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CURRICULUM VITAE

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GENERAL

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UNDERGRADUATE AND MEDICAL SCHOOL

Ankara University School of Medicine 1968-1974
Ankara, Turkey

POSTGRADUATE TRAINING

Resident, Anatomic Pathology 1974-1978
Hacettepe Medical Center
Ankara, Turkey

Rotating Intern, 1978-1979
Emory University,
Atlanta, Georgia

Resident Anatomic Pathology 1979-1981
New York University Medical Center,
New York, New York

Resident 1981-1983
General Pediatrics
Dartmouth Medical School
Department of Maternal and Child Health
Hanover, New Hampshire

Fellow Neonatal-Perinatal Medicine 1983-1985
Dartmouth Medical School
Department of Maternal and Child Health
Hanover, New Hampshire

Fellow 1990-1992
Program in Developmental Pathology
Brown Medical School
Women and Infants Hospital
Providence, Rhode Island

POSTGRADUATE AWARDS

Special Recognition Meritorious Teaching Award 1997, 1998

Residency Programs of Obstetrics and Gynecology and Pediatrics 1999
Women and Infants Hospital
Brown Medical School

Dean's Teaching Excellence Award 2001, 2002
Bio 280
Brown Medical School

Dean's Teaching Excellence Award 2003, 2005
Bio 282
Brown Medical School

Medical Staff Association 2004
Distinguished Service Award

Dean's Teaching Excellence Award 2015, 2017

Path 6140 and Path 6120

MILITARY SERVICE

1 st Lieutenant, Turkish Naval Forces Section Chief Division of Neonatology Department of Pediatrics Gülhane Military Academic Medical Center Ankara, Turkey	1985-1987
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BOARD CERTIFICATIONS

ECFMG (225-105-6)	1975
FLEX	1980
General Pediatrics	1985
Neonatal and Perinatal Medicine, Board Eligible	1985
Anatomic Pathology	1992
Pediatric and Developmental Pathology	2004

PROFESSIONAL LICENSES

Maryland (inactive)	1980
Rhode Island (MD8222)	1992-Present

ACADEMIC APPOINTMENTS

Instructor Dartmouth Medical School Department of Maternal and Child Health Hanover, New Hampshire	1983-1985
Instructor Brown Medical School Department of Pathology and Laboratory Medicine	1990-1992

Providence, Rhode Island

Assistant Professor 1993-2001
Brown Medical School
Departments of Pathology and Laboratory Medicine and Pediatrics
Providence, Rhode Island

Adjunct Professor of Clinical Laboratory Science Department of 1994-2001
Biochemistry, Microbiology and Molecular Genetics
University of Rhode Island
South Kingstown, Rhode Island

Associate Professor 2001-2005
Brown Medical School
Departments of Pathology and Laboratory Medicine and Pediatrics
Providence, Rhode Island

Professor 2005-Present
Brown Medical School
Department of Pathology and Laboratory Medicine Providence, Rhode
Island

HOSPITAL APPOINTMENTS

1987-1990
Director Department of Pediatrics and Neonatal Medicine International
Hospital,
Istanbul, Turkey

1987-1990
Consultant Perinatal/Neonatal Medicine Admiral Bristol General
Hospital Istanbul, Turkey

1992-1997
Director
Molecular Pathology Laboratory Department of Pathology and
Laboratory Medicine
Women and Infants Hospital
Providence, Rhode Island

Perinatal and Pediatric Pathologist, Lifespan Academic Medical Center, Rhode Island Hospital/Hasbro Children's Hospital Providence, Rhode Island	1997-2003
Consultant Perinatal and Pediatric Pathology Department of Pathology and Laboratory Medicine Rhode Island Hospital Providence, Rhode Island	1992-2003
Staff Perinatal and Pediatric Pathologist Division of Perinatal and Pediatric Pathology Department of Pathology and Laboratory Medicine Women and Infants Hospital Providence, Rhode Island	1992-1997
Director Division of Perinatal and Pediatric Pathology Department of Pathology and Laboratory Medicine Women and Infants Hospital Providence, Rhode Island	1997-Present

OTHER APPOINTMENTS

Director Section of Laboratory Medicine Harvard Pilgrim Health Care of New England Warwick Center	1992-1999
Editor-in-Chief Society for Pediatric Pathology Web Site	2000-2005
Member Section of Perinatal Pathology National Children's Study (NCS)	2003-Present

Advisor Section of Perinatal Pathology Prenatal Alcohol in SIDS and Stillbirth (PASS)	2004-2008
Advisor Perinatal Pathology Surgeon General of United States	2005-2007
Advisor Institute of Public Health Division of Maternal and Child Health Norwegian Maternal Prospective Cohort Study (MoBa) Oslo, Norway	2006-2008
Member Division of Pediatric Pathology American Board of Pathology	2004-2012
Editorial Board Member Perspectives of Pediatric Pathology	2001-Present

WOMEN AND INFANTS HOSPITAL COMMITTEES

Radiation and Drugs Committee	1993-1997
Perinatal Mortality Review Committee	1992-Present
Graduate Medical Education Committee	1997-2007
High Risk OB/Newborn Service Line Committee	1998-2016
Institutional Review Board (IRB) Member	1995-2004
Institutional Review Board (IRB) Chair	1999-2005
Executive Committee - Medical Staff Member	2006-2012

WIH Library Committee	2012-Present
WIH IT Executive Council	2012-Present
Institutional Conflict of Interest Committee	2012-Present

BROWN MEDICAL SCHOOL COMMITTEES

Medical Abilities Assessment Committee	1999-2004
Medical Committee on Academic Standing (MCAS)	1998-2016
Ad Hoc Committee on Conflict of Interest Policies	2000
Computer Advisory Board	2003-2007
Promotions Committee Department of Pathology and Laboratory Medicine Brown Medical School	2005-2017

OTHER MEMBERSHIPS

Founding member of Turkish Neonatal-Perinatal Society	1985-Present
American Association for the Advancement of Science	1991-Present
College of American Pathologists	1991-Present
American Medical Association	1991-Present
American Society of Clinical Pathologists	1992-Present
American Academy of Pediatrics, Fellow	1993-Present
American Academy of Pediatrics Section of Perinatal Medicine	1993-Present
National Perinatal Association	1994-Present
American Society of Investigative Pathology	1997-Present
Society for Pediatric Pathology.	1992-Present
Please see below.	

