

# Publications

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## **Congenitale Hernia Diafragmatica**

Vanaf begin jaren negentig is dit een speerpunt van de afdeling Kinderchirurgie op zowel translationeel als klinisch onderzoek. De afdeling is één van de top refereer centra voor deze aandoening in de wereld. Het betreft inmiddels 29 promoties en meer dan 180 artikelen

### *Proefschriften*

Bos AP

Congenital postolateral diaphragmatic hernia.

Promotores: Molenaar JC, Tibboel D.

EUR 19 mei 1993

Brandsma AE.

Lung development in congenital diaphragmatic hernia: an experimental study in a rat model of pulmonary hypoplasia and congenital diaphragmatic hernia induced by nitrofen.

Promotor: Tibboel D.

intern gepromoveerd, intern voorbereid

proefschrift EUR. 1995; 22 februari

Tenbrinck R.

Induced congenital diaphragmatic hernia: a model in rats.

Promotor: Tibboel D.

intern gepromoveerd, intern voorbereid

proefschrift EUR. 1995; 31 mei

IJsselstijn H

Clinical and experimental aspects of lung development and injury in congenital diaphragmatic hernia.

Supervisor: Tibboel D.

PhD thesis EUR. 1997; 5 March

Okazaki T

Clinical and molecular aspects of stress on the developing lungs

(Co)promotor(s): Tibboel D, Sharma HS

PhD thesis EUR (intern gepromoveerd, intern voorbereid = t1) 25 november 1999

Shehata SMK

Molecular and structural aspects of the pulmonary vasculature in human congenital diaphragmatic hernia and therapeutic implications

(Co)promotor(s): Tibboel D, Mooi WJ, Sharma HS

PhD thesis EUR (intern gepromoveerd, intern voorbereid = t1) 25 november 1999

Guldemeester HA.

Maturational features of the neonatal pulmonary circulation.

Promotor: Tibboel D

PhD thesis EUR (t1); 20-06-2001

ISBN 90.73235-23-5

Keijzer R.

Mechanisms of normal and abnormal pulmonary development.

Promotors: Tibboel D, Grosfeld F

PhD thesis EUR (t1); 20-06-2001  
ISBN 90-73235-74-X

Hösgör M  
Blood vessel and airway development in normal and congenital diaphragmatic hernia lungs.

(Co)promotors: Tibboel D, Mooi WJ, Krijger RR de  
PhD thesis EUR (t1); 12-12-2002  
ISBN 90-6734-056-1

Dooren MF van  
Congenital diaphragmatic hernia: The importance of genetic and environmental factors.

Promotors: Tibboel D, Oostra BA  
PhD thesis EUR (t1); 17-06-2004  
Aantal bladz. 187

Tuyl WG van  
Lung development: Vascular and epithelial branching morphogenesis.

Promotors: Tibboel D, Post M  
PhD thesis EUR (t1); 15-10-2004  
Aantal bladz. 256

Hanekamp MN.  
Short and long term studies in neonates treated with extracorporeal membrane oxygenation (ECMO)

(Co)promotor(s): Tibboel D, Hazebroek FWJ  
PhD thesis EUR (t1);23-12-2005  
aantal bladz. 138

Klaassens M  
Genetic factors in the etiology of congenital diaphragmatic hernia.

(Co)promotor(s): Tibboel D, Klein JEMM de  
PhD thesis EUR (t1);20-06-2007

Groenman FA  
Hypoxia Inducible Factor. A breath of fresh air in lung development.

(Co)promotor(s): Tibboel D, Post M  
PhD thesis EUR (t1);22-06-2007

Rajatapiti P  
Pulmonary development in congenital diaphragmatic hernia.

(Co)promotor(s): Tibboel D, Rottier RJ, Krijger RR de  
PhD thesis EUR (t1);28-06-2007

Reiss IKM.  
Injury to the developing lung: experimental and clinical aspects

(Co)promotor(s): Tibboel, prof.dr. D.  
PhD thesis EUR (t1); 28-3-2008

Gontan Pardo MC  
Sox2 in embryonic stem cells and lung development

(Co)promotor(s): Tibboel, prof.dr. D.; Grosfeld, prof.dr. FG; Rottier, dr. RJ  
PhD thesis EUR (t1); 08-04-2009

Beurskens LWJE

A black hole? Epidemiological and molecular biological studies on the etiology of congenital diaphragmatic hernia

