

## Professor David Edwards' publications

Azzopardi D, Strohm B, Marlow N, Brocklehurst P, Deierl A, Eddama O, Goodwin J, Halliday HL, Juszczak E, Kapellou O, Levene M, Linsell L, Omar O, Thoresen M, Tusor N, Whitelaw A, Edwards AD. Effects of hypothermia for birth asphyxia on childhood outcomes *N Engl J Med*. 2014 371(2):140-9

Azzopardi DV, Strohm B, Edwards AD, Dyet L, Halliday HL, Juszczak E, Kapellou O, Levene M, Marlow N, Porter E, Thoresen M, Whitelaw A, Brocklehurst P. 2009. Moderate hypothermia to treat perinatal asphyxial encephalopathy. *N Engl J Med*. 361: 1349-1358.

Edwards AD, Brocklehurst P, Gunn AJ, Halliday H, Juszczak E, Levene M, Strohm B, Thoresen M, Whitelaw A, Azzopardi D. 2010. Neurological outcomes at 18 months of age after moderate hypothermia for perinatal hypoxic ischaemic encephalopathy: synthesis and meta-analysis of trial data. *British Medical Journal*. 340: c363.

Rutherford M, Ramenghi LA, Edwards AD, Brocklehurst P, Halliday H, Levene M, Strohm B, Thoresen M, Whitelaw A, Azzopardi D. 2010. Assessment of brain tissue injury after moderate hypothermia in neonates with hypoxic-ischaemic encephalopathy: a nested substudy of a randomised controlled trial. *Lancet Neurol*. 9: 39-45.

Ball G, Aljabar P, Zebari S, Tusor N, Arichi T, Merchant N, Robinson EC, Ogundipe E, Rueckert D, Edwards AD, Counsell SJ. Rich club organisation of the newborn human brain. *Proc Natl Acad Sci U S A*. 2014 May 20;111(20):7456-61

Development of cortical microstructure in the newborn human brain. Ball G, Srinivasan L, Aljabar P, Counsell SJ, Durighel G, Hajnal JV, Rutherford MA, Edwards AD. *Proc Natl Acad Sci U S A*. 2013 Jun 4;110(23):9541-6

Doria V, Beckmann CF, Arichi T, Merchant N, Groppo M, Turkheimer FE, Counsell SJ, Murgasova M, Aljabar P, Nunes RG, Larkman DJ, Rees G, Edwards AD. 2010. Emergence of resting state networks in the preterm human brain. *Proc Natl Acad Sci USA*. 107: 20015-20020.

Counsell SJ, Edwards AD, Chew AT, Anjari M, Dyet LE, Srinivasan L, Boardman JP, Allsop JM, Hajnal JV, Rutherford MA, Cowan FM. 2008. Specific relations between neurodevelopmental abilities and white matter microstructure in children born preterm. *Brain*. 131: 3201-3208.

Bassi L, Ricci D, Volzone A, Allsop Rathbone, R., Counsell, S.J., Kapellou, O., Dyet, L., Kennea, N., Hajnal, J., Allsop, J.M., Cowan, F., and Edwards, A.D. 2011. Perinatal cortical growth and childhood neurocognitive abilities. *Neurology* 77, 1510-1517.

JM, Srinivasan L, Pai A, Ribes C, Ramenghi LA, Mercuri E, Mosca F, Edwards AD, Cowan FM, Rutherford MA, Counsell SJ. 2008. Probabilistic diffusion tractography of the optic radiations and visual function in preterm infants at term equivalent age. *Brain*. 131: 573-582.

Kapellou O, Counsell SJ, Kennea N, Dyet L, Saeed N, Stark J, Maalouf E, Duggan P, Ajayi-Obe M, Hajnal J, Allsop JM, Boardman J, Rutherford MA, Cowan F, Edwards

AD. 2006. Abnormal cortical development after premature birth shown by altered allometric scaling of brain growth. *PLoS Med.* 3: e265.

Boardman JP, Counsell SJ, Rueckert D, Kapellou O, Bhatia KK, Aljabar P, Hajnal J, Allsop JM, Rutherford MA, Edwards AD. 2006. Abnormal deep grey matter development following preterm birth detected using deformation-based morphometry. *Neuroimage.* 32: 70-78.

Ma D, Hossain M, Chow A, Arshad M, Battson RM, Sanders RD, Mehmet H, Edwards AD, Franks NP, Maze M. 2005. Xenon and hypothermia combine to provide neuroprotection from neonatal asphyxia. *Ann Neurol.* 58: 182-193.

Gunn A, Gluckman PD, Wyatt JS, Thoresen M, Edwards AD. 2005. Selective head cooling after neonatal encephalopathy. *Lancet.* 365: 1619-1620.

Gluckman PD, Wyatt JS, Azzopardi D, Ballard R, Edwards AD, Ferriero DM, Polin RA, Robertson CM, Thoresen M, Whitelaw A, Gunn AJ. 2005. Selective head cooling with mild systemic hypothermia after neonatal encephalopathy: multicentre randomised trial. *Lancet.* 365: 663-670.

Duggan PJ, Maalouf E, Watts TL, Sullivan MHF, Counsell S, Allsop JM, Al-Nakib L, Rutherford M, Battin M, Roberts I, Edwards AD. 2001. Intrauterine T cell activation and increased pro-inflammatory cytokine concentrations in preterm infants with cerebral lesions. *Lancet.* 358: 1699-1700.

Ajayi-Obe M, Saeed N, Rutherford M, Cowan FM, Edwards AD. 2000. Reduced development of the cerebral cortex in extremely preterm infants. *Lancet.* 356: 1162-1163.

Battin M, Maalouf EF, Counsell S, Herilhy AH, Edwards AD. 1997. Magnetic resonance imaging of the brain of premature infants. *Lancet.* 349: 1741.

Mehmet H, Yue X, Squier MV, Lorek A, Cady E, Penrice J, Sarraf C, Wylezinska M, Kirkbride V, Cooper C, Brown GC, Wyatt JS, Reynolds EOR, Edwards AD. 1994. Increased apoptosis in the cingulate sulcus of newborn piglets following transient hypoxia-ischaemia is related to the degree of high energy phosphate depletion during the insult. *Neuroscience Letters.* 181: 121-125.

Edwards AD, Wyatt JS, Richardson C, Potter A, Cope M, Delpy DT, Reynolds EOR. 1991. Effects of indomethacin on cerebral haemodynamics in very preterm infants. *Lancet.* 335: 1491-1495.