

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: 1954 B.S. Wartburg College, Waverly, Iowa
1956 M.D. State University of Iowa College of Medicine
Iowa City, Iowa

Internship: 1956-57 Madigan Army Hospital, Tacoma, Washington
1957-58 Pediatric Residency, The Children's Hospital
Cincinnati, Ohio
1958-59 Pediatric Residency, State University of Iowa
Iowa City, Iowa
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

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, Welford 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 prenatals 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 Childrens 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: Gerhardt, 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⁺ 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.
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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.
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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.
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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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43. Graven, S.N.: Perinatal health promotion: an overview. *Family and Community Health.* 1(3):1, 1978.
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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.
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48. Graven, S.N.: The University of Missouri infant development unit and program. *Zero Three.* 1983; 4(2):12-13.
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Newborn, Avery, G. et al. Editors, 1999.

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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.
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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.

Chapters

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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.
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