

## Lebenslauf

Name Prof. Dr. med Claus J. Petersen

Geb.-Datum 14. Juli 1954 in Kiel

Adresse Zentrum für Kinderchirurgie Hannover  
Medizinische Hochschule Hannover  
Carl-Neuberg-Str. 1  
30625 Hannover  
Tel.: ++49 – 511 – 532 – 9240  
- 9047  
Fax: ++49 – 511 – 532 – 9059  
E-mail: petersen.claus@mh-hannover.de

Eheschließung 1986 mit Dr.med Elke Gützlaff

Kinder Sarah Katharina Assiba Gützlaff geb. 24.11.1985  
Malte Jan Gützlaff geb. 24.11.1989  
Lea Yvonne Gützlaff geb. 24.11.1989

Schule 1961 - `64 Muhliusschule in Kiel  
1964 - `67 Kieler Gelehrtenschule (altspr. Zweig)  
1967 - `73 Katharineum zu Lübeck (altspr. Zweig)  
1973 Abitur (altspr.)

Medizinstudium 1973 - `76 Chr.-Albrechts-Universität Kiel  
1976 Medizinische Hochschule Lübeck  
1976 - `80 Medizinische Hochschule Hannover

Ärztliche Prüfung 1980 an der Medizinischen Hochschule Hannover  
(Wahlfach: Pädiatrie)

Approbation Dez. 1980

Promotion Dez. 1983  
Über die Anwendung der Verschußdruckmethode bei inhalativer Provokation im Kindesalter

Habilitation April 1998  
Zur Ätiologie der extrahepatischen Gallengangatresie – Neue Wege in einem Infektionsmodell an der Maus

Apl.-Prof. Mai 2002

Facharzt 1992 Chirurgie  
1996 Teilgebiet Kinderchirurgie

**Berufliche  
Tätigkeit**

Jan `81 - Juni `82 Allgemein - und Unfallchirurgische Abteilung des Robert-Koch-Krankenhaus in Gehrden (Landkrs. Hannover)

Jan - Aug `83 Gynäkologisch - Geburtshilfliche Abteilung Kreiskrankenhaus Stormarn in Bad Oldesloe

Aug/Sept `83 Kurs über „Medizin in Entwicklungsländern“ (Heidelberg/Tübingen)

Okt `83 bis Feb `86 unter Vertrag beim „Deutschen Entwicklungsdienst“ Berlin; davon 26 Monate als Entwicklungshelfer in der Volksrepublik Bénin

Okt `86 bis Okt `87 Kinderchirurgie MHH

Nov `87 bis Okt `90 Allgemein- und Unfallchirurgische Abteilung Kreiskrankenhaus Reutlingen

seit Nov `90 Kinderchirurgie MHH

seit Feb `92 Oberarzt der Abteilung

seit Jan `99 leitender Oberarzt der Abteilung und ständiger Vertreter des Abteilungsleiters

Sept `99 – Aug `00 kommissarischer Leiter der Abteilung

seit Nov `02 Prüfer der Ärztekammer Niedersachsen im Schwerpunkt Kinderchirurgie in der Chirurgie

seit 2006 Koordinator des Projekts „Kinderchirurgie für den Jemen - Lehre zur Lehre“

**Klinische Schwerpunkte**

Hepatobiliäre Chirurgie

Kinderurologie

Trichterbrust und andere Veränderungen der Thoraxwand

**Wissenschaftlicher Schwerpunkt**

Gallengangatresie

## **Wissenschaftliche Auszeichnungen**

- 1997 Richard-Drachter-Preis der Deutschen Gesellschaft für Kinderchirurgie
- 2001 Hans-Salzer-Preis der Österreichischen Gesellschaft für Kinderchirurgie
- 2008 Edgar-Ungeheuer-Preis der Deutschen Gesellschaft für Chirurgie
- 2008 Dritter Preis des ersten WeBSurg Award/IRCAD, Strasbourg (Frankreich), als Coautor von K. Khelif

