

James Edward Haddow, M.D.

Department of Pathology and Laboratory Medicine  
Women and Infants Hospital of Rhode Island

Business or Mailing Address: 35 Main Street, Unit #1, Windham, ME 04062  
Business Telephone Number: 207-894-6610  
Business Fax Number: 207-892-8620  
Electronic Mail Address: [jhaddow@ipmms.org](mailto:jhaddow@ipmms.org) or [jhaddow@wihri.org](mailto:jhaddow@wihri.org)

### EDUCATION

Undergraduate	Harvard University, English, B.A., 1957
Medical School	Tufts University, M.D., 1957-1961

### POSTGRADUATE TRAINING

Residency	Maine Medical Center, Portland, ME, rotating internship, 1961-1962 Boston City Hospital, Boston, MA, Pediatrics, 1962-1964
Fellowship	Boston City Hospital, Boston, MA, Metabolism and Endocrinology, Dept. of Pediatrics, 1966-1967

### POSTGRADUATE HONORS AND AWARDS:

Visiting Scientist Department of Environmental and Preventive Medicine Medical College of St. Bartholomew's Hospital London, England	1985
Libra Distinguished Professor In Applied Immunology, University of Southern Maine	1997-1998
Honorary Research Fellow, Wolfson Institute of Preventive Medicine London, England	2004-present

### MILITARY SERVICE:

Captain, Pediatrician, U.S. Army Medical Corps, Fort Campbell, KY	1964-1966
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### PROFESSIONAL LICENSES AND BOARD CERTIFICATION:

American Board of Pediatrics	1966
Board of Registration of Medicine, Commonwealth of Massachusetts	1966-74
Board of Registration of Medicine, State of Maine - #7703	July 17, 1974-present

#### ACADEMIC APPOINTMENTS:

1967-1969	Instructor in Pediatrics, Boston University School of Medicine
1967-1974	Clinical Instructor in Pediatrics, Harvard Medical School
1969-1972	Assistant Professor of Pediatrics, Boston University School of Medicine
1970-1974	Director, Medical Student Teaching in Pediatrics, Boston University School of Medicine
1972-1974	Associate Professor in Pediatrics, Boston University School of Medicine
1974-1980	Associate Clinical Professor of Pediatrics, Tufts University School of Medicine
1980	Lecturer, University of New England School of Osteopathy
1981-1993	Associate Clinical Professor of Pediatrics, University of Vermont School of Medicine
1988-Present	Adjunct Professor, Department of Applied Medical Science, University of Southern Maine
1993-Present	Clinical Professor of Pediatrics, University of Vermont School of Medicine
2005-Present	Professor of Pathology and Laboratory Medicine (Research), The Warren Alpert Medical School of Brown University, Providence, Rhode Island

#### HOSPITAL APPOINTMENTS:

1966-1967	Fellow, Pediatric Endocrinology/Metabolism
1967-1971	Assistant Director, Pediatric Clinical Center, Boston City Hospital
1968-1971	Assistant Visiting Physician, Boston City Hospital
1971-1974	Director, Pediatric Metabolism and Endocrinology, Boston City Hospital
1971-1974	Visiting Physician, Boston City Hospital
1972-1974	Associate Staff, Kennedy Memorial Hospital, Brighton, Massachusetts
1974-Present	Associate Medical Staff, Maine Medical Center, Department of Research with privileges in Pediatrics
1974-1977	Associate Director, Rheumatic Disease Laboratory, Maine Medical Center
1977-2004	Vice President/Medical Director, Foundation for Blood Research, Scarborough, Maine
2004-Present	Co-Director, Division of Medical Screening & Special Testing, Department of Pathology and Laboratory Medicine, Women & Infants Hospital, Providence, Rhode Island

