

## CURRICULUM VITAE

Name: Stanley Norman Graven, MD

Address: 1405 SE Hawthorne Ave,  
Dallas, OR 97338

Birth Date: May 20, 1932

Citizenship: U.S. Citizen

Marital Status: Married, Mavis N. Graven

Children: 3 boys, 1 girl

Degrees: 1955 B.S. Wartburg College, Waverly, Iowa  
1956 M.D. University of Iowa College of Medicine  
Iowa City, Iowa

Internship: 1956-57 Madigan Army Hospital, Tacoma, Washington  
Residency: 1957-58 Pediatric Residency, The Children's Hospital  
Cincinnati, Ohio  
1958-59 Pediatric Residency, State University of Iowa  
Iowa City, Iowa  
Post Doctoral Fellowships: 1959-60 Department of Bacteriology, State University of Iowa  
Iowa City, Iowa  
1964-66 Institute for Enzyme Research (Professor Lardy)  
University of Wisconsin, Madison, Wisconsin

### Academic Appointments:

1964-66 Research Associate, Department of Pediatrics, University of Wisconsin,  
Madison, WI  
1966-69 Assistant Professor, Department of Pediatrics; Research Associate, Institute of  
Enzyme Research, Hartford Neonatal Center, University of WI  
1969-72 Associate Professor, Department of Pediatrics, University of Wisconsin,  
Madison, WI  
1969-71 Director, Neonatal Center and Newborn Services, Madison, WI  
1972-76 Professor, Department of Pediatrics, University of Wisconsin,  
Madison, WI  
1976-79 Medical Director, Office of Maternal-Child Health, South Dakota Department

of Health, Sioux Falls, SD

1976-80 Professor, Departments of Pediatrics and Obstetrics/Gynecology, University of South Dakota, Sioux Falls, SD

1979-80 Medical Consultant, Maternal-Child, South Dakota Department of Health, Sioux Falls, SD

1980-83 Consultant, Maternal-Child, Missouri Division of Health, Columbia, MO

1980-84 Professor, Department of Child Health, University of Missouri, Columbia, MO

1984-86 Professor, Maternal-Child Health, College of Public Health; Professor, Pediatrics, College of Medicine. University of South Florida, Tampa, FL

1986-93 Professor and Chairman, Department of Community and Family Health, College of Public Health, University of South Florida. Professor, Department of Pediatrics, College of Medicine, University of South Florida, Tampa, FL

1993- Professor, Department of Community and Family Health, College of Public Health. Professor, Department of Pediatrics, College of Medicine, University of South Florida, Tampa, FL

1993-94 Interim Head, Division of Child Development, Department of Pediatrics, College of Medicine, University of South Florida, Tampa, FL

1994-1998 Head, Division of Child Development and Neurology, Department of Pediatrics, College of Medicine, University of South Florida, Tampa, FL

1999-2001 Co-Director, Center for Infant and Child Development, University of South Florida, Tampa, FL

2000-2003 Director, The Lawton and Rhea Chiles Center for Healthy Mothers and Babies, University of South Florida, Tampa, FL

2003-2004 Interim Dean, College of Public Health, University of South Florida, Tampa, FL

2004- Professor, Maternal/Child Health and Child Development, The Lawton and Rhea Chiles Center, College of Public Health, University of South Florida, Tampa, FL

**Military Service:**

1960-64 USAF Hospital-Fairchild AFB, Chief of Pediatric Services, Air Force Regional Consultant, Pediatrics, Wilford Hall USAF Hospital, San Antonio, Texas. Director, Newborn-Premature Service Teaching Staff, Pediatric Services

**Recognition and Awards:**

1956 Bordon Undergraduate Medical Research Award

1956 Alpha Omega Alpha

1968 John and Mary Markle Scholar

1977 American Pediatric Society

1988 Stanley N. Graven Award - National Perinatal Association

2005 Distinguished Service Award - University of Missouri-Columbia

2005 Virginia Apgar Award – American Academy of Pediatrics

2006 Stanley & Mavis Graven Award

2008 The Graven's Conference – The Physical and Developmental Environment of the High Risk Newborn

Board Certification:

1960 American Board of Pediatrics  
1976 Neonatal-Perinatal Medicine. American Board of Pediatrics

Professional Societies: (Date of Initial Membership)

1960 Sigma XI  
1962 American Academy of Pediatrics  
1967 Society for Pediatric Research  
1969 American Public Health Association  
1977 National Perinatal Association  
1977 South Dakota Perinatal Association  
1977 Association of MCH and CC Directors  
1980 American Pediatric Society  
1981 General Assembly, National Council for International Health  
1981 Society for Research in Child Development  
1984 Florida Perinatal Association  
1984 Florida Public Health Association  
1986 Florida Pediatric Society  
1986 Florida Society of Neonatal Perinatologists

Professional Activities:

- Chairman: Fetus and Newborn Committee, Wisconsin: Academy of Pediatrics, 1966-71
- Director: Newborn and Premature Institute Program, Wisconsin State Department of Health
- Curriculum Committee: University of Wisconsin Medical School, 1969-71
- Director: Wisconsin Perinatal Care Program, 1969-71
- Coordinator: Wisconsin Regional Newborn Intensive Care Centers
- Member: Fetus and Newborn Committee, American Academy of Pediatrics, 1970-76
- President: Wisconsin Association for Perinatal Health Care, 1972-73
- Member: National Task Force on Perinatal Services, Chairman-Personnel Committee, 1972-74
- Chairman: Committee for Sub-specialty certification in Neonatology, American Board of Pediatrics, 1972-74
- Consultant: Maternal-Child Health Service, HSA, DHEW, 1974
- Examiner: Fetal-Maternal Medicine Oral Exams, American Board of OB/GYN, Division

of Fetal-Maternal Medicine, 1974-75

- Chairman: 1974-76 Sub-Board, Neonatal-Perinatal Medicine American Board of Pediatrics; Member 1976-80
- Treasurer: National Perinatal Association, 1977; Board of Directors, 1978-80 (Named first president of NPA at Inaugural Meeting)
- Expert: Program Office for Maternal-Child Health, DEW, 1979-81
- Program Officer: Egyptian Newborn Care Program, Office of International Health, DHHS, 1978-86
- Senior Program Consultant: The Robert Wood Johnson Foundation, 1979-85
- Consultant: Special Committee for Needs of Children 0-3, Maternal-Child Health, DHHS and Committee on Education of Handicapped, DOE
- Member: Governors Committee on Child Welfare, Governors Constituency for Children, 1985-86
- President: Florida Perinatal Association, 1984-86
- Program Director: Florida Healthy Beginnings Program, 1987-1992
- Co-Director: National Perinatal Technical Resource Center, 1988
- Member: Governor's Transition Task Force on Health and Social Services, Office of the Governor. Tallahassee, Florida, 1990-91

#### Other Activities:

1968	Chairman and Member: Board of Directors, Madison Christian Community, Inc.
1966-73	Member: Board of Missions, American Lutheran Church
1970-80	Board of Regents: Wartburg College, Waverly, Iowa
1971-72	Member: Governor's Health Task Force, Wisconsin
1973-74	Chairman: Board of Service and Mission in America, American Lutheran Church
1978-80	Member: Governor's Council on Family, South Dakota
1987-1990	Chairman: Committee on Elderly Housing and Developmental Day Care, Faith Lutheran Church, Tampa, Florida
1998-2000	President, Board of Directors, Luther Village of Tampa Bay, Inc., Tampa, Florida
2009 -	President, Board of Directors, Polk County Commission for Children & Families, Dallas, Oregon

#### Courses Taught in College of Public Health, University of South Florida

- Introduction to Maternal Child Health
- Program Development and Change Process
- Children with Special Needs
- Population and Demography
- Child Development and Public Health
- Social Behavioral Science and Health
- Perinatal Epidemiology

- Special Topics in MCH Administration
- Grant Writing
- Infant and Child Development and Health

#### Major Periods and Highlights of Professional Career

##### 1) 1960-64 Military Experience

###### a) Chief of Pediatrics, USAF Hospital, Fairchild AFB, Washington

1. Created a pediatric ward.
2. Discovered an undescribed bloodgroup, Ref. #18.
3. Studied relationship of cholesterol, lysolecithin, bilirubin to breast vs bottle feeding, Ref. #6.

###### b) Chief of Newborn Service, Wilford Hall USAF Hospital, San Antonio, Texas

1. Created the first newborn special care nursery, and first use of ventilator and IV therapy in preterm infants with RDS in Military.
2. Studied use of fibrinolysin in therapy of RDS and role of lactate levels in outcome.
3. Discovered a genetic basis for development of RDS in preterm infants, Ref. #5 & 14.
4. Described the association of fatigue and somatic symptoms in children to their TV viewing habits, Ref. #15.

##### 2) 1964-66 Wisconsin Institute for Enzyme Research Biochemistry of mitochondria function, Ref. #9-13, 17, 19, 20

##### 3) 1966-76 Head of Neonatology, Department of Pediatrics, University of Wisconsin, Madison

1. Organized the first NICU in Wisconsin.
2. Developed the Wisconsin Perinatal Program with the first regionalized perinatal system in U.S. with data on impact on fetal and infant mortality, Ref. #21-28.
3. Named John and Mary Markle Scholar.
4. Promoted to Full Professor.
5. Discovered the relation of lecithin to sphingomyelin in amniotic fluid during pregnancy. Abstracts #17 & 18.
6. Named Chairman of committee to study Neonatal Perinatal Medicine as a sub-specialty of Pediatrics, 1972-74.
7. Chair - 1st Sub-Board of Neonatal-Perinatal Medicine, American Board of Pediatrics 1974-76 and Member 1976-80.

8. Created first neonatal nurse clinician program in United States jointly with College of Nursing.
  9. Published first report of rising lecithin levels and stable sphingomyelin levels in amniotic fluid in premates and humans 1968 (Gluck reported the L/S ratio in 1971) Ref # Abstract #18
- 4) 1976-80 University of South Dakota, Department of Pediatrics
- a) Medical Director - MCH, South Dakota Dept. of Health
    1. Created a Statewide Perinatal Program.
    2. Created a Statewide system of prenatal and parenting education with regional resource centers.
    3. Created a neonatal nurse clinician program.
    4. Created the Children's Comprehensive Health Care System.
  - b) University Department of Pediatrics
    1. Created a NICU with full-time Neonatologists and Neonatal Nurse Clinicians
    2. Created and funded a series of pediatric subspecialty clinics in the Dept. of Pediatrics - Cardiology, Neurology, Gastroenterology, Child Development.
    3. Selected to be Program Director and Senior Program Consultant for Rural Infant Care Program, Robert Wood Johnson Foundation, 1978-85. Ref. #50
    4. Appointed as Program Director, Egyptian Newborn Care Program, U.S. Public Health Service, Dept. of H&HS, 1978-86. Program played a major role in legalizing and training of Dayae (Traditional Midwife) with a major reduction in neonatal mortality, particularly related to tetanus..
    5. Organized conferences and published proceedings on Maternal and Neonatal Air Transport which became the basis for FAA studies and eventually policies covering perinatal air transport. Ref. #43 & 46.
    6. Organized conference and published proceedings of "Health Care for Mothers and Infants in Rural and Isolated Areas". Ref. #42.
- 5) 1980-84 Department of Pediatrics, University of Missouri, Columbia
1. Created an Infant Development Unit in which light, sound and other environmental factors could be controlled. Ref. #49
  2. Operated Egyptian Newborn Care Program and Rural Infant Care Program.
  3. Served as consultant to Missouri State MCH Program.
  4. Organized a multidisciplinary, multi-college study group for issues in early infant and child development and care.



6) 1984-93 College of Public Health, University of South Florida, Tampa

1. Created Department of Community & Family Health starting with two faculty and built to a faculty of 11 academic and 32 total in all categories.
2. Developed the Continuing Education Program for the College and operated within the department.
3. Created five concentrations, MPH, MsPH and PhD programs within the department.
4. Taught nine different courses and lectured in a number of other courses. Taught courses in Sarasota, Orlando, Tallahassee, Pensacola, Ocala, Tampa General Hospital, as well as at the College of Public Health.
5. Served as principle investigator for >50 grants and contracts in excess of >4.5 million dollars.
6. Directed the Healthy Beginnings Program to assist public health departments upgrade their care practices and use of Medicaid dollars.
7. Served as principle investigator on a grant to create a MCH training program, the first ever awarded without a developmental grant and outside assistance in developing the program and faculty. It provided over \$1,800,000 over five years and has been renewed for another ten years.
8. Conducted the evaluation of the Florida IPO program for its impact on fetal and neonatal outcome.
9. Created the Center for the Physical and Developmental Environment of the High Risk Newborn, 1992-97. The project reviewed over 350,000 citations and has a literature data base of 18,000 references. There are six study areas in various stages of work with reports on light and sound due to be published in 1997. Ref. #57 & 58.

7) 1993-98 Professor and Head, Division of Child Development and Neurology  
Department of Pediatrics - 70%; Professor MCH, Dept. of Community & Family Health - College of Public Health - 30%

1. Restructured and rebuilt the Division of Child Development and Neurology. In September 1993, the Division had four faculty and only two developmental pediatricians, one of whom left in January 1994. The Division was in financial difficulties. The Division grew to six developmental pediatricians, two psychologists, one faculty in special education and a staff of 40. It had clinics in four counties and was financially stable.
2. Organized a tri-district conference on evidence-based practice in the services for special needs children. The approach to services for special needs children is gradually changing under the leadership of the Division faculty and staff.
3. Recruited a faculty member for the All Children's Clinic and developed a

plan for a unified Division of Child Development between USF and All Children's Hospital.

4. The National Perinatal Association established the Stanley Graven Award to recognize individuals for their contribution to Perinatal Care and the National Perinatal Association.

8) 1998-2000 Professor, Department of Community and Family Health – Co Director, Center for Infant and Child Development

1. Assisted in publishing the supplement to *Journal of Perinatology* on the “Influences of Auditory Experiences on the Fetus, Newborn and Preterm Infant”.
2. Directed the program on The Physical and Developmental Environment of the High Risk Newborn.

9) 2000-2003 Director, Lawton & Rhea Chiles Center for Healthy Mothers and Babies

10) 2003-2004 Interim Dean, College of Public Health

11) 2008 Guest Editor and author of five articles in *Newborn & Infant Nursing Reviews*, 8(4) December

## BIBLIOGRAPHY

### Articles

1. Graven, S.N. and Tomsovic, E.J.: Celiac disease: response to a gluten-free diet. *J. Pediatr.* 53:726, 1958.
2. Graven, S.N.: ABO blood group incompatibility. *J. Iowa State Med. Soc.* 50:69, 1960.
3. Mann, J. and Graven, S.N.: Erythrocyte Morphology in hemolytic disease in the newborn. *Amer. J. Dis. Child.* 108:611, 1964.
4. Gomez, M.F. and Graven, S.N.: The use of fibrinolysin in the treatment of respiratory distress syndrome. *Pediatrics.* 34:877, 1964.
5. Graven, S.N. and Misenhimer, J.R.: Respiratory distress syndrome and the high-risk mother. *Am. J. Dis. Child.* 109:489, 1965.
6. Graven, S.N., Manning, G., Sagerson, R. and Ridders, H.: A study of phospholipids in neonatal hyperbilirubinemia. *J. Pediatr.* 66:12, 1965.
7. Graven, S.N., Criscuolo, D. and Holcomb, T.M.: Blood lactate and prognosis in the respiratory distress syndrome. *Am. J. Dis. Child.* 110:614, 1965.
8. Graven, S.N., Driscuolo, D. and Holcomb, T.M.: The effect of activity on the concentration of blood lactate in premature infants. *Pediatrics.* 32:278, 1966.
9. Graven, S.N.: Studies of placental mitochondria: method of recovery and oxidative phosphorylation using mitochondria from human and rat placentas. *J. Pediatr.* 68:849, 1966.
10. Graven, S.N.: The effect of antibiotic-induced alkali metal cation movements on oxidative phosphorylation. In: Gerbardt, M. and Jena. D.D.R. (eds.), International Symposium on Mechanisms of Action of Fungicides and Antibiotics, 1967.
11. Graven, S.N., Lardy, H.A., Johnson, D, and Rutter, A.: Antibiotics as tools for metabolic studies. V. Effect of monactin, nonactin, dinactin, and trimactin on oxidative phosphorylation and adenosine triphosphatase induction. *Biochem.* 5:1729, 1966.
12. Graven, S.N., Lardy, H.A. and Rutter, A.: Antibiotics as tools for metabolic studies. VI. Damped oscillatory swelling of mitochondria induced by nonactin, monactin, dinactin and trinactin. *Biochem.* 5:1736, 1966.

13. Graven, S.N., Estrada-O, S. and Lardy, H.A.: The relationship of alkali metal cation release to the respiratory inhibition induced by nigericin in rat liver mitochondria. *Proc. Nat. Acad. Sci.* 56:654, 1966.
14. Graven, S.N., Opitz, J. and Harrison, M.: The respiratory distress syndrome: risk related to maternal factors. *Am. J. Obstet. Gyn.* 96:969, 1966.
15. Norewicz, R.M. and Graven, S.N.: When children complain of fatigue. *Child Fam.*, Summer, 1966.
16. Graven, S.N., Lardy, H.A. and Estrada-O, S.: Antibiotics as tools for metabolic studies. VII. Uptake of alkali metal cation induced by the nonactin homologs. *Biochem.* 6:365, 1967.
17. Estrada-O, S., Graven, S.N. and Lardy, H.A.: A specific K<sup>+</sup> dependent hydrolysis of ATP induced by nigericin in mitochondria. *J. Biol. Chem.* 242:2925, 1967.
18. Rausen, A.R., Rosenfield, R.E., Graven, S.N., et al: A "New" infrequent red cell antigen, Rd (Radin). *Transfusion.* 7:336, 1967.
19. Hardy, H.A., Graven, S.N. and Estrada-O, S.: Specific induction and inhibition of cation and anion transport in mitochondria. *Pediatr. Proc.* 26:1355, 1967.
20. Estrada-O, S., Graven, S.N. and Lardy, H.A.: The Effect of Nigericin on ion transport and oxidative phosphorylation. *Pediatr. Proc.* 26:610, 1967.
21. Zachman, R.D. and Graven, S.N.: A summary of the first year of an intensive care nursery. *West. Med. J.* 69:151, 1970
22. Wesenberg, R.I., Graven, S.N. and McCabe, E.: Radiological findings in wet lung disease. *Radiology.* 98:69, 1971.
23. Zachman RD, Graven SN. Parents of severely ill newborn infants. *Wis Med J.* 71(6):159-163, 1972.
24. Zachman, R.D., Ledbetter, M.K., Botham, R.J., Steinmetz, G.P. and Graven, S.N.: Incidence and treatment of patent ductus arteriosus in the low birth weight neonate. *Pediatr. Res.* 6:81, 1972.

25. Graven, S.N.: The development of regional perinatal programs. Proc. Region VII Conf., MCH-CC Services, Dec. 10-11, 1973, Amana, Iowa, pp. 46-50.
26. Schneider, J. and Graven, S.N.: Regionalized OB/Gyn care in Wisconsin perinatal centers. *Contemp OB/GYN*. 3:35, 1973.
27. Zachman, R.D. and Graven, S.N.: A four-year summary of a neonatal intensive care unit. *Am J Dis Child*. 124:165, 1973.
28. Olson, E.B. and Graven, S.N.: Comparison on visualization methods used to measure the lecithin/sphingomyelin ratio in amniotic fluid. *Clin Chem* 20:1408, 1974.
29. Lindback, T., Frantz, T., Skjaeraasen, J. and Graven, S.N.: Phospholipids in amniotic fluid. I. Lecithin sphingomyelin ratio related to gestation, maternal disease and fetal outcome. *Acta Obstet. Gyn. Scan*. 53:219, 1974.
30. Frantz, T., Lindback, T., Skjaeraasen, J. and Graven, S.N.: Phospholipids in amniotic fluid. II. Lecithin fatty acid patterns related to gestation, maternal disease, and fetal outcome. *Acta Obstet. Gyn. Scand*. 54:33, 1975
31. Ruffle, T., Olson, E.B., Graven, S.N., Zachman, R.D.: Oxygen consumption in fetal rabbit ductus arteriosus. *Proc. Soc. Exper. Biol. Med*. 148:593, 1975.
32. Grassy, R., Hubbard, C., Zachman, R.D. and Graven, S.N.: Preliminary observations on the growth and development of low birth weight neonates. *Am. J. Dis. Child.*, 1975.
33. Olson, E.B., Hartline, J.V., Schneider, J.M. and Graven, S.N.: The use of amniotic fluid bubble stability, L/S ratio and creatinine concentration in the assessment of fetal maturity. *Am. J. OB/Gyn*. 122:755, 1975.
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36. Olson, E.B., Graven, S.N., Zachman, R.D.: Amniotic fluid lecithin to sphingomyelin ratio of 3.5 and fetal pulmonary maturity. *Ped Res* 9:65, 1975.
37. Graven, S.N. and Callon, H.: Perinatal health care in Wisconsin: 1965-74, Report to the Wisconsin Division of Health, 1976.

38. Zachman, R.D., Graven, S.N., Frantz, T.A.: The use of amniotic fluid L/S ratio to assess fetal lung maturity: a summary of three years experience at the South Central Regional Perinatal Center, Madison. *Wisconsin Med. J.* 75:113, 1976.
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42. Graven, S.N. and Sommers, J. (eds.): Proceedings: newborn air transport. Mead Johnson Nutritional Division, Evansville, Indiana, 1978.
43. Graven, S.N.: Perinatal health promotion: an overview. *Family and Community Health.* 1(3):1, 1978.
44. Graven, S.N.: Perinatal nutrition needs and problems in South Dakota. Nutrition in Action Symposium 1979, South Dakota State University Foundation, 1979, pg. 30.
45. Graven, S.N. and Sommers, J.G. (eds.): Maternal air transport. Mead Johnson Nutritional Division, Evansville, Indiana, 1980.
46. Graven, S.N.: Statewide strategies for developing effective perinatal care systems in The Surgeon General's Workshop on: Maternal and Infant Health. U.S. Government Printing Office, 1981. DHHS Publication No. (PHS) 81-50161.
47. Graven, S.N.: Solving problems of health care for low income children - new approaches in Proceedings: National Governors' Association Conference "America's Children Need Powerful Friends". National Governors' Association, 1983.
48. Graven, S.N.: The University of Missouri infant development unit and program. *Zero Three.* 1983; 4(2):12-13.
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52. Graven, S.N. and Taren, T.L.: An evaluation fo the Florida Prevention of preterm Birth Program. Report to the Florida Department of health and Rehabilitative Services. Sept. 10, 1988.
53. Taren, D.L. and Graven, S.N.: The association of prenatal nutrition and educational services with low birthweight rates in a Florida program. Public health Reports. 1991; 106:426-436
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56. Graven SN, Bowen Jr FW, Brooten D, et al. The high-risk infant environment. Part 1. The role of the neonatal intensive care unit in the outcome of high-risk infants. *J Perinatol.* 1992;12(2):164-172.
57. Graven SN, Bowen FW, Jr., Brooten D, et al. The high-risk infant environment. Part 2. The role of caregiving and the social environment. *J Perinatol.* 1992;12(3):267-275.
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60. Graven SN. Clinical research data illuminating the relationship between the physical environment & patient medical outcomes. *J. Healthc. Des.* 1997;9:15-19.
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Scientific and Practical Considerations in Neonatology: Pathophysiology and Management of the Newborn, Avery, G. et al. Editors, 1999.

62. Graven, S.N.: Things That Matter in the Lives of Children: Looking at Children's spiritual Development from a Developmentalist Perspective. Exploring Children's Spiritual Formation Foundational Issues, pgs 39-68, 1999
63. Philbin MK, Lickliter R, Graven SN. Sensory experience and the developing organism: a history of ideas and view to the future. *J Perinatol.* 2000;20(8 Pt 2):S2-S5.
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67. Graven SN. Sleep and brain development. *Clin Perinatol.* Sep 2006;33(3):693-706.
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69. Graven SN, Brown JV. Sensory development in the fetus, neonate, and infant: introduction and overview. *Newborn Infant Nurs Rev.* Dec 2008,8(4):169-172.
70. Graven SN, Brown JV. Sleep and brain development: the critical role of sleep in fetal and early neonatal brain development. *Newborn Infant Nurs Rev.* Dec 2008,8(4):173-179.
71. Graven SN, Brown JV. Auditory development in the fetus and infant. *Newborn Infant Nurs Rev.* Dec 2008,8(4):187-194.
72. Graven SN, Brown JV. Visual development in the human fetus, infant, and young child. *Newborn Infant Nurs Rev.* Dec 2008,8(4):194-201.
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## Chapters

1. Graven SN, Fanaroff AA, Fanaroff AA. Organization of nursery services. Part one : the organization of perinatal health services. *Behrman's neonatal-perinatal medicine: diseases of the fetus and infant.* St. Louis: C. V. Mosby; 1983:4-10.

## Abstracts

1. Graven, S.N.: The Flemming blood group: description of a new blood group and report of a case of hemolytic disease of the newborn resulting from maternal sensitization to the blood group antigen. West Soc. for Ped. Res., San Francisco, California, 1961.
2. Graven, S.N., Ridders, H. and Skaff, G.: The influence of diet on the concentration of serum bilirubin in newborns. Proc. Soc. of Air Force Physicians, Lackland AFB, Texas, 1962.
3. Graven, S.N.: Bee-sting nephrosis: report of a case. Proc. Soc. of Air Force Physicians, Lackland AFB, Texas, 1962.
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