## **Ad hoc reviewing for**

Acta Medica Academica  
Acta Paediatrica  
Archives of Disease in Childhood  
BMC Cases Journal  
BMC Gastroenterology  
BMJ Pediatrics Open  
Clinics in Surgery (editorial board)  
European Journal of Pediatrics  
European Journal of Paediatric Surgery (editorial board)  
European Journal of Paediatric Surgery Reports  
Expert opinion  
Expert Review of Gastroenterology & Hepatology  
Gastroenterology  
Hepatology  
International Journal of Experimental Pathology  
The Journal of Hepatology  
The Journal of Pediatrics  
The Journal of Pathology  
The Open Surgery Journal (editorial board)  
Journal of the American College of Surgeons  
Journal of Pediatrics  
Journal of Paediatric Surgery  
Journal of Paediatric Gastroenterology and Nutrition  
Journal of Surgical Research  
Journal of Virology  
Klinische Pädiatrie  
Liver Transplantation  
Pediatrics  
Paediatric Research  
Paediatric Surgery International  
Vaccine  
Viral Immunology  
World Journal of Hepatology (editorial board)  
World Journal of Pediatrics  
World Journal of Urology

## **Invited Lecturer**

UMCG, Groningen, Netherlands  
Abu Dabi, UAE  
University of Graz, Austria  
UKE, Hamburg, Germany  
Luzern, Switzerland

## **Visiting Professor**

Turku, Finland  
Aarhus, Danmark  
Brussels, Belgium  
Groningen, Netherlands  
Bangkok, Thailand  
Istanbul, Turkey  
Thessaloniki, Greece  
Sana'a, Yemen  
Haifa, Tel Aviv Israel  
Manchester, UK  
Vancouver, Canada  
Leipzig, Germany

## **Auswahl wissenschaftlicher Projekte und deren Förderung**

Titel	Grundlagenforschung zur Ätiologie der Gallengangatresie
Projektbeginn	1995
Förderung	DFG (3 Jahre) MHH HILF-Programm Diverse Spenden von Stiftungen und Industrie

Titel	Europäisches Register zur Gallengangatresie
Projektlaufzeit	2001 bis '05
Förderung	Nds. Ministerium für Wissenschaft und Kultur Diverse Stiftungen und Industrie

Titel	Kinderchirurgie für den Jemen – Lehre zur Lehre
Projektbeginn	2006
Förderung	DAAD 2006 - '10, 2013-2015 div. Sach- und Finanzspenden

Titel	BARD-online
Projektbeginn	2009
Förderung	Dr. August und Erika Appenrodt-Stiftung

Titel	Schwermetallbelastung nach Korrekturen der Thoraxwand
Projektbeginn	2017
Förderung	Erwin Röver-Stiftung

## **Organisierte Kongresse**

Biliary atresia – New clues from etiology to therapy  
Innovation by cooperation  
Hannover 1999

European Biliary Atresia Registries  
What comes next?  
Hannover 2006

Pediatric Surgery in Yemen  
Sana'a geplant für September 2013

Biliary atresia and related diseases  
Let's stick together  
Berlin 2014

## **Bücher und Buchkapitel**

C. Petersen

Gallengangatresie S. 427ff  
Bauchwanddefekte S. 325 ff  
In Pädiatrische Gastroenterologie, Hepatologie und Ernährung, 2. Aufl. 2013  
Hsg. Rodeck, Zimmer, Springer Verlag berlin, Heidelberg

C. Petersen

Fehlbildungen und Tumore der Thoraxwand S. 273 ff  
Erkrankungen der Leber und Gallenwege S. 507 ff  
In Kinderchirurgie, 2. Aufl. 2013  
Hsg. Von Schweinitz, Ure, Springer Verlag berlin, Heidelberg

C. Petersen

Die Gallengangatresie und andere Lebererkrankungen des Neugeborenen  
Pabst Science Publishers, 2015, Lengerich

C. Petersen, B.M. Ure (Hsg.)

Thoracic Surgery in Children and Adolescents, 1. Aufl. Okt. 2016  
De Gruyter Verlag, Berlin

D. Haffner, C. Petersen

Niere und Harnwegssystem  
In: Speer/Gahr/Dötsch (Hrsg.): Pädiatrie, 5. Auflage 2018  
Springer-Verlag Berlin Heidelberg

## Ausgewählte Publikationen

### **Biliary atresia**

**Petersen C**, Biermanns D, Kuske M, Schäkel K, Meyer-Junghänel L, Mildenberger, H  
New aspects in a murine infectious model for extrahepatic biliary atresia  
J Pediatr Surg 32 (1997): 1190 - 1195