#### OTHER APPOINTMENTS:

1973-1974	Trustee, Southeastern Mass University
1976-1980	New England Amniocentesis Group
1976	Trustee, Center Memorial Clinic, Steep Falls, Maine
1976-1983	Scientific Advisor - Southern Maine Chapter, March of Dimes
1977	First Scarborough Conference, Planner, Co-Chairman
1978	Second Scarborough Conference, Planner, Co-Chairman
1978-1997	Chair, Quality Control Committee, New England Regional Genetics Group (NERGG)
1979-1981	NCCLS Committee to Establish Alpha-Fetoprotein Standards
1980	Conference on Maternal Serum Alpha-Fetoprotein, National Center for Health Care Technology, Director, Planning Committee, and Conference Chairman
1980	Third Scarborough Conference, Planner, Co-Chairman
1983	Member at large, Board of Directors, American Cancer Society (Maine Division)
1984	Fourth Scarborough Conference, Co-Planner, Co-Chairman (Public Health Implications of the Low-Tar Cigarette Policy)
1985-2004	Annual Short Courses in Screening for Major Fetal Disorders, Planner, Co-Chairman
1985	American Society for Human Genetics -- Alpha-fetoprotein Subcommittee
1985-2008	Editorial Board, <i>Prenatal Diagnosis</i>
1986	Primary CAD Prevention: Current Approaches to Screening, Management, and Education, Co-Planner
1988	Fifth Scarborough Conference, Co-Planner, Co-Chairman

1988-1991	Co-Chair, AFP QC Committee, Council of Regional Networks for Genetics Services
1991	Member, University of Southern Maine School of Applied Science Advisory Council
1991-1993	Chair, Quality Control Committee, Council of Regional Networks for Genetics Services (CORN)
1994-Present	Associate Editor, <i>Journal of Medical Screening</i>
1998	Sixth Scarborough Conference, Planner, Co-Chairman (Issues in Implementing Prenatal Screening for Cystic Fibrosis)
2003	Member, National Center for Research Resources Special Emphasis Panel, National Center for Research Resources ZRR1 SEPA-4 (01)
2004-2011	Expert Advisor, Evaluation of Genomic Applications in Practice and Prevention (EGAPP), Centers for Disease Control (CDC)
2004-2007	Member, Data and Safety Monitoring Board, (for clinical trial entitled <i>Pilot Trial of Thyroid Hormone in Prematures</i> ), National Institute of Neurological Diseases and Stroke, National Institutes of Health
2005-Present	Advisory Board, Clinical Genetics Institute, Intermountain Health Care, Salt Lake City, Utah

#### HOSPITAL COMMITTEES:

1976-1977	IRB, Maine Medical Center
1978-2004	IRB, Foundation for Blood Research

#### UNIVERSITY COMMITTEES:

None

#### MEMBERSHIP IN SOCIETIES:

1974-Present	Society for Pediatric Research
1974-1980	Maine Chapter, American Academy of Pediatrics
1978-1997	New England Regional Genetics Group, Member Steering Committee, Member, 1979 - 1997
1978	Maine Association for Human Genetics - Vice President
1979	Maine Association for Human Genetics - President
1991-1995	New England Pediatric Society
1997-Present	American College of Medical Genetics
2001-Present	Medical Screening Society; founding co-director
2008-Present	American Thyroid Association
2012-Present	Endocrine Society

#### ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS:

- Engel E, Haddow JE, Lewis JF, Tipton RE, Overall JC, McGee BJ, Levrat OH, Engel-de-montmollin M: Three unusual trisomic patterns in children. Triple X plus triple E-triple X mosaic: normal XY-D trisomy mosaic; partial trisomy with E translocation. *Am J Dis Child*, 113(3):322-328, 1967. PMID: 6019450.
- Young LM, Haddow JE, Klein JO: Relapse following ampicillin treatment of acute Hemophilus influenzae meningitis. *Pediatrics*, 41(2):516-518, 1968. PMID: 5300101.
- Klein JO, Haddow JE, Young LM: Ampicillin dosage. *Pediatrics*, 42(1):212, 1968. PMID: 5657686.
- Klein R, Haddow JE: Trace elements in health and disease. *Practitioner*, 201(202):314-323, 1968. PMID: 5667886.
- Klein R, Haddow JE, Kind C, Cockburn P: Effect of cold on muscle potentials and electrolytes. *Metabolism*, 17(12):1094-1103, 1968. PMID: 5703476.
- McFadden SW, Haddow JE: Coma produced by topical application of isopropanol. *Pediatrics*, 43(4):622-623, 1969. PMID: 5777081.