(Co)promotor(s): Tibboel, prof.dr. D; Steegers-Theunissen, prof.dr. RPM

PhD EUR (t1); 24-11-2010

Cammen-Zijp MHM van der

In a gentle breeze. Pulmonary morbidity in children with anatomical congenital anomalies; long-term effects on exercise capacity and motor function

(Co)promotor(s): Tibboel, prof.dr. D; Meijers-IJsselstijn, Dr. H; Berg-Emons, Dr. HJG van den

PhD thesis EUR (t1); 6-10-2010

Horst I van der

Congenital diaphragmatic hernia. A pulmonary vascular point of view

(Co)promotor(s): Tibboel, prof.dr. D; Thebaud, Prof.dr. B

PhD EUR (t?);

Roublova XI

Prenatal interventions modulating lung development in the rabbit model: Effects on vascular development

(Co)promotor(s): Deprest, prof.dr. J; Tibboel, prof.dr. D; Verbeken, prof.dr. E

PhD thesis Katholieke Universiteit Leuven (t?); ?

Jongste-van den Hout L de

A new light on lung disease in congenital diaphragmatic hernia

(Co)promotor(s): Tibboel, prof.dr. D; Reiss, Dr. I

PhD EUR (t.1); 30-6-2011

Sluiter I

Congenital diaphragmatic hernia: a vascular disease. Functional and structural studies of the pulmonary vasculature in congenital diaphragmatic hernia

(Co)promotor(s): Tibboel, prof.dr. D; Reiss, prof.dr. IKM; Rottier, Dr. RJ

PhD EUR (t.1); 23-2-2012

Loenhout RB van

The pathogenesis of pulmonary hypoplasia in congenital diaphragmatic hernia: A continuing quest

(Co)promotor(s): Tibboel, prof.dr. D; Post, prof.dr M; Keijzer, Dr. R

PhD EUR (t.1); 30-5-2012

Veenma D

Genetic and epigenetic interplay in congenital diaphragmatic hernia

(Co)promotor(s): Tibboel, prof.dr. D; Klein, Dr. JEMM de

PhD EUR (t.1); 6-6-2012

Spoel M

The air that we breathe: Respiratory morbidity in children with congenital pulmonary malformations

(Co)promotor(s): Tibboel, prof.dr. D; Jongste, prof.dr JC de; Meijers-IJsselstijn, Dr. H

PhD EUR (t.1); 15-6-2012

Aantal bladz. 172

Huang Y

Dying for oxygen. Roles of hypoxia inducible factor 2 $\alpha$  and 3 $\alpha$  during lung development.

(Co)promotor(s): Tibboel, prof.dr. D; Rottier, Dr RJ;  
PhD EUR (t.1); 29-6-2012  
Aantal bladz. 124

Brouwer KM

Regenerative medicine of the diaphragm. Development and preclinical evaluation of collagen-based scaffolds.

(Co-)Promotor(s): Brock, prof.dr. RE; Feitz, prof.dr. WFJ; Wildt, Wijnen, prof.dr. RMH  
PhD Radboud Universiteit Nijmegen (t3);20-11-2013

*Artikelen:*

Tibboel D, Bos AP, Pattenier JW, Hazebroek FWJ, Madern GC, Molenaar JC. Pre operative stabilisation with delayed repair in congenital diaphragmatic hernia. *Z Kinderchir* 1989;44:139 143.

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Tibboel D, Tenbrinck R, Bos AP, Gaillard JLJ, Kluth D, Van Aken T, Molenaar JC. An experimental model of congenital diaphragmatic hernia.

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Beaufils F, Aigrain Y, Nivoche Y (eds)

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Kluth D, Kangah R, Reich P, Tenbrinck R, Tibboel D, Lambrecht W.

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*J Pediatr Surg* 1990; 25: 850 854

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Congenital diaphragmatic hernia: impact of prostanoids in the perioperative period.

*Arch Dis Child* 1990; 65: 994-995

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*J Pediatr Surg.* 1991; 26: 248 254

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Fallis JC, Filler RM, Lemoine G (eds.)

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diaphragmatic hernia survivors.  
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hypoplasia and congenital diaphragmatic hernia.  
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## Oesofagusatresie

Slokdarmatresie is zowel op translationeel als klinische onderzoek een van de grote intrinsies van de afdeling Kinderchirurgie. Dit heeft inmiddels geleid tot 1 promovendi en 3 promovendi zijn met dit onderwerp bezig.