**Petersen C**, Bruns E, Kuske M, v. Wussow P  
Treatment of extrahepatic biliary atresia with interferon -  $\alpha$  in a murine infectious model  
Pediatr Res 42 (1997): 623 - 628

**Petersen C**, Kuske M, Bruns E, Biermanns D, v. Wussow P, Mildenberger H  
Progress in developing animal models for biliary atresia  
Eur J Pediatr Surg 8 (1998): 137 - 141

**Petersen C**, Grasshoff S, Luciano L  
Diverse morphology of biliary atresia in an animal model  
J Hepatol 28 (1998): 603 - 607

Czech-Schmidt G, Verhagen W, Szavay P, Leonhardt J, **Petersen C**  
Immunological gap in the infectious animal model for biliary atresia  
J Surg Res 101 (2001): 62 - 67

**Petersen C**, Ure BM  
What's new in biliary atresia (Review)  
Eur J Pediatr Surg 13 (2003): 1-6

**Petersen C**  
Surgery for biliary atresia – futile or futuristic? (Review)  
Eur J Pediatr Surg (2004): 226-229

Chan R, Tan C, Czech-Schmidt G, **Petersen C**  
Computerized three-dimensional study of a rotavirus model of biliary atresia: comparison with human biliary atresia  
Pediatr Surg Int 21 (2005): 1-6

**Petersen C**, Melter M, Leonhardt J, Rodeck B, Becker T, Harder D  
Biliary atresia research is crossing national and interdisciplinary borderlines  
Acta Paediatrica 94 (2005):526-7

**Petersen C**  
Pathogenesis and treatment opportunities for biliary atresia (Review)  
Clin Liver Dis 10 (2006):73-88

Al-Masri AN, Flemming P, Leonhardt J, Rodeck B, **Petersen C**  
Expression of IFN-induced Mx proteins in biliary atresia  
J Pediatr Surg 41(2006):1139-43

J. Kübler, Czech-Schmidt G, Leonhardt J, Ure BM, **Petersen C**

Type-I but not type-II interferon receptor knockout mice are susceptible to biliary atresia.

Pediatr Res 59 (2006) 790-426

Leonhardt J, Stanulla M, v Wasielewski R, Skokowa J, Kübler J, Ure BM, **Petersen C**  
Gene expression profile of the infective murine model for biliary atresia.

Pediatr Surg Int 22 (2006): 84-9

Davenport M, Ure BM, **Petersen C**, Kobayashi H  
Surgery for Biliary Atresia – is there European consensus?

Eur J Pediatr Surg 17 (2007): 180-3

### **Petersen C**

Biliary atresia – interdisciplinary initiatives focus on a rare disease (Review)

Paediatric Surgery International 23 (2007): 521-7

**Petersen C**, Ure B M, Davenport M

Multicenter biliary atresia outcome studies: the importance of surgical aspects

J Pediatr 150 (2007):e89

**Petersen C**, Harder D, Melter M, Becker T, v. Wasielewski R, Leonhardt J, Ure BM  
Postoperative high-dose steroids do not improve mid-term survival with native

liver in biliary atresia

Am J Gastroenterol 103 (2008):712-9

**Petersen C**, Harder D, Abola Z, Alberti D, Becker D, Chardot C, Davenport M,  
Deutschmann A, Khelif K, Kobayashi H, Kvist N, Leonhardt J, Melter M, Pakarinen  
M, Pawlowska J, Petersons A, Pfister E, Rygl M, Schreiber R, Sokol R J, Ure BM,  
Veiga C, Verkade H J, Wildhaber B, Yerushalmi B, Kelly D

European biliary atresia registries - Summary of a symposium

Eur J Pediatr Surg 18 (2008): 111-116

Rauschenfels S, Krassmann M, Al-Masri AN, Verhagen W, Leonhardt J, Kuebler JF,  
**Petersen C**.

Incidence of hepatotropic viruses in biliary atresia.

Eur J Pediatr 168 (2009): 469-76

Pape L, Olsson K, **Petersen C**, von Wasiliewski R, Melter M

Prognostic value of a computerized quantification of liver fibrosis with PicroSirius  
Red Staining in children with extrahepatic biliary atresia.