7. Gall DG, Haddow JE: Effects of acute hypernatremia. *Lancet*, i(7598):783, 1969. PMID: 4180870.
8. Bonacci A, Haddow JE: Hazard in the nursery. *N Engl J Med*, 282(11):633, 1970. PMID: 5461098.
9. Klein R, Haddow JE: Arterial-venous potassium differences in paramyotonia. *Pediatr Res*, 4(3):286-294, 1970. PMID: 5423162.
10. Haddow JE, Klein R: Cardiac glycoside effects on rat skeletal muscle potentials and electrolytes. *Proc Soc Exp Biol Med*, 133(1):138-143, 1970. PMID: 5412327.
11. Haddow JE, Shapiro SR, Gall DG: Congenital sensory neuropathy in siblings. *Pediatrics*, 45(4):651-655, 1970. PMID: 4191331.
12. Haddow JE, Gall DG: Occult helminth infection with appearance of splenic and lung calcifications. *Am J Dis Child*, 120(6):555-556, 1970. PMID: 5481908.
13. Cranley WR, Haddow JE: Methadone overdosage in children. *N Engl J Med*, 284(14):792, 1971. PMID: 5548040.
14. Haddow JE, Sher N, Gall DG, Green D: Streptococcal wound infection with evidence of widespread tissue involvement. *Pediatrics*, 48(3):458-462, 1971. PMID: 5094350.
15. Gall G, Vaitukaitis J, Haddow JE, Klein R: Erythrocyte Na flux in a patient with Bartter's syndrome. *J Clin Endocrinol Metab*, 32(4):562-567, 1971. PMID: 5547273.
16. Cranley WR, Haddow JE: Methadone overdosage in children. *N Engl J Med*, 284(14):792, 1971. PMID: 5548040.
17. Klein R, Haddow JE, DeLuca C: Familial congenital disorder resembling stiff-man syndrome. *Am J Dis Child*, 124(5):730-731, 1972. PMID: 4508100.
18. Haddow JE, Marshall PC: Increased stool mercury excretion in the rat: the effect of spironolactone. *Proc Soc Exp Biol Med*, 140(2):707-709, 1972. PMID: 5037611.
19. Haddow JE, Fish CA, Marshall PC, Lester R: Biliary excretion of mercury enhanced by spironolactone. *Gastroenterology*, 63(6):1053-1058, 1972. PMID: 4639360.
20. Feldman RG, Haddow JE, Kopito L, Schwachman H: Altered peripheral nerve conduction velocity. Chronic lead intoxication in children. *Am J Dis Child*, 125(1):39-41, 1973. PMID: 4683960.
21. Galaburda M, Rosman NP, Haddow JE: Thyroid storm in an 11-year-old boy managed by propranolol. *Pediatrics*, 53(6):920-922, 1974. PMID: 4832434.
22. Lee KD, Lovejoy FH Jr, Haddow JE: Childhood methadone intoxication. *Clin Pediatr (Phila)*, 13(1):66-68, 1974. PMID: 4809614.
23. Haddow JE, Cohen DL: Understanding and managing hypernatremic dehydration. *Pediatr Clin North Am*, 21(2):435-441, 1974. PMID: 4837172.
24. Kushlan MC, Haddow JE, Lester R: In vitro enhancement of erythrocyte mercury uptake by spironolactone. *Toxicol Appl Pharmacol*, 31(3):527-533, 1975. PMID: 1145636.
25. Haddow JE, Gall DG: The hairless, odorless axilla: an example of selective end-organ unresponsiveness to androgen. *J Maine Med Assoc*, 66(1):11,25, 1975. PMID: 1110314.
26. Haddow JE: An approach to hypocalcemic disorders in children. *J Maine Med Assoc*, 66(1):1-4, 1975. PMID: 234142.
27. Bratton L, Haddow JE: Ingestion of charcoal lighter fluid. *J Pediatr*, 87(4):633-636, 1975. PMID: 1159594.
28. Haddow JE, Ritchie RF: The relevance of alpha-fetoprotein measurements in prenatal diagnosis. *J Maine Med Assoc*, 66(1):12-13, 1975. PMID: 45930.
29. Brem AS, Haddow JE: Hypothyroidism in infancy. *J Maine Med Assoc*, 67(1):1-3, 1976. PMID: 1244411.
30. Haddow JE, Lester R: Biliary copper excretion in the rat is enhanced by spironolactone. *Drug Metab Dispos*, 4(5):499-503, 1976. PMID: 10150.
31. Robotham JL, Haddow JE: Rhabdomyolysis and myoglobinuria in childhood. *Pediatr Clin North Am*, 23(2):279-301, 1976. PMID: 1272621.
32. Haddow JE: Pregnancy-related alpha-fetoprotein testing. Guidelines in usage and interpretation. *J Maine Med Assoc*, 67(1):6-8, 1976. PMID: 53255.
33. Chute A, Haddow JE, Ritchie RF: Improved electroimmunoassay of factor VIII-related antigen. *Clin Chem*, 23(3):602-603, 1977. PMID: 837551.

