, I was recruited to be the inaugural Director of the Center for Neonatal Research at Childrens Hospital Orange County partnering with the University of California, Irvine to expand perinatal research within this very large and active clinical environment alongside assisting in faculty and fellow mentorship and education.

Finally, at an institutional level, I have assisted in leadership in task forces around physician wellness, female faculty, diversity and equity, research leadership and strategic and financial leadership.