SOCIETY FOR PEDIATRIC PATHOLOGY

Member	1990-Present
Education Committee, Member	1996-2000
Abstract Subcommittee, Chair	1998-2000
Awards Committee, Member	2000-2005
Secretary-Treasurer	2003-2005
Publication Committee, Member	2008-2012

SESSION CHAIR

	1998
SPP Annual Meeting, Boston	
SPP Annual Meeting, San Francisco	1999
SPP Fall Meeting, Providence	1999
SPP Annual Meeting, New Orleans	2000
SPP Fall Meeting, Louisville	2008
SPP Annual Meeting, Boston	2009

RHODE ISLAND SOCIETY FOR PATHOLOGISTS (RISP)

Member	1990-Present
Treasurer/Secretary	1996-1997
President	1997-1998

PUBLICATIONS

1. **Pinar H**, Pinar E. Septic shock: A review of literature. *Lepra Mec.* 1973; 4:210-20.
2. **Pinar H**, Flotte T. Papillary elastofibroma of the left ventricular septum. *Am J Surg Pathol* 1980; 4:585-8.
3. **Pinar H**, Rogers BB. Renal dysplasia, situs inversus totalis and multisystem fibrosis: A new syndrome. *Pediatr Pathol* 1991; 12:215-21.
4. **Pinar H**, Thompson NL, Flanders KC, Sporn MB, Sung J, Rogers BB. Distribution of transforming factor β in a two-week-old embryo. *Growth Factors* 1992; 6:203-8.

5. Deftos LJ, Burton DW, Brandt DW, **Pinar H**, Rubin LP. Neoplastic hormone producing cells of the placenta produce and secrete parathyroid hormone related protein. Studies by immunohistochemistry, immunoassay and polymerase chain reaction. *Lab Invest* 1994; 71:847-52.
6. **Pinar H**, Makarova N, Rubin LP, Singer DB. Pathology of the lung in surfactant treated neonates. *Pediatr Pathol* 1994; 14:627-36.
7. **Pinar H**, Abuelo D, Carpenter M, Singer DB. Fryns syndrome: A new definition. *Pediatr Pathol* 1994;467-78.
8. **Pinar H**, Thompson NL, Flanders KC, Rogers BB. Distribution of TGF- β 1 precursor, TGF- β 1 and TGF- β 2 in human embryogenesis. *CellVision* 1994; 1:200-7.
9. Koduri PR, Patel AR, **Pinar H**. Acute hepatic sequestration caused by parvovirus B19 infection in a patient with sickle cell anemia. *Am J Hematol* 1994; 47:250-1.
10. Sung CJ, Singer DB, Oyer CE, **Pinar H**. Fetal weights and measurements. *Arch Pathol Lab Med* 1995;993-4.
11. **Pinar H**, Sung CJ, Oyer CE, Singer DB. Reference values for singleton and twin placental weights. *Pediatr Pathol Lab Med* 1996; 16:901-7.
12. Paparella A, DeLuca FG, Oyer CE, **Pinar H**, Stonestreet BS. Ischemia reperfusion injury in the intestines of newborn pigs. *Pediatr Res* 1997; 42:180-8.
13. **Pinar H**, Tatevosyants N, Singer DB. Central nervous system malformations in a perinatal/neonatal autopsy series. *Pediatr Dev Pathol* 1998;142-8.
14. **Pinar H**, Sotomayor E, Singer DB. Turquoise discoloration of the umbilical cord and membranes after intra-amniotic injection of indigo-carmin dye. *Arch Pediatr Adolesc Med* 1998; 152:199-200.
15. Yashima K, Maitra A, Timmons CF, Rogers BB, **Pinar H**, Gazdar AF. Expression of the RNA component of telomerase in Wilms tumor and nephrogenic rest recapitulates renal embryogenesis. *Hum Pathol.* 1998; 29:536-42.
16. Yashima K, Maitra A, Timmons CF, Rogers BB, **Pinar H**, Milchgrub S, Shay JW, Gazdar AF. Expression of the RNA component of human telomerase during development and differentiation. *Cell Growth Differ* 1998; 9:805-13.
17. Singer DB, Neave C, Oyer CE, **Pinar H**. Hepatic subcapsular hematomas in fetuses and neonatal infants. *Pediatr Dev Pathol* 1999; 2:215-20.
18. Dexter SC, Malee MP, **Pinar H**, et al. Influence of chorioamnionitis on

- developmental outcome in very low birth weight infants. *Obstet Gynecol.* 1999; 94:267-73.
19. **Pinar H**, Pinar T, Singer DB. Beta-cell hyperplasia in macrosomic infants and fetuses of nondiabetic mothers. *Pediatr Dev Pathol* 2000; 3:42-8.
 20. Dexter SC, **Pinar H**, Malee MP, et al. Outcome of very low birth weight infants with histopathologic chorioamnionitis. *Obstet Gynecol* 2000; 96:172-7.
 21. Phornphutkul C, Okubo T, Harel Z, Tracy FT, **Pinar H**, et al. Aromatase p450 expression in a feminizing adrenal adenoma presenting as isosexual precocious puberty. *J Clin Endocrinol Metab.* 2001;86(2):649-52.
 22. Plevyak M, Hanna N, Mayer S, Murphy S, **Pinar H**, Fast L, et al. Deficiency of decidual IL-10 in first trimester missed abortion: a lack of correlation with the decidual immune cell profile. *Am J Reprod Immunol* 2002; 47:242-50.
 23. DePaepe ME, Burke S, Luks FI, **Pinar H**, Singer DB. Demonstration of placental vascular anatomy in monochorionic twin gestations. *Pediatr Dev Pathol* 2002; 5:37-44.
 24. Petersson KH, **Pinar H**, Stopa EG, Farris RA, Sadowska GB, Hanumara RC, Stonestreet BS. White matter injury after cerebral ischemia in ovine fetuses. *Pediatr Res* 2002; 51:768-76.
 25. **Pinar H**, Burke SH, Huang CW, Singer DB, Sung CJ. Reference values for transverse cerebellar diameter throughout gestation. *Pediatr Dev Pathol* 2002; 5:489-94.
 26. **Pinar H**, Stephens M, Singer DB, Boyd TK, Pflüger SM, Gang DL, Roberts DJ, Sung CJ. Triplet placentas: reference values for weights. *Pediatr Dev Pathol* 2002; 5:495-98.
 27. McCormack WM Jr, Shen JJ, Curry SM, Berend SA, Kashork C, **Pinar H**, Potocki L, Bejjani BA. Partial deletions of the long arm of chromosome 13 associated with holoprosencephaly and Dandy-Walker malformation. *Am J Med Genet* 2002; 112:384-9.
 28. Hansen K, Sung CJ, Huang C, **Pinar H**, Singer DB, Oyer CE. Reference values for second trimester fetal and neonatal organ weights and measurement. *Pediatr Dev Pathol.* 2003; 6:160-7.
 29. Baek YW, Brokat S, Padbury JF, **Pinar H**, et al. Inter-alpha inhibitor proteins in infants and decreased levels in neonatal sepsis. *J Pediatr* 2003; 143:1-15.

30. Elitt CM, Sadowska GB, Stopa EG, **Pinar H**, Petersson KH, Stonestreet BS. Effects of antenatal steroids on ischemic brain injury in near term ovine fetuses. *Early Hum Dev* 2003; 73:1-15.
31. De Paepe ME, Friedman RM, Gündoğan F, **Pinar H**, Oyer CE. The histologic fetoplacental inflammatory response in fatal perinatal group B-streptococcus infection. *J Perinatol*. 2004;24(7):441-5.
32. Wharton KN, **Pinar H**, Stonestreet BS, Tucker R, McLean KR, Wallach M, Vohr BR. Severe umbilical cord inflammation-a predictor of periventricular leukomalacia in very low birth weight infants. *Early Hum Dev*. 2004 Apr;77(1-2):77-87.
33. **Pinar H**. Bone Dysplasias: An Atlas of Genetic Disorders of Skeletal Development, Second Edition. *Pediatr Dev Pathol* 2003; 6:601.
34. **Pinar H**. Postmortem findings in term neonates. *Semin Neonatol*. 2004; 4:289-302.
35. Petersson KH, **Pinar H**, Stopa EG, Sadowska GB, Hanumara RC, Stonestreet BS. Effects of exogenous glucose on brain ischemia in ovine fetuses. *Pediatr Res*. 2004;56(4):621-9.
36. Lambert-Messerlian GM, **Pinar H**, Laprade E, Tantravahi U, Schneyer A, Canick JA. Inhibins and activins in human fetal abnormalities. *Mol Cell Endocrinol*. 2004;225(1-2):101-8.
37. Oyer CE, Sung CJ, Friedman R, Hansen K, De Paepe ME, **Pinar H** and Singer DB. Reference values for valve circumferences and ventricular wall thicknesses of fetal and neonatal hearts. *Pediatr and Dev Pathol*. 2004; 7:499–505.
38. De Paepe ME, Friedman RM, Gündoğan F, **Pinar H**. Postmortem Lung Weight/Body Weight Standards for Term and Preterm Infants. *Pediatr Pulmonol*. 2005;40(5):445-8.
39. Lambert-Messerlian G, **Pinar H**, Rubin LP, DePaepe ME, Tantravahi U, Steinhoff MM, Russell M, Canick JA. Second-trimester maternal serum markers in twin pregnancy with complete mole: report of 2 cases. *Pediatr Dev Pathol*. 2005;8(2):230-4.
40. Kostadinov S, **Pinar H**. Amniotic fluid infection syndrome and neonatal mortality caused by *Eikenella Corrodens*. *Pediatr Dev Pathol*. 2005;8(4):489-92.
41. Chan C, Moore BE, Cotman CW, Okano H, Tavares R, Hovanesian V, **Pinar H**, Johansson CE, Svendsen CN, Stopa EG. Musashi 1 antigen expression in human fetal germinal matrix development. *Exp Neurol*. 2006;201(2):515-8.

42. US Department of Health and Human Services. "The health consequences of involuntary exposure to tobacco smoke: a report of the Surgeon General." Atlanta, GA: US Department of Health and Human Services, Centers for Disease Control and Prevention, Coordinating Center for Health Promotion, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health 709 (2006) (Contributor).
43. Gündoğan F, Elwood G, Greco D, Rubin LP, **Pinar H**, Carlson RI, Wands JR, de la Monte SM. Role of aspartyl- (asparaginy) beta-hydroxylase in placental implantation: relevance to early pregnancy loss. *Hum Pathol.* 2007;38(1):50-9.
44. Lambert-Messerlian G, Eklund E, **Pinar H**, Tantravahi U, Schneyer A. Activin subunit and receptor expression in normal and cleft human fetal palate tissues. *Pediatr Dev Pathol.* 2007;10(6):436-45.
45. Silver RM, Varner MW, Reddy U, Goldenberg R, **Pinar H**, Conway D, Bukowski R, Carpenter M, Hogue C, Willinger M, Dudley D, Saade G, Stoll B. Work-up of stillbirth: a review of the evidence. *Am J Obstet Gynecol.* 2007;196(5):433-44.
46. Frøen JF, **Pinar H**, Norwitz ER. Genetic epidemiologic studies of preterm birth: studies of disease or of "rescue by birth"? *Am J Obstet Gynecol.* 2007;197(4):438-9.
47. Torabi R, Charnova S, Abellar RG, **Pinar H**, DePaepe ME. Intrauterine infection with *Klebsiella pneumoniae*: report of a case and literature review. *Pediatr Dev Pathol.* 2008;11(2):152-5.
48. **Pinar H**, Carpenter M, Martin BJ and Tantravahi U. Utility of Fetal Karyotype in the Evaluation of Phenotypically Abnormal Stillbirths *Pediatr Dev Pathol.* 2009;12: 217–221.
49. **Pinar H**, Basu S, Hotmire K, Laffineuse L, Presley L, Carpenter M, Catalano PM, Hauguel-de Mouzon S. High molecular mass multimer complexes and vascular expression contribute to high adiponectin in the fetus. *J Clin Endocrinol Metab.* 2008;93(7):2885-90.
50. Frøen JF, **Pinar H**, Flenady V, Bahrin S, Charles A, Chauke L, Day K, Duke Facchinetti F, Fretts RC, Gardener G, Gilshenan K, Gordijn SJ, Gordon A Guyon G, Harrison C, Koshy R, Pattinson RC, Petersson K, Russell L, Saastad E, Smith GC, Torabi R. Causes of death and associated conditions (CODAC): a utilitarian approach to the classification of perinatal deaths. *BMC Pregnancy Childbirth.* 2009 Jun 10; 9:22.
51. Flenady V, Frøen JF, **Pinar H**, Torabi R, Saastad E, Guyon G, Russell L, Charles

- A, Harrison C, Chauke L, Pattinson R, Koshy R, Bahrin S, Gardener G, Day K, Petersson K, Gordon A, Gilshenan K. An evaluation of classification systems for stillbirth. *BMC Pregnancy Childbirth*. 2009 Jun 19;9:24.
52. Reddy U, Silver R, Smith GC, Pauli RM, Wapner RJ, Gardosi J, **Pinar H**, Grafe M, Kupferminc M, Hulthen Varli I, Erwich JJ, Fretts RC, Willinger M. Stillbirth classification-developing an international consensus for research: executive summary of a National Institute of Child Health and Human Development workshop. *Obstet Gynecol*. 2009 Oct;114(4):901-14. Erratum in: *Obstet Gynecol*. 2010 Jan;115(1):191.
 53. **Pinar H**, Iyigün M. A comparison of stillborn birth weights and postmortem weights. *Pediatr Dev Pathol*. 2010 Nov-Dec;13(6):442-6.
 54. Dudley DJ, Goldenberg R, Conway D, Silver RM, Saade GR, Varner MW, **Pinar H**, Coustan D, Bukowski R, Stoll B, Koch MA, Parker CB, Reddy UM; Stillbirth Research Collaborative Network. A new system for determining the causes of stillbirth. *Obstet Gynecol*. 2010 Aug;116(2 Pt 1):254-60.
 55. **Pinar H**, Carpenter M. Placenta and umbilical cord abnormalities seen with stillbirth. *Clin Obstet Gynecol*. 2010 Sep;53(3):656-72. Review.
 56. He M, Hong T, Lauro P, **Pinar H**. Identification of Bacteria in Paraffin Embedded Tissues Using 16S rDNA Sequencing: a Case Report and Review of the Literature. *Pediatr Dev Pathol*. *Pediatr Dev Pathol*. 2011 Mar- Apr;14(2):149-52.
 57. Conway D, Silver RM, Saade GR, Thorsten V, Parker CB, Reddy UM, Conway D, Coustan D, Dudley DJ, Bukowski R, Rowland Hogue CJ, **Pinar H**, Varner MW, Goldenberg R, Willinger M. Stillbirth Collaborative Research Network. Estimating Gestational age at stillbirth using clinical and pathologic data: the stillbirth collaborative research network algorithm. *American Journal of Obstetrics & Gynecology*, 2011;Vol. 204, Issue 1, S56
 58. **Pinar H**, Koch MA, Hawkins H, Heim-Hall J, Shehata B, Thorsten VR, Carpenter M, Lowichik A, Reddy UM. The Stillbirth Collaborative Research Network (SCRN) Placental and Umbilical Cord Examination Protocol. *Am J Perinatol*. 2011 Dec;28(10):781-92.
 59. **Pinar H**, Koch MA, Hawkins H, Heim-Hall J, Shehata B, Thorsten VR, Chin S, Willinger M, De la Monte S. The Stillbirth Collaborative Research Network Neuropathologic Examination Protocol. *Am J Perinatol*. 2011 Dec;28(10):793-802.
 60. Parker CB, Hogue CJR, Koch MA, Willinger M, Reddy U, Thorsten V, Dudley D,

- Silver RM, Coustan D, Saade GR, Conway D, Varner MW, Stoll B, **Pinar H**, Bukowski R, Carpenter M, Goldenberg R for the Stillbirth Collaborative Research Network: Design, Methods and Recruitment Experience. *Paediatric and Perinatal Epidemiology* 2011; 25: 425–435.
61. **Pinar H**. Listeriosis. [Review] *Pathology Case Reviews*. 16(5):189-194, September/October 2011.
 62. **Pinar H**. Hydranencephaly. [Review] *Pathology Case Reviews* 16(5):195-201, September/October 2011
 63. **Stillbirth Collaborative Research Network Writing Group**. Association between stillbirth and risk factors known at pregnancy confirmation. *JAMA*. 2011 Dec 14;306(22):2469-79.
 64. **Stillbirth Collaborative Research Network Writing Group**. Causes of death among stillbirths. *JAMA*. 2011 Dec 14;306(22):2459-68
 65. **Pinar H**, Koch MA, Hawkins H, Heim-Hall J, Abramowsky CR, Thorsten VR, Carpenter MW, Zhou HH, Reddy UM. The stillbirth collaborative research network postmortem examination protocol. *Am J Perinatol*. 2012 Mar;29(3):187-202.
 66. Reddy UM, Page GP, Saade GR, Silver RM, Thorsten VR, Parker CB, **Pinar H**, Willinger M, Stoll BJ, Heim-Hall J, Varner MW, Goldenberg RL, Bukowski R, Wapner RJ, Drews-Botsch CD, O'Brien BM, Dudley DJ, Levy B; NICHD Stillbirth Collaborative Research Network. Karyotype versus microarray testing for genetic abnormalities after stillbirth. *N Engl J Med*. 2012 Dec 6;367(23):2185-93.
 67. Crespo F, **Pinar H**, Kostadinov S. Case Report: Cases of limb-body wall complex: early amnion rupture, vascular disruption, or abnormal splitting of the embryo? *J Pediatr Genet* 2013;1(4).
 68. Hogue CJR, Parker CB, Koch MA, Willinger M, Reddy U, Thorsten V, Dudley D, Silver RM, Coustan D, Saade GR, Conway D, Varner MW, Stoll B, **Pinar H**, Bukowski R, Carpenter M, Goldenberg R for the Stillbirth Collaborative Research Network: A Population-based Case-Control Study of Stillbirth: The Relationship of Significant Life Events to the Racial Disparity for African Americans. *Am J Epidemiol*. 2013;177 (8): 755-76
 69. Silver RM, Parker CB, **Pinar H**, Koch MA, Willinger M, Reddy U, Thorsten V, Dudley D, Coustan D, Saade GR, Conway D, Varner MW, Stoll B, Bukowski R, Carpenter M, Goldenberg R for the Stillbirth Collaborative Research Network: Bile Acid Metabolism and Stillbirth. *Am J Obstet Gynecol*. 2013 Nov 8. pii: S0002-

9378(13)02016-4.

70. He M, Kostadinov S, Gündoğan F, Struminsky J, **Pinar H**, Sung CJ. Pregnancy and Perinatal Outcomes Associated with *Acinetobacter baumannii* Infection. *AJP Rep.* 2013 May;3(1):51-6.
71. Silver RM, Parker CB, Reddy UM, Goldenberg R, Coustan D, Dudley DJ, Saade GR, Stoll B, Koch MA, Conway D, Bukowski R, Hogue CJ, **Pinar H**, Moore J, Willinger M, Branch DW. Antiphospholipid antibodies in stillbirth. *Obstet Gynecol.* 2013 Sep;122(3):641-57.
72. **Pinar H**, Palomaki GE, Haddow HR, Rowles A, Torabi R. Comparison of Radiographic Femur Measurements in Stillbirths and Neonatal Deaths to Ultrasound Measurements in Ongoing Pregnancies. *Pediatr Dev Pathol.* 2014 Feb 27. [Epub ahead of print] PubMed PMID: 24575801.
73. Varner MW, Silver RM, Rowland Hogue CJ, Willinger M, Parker CB, Thorsten VR, Goldenberg RL, Saade GR, Dudley DJ, Coustan D, Stoll B, Bukowski R, Koch MA, Conway D, **Pinar H**, Reddy UM; Eunice Kennedy Shriver National Institute of Child Health and Human Development Stillbirth Collaborative Research Network. Association between stillbirth and illicit drug use and smoking during pregnancy. *Obstet Gynecol.* 2014 Jan;123(1):113-25.
74. **Pinar H**, Goldenberg RL, Koch MA, Heim-Hall J, Hawkins HK, Shehata B, Abramowsky C, Parker CB, Dudley DJ, Silver RM, Stoll B, Carpenter M, Saade G, Moore J, Conway D, Varner MW, Hogue CJ, Coustan DR, Sbrana E, Thorsten V, Willinger M, Reddy UM. Placental findings in singleton stillbirths. *Obstet Gynecol.* 2014 Feb;123(2 Pt 1):325-36.
75. Bukowski R, Hansen NI, Willinger M, Reddy UM, Parker CB, **Pinar H**, Silver RM, Dudley DJ, Stoll BJ, Saade GR, Koch MA, Rowland Hogue CJ, Varner MW, Conway DL, Coustan D, Goldenberg RL; Eunice Kennedy Shriver National Institute of Child Health and Human Development Stillbirth Collaborative Research Network. Fetal growth and risk of stillbirth: a population-based case-control study. *PLoS Med.* 2014 Apr 22;11(4):e1001633.
76. He M, Pepperell JR, Gundogan F, De Paepe ME, Maggio L, Lu S, Kostadinov S, O'Brien B, DeLaMonte S, **Pinar H**, Tantravahi U. Monochorionic twins discordant for mosaic trisomy 14. *Am J Med Genet A.* 2014 May;164A(5):1227-33.
77. Silver RM, Parker CB, Goldenberg R, Reddy UM, Dudley DJ, Saade GR, Hogue CJ, Coustan D, Varner MW, Koch MA, Conway D, Bukowski R, **Pinar H**, Stoll B, Moore J, Willinger M. Bile acids in a multicenter, population-based case-control

- study of stillbirth. *Am J Obstet Gynecol*. 2014 May;210(5):460.e1-9.
78. Starikov R, Inman K, Chen K, Lopes V, Coviello E, **Pinar H**, He M. Comparison of placental findings in type 1 and type 2 diabetic pregnancies. *Placenta*. 2014 Dec;35(12):1001-6.
 79. **Pinar H**, Goldenberg RL. Ebolavirus Hemorrhagic Fever (EHF) and the Obstetric Patient. *Pediatr Dev Pathol*. 2014 Dec 1. [Epub ahead of print]
 80. Barbaux S, Erwich JJ, Favaron PO, Gil S, Gallot D, Golos TG, Gonzalez-Bulnes A, Guibourdenche J, Hazell AE, Jansson T, Laprévotte O, Lewis RM, Miller RK, Monk D, Novakovic B, Oudejans C, Parast M, Peugnet P, Pfarrer C, **Pinar H**, Roberts CT, Robinson W, Saffery R, Salomon C, Sexton A, Staff AC, Suter M, Tarrade A, Wallace J, Vaillancourt C, Vaiman D, Worton SA, Lash GE. IFPA meeting 2014 workshop report: Animal models to study pregnancy pathologies; new approaches to study human placental exposure to xenobiotics; biomarkers of pregnancy pathologies; placental genetics and epigenetics; the placenta and stillbirth and fetal growth restriction. *Placenta*. 2015 Apr;36 Suppl 1:S5-10.
 81. **Pinar H**. A practical method to diagnose accreta from placental examination. *BJOG*. 2016 Dec;123(13):2146.
 82. Silver RM, Saade GR, Thorsten V, Parker CB, Reddy UM, Drews-Botsch C, Conway D, Coustan D, Dudley DJ, Bukowski R, Rowland Hogue CJ, **Pinar H**, Varner MW, Goldenberg R, Willinger M. Factor V Leiden, prothrombin G20210A, and methylene tetrahydrofolate reductase mutations and stillbirth: The Stillbirth Collaborative Research Network. *Am J Obstet Gynecol*. 2016 Oct;215(4): 468.e1-468.e17.
 83. Gibbins KJ, Silver RM, **Pinar H**, Reddy UM, Parker CB, Thorsten V, Willinger M, Dudley DJ, Bukowski R, Saade GR, Koch MA, Conway D, Hogue CJ, Stoll BJ, Goldenberg RL. Stillbirth, hypertensive disorders of pregnancy, and placental pathology. *Placenta*. 2016 Jul;43:61-8.
 84. He M, Migliori AR, Lauro P, Sung CJ, **Pinar H**. Perinatal Mortality Associated with Positive Postmortem Cultures for Common Oral Flora. *Infect Dis Obstet Gynecol*. 2017; 2017:9027918.
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89. Karen J. Gibbins Silver RM, Saade GR, Thorsten V, Parker CB, Reddy UM, Botsch CD, Conway D, Coustan D, Dudley DJ, Bukowski R, Rowland Hogue CJ, **Pinar H**, Varner MW, Goldenberg R, Willinger M. Stillbirth Collaborative Research Network of the Eunice Kennedy Shriver NICHD, Bethesda, MD, Findings in Stillbirths due to Placental Insufficiency, 37th Annual Scientific Meeting of the Society for Maternal and Fetal Medicine, Las Vegas, NV, January 23-28, 2017.
90. Karen J. Gibbins Silver RM, Saade GR, Thorsten V, Parker CB, Reddy UM, Botsch CD, Conway D, Coustan D, Dudley DJ, Bukowski R, Rowland Hogue CJ, **Pinar H**, Varner MW, Goldenberg R, Willinger M. Stillbirth Collaborative Research Network of the Eunice Kennedy Shriver NICHD, Bethesda, MD, Trauma/motor vehicle crashes and Stillbirth, 37th Annual Scientific Meeting of the Society for Maternal and Fetal Medicine, Las Vegas, NV, January 23-28, 2017.
91. Christina Herrera, Silver RM, Saade GR, Thorsten V, Parker CB, Reddy UM, Botsch CD, Conway D, Coustan D, Dudley DJ, Bukowski R, Rowland Hogue CJ, **Pinar H**, Varner MW, Goldenberg R, Willinger M. Stillbirth Collaborative Research Network of the Eunice Kennedy Shriver NICHD, Bethesda, MD, Cholestasis and placenta, 37th Annual Scientific Meeting of the Society for Maternal and Fetal Medicine, Las Vegas, NV, January 23-28, 2017.
92. Ibrahim Hammad, Silver RM, Saade GR, Thorsten V, Parker CB, Reddy UM, Botsch CD, Conway D, Coustan D, Dudley DJ, Bukowski R, Rowland Hogue CJ, **Pinar H**, Varner MW, Goldenberg R, Willinger M. Stillbirth Collaborative Research Network of the Eunice Kennedy Shriver NICHD, Bethesda, MD, Umbilical Cord and stillbirth, 37th Annual Scientific Meeting of the Society for Maternal and Fetal Medicine, Las Vegas, NV, January 23-28, 2017.

93. Torri Metz, Silver RM, Saade GR, Thorsten V, Parker CB, Reddy UM, Botsch CD, Conway D, Coustan D, Dudley DJ, Bukowski R, Rowland Hogue CJ, **Pinar H**, Varner MW, Goldenberg R, Willinger M. Stillbirth Collaborative Research Network of the Eunice Kennedy Shriver NICHD, Bethesda, MD, Maternal Marijuana Use and Adverse Perinatal Outcomes, 37th Annual Scientific Meeting of the Society for Maternal and Fetal Medicine, Las Vegas, NV, January 23-28, 2017.
94. Angley M, Hogue C, Dudley D, Silver RM, Saade GR, Thorsten V, Parker CB, Reddy UM, Conway D, Coustan D, Bukowski R, Rowland Hogue CJ, **Pinar H**, Varner MW, Goldenberg R, Willinger M. Stillbirth Collaborative Research Network of the Eunice Kennedy Shriver NICHD, Bethesda, MD. Racial/ethnic differences in health care utilization prior to a stillbirth. Platform Presentation at the American Public Health Association Annual Meeting, April 2017.
95. Karen J. Gibbins, Pinar H, Michael W. Varner, Robert M. Silver. State-wide characterization of fetal death between 16 0/7 and 19 6/7 weeks. 38th Annual Scientific Meeting of the Society for Maternal and Fetal Medicine, Dallas, TX, January 29-February 3, 2018.

INVITED LECTURES-COURSES

1. A Review of Placental Pathology. Pathology Grand Rounds. Hacettepe University, School of Medicine, Ankara, Turkey, 1996.
2. Group B Streptococcus in Neonates and Older Infants. Grand Rounds. Brockton Hospital, Brockton, Massachusetts, 1996.
3. Neonatal Lung Disease: A Vanishing Act. Pediatric Grand Rounds.
4. Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire, 1997.
5. Gestational Trophoblastic Diseases. Hacettepe University, School of Medicine, Ankara, Turkey, 1997.
6. Histology for the Histotechnologists. Clinical Laboratory Science Seminar. Sponsored by BRISMet, RIBBS, CLSS/CNE-Bay Chapter, Providence, Rhode Island, 1998.
7. Pathology of the Perinatal and Neonatal Care, Co-director, Postgraduate Course Sponsored by Society of Pediatric Pathology, 1996-1998.
8. A Review of Placental Pathology. Hacettepe University, School of Medicine,

- Ankara, Turkey, 1998.
9. Clinically Relevant Placental Lesions: a review. Hacettepe University, School of Medicine, Ankara, Turkey, 2002.
 10. Placental Pathology: An Update. Hacettepe University, School of Medicine, Ankara, Turkey, 2003.
 11. NICHD Stillbirth Research Collaborative Network (SCRN) A review. Pediatric Grand Rounds. Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire, 2004.
 12. Placental Pathology in Stillborn. Norwegian Maternal Prospective Cohort Study (MoBa), Oslo, Norway, 2005.
 13. Classification of Stillborn. Norwegian Maternal Prospective Cohort Study (MoBa), Oslo, Norway, 2006.
 14. Placental Pathology for the Obstetricians. General Grand Rounds. South County Hospital Group. Charlton Hospital, Rhode Island, 2007
 15. Concept of Causality in Stillborn. Norwegian Maternal Prospective Cohort Study (MoBa), Oslo, Norway, 2007. Placental Pathology and its Impact on Stillbirth. A Series of three lectures as part of SCRN Educational Initiative. 2006, 2007, 2008.
 16. Clinically Relevant Placental Lesions: an update. Hacettepe University, School of Medicine, Ankara, Turkey, 2010.
 17. Clinically Relevant Placental Lesions: an update. Hacettepe University, School of Medicine, Ankara, Turkey, 2011.
 18. Clinically Relevant Placental Lesions: an update. Bahçesehir University, School of Advanced Biological Sciences, Istanbul, Turkey, 2012.
 19. Clinically Relevant Placental Lesions: an update. Bahçesehir University, School of Advanced Biological Sciences, Istanbul, Turkey, 2013.
 20. Review of postmortem examination of stillborns – NICHD recommendations – IFPA Annual Meeting, Paris, 2014.
 21. Placenta and stillbirths – clinically significant lesions. IFPA Annual Meeting, Paris, 2014.
 22. Stillbirth and placentas. SPP Spring Meeting. Seattle 2016.
 23. SCRN Multicenter Study and Placental Findings. Pathology Grand Rounds invited by Department of Pathology and Laboratory Medicine, University of Vermont.

January 3, 2018.

24. Stillbirth, a review. Invited Lecture to Koç University Medical School, Istanbul, Turkey (Skype), September 2018.

NIH RELATED INVITED ACTIVITIES

1. Invited to give a lecture at the Stillbirth Research Roundtable on the topic of “The Causes and Classification of Stillbirth” sponsored by First Candle/SIDS Alliance and NICHD, 2003.
2. Invited to give a lecture on “Stillbirth and Postmortem Examination” to the steering committee of the grant HD-03-004 titled Prenatal Alcohol Exposure among High-Risk Populations: Relationship to Sudden Infant Death Syndrome, 2004.
3. Invited to attend as a consultant during three planning sessions of the National Children's Study (NCS). RFP released on November 16, 2004. As an expert in this field, invited to speak at the workshop: “Stillbirth Classification System: developing an international consensus for research”, co-sponsored by the Pregnancy and Perinatology Branch (PPB) at the National Institute of Child Health and Human Development, the Society for Maternal-Fetal Medicine, First Candle and the Office of Rare Diseases, National Institutes of Health that was held October 22-24, 2007 in Washington D.C. The topic was “placental/umbilical cord pathology” to lay the foundation to the development of a classification system (Publication – see Publications)
4. Attended the NICHD Review Board Meeting for the SCRIN network as a special expert and the official Lead Pathologist of the Network and informed the Board about the Pathology component of the SCRIN and answered critiques and questions about the methodology employed, December 2008.
5. A case control study of placental Lesions: our experience with the Stillbirth Collaborative Research Network. Hacettepe University, School of Medicine, Ankara, Turkey, 2010.
6. Various lectures on the topic of placenta in the extramural branch of NICHD, Detroit, USA, 2014

GRANTS

1. Research grant from Rhode Island Foundation for the project titled “Distribution of TGF- β in human embryos” for the amount of \$ 2000. 1991.
2. Research grant from Rhode Island Foundation for the project titled “Distribution of PECAM-1 in germinal matrix and cortical blood vessels with and without germinal matrix hemorrhage” for the amount of \$2000. 1992.
3. Lions Club of Rhode Island Foundation grant for the project titled “PCR in detection of infectious diseases” for the amount of \$ 13,500. 1993.
4. *Stillbirth Research Collaborative Network – SCRN, Principal Investigator: D. Coustan, MD - Co-Principal Investigator and Lead Pathologist: H. Pinar, MD Agency: NICHD - Type: RFA/PA HD02-025 - Period: November 2003 – November 2016 - Amount: \$800,000/year. - The objective of this grant is to determine the scope and causes of stillbirth in the US by implementing standardized postmortem and placental examination techniques and detailed investigation of the surroundings. The study will involve an area that includes entire Rhode Island and Bristol County, MA where annually 21,000 deliveries occur.*
5. Continuing studies funded by NICHD extended SCRN budget. “Morphometric studies in normal and abnormal placentas” and “Genomic screening of placental specimens from stillbirth and gestational age matched controls”.
6. Placental sampling in National Children’s Study (NCS) Cohort. 2012-2016. Contractor. \$400,000.

GRANT COLLABORATION

HORMONAL REGULATION OF BRAIN MATURATION

Principal Investigator: Barbara S. Stonestreet, M.D.

Role: Collaborator

Agency: Human Embryology and Development

Type: (HD/NS 34618, years 01-03) Period: 07/01/97 -06/30/01, 06/30/04-06/30/2014

The long-term objective of this project was to investigate the hypotheses that antenatal

steroids accelerate maturation and improve pathophysiologic development of the fetal brain. The specific aims of this proposal are: a) to test the hypothesis that antenatal steroids accelerate ontogenic maturation of the blood-brain barrier. b) To test the hypothesis that steroid pretreatment promotes maturation of brain volume regulation in fetal and newborn sheep. c) To test the hypothesis that steroid pretreatment increases Na⁺, K⁺-ATPase activity in and gene expression in brain tissue and choroid plexus of fetal and newborn sheep. d) To test the hypotheses that antenatal steroids attenuate (i) ischemic injury and (ii) ischemia related decreases in Na⁺, K⁺-ATPase activity and gene expression in the brain of fetal sheep.

BRAIN ISCHEMIA IN THE OVINE FETUS

Principal Investigator: Barbara S. Stonestreet, M.D.

Role: Collaborator

Agency: Human Embryology and Development

Type: RO1

Period: 2008-2014

The long-term objective of this project is to investigate the hypothesis that ischemia-related white matter and neuronal injury are associated with increases in brain tissue cytokines; ischemia-related increases in cytokines are associated with decreases in MBP in oligodendroglia in white matter lesions; and increases in cytokines and decreases in MBP in white matter lesions are accentuated in preterm fetuses. The proposed studies will provide important information on the effects of cytokines in the fetal brain and mechanisms of ischemic brain injury in the fetus.

ROLE OF CYTOKINES (IL-10) IN DECIDUA

Principal Investigator: Surendra Sharma, PhD

Role: Collaborator

Agency: NIH/NICHD

Type: Period: 12/01/2010-11/31/2014

This grant deals with the pathophysiology of preterm labor with a focus on dysregulation of IL-10 and polymorphic changes in the IL-10 gene locus.

INHIBIN/ACTIVIN FAMILY IN HUMAN CRANIOFACIAL DEVELOPMENT

Principal Investigator: G. Lambert-Messerlian, PhD

Role: Collaborator

Agency: NIDCR

Type: R03 DE14002-01A1

Period: March 2002-February 2010

The objective of this grant is to determine the role of activin and related proteins in the development of the human palate.

NORMAL GROWTH PARAMETERS IN THE AMERICAN NEWBORNS

Principal Investigator: Ed Chien, MD

Role: Co-Principal Investigator

Agency: NICHD

Type: Network

Period: September 2011-September 2015

The objective of this multi-site network grant is to determine the normative values of newborns in the United States.

FACTORS INFLUENCING THE ADIPOSITY LEVELS OF THE FETUS IN UTERO

Collaborating as a co-investigator with 10% dedicated time in a R21 NIH grant submitted by Dr. S. Hauguel-de Mouzon in Case Western Reserve University on the topic “Factors influencing the adiposity levels of the fetus in utero”, in which the rate of adipocyte differentiation lipogenesis from lipid substrates are going to be evaluated. Re-application pending.

STILLBIRTH IN AFRICA

Approximately 3 million third trimester stillbirths (SB) occur worldwide each year, 98% of them in developing countries where rates may approach 50/1,000 births. Infection may be associated with up to 50% of SB, especially in developing countries. Although a multicenter project, the NICHD Stillbirth Collaborative Research Network (SCRN), is underway to in part address the role of infection in SB in the United States, no similar efforts have been pursued in the developing world where the spectrum of agents may be different and the contribution of infection to SB is likely much greater. Our primary objective is to determine the relationships between infection and SB in two sites in sub-Saharan Africa [Kenya and the Democratic Republic of the Congo (DRC)] and ultimately to inform strategies to prevent or treat these infections and reduce

associated adverse pregnancy outcomes. Molecular microbiological analytic techniques will be used to examine maternal and fetal tissue and blood for the existence of various organisms. We will employ a case/control design with gestational age matched live born infants serving as controls to the SB cases. Traditional methods to assign cause of death in stillbirths including data obtained from placental histology, maternal interview and medical record abstraction will provide the context for analysis of the microbial findings.

To determine the probable cause of SB, including infection, we will obtain the results of placental evaluation including histology and the medical circumstances related to each stillbirth through interviews with the mother and birth attendant and review of the medical records. We will survey the placental and chorioamnionic bacteriome, virome and mycobionome as well as the maternal plasma and cord blood (CB) plasma in a large cohort of SB, and gestational age matched live birth controls using state-of-the-art molecular methods. We will use the same methods to survey the fetal lung and liver aspirates of SB. We will also analyze maternal and CB plasma for antibodies to specific pathogens. In concert, these data will allow us to determine a probable cause for each SB and to estimate the proportion of SB caused by specific organisms.

REVIEWER FOR JOURNALS

1. Pediatric and Developmental Pathology, 1993-Present
2. American Journal of Obstetrics and Gynecology, 1998-Present
3. Obstetrics and Gynecology, 1998-Present
4. Journal of Perinatology, 1999-Present
5. Laboratory Investigation, 1999-Present
6. American Journal of Reproductive Immunology-2004-Present
7. PLOS Medicine-2005-Present
8. Placenta, 2009-Present
9. The Journal of Maternal-Fetal & Neonatal Medicine-2009-Present
10. Histology and Histopathology-2009-Present
11. Human Pathology, 2010-Present
12. British Medical Journal-2010-Present
13. Lancet-2010-Present
14. Reproductive Sciences-2010-Present
15. British Journal of Obstetrics and Gynecology, 2012-Present
16. International Journal of Biology and Biological Sciences-2013-Present
17. Journal of Basic and Clinical Reproductive Sciences-2014-Present

18. Journal of Pregnancy-2016-Present

VARIOUS TEACHING ROLES

BIOMED 280

Section Leader Human Reproduction, Growth, and Development

LECTURES

Embryology, Placental Pathology, and Trophoblastic Diseases	1992-2006
Embryology, early human development, normal structure of human placenta	2016-Present
Congenital Malformations and Basic Principles of Dymorphology	1992-2006
Pathology of the Infectious Diseases	1992-2003
Pathology of Neonatal and Perinatal Care	1999-2000
Role of the Pathologist and Laboratory in Clinical Care	1999-2000
Pathology of the Gastrointestinal Tract	1994-2003
Pathology of the Endocrine System	1996-2002

BIOMED 282 - HUMAN REPRODUCTION, GROWTH, AND DEVELOPMENT

LECTURES

Prenatal Diagnosis	1992-2006
Pathology of Miscarriages	1997-2002
Small Group Discussions	1993-2003

BIOMED 287 - GRADUATE PROGRAM IN PATHOBIOLOGY

LECTURES

Techniques in Pathobiology – In situ hybridization and its clinical applications 1993-2007

CLINICAL ELECTIVES

612 Research in Pediatric and Developmental Pathology 1994-Present

614 Clinical-Pathologic Correlation in Perinatal and Pediatric Pathology 1994-Present

HOUSE STAFF EDUCATION

Perinatal Pathology Rotation for Residents in Pathology

Perinatal Pathology Rotation for Residents in Obstetrics and Gynecology

HOSPITAL BASED EDUCATION

RESPONSIBLE

Bimonthly Perinatal Pathology Conference 1996-Present
Women and Infants Hospital (CME)
Division of Perinatal and Pediatric Pathology

Bimonthly Perinatal Neuropathology Conference 1996-Present
Women and Infants Hospital and Lifespan AMC

Monthly Pediatric and Perinatal Cardiac Pathology Conference 1997-Present
Women and Infants' Hospital
Division of Perinatal and Pediatric Pathology

Monthly Research Conference 1994-Present
Women and Infants Hospital
Division of Perinatal and Pediatric Pathology
Perinatal Pathology Teaching Rounds Women and Infants Hospital

CONTRIBUTOR

Monthly Clinical Pathological Conference (CME) Division of Neonatology Women and Infants Hospital	1990-Present
Monthly Clinical Pathological Conference Pediatric Residency Program Hasbro Children's Hospital	1992-Present
Monthly Pediatric Tumor Board Hasbro Children's Hospital	1997-Present
Monthly Pediatric Surgical Pathology Conference Hasbro Children's Hospital	1997-Present
Monthly Pediatric Gastrointestinal Tract Pathology Conference Hasbro Children's Hospital	1997-Present
MADAM Conference (CME) (Perinatal Management Conference) Women and Infants Hospital	1998-Present