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Promotors: Molenaar JC, Hazebroek FWJ.

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Felix JF

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(Co)promotor(s): Tibboel D

PhD thesis EUR (t1);12-10-2007

Jong EM de

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(Co)promotor(s): Tibboel, prof.dr. D; Klein, Dr. JEEM de

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Gastroenterology & Hepatology

48/74 Q3

## M. Hirschsprung

Begin jaren negentig heeft de afdeling kinderchirurgie veel onderzoek gedaan naar de Ziekte van Hirschsprung. Eind jaren negentig werd deze lijn voortgezet door de samenwerking met de afdeling klinische genetica op dit onderwerp. Sinds de komst van Prof. Hofstra, afdelingshoofd van de klinische genetica, is deze onderzoekslijn geïntensiveerd met momenteel 3 promovendi.

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Brooks AS.

Genetics of syndromic and non-syndromic Hirschsprung disease

(Co)promotor(s): Oostra BA, Tibboel D, Hofstra RMW

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Promotor: Molenaar JC

Co-promotor: Meijers JHC

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Ranking Pediatrics 35/86 Q2; Surgery

62/148 Q2

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Surgery 102/199 Q3

## **Anorectale Malformaties**

Anorectale malformatie onderzoek betreft m.n. klinisch onderzoek. Door de oprichting van het onderzoekscentrum is dit momenteel geïntensiveerd. Momenteel zijn er 2 promovendi op dit onderwerp klinisch onderzoek aan het doen waaronder ook onderzoek naar cloaca's.

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Urogenital tract anomalies in children with congenital anorectal malformations.

(Co)promotor: Molenaar JC.

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Netherlands J Surg. 1991\*; 43: 208-212.

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Journal of Pediatric Surgery

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Critical factors affecting quality of life of adult patients with anorectal malformations or Hirschsprung's disease.  
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Hartman EE, Oort FJ, Aronson DC, Hanneman MJ, van Heurn E, de Langen ZJ, Madern GC, Rieu PN, van der Zee DC, Looyaard N, van Silfhout-Bezemer M, Sprangers MA.  
Explaining change in quality of life of children and adolescents with anorectal malformations or Hirschsprung disease.

Goossens WJH, Blaauw I de, Wijnen MH, Gier RPE de, Kortmann B, Feitz WFJ  
Urological anomalies in anorectal malformations in The Netherlands: effects of screening all patients on long-term outcome.  
Pediatric Surgery International 2011;27:1091-1097  
IF 1.002                      5-year 1.010                      Ranking Surgery 115/188 Q3

Marcelis C, Blaauw I de, Brunner H  
Chromosomal anomalies in the etiology of anorectal malformations: A review  
American Journal of Medical Genetics Part A 2011;155:2692-2704  
IF 2.505                      5-year 2.539                      Ranking Genetics & Heredity 77/156 Q2

Geniets B, Ven CP van de, Maat AP, Scohy TV  
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IF 1.383                      5-Year IF 1.636                      Surgery 102/199 Q3

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Journal of Pediatric Surgery 2013;48:525-818-825  
IF 1.383                      5-Year IF 1.636                      Surgery 102/199 Q3

Wijers CHW et al., including Blaauw I de

Anorectal malformations and pregnancy-related disorders: a registry-based case-control study in 17 European regions.  
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IF 3.760      5-Year IF 3.754      Obstetrics & Gynecology 7/78 Q1

## Dunnedarmatresie/darmfalen

In de jaren negentig is er intensief onderzoek verricht naar darmtransplantaties. Met de oprichting in 2003 van het darmfalenteam is dit later weer opgepakt. Momenteel is 1 promovendus hierop onderzoek aan het doen.

### *Proefschriften*

Meijssen MAC.

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Promotor: Molenaar JC.

EUR 3 juni 1993

Wolvekamp MCJ.

Therapeutic modalities for the short bowel syndrome: improvement of adaptation and small-bowel transplantation.

Promotor: Molenaar JC

intern gepromoveerd, intern voorbereid

proefschrift EUR. 1994; 15 juni

Schaart MW.

Gut at risk. Epithelial nutrient digestion and absorption, protection and defence.