Liver Transplantation 15 (2009): 876-82

**Petersen C**, Meier P N, Schneider A, Turowski C, Pfister E D, Manns M P, Ure B M,  
Wedemeyer J

ERCP prior to explorative laparotomy avoids unnecessary surgery in patients  
suspected for biliary atresia

J Hepatol 51 (2009): 1055-60

Leonhardt J, Kuebler J F, Turowski C, Tschernig T, Geffers R, **Petersen C**  
Susceptibility to Experimental Biliary Atresia is Linked to Different Hepatic Gene  
Expression Profiles in Various Mouse Strains  
Hepatol Res 40 (2009): 196-203

**Petersen, C.**, Ure, B.M.  
Liver and choledochal cysts in newborns  
Padiatrische Praxis 74 (2010): 619-25

**Petersen C**, Turowski C, Ure BM  
Prevention of biliary atresia in the experimental mouse model provides a new  
approach to elucidate its immune pathomechanism. (letter)  
J Pediatr Surg 45 (2010): 285-6

Turowski C, Leonhardt J, Teichmann B, Heim A, Baumann U, Kuebler JF,  
**Petersen C**  
Preconceptional oral vaccination prevents experimental biliary atresia in newborn  
mice  
Eur J Pediatr Surg 20 (2010):158-63

**Petersen, C.**, Ure, B.M.  
Liver and choledochal cysts in newborns  
Chirurgische Praxis 73 (2011): 71-78

Ure BM, Kuebler JF, Schukfeh N, Engelmann C, Dingemann J, **Petersen C**  
Survival with the native liver after laparoscopic versus conventional Kasai  
portoenterostomy in infants with biliary atresia: a prospective trial  
Ann Surg 253 (2011): 826-30.

Leonhardt J, Kuebler JF, Leute PJ, Turowski C, Becker T, Pfister ED, Ure B,  
**Petersen C**  
Biliary atresia: lessons learned from the voluntary German registry.  
Eur J Pediatr Surg 21 (2011): 82-7

Schukfeh N, Al-Jamra A, **Petersen C**, Kuebler JF  
Detection of hepatotropic viruses has no impact on the prognosis after Kasai  
procedure  
J Pediatr Surg 47 (2012): 1828-32

**Petersen C**  
Biliary atresia: the animal models  
Sem Pediatr Surg 21 (2012):185-91

Oetzmann von Sochaczewski C, **Petersen C**, Ure B M., Osthaus A, Schubert KP,  
Becker T, Lehner F, Kuebler J F  
Laparoscopic Versus Conventional Kasai Portoenterostomy Does Not Facilitate  
Subsequent Liver Transplantation in Infants with Biliary Atresia  
J Laparoendosc Adv Surg Tech A 22 (2012): 408- 411



**Petersen C, Rodeck B**

Vom Symptom zur Diagnose: das „gelbe Neugeborene“  
bvkj 2013; 44: 223-228

**Petersen C , Davenport M**

Aetiology of Biliary Atresia : What is actually known?  
Orphanet J Rare Dis 29 (2013):128

Rotavirus particles in the extrahepatic bile duct in experimental biliary atresia  
Oetzmann von Sochaczewski C, Pintelon I, Brouns I, Dreier A, Klemann C,  
Timmermans J P, **Petersen C** Kuebler J F  
J Pediatr Surg 49 (2013): 520-4

Pfister ED, **Petersen C**, Kübler J, Baumann U.

A diagnostic score for biliary atresia.  
J Hepatol 61 (2014):1440

Whitby T, Schroeder D, Kim HS, **Petersen C**, Dirsch O, Baumann U, Auth MKH  
Modifications in Integrin Expression and Extracellular Matrix Composition in  
Children with Biliary Atresia  
Klin Pediatr 227 (2015): 15-22.

Keyzer-Dekker, C, Lind R, Kuebler J, Offerhaus G., ten Kate F, Morsink F., Verkade  
H., **Petersen C.**, Hulscher J.

Liver fibrosis during the development of biliary atresia: proof of principle in the  
murine model  
J Pediatr Surg 50 (2015): 1304-09

Andruszkow JHK, Groos S, Klaus C, Schneider U, **Petersen C**, Gassler N, Knüchel R,  
Luciano L

Loss of gap junctions in biliary atresia occurs simultaneously with declined expression  
of Protein kinase C $\alpha$   
Z Gastroenterol 53 (2015) A1\_33

Madadi-Sanjani O, Carl N, Longerich T, **Petersen C**, Andruszkow J.

Secondary surgical procedures after Kasai don't alleviate survival with native liver in  
biliary atresia  
BioMed Res Int 2015: 383791. doi: 10.1155/2015/383791

Klemann C, Schröder A, Dreier A, Moehn N, Winterberg T, Dippel S, Gueler F, Jörns  
A, Leonhardt J, Lochner M, Haas J, Prinz I, **Petersen C**, Kuebler J

Neutralization of Interleukin-17 produced by gamma delta T cell constrains  
inflammation in experimental biliary atresia  
Gastroenterology 2016; 150: 229-241

Verkade HJ, Bezerra JA, Davenport M, Schreiber RA, Mieli-Vergani G, Hulscher JB,  
Sokol RJ, Kelly DA, Ure B, Whittington PF, Samyn M, **Petersen C**

Biliary atresia and other cholestatic childhood diseases: advances and future  
challenges  
J Hepatol 2016; 65:631-42

Negm A, **Petersen C**, Markowski A, Luettig B, Ringe CI, Lankisch TO, Manns MP, Ure BM, Schneider AS  
The Role of Endoscopic Retrograde Cholangiopancreatography in the Diagnosis of Biliary Atresia: 14 Years' Experience  
Eur J Pediatr Surg 2017; DOI: 10.1055/s-0037-1602260

**Petersen C**  
Biliary atresia – unity in diversity  
Int J Pediatr Surg 2017; 33:1255-1261

**Petersen C**, Madadi- Sanjani O  
Role of Viruses in Biliary Atresia: News from Mice and Men  
Innovative Surgical Sciences 2018

Oetzmann von Sochaczewski C, Pintelon I, Brouns I, Thys S, Deigendesch N, Timmermans JP, Kübler J, **Petersen C**  
Experimentally induced biliary atresia by means of rotavirus-infection is directly linked to severe damage of the microvasculature in the extrahepatic bile duct.  
Anat Rec 2018

Madadi-Sanjani O, Kuebler JF, Dippel S, Gigina A, Falk CS, Vieten G, **Petersen C**, Klemann C  
Long-term outcome and necessity of liver transplantation in infants with biliary atresia are independent of cytokine milieu in native liver and serum  
Cytokine 2018

Junge N, Dingemann J, Petersen C, Manns MP, Richter N, Klempnauer J, Baumann U, Schneider A  
Gallengangatresie und angeborene Cholestasesyndrome; Besonderheiten vor, nach und während der Transition.  
Der Internist 2018

Madadi-Sanjani O, **Petersen C**  
Perioperative developments in Biliary Atresia Treatment  
Current Pathobiology Reports 2018

Andruszkow J, Hartleben B, Kreipe H H, Ritz T, Knüchel R, Hasan A, **Petersen C**, Madadi-Sanjani O  
Beurteilung der Leberfibrose in der Gallengangatresie. Vergleich von Chevallier und Ishak Score sowie automatisierter Auswertung  
Der Pathologe 2018

## **Biliary atresia and related diseases - BARD**

Melter M, Rodeck B, Kardorff R, Hoyer P, **Petersen C**, Ballauff A, Brodehl J

Progressive familial intrahepatic cholestasis: partial biliary diversion normalizes serum lipids and improves growth in non-cirrhotic patients  
Am J Gastroenterol 95 (2000): 3522 - 3528

Metzelder ML, **Petersen C**, Melter M, Ure BM

Modified laparoscopic external biliary diversion for benign recurrent intrahepatic cholestasis in obese adolescents.  
Pediatr Surg Int 22 (2006): 551-3

Turowski C, Feist H, Alzen G, Glüer S, **Petersen C**

Conversion of a Neonatal Hepatic Hemangioma to Focal Nodular Hyperplasia  
Pathol Int 59 (2009):251-4.

**Petersen, C**, Ure, BM

Liver and choledochal cysts in newborns  
Padiatrische Praxis 74 (2010): 619-625

Schukfeh N, Metzelder M L, **Petersen C**, Pfister ED, Ure BM, Kuebler JF

Normalization of serum bile acids after partial external biliary diversion indicates excellent long term outcome in children with progressive familial intrahepatic cholestasis (PFIC)  
J Pediatr Surg 47 (2012):501-505

Dingemann C, Baumann U, **Petersen C**, Ure BM

Ileal Exclusion for Intractable Pruritus in Alagille Syndrome  
Eur J Pediatr Surg 22 (2012): 251-253

**Petersen C**, Madadi-Sanjani O

Registries for Biliary Atresia and Related Disorders  
Eur J Surg Pediatr 2015; DOI: 10.1055/s-0035-1563678

Negm A, **Petersen C**, Schneider A

Rendezvous procedure at 6 weeks of age.  
Gastrointestinal Endoscopy 2016; 83:670-672

Madadi-Sanjani O, Wirth T, C, **Petersen C**, Kuebler JF, Ure BM

Choledochal cyst and malignancy: a plea for a lifelong follow-up  
E Eur J Pediatr Surg. 2017 Dec 19. doi: 10.1055/s-0037-1615275.

Madadi-Sanjani O, **Petersen C**, Ure B.

Minimally Invasive Hepatobiliary Surgery.  
Clin Perinatol. 2017 Dec;44(4):805-818

## **Pectus excavatum and other deformities of the thorax**

**Petersen C**, Fuchs J, Glüer S, Ure BM

Ändert das minimalinvasive Verfahren die Indikation zur Korrektur der Trichterbrust?  
Monatsschr Kinderheilkunde 150 (2002): 1214 - 1217

Hosie S, Sitkiewicz T, **Petersen C**, Göbel P, Schaarschmidt K, Till H, Noatnick,  
Winiker H, Hagl C, Schmedding A, Waag KL

Minimally invasive repair of pectus excavatum – the Nuss Procedure. A European  
multicenter experience  
Eur J Pediatr Surg 12 (2002): 235 - 238

**Petersen C**

Funnel chest. New aspects since introduction of a minimally invasive surgical  
technique (Review)  
Orthopade 32 (2003):916-9

Leonhardt J, Kübler JF, Feiter J, Ure BM, **Petersen C**

Complications of the minimally invasive repair of pectus excavatum.  
J Pediatr Surg 40 (2005): e7-9.

**Petersen C**, Ure BM

Trichterbrust: Was hat sich mit Einführung der MIRPE verändert? (Review)  
Pädiatrie hautnah 18 (2006); 23-26

**Petersen C**, Leonhardt J, Duderstadt M, Karck M, Ure BM

Minimally invasive repair of pectus excavatum - shifting the paradigm?  
Eur J Pediatr Surg 16 (2006):75-8

Metzelder ML, Kuebler JF, Leonhardt J, Ure BM, **Petersen C**

Self and parental assessment after minimally invasive repair of pectus excavatum:  
lasting satisfaction after bar removal.  
Ann Thorac Surg 83 (2007): 1844-9.

Metzelder ML, Ure BM, Leonhardt J, Grigull L, Khelif K, **Petersen C**

Impact of concomitant thoracic interventions on feasibility of Nuss procedure.  
J Pediatr Surg 42 (2008):1853-9.

Hennig M, Kuebler JF, **Petersen C**, Metzelder ML.

General practitioners assessment highlights excellent patient satisfaction following bar  
removal after Nuss procedure in children and adolescents  
Eur J Pediatr Surg 22 (2012):222-7

Wessel LM, **Petersen C**

Rekonstruktive Chirurgie der Thoraxwand – Was gibt es Neues  
Monatsschrift Kinderheilkunde 2013; 161: 108-115

Krüger M, Zinne N, Zhang R, Schneider JP, Heckmann A, Haverich A, **Petersen C**  
Multidirectional Thoracic Wall Stabilization – a New Device on the Scene  
Thoracic Wall Stabilization – New Device  
Ann Thorac Surg 128 (2013): 1172-8

Fortmann C, **Petersen C**  
Therapieoptionen bei Rippenfrakturen und Thoraxwanddefekten  
Chirurgische Praxis 2018; 84: 1-9

Fortmann C, Göen T, Krüger M, Ure BM, **Petersen C**, Kübler JF  
Trace metal release after minimally-invasive repair of pectus excavatum  
PLoS One. 2017 Oct 12;12(10):e0186323.

Fortmann C, **Petersen C**  
Surgery for Deformities of the Thoracic Wall: No More than Strengthening the  
Patients' Self Esteem?  
European Journal of Pediatric Surgery 2018