34. Haddow JE, Herskowitz J, Mauer E, Morris M: Hypoparathyroidism resulting from biologically ineffective parathormone in a phenotypically normal child. *J Maine Med Assoc*, 69(1):9-12, 1978. PMID: 618998.
35. Haddow JE, Cowchock FS, Macri JN, Munson M, Baldwin P, Aldrich N: Second trimester amniotic fluid protein values from normal, neural tube defect, and fetal demise pregnancies after exclusion of maternal blood contamination by testing for pregnancy-associated macroglobulin. *Pediatr Res*, 12(3):243-248, 1978. PMID: 643395.
36. Rosman NP, Shapiro MB, Haddow JE: Muscle weakness caused by an iodine-deficient diet: investigation of a nutritional myopathy. *J Neuropathol Exp Neurol*, 37(2):192-211, 1978. PMID: 632848.
37. Haddow JE, Robotham JL: Acute interstitial nephritis in children - a process produced by streptococcal infection and by chemotherapeutic agents. A review. *J Maine Med Assoc*, 69(1):1-6, 1978. PMID: 618994.
38. Haddow JE, Kloza EM: Alpha-fetoprotein screening on a U.S. regional basis. *Nature*, 280(5722):444, 1979. PMID: 88677.
39. Bromberger PI, Haddow JE: Hypernatremic dehydration in infancy as a presenting sign of underlying disease. *J Maine Med Assoc*, 70(1):28-29, 1979. PMID: 422902.
40. Thompson DK, Haddow JE: Serial monitoring of serum alpha-fetoprotein and chorionic gonadotropin in males with germ cell tumors. *Cancer*, 43(5):1820-1829, 1979. PMID: 87255.
41. Haddow JE, Macri JN: Prenatal screening for neural tube defects. *JAMA*, 242(6):515-516, 1979. PMID: 376891.
42. Haddow JE, Macri JN, Munson M: The amnion regulates movement of fetally derived alpha-fetoprotein into maternal blood. *J Lab Clin Med*, 94(2):344-347, 1979. PMID: 88493.
43. Macri JN, Haddow JE, Weiss RR: Screening for neural tube defects in the United States: A Summary of the Scarborough Conference. *Am J Obstet Gynecol*, 133(2):119-125, 1979. PMID: 84533.
44. Kloza EM, Haddow JE: Maternal serum alpha-fetoprotein screening. *Am J Obstet Gynecol*, 136(1):145, 1980. PMID: 6153250.
45. Wald NJ, Cuckle HS, Haddow JE: Should ultrasound be used to estimate gestational age in the screening and antenatal diagnosis of open neural tube defects? *Lancet*, 2(8196):690, 1980. PMID: 6106799.
46. Holman M, Knight G, Haddow J: Acetylthiocholine iodide for detecting acetylcholinesterase activity in amniotic fluid. *Lancet*, 2(8195 pt 1):651, 1980. PMID: 6107446.
47. Haddow JE, Thompson DK, Kloza EM: Maternal hepatoma detected during serum AFP screening. *Lancet*, 2(8198):806-807, 1980. PMID: 615909.
48. Bromberger P, Chandler B, Gezon H, Haddow JE: Rapid detection of neonatal group B streptococcal infections by latex agglutination. *J Pediatr*, 96:104-106, 1980. PMID: 6985656.
49. Haddow JE, Kloza EM, Knight GJ, Smith DE: Relation between maternal weight and serum alpha-fetoprotein concentration during the second trimester. *Clin Chem*, 27(1):133-134, 1981. PMID: 6160923.
50. Haddow JE, Morin ME, Holman MS, Miller WA: Acetylcholinesterase and fetal malformations: modified qualitative technique for diagnosis of neural tube defects. *Clin Chem*, 27(1):61-63, 1981. PMID: 6160926.
51. Thompson DK, Haddow JE, Smith DE, Ritchie RF: Serum protein changes in women with early breast cancer. *Cancer*, 48(3):793-798, 1981. PMID: 7248907.
52. Knight GJ, Kloza EM, Smith DE, Haddow JE: Efficiency of human placental lactogen and alpha-fetoprotein measurement in twin pregnancy detection. *Am J Obstet Gynecol*, 141(5):585-586, 1981. PMID: 6170227.
53. Hudson GA, Ritchie RF, Haddow JE: Method for testing antiserum titer and avidity in nephelometric systems. *Clin Chem*, 27(11):1838-1844, 1981. PMID: 6975190.
54. Kaplan MM, Larsen PR, Crantz FR, Dzau VJ, Rossing TH, Haddow JE: Prevalence of abnormal thyroid function test results in patients with acute medical illnesses. *Am J Med*, 72(1):9-16, 1982. PMID: 6800256.
55. Knight GJ, Pulkkinen AJ, Haddow JE: Levels of C-peptide in second trimester amniotic fluid. *Am J Obstet Gynecol*, 142(8):1062-1063, 1982. PMID: 7072778.