(Co)promotor(s): Goudoever JB van, Tibboel D

PhD thesis EUR (t1); 7-12-2006

aantal bladz. 190

Olieman JF

Infantile short bowel syndrome: short and long term evaluation

(Co)promotor(s): Tibboel, prof.dr. D.; Penning, dr. C

PhD thesis EUR (t1); 12-2-2009

Struijs AECJM

Intestinal crises in the newborn. Loss of intestinal absorptive capacity after necrotizing enterocolitis

(Co)promotor(s): Tibboel, prof.dr. D; Goudoever, prof.dr JB van; Keijzer, Dr. R

PhD EUR (t.1); 1-6-2012

### *Artikelen:*

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62/148 Q2

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IJsselstijn H.

Visolie bij langdurige parenterale voeding bij kinderen. Omega-3-vetzuren hebben  
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IF 3.013      5-Year IF 3.342      Nutrition & Dietetics 19/72 Q2

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Impact of infantile short bowel syndrome on long-term health-related quality of life: a  
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Journal of Pediatric Surgery 2012; 47: 1309-1316

IF 1.450      5-Year IF 1.558      Surgery 92/182 Q2

Werf CS van der, Wabbersen TD, Hsiao N-H, Paredes J, Etchervers HC, Kroisel PM,  
Tibboel D et. al.

CLMP is required for intestinal development, and loss-of-function mutations cause  
congenital short-bowel syndrome.

Gastroenterology 2012;142:453-462

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Goulet O, Olieman J, Ksiazek, Spolidoro J, Tibboel D, Kohler H, Vural Yagci R,  
Falconer J, Grimble G, Beattie RM

Neonatal short bowel syndrome as a model of intestinal failure: physiological  
background for enteral feeding.

Clinical Nutrition 2013;32:162-171

IF 3.731      5-Year IF 4.093      Nutrition & Dietetics 13/74 Q1



## DSD

Disorder of sex development is een moeilijke aandoening die wordt behandeld binnen een multi-disciplinair team.

### *Proefschriften*

Wiersma R  
Ovotesticular disorder of sex development in Southern Africa  
(Co)promotor(s): Tibboel, prof.dr. D; Hazebroek, prof.dr. FWJ  
PhD EUR (t2); 22-12-2011

### *Artikelen:*

Slijper FME, Drop SLS, Molenaar JC, Muinck Keizer-Schrama SMPF de.  
Long-term psychological evaluation of intersex children.  
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Slijper FME, Kamp HJ van der, Brandenburg H, Muinck Keizer Schrama SMPF de,  
Drop SLS, Molenaar JC.  
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counseling.  
J Sex Educ Ther 1994; 20: 9-17.

Molenaar JC.  
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Semin Pediatr Surg 1996;5:133-135.

Versteegh HP, Rooij IALM van, Levitt MA, Sloots CEJ, Wijnen RMH, Blauw I de  
Long-term follow-up of functional outcome in patients with a cloacal malformation: A  
systematic review.  
Journal of Pediatric Surgery 2013;48:2443-2350  
IF 1.383      5-Year IF 1.636      Surgery 102/199 Q3

## **Gastroschisis / omphalocele**

Buikwanddefecten is de laatste zeven jaar een onderzoeksthema in samenwerking met de afdeling prenatale geneeskunde/verloskunde. Momenteel is hier 1 onderzoeker op aangesteld.

### *Proefschriften*

Cohen-Overbeek TE

Detection of congenital anomalies before or after birth; does it make a difference?

(Co)promotor(s): Wladimiroff, prof.dr. J.W.; Tibboel, prof.dr. D.

PhD thesis EUR (t1); 29-10-2008

Eijck FC van

Strategies and trends in the treatment of (giant) omphalocele

(Co)promotor(s): Wijnen, prof.dr. RHM

PhD EUR (t.); 6-4-2011

### *Artikelen*

Molenaar JC, Tibboel D, Gaillard JLJ.

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In: Defaults congenitaux de la paroi abdominale.

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Gastroschisis and Omphalocele.

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Amnio allantoic fluid exchange for the prevention of intestinal

damage in gastroschisis: an experimental study on chick embryos.

J Pediatr Surg 1995; 30: 384 387

Molenaar JC.

Preface: abdominal wall defects.

Semin Pediatr Surg 1996;5:81

Heydanus R, Raats MAM, Tibboel D, Los FJ, Wladimiroff JW.

Prenatal diagnosis of fetal abdominal wall defects: a retrospective analysis of 44 cases.

Prenatal Diag 1996;16:411 417.

Aktug T, Hosgor M, Akgur FM, Olguner M, Kargi A, Tibboel D

End-results of experimental gastroschisis created by abdominal wall versus umbilical cord defect.

Pediatr Surg Int 1997;12(8):583-6

Aktug T, Hosgör M, Akgür FM, Olguner M, Kargi A, Tibboel D.  
End-results of experimental gastroschisis created by abdominal wall versus umbilical cord defect.  
Pediatr Surg Int 1997; 12: 583-586 (released 1998)

Cohen-Overbeek TE, Hatzmann TR, Steegers EA, Hop WC, Wladimiroff JW, Tibboel D  
The outcome of gastroschisis after a prenatal diagnosis or a diagnosis only at birth.  
Recommendations for prenatal surveillance  
European Journal of Obstetrics & Gynecology and Reproductive Biology 2008;  
139:21-27

Cohen-Overbeek T, Tong W, Hatzman T, Wilms J, Govaerts L, Galjaard R, Steegers E, Hop W, Wladimiroff, Tibboel D  
Omphalocele: comparison of outcome following prenatal or postnatal diagnosis  
Ultrasound in Obstetrics & Gynecology 2010;36:687-692  
IF 3.154      5-year IF 2.963      Ranking Obstetrics & Gynecology 8/70  
Q1

Eijck F van, Aronson DA, Hoogewveen YL, Wijnen RMH  
Past and current surgical treatment of giant omphalocele: outcome of a questionnaire sent to authors.  
Journal of Pediatric Surgery 2011;46:482-488  
IF 1.308      5-year 1.496      Ranking Surgery 90/188 Q2

Eijck F van, Aronson DA, Hoogewveen YL, Wijnen RMH  
Past and current surgical treatment of giant omphalocele: outcome of a questionnaire sent to authors.  
Journal of Pediatric Surgery 2011;46:482-488  
IF 1.308      5-year 1.496      Ranking Surgery 90/188 Q2

Eijck FC, Vlimmeren LSA, Wijnen RM, Klein W, Kruijien I, Pillen S, Nijhuis-van der Sanden MW  
Functional, motor developmental, and long-term outcome after the component separation technique in children with giant omphalocele: A case control study.  
Journal of Pediatric Surgery 2013;48:525-532  
IF 1.383      5-Year IF 1.636      Surgery 102/199 Q3

Roelofs LA, Geutjes PJ, Hulsbergen-van de Kaa CA, Eggink AJ, Kuppevelt TH van, Daamen WF, Crevels AJ, Berg PJ van den, Feitz WF, Wijnen RM  
Prenatal coverage of experimental gastroschisis with a collagen scaffold to protect the bowel.  
Journal of Pediatric Surgery 2013;48:516-524  
IF 1.383      5-Year IF 1.636      Surgery 102/199 Q3

## Vasculaire malformaties

Vasculaire en lymfomatische afwijkingen zijn ook aangeboren aandoeningen en worden behandeld binnen het multi-disciplinaire behandelteam WEEVA. Hiernaar wordt ook klinisch onderzoek verricht, met momenteel 1 promovendus.

### *Artikelen:*

Laat PCJ de, Madern GC, Oranje  
Therapie van hemangiomen

In: Diagnostiek en therapie in de kinderdermatologie

Editors: Waard FB de-Spek van de, Oranje AP

Ziekenhuis de Weezenlanden, Zwolle

ISBN 90-74991-25-4

Oranje AP, Waard-van der Spek FB de, Devillers ACA, Laat PCJ, Madern GC.  
Treatment and pain relief of ulcerative hemangiomas with a polyurethane  
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Laat PCJ de, Madern GC, Oranje AP.

Therapie van hemangiomen.

In: Suijlekom-Smit LWA van (ed).

Tussen Kunst en Kunde

Rotterdam, Commissie Post Academisch Onderwijs Kindergeneeskunde 2001; 139-  
140

ISBN 90-76220-07-7

Devillers ACA, Laat PCJ de, Madern GC, Oranje AP.

Het Kasabach-Merritt-syndroom: behandeling met vincristine.

*Nederlands Tijdschrift voor Dermatologie & Venereologie*

2002; 12: 30-31

Devillers ACA, Laat PCJ de, Madern GC, Oranje AP.

Cutis marmorata telangiectatica congenita.

*Nederlands Tijdschrift voor Dermatologie & Venereologie*

2002; 12: 32-33

Verhallen JTCM, Laat PCJ de, Devillers ACA, Madern GA, Eden C van, Oranje AP

Het Kasabach-Merritt-syndroom

*Tijdschrift voor Kindergeneeskunde* 2003;71:159-162

Assen YJ, Madern GC, Laat PCJ de, Hollander JC den, Oranje AP

Rhabdoid tumor mimicking hemangioma.

*Pediatric Dermatology* 2011;28:295-298

IF 1.117

5-year 1.361

Ranking Dermatology 40/55 Q3

Janmohamed SZR, Waard de-van der Spek FB, Madern GC, Laat PCJ de, Hop  
WCP, Oranje AP

Scoring the proliferative activity of haemangioma of infancy: the Haemangioma  
Activity Score (HAS)

*Clinical and Experimental Dermatology* 2011;36:715-723

IF 1.267

5-year 1.548

Ranking Dermatology 35/55 Q3

Janmohamed SZR, Laat PCJ de, Madern GC, Oranje AP

Do we have to check glucose in patients with haemangioma of infancy treated with beta-blockers?

Journal of the European Academy of Dermatology and Venerology 2011;25:1490  
IF 3.309                      5-year 2.821                      Ranking Dermatology 10/55 Q1

Janmohamed SZR, Madern GC, Laat PCJ de, Oranje AP

Haemangioma of infancy: two case reports with an overdose of Propranolol.

Case Reports in Dermatology 2011;3:18-21

## **Aangeboren longafwijkingen (inclusief CCAML)**

### *Artikelen*

Reiss I, Ven CP van der, Tibboel D  
Congenital lung malformations: diagnostic and therapeutic approaches  
Intensivmed 2008; 45:12-18

Keijzer R, Chiu PPL, Ratjen F, Langer JC  
Pulmonary function after early vs late lobectomy during childhood: a preliminary study.  
Journal of Pediatric Surgery 2009; 44:893-895  
IF 1.557      5-year IF 1.730      Ranking Surgery 62/148 Q2; Pediatrics 35/86 Q2

Spoel M, van de Ven KP, Tiddens HA, Hop WC, Wijnen RM, Tibboel D, IJsselstijn H;  
Congenital Lung Malformations Study Group.  
Lung function of infants with congenital lung lesions in the first year of life.  
Neonatology. 2013;103(1):60-6.

## **Anatomische Congenitale Aandoeningen algemeen**

### *Proefschriften*

Hartwig NG.

Pathoembryology: developmental processes and congenital malformations.

Promotor: Molenaar JC.

elders gepromoveerd, intern voorbereid.

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Poley MJ.

Cost-effectiveness of neonatal surgery. A matter of balance.

(Co)promotor(s): Rutten FFH, Tibboel D, Busschbach JJ

PhD thesis EUR (t1);23-12-2005

Mazer P

Children with anatomical congenital anomalies; a portrait. Follow-up over five years

(Co)promotor(s): Tibboel, prof.dr. D.; Dijk, dr. M. van

PhD thesis EUR (t1); 05-12-2008

Gischler SJ

Children with anatomical congenital anomalies; a portrait. Follow-up over five years

(Co)promotor(s): Tibboel, prof.dr. D.; Meijers-Ijsselstijn, dr. H; Dijk, dr. M. van

PhD thesis EUR (t1); 05-12-2008

Madderom MJ

Long-term follow-up of children treated with neonatal extracorporeal membrane oxygenation: neuropsychological outcome.

(Co-)Promotor(s): Tibboel, prof.dr. D; Heijst, Dr. AFJ van; IJsselstijn, Dr. H

PhD EUR (t1); 5-6-2013

### *Artikelen:*

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De resultaten van prenataal echoscopisch onderzoek bij de opsporing van specifieke kinderchirurgische afwijkingen.

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ISBN 90 313 3430 8

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Is continuation of life support always the best option for neonates with congenital  
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Betere positie neonatale chirurgie door kosteneffectiviteitsonderzoek.  
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de toekomst.  
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## Minimal Access Surgery ofwel minimale invasieve chirurgie

Met de komst van Prof. N. Bax in 2006 naar het Sophia Kinderziekenhuis is deze vorm van chirurgie standaard en is de afdeling Kinderchirurgie en pionier op dit gebied. Zowel klinisch maar ook dierexperimenteel onderzoek wordt sinds die tijd uitgevoerd.

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