56. Moses AC, Lawlor J, Haddow JE, Jackson IM: Familial euthyroid hyperthyroxinemia resulting from increased thyroxine binding to thyroxine-binding prealbumin. *N Engl J Med*, 306(16):966-969, 1982. PMID: 6801514.
57. Haddow JE, Knight GJ, Kloza EM: Alpha-fetoprotein screening in pregnancy - a test whose time has come. *Ariz Med*, 39(7):436-439, 1982. PMID: 6181763.
58. Haddow JE, Miller WA: Prenatal diagnosis of open neural tube defects. *Methods Cell Biol*, 26:67-94, 1982. PMID: 6182446.
59. Brock DJH, Barlow RD, Wald NJ, Smith AD, Haddow JE, Goldfine C, Holman M: Fetal calf serum as a cause of false positive amniotic fluid acetylcholinesterase gel tests. *Lancet*, 2(8306):1044, 1982. PMID: 6127524.
60. Haddow JE: Screening for spinal defects. *Hosp Pract (Off Ed)*, 17(1):128-138, 1982. PMID: 6185408.
61. Goldfine C, Haddow JE, Hudson GA, Miller WA: Densitometry as an aid in amniotic fluid gel acetylcholinesterase analysis. *Am J Obstet Gynecol*, 145(3):317-318, 1983. PMID: 6186143.
62. Goldfine C, Miller WA, Haddow JE: Amniotic fluid gel cholinesterase density ratios in fetal open defects of the neural tube and ventral wall. *Br J Obstet Gynaecol*, 90(3):238-240, 1983. PMID: 6338901.
63. Thompson DK, Haddow JE, Smith DE, Ritchie RF: Elevated serum acute phase protein levels as predictors of disseminated breast cancer. *Cancer*, 51(11):2100-2104, 1983. PMID: 6188525.
64. Hudson GA, Haddow JE, Ritchie RF: Disparity in antiserum avidity as measured by nephelometry, radial immunodiffusion, and column-binding strength. *Clin Chim Acta*, 130(2):239-244, 1983. PMID: 6409453.
65. Fisher NC, Hinds-Aldrich N, Haddow JE, Hudson GA: A cellulose sandwich fluoroimmunoassay for Factor VIII-related antigen. *Thromb Res*, 31(1):145-154, 1983. PMID: 6412396.
66. Hostetter MK, Levy HL, Winter HS, Knight GJ, Haddow JE: Evidence for liver disease preceding amino acid abnormalities in hereditary tyrosinemia. *N Engl J Med*, 308(21):1265-1267, 1983. PMID: 6188953.
67. Carpenter MW, Curci MR, Dibbins AW, Haddow JE: Perinatal management of ventral wall defects. *Obstet Gynecol*, 64(5):646-651, 1984. PMID: 6238249.
68. Wald NJ, Barlow RD, Cuckle HS, Turnbull AC, Goldfine C, Haddow JE: Ratio of amniotic fluid acetylcholinesterase to pseudocholinesterase as an antenatal diagnostic test for exomphalos and gastroschisis. *Br J Obstet Gynaecol*, 91(9):882-884, 1984. PMID: 636841.
69. Haddow JE, Knight GJ, Palomaki G: Does smoking influence serum alpha-fetoprotein levels in mid-trimester pregnancies? *Br J Obstet Gynaecol*, 91(12):1188-1191, 1984. PMID: 6083799.
70. Wald NJ, Boreham J, Bailey A, Ritchie C, Haddow JE, Knight GJ: Urinary cotinine as marker of breathing other people's tobacco smoke. *Lancet*, 1(8370):230-231, 1984. PMID: 6141373.
71. Haddow JE, Milunsky A: Deregulation of screening for alpha-fetoprotein in pregnancy. *N Engl J Med*, 310(25):1669-1670, 1984. PMID: 6203037.
72. Haddow JE, Knight GJ, Pulkkinen AJ, Smith DE: The relationship between serum beta 1-glycoprotein and alpha-fetoprotein levels in the second trimester and birth weight. *Am J Obstet Gynecol*, 148(1):108-109, 1984. PMID: 6197882.
73. Knight GJ, Wylie P, Holman MS, Haddow JE: Improved <sup>125</sup>I radioimmunoassay for cotinine by selective removal of bridge antibodies. *Clin Chem*, 31(1):118-121, 1985. PMID: 3880672.
74. Haddow JE: Identifying fetal disorders by maternal serum alpha-fetoprotein screening. *Practitioner*, 229(1406):721-725, 1985. PMID: 2412219.
75. Is there a future for lower-tar-yield cigarettes? Participants of the Fourth Scarborough Conference on Preventive Medicine. *Lancet*, 2(8464):1111-1114, 1985. PMID: 2865577.
76. Palomaki GE, Knight GJ, Kloza EM, Haddow JE: Maternal weight adjustment and low serum alpha-fetoprotein values. *Lancet*, 1(8426):468, 1985. PMID: 2579300.
77. Milunsky A, Haddow JE: Cautions about maternal serum alpha-fetoprotein screening. *N Engl J Med*, 313(11):694, 1985. PMID: 2410789.
78. Knight GJ, Palomaki GE, Haddow JE: Maternal serum alpha-fetoprotein: a problem with a test kit. *N Engl J Med*, 314(8):516, 1986. PMID: 2418356.
79. Haddow JE, Hill LE, Kloza EM, Thanhauser D: Neural tube defects after gastric bypass. *Lancet*, 1(8493):1330, 1986. PMID: 2872457.

80. Haddow JE, Palomaki GE, Wald NJ, Cuckle HS: Maternal serum alpha-fetoprotein screening for Down syndrome and repeat testing. *Lancet*, 2(8521-22):1460, 1986. PMID: 2431241.
81. Haddow JE, Palomaki GE, Knight GJ: Use of serum cotinine to assess the accuracy of self reported non-smoking. *Br Med J (Clin Res Ed)*, 293(6557):1306, 1986. PMID: 3096477.
82. Haddow JE, Knight GJ, Kloza EM, Palomaki GE: Alpha-fetoprotein, vaginal bleeding, and pregnancy risk. *Br J Obstet Gynaecol*, 93(6):589-593, 1986. PMID: 2425844.
83. Haddow JE, Knight GJ, Palomaki GE, Kloza EM, Wald NJ: Cigarette consumption and serum cotinine in relation to birthweight. *Br J Obstet Gynaecol*, 94(7):678-681, 1987. PMID: 3620415.
84. Biber A, Scherer G, Hoepfner I, Adlkofer F, Heller WD, Haddow JE, Knight GJ: Determination of nicotine and cotinine in human serum and urine: an interlaboratory study. *Toxicol Lett*, 35(1):45-52, 1987. PMID: 3810681.
85. Palomaki GE, Haddow JE: Maternal serum alpha-fetoprotein, age, and Down syndrome risk. *Am J Obstet Gynecol*, 156(2):460-463, 1987. PMID: 2435155.
86. Haddow JE, Palomaki GE, Knight GJ: Can low birth weight after elevated maternal serum alpha-fetoprotein be explained by maternal weight? *Obstet Gynecol*, 70(1):26-28, 1987. PMID: 2439965.
87. Haddow JE, Hill LE, Palomaki GE, Knight GJ: Very low versus undetectable maternal serum alpha-fetoprotein values and fetal death. *Prenat Diagn*, 7(6):401-406, 1987. PMID: 2443907.
88. Page LA, Haddow JE: Self-limited neonatal hyperparathyroidism in familial hypocalciuric hypercalcemia. *J Pediatr*, 111(2):261-264, 1987. PMID: 3612401.
89. Knight GJ, Haddow JA, Palomaki GE, Haddow JE: Selection and validation of alpha-fetoprotein assay kits for the screening of Down syndrome. *Am J Obstet Gynecol*, 156(6):1557-1559, 1987. PMID: 2438936.
90. Palomaki GE, Haddow JE: Combining maternal age and serum alpha-fetoprotein in predicting the risk of Down syndrome. *Obstet Gynecol*, 69(4):683, 1987. PMID: 2434896.
91. Kloza EM, Hill LE, Haddow JE: Open fetal malformations in incorrectly dated pregnancies with initially low maternal serum alpha-fetoprotein results. *Lancet*, 2(8553):275-276, 1987. PMID: 2441216.
92. Haddow JE, Knight GJ, Palomaki GE, Haddow PK: Estimating fetal morbidity and mortality resulting from cigarette smoke exposure by measuring cotinine levels in maternal serum. *Prog Clin Biol Res*, 281:289-300, 1988. PMID: 3174713.
93. Haddow JE: Screening for fetal disorders by measuring alpha-fetoprotein levels in maternal serum. *Ala J Med Sci*, 25(2):168-172, 1988. PMID: 2455453.
94. Canick JA, Knight GJ, Palomaki GE, Haddow JE, Cuckle HS, Wald NJ: Low second trimester maternal serum unconjugated oestriol in pregnancies with Down's syndrome. *Br J Obstet Gynaecol*, 95(4):330-333, 1988. PMID: 2968116.
95. Wald NJ, Cuckle HS, Densem JW, Nanchahal K, Canick JA, Haddow JE, Knight GJ, Palomaki GE: Maternal serum unconjugated oestriol as an antenatal screening test for Down's syndrome. *Br J Obstet Gynaecol*, 95(4):334-341, 1988. PMID: 2454652.
96. Palomaki GE, Hill LE, Knight GJ, Haddow JE, Carpenter M: Second-trimester maternal serum alpha-fetoprotein levels in pregnancies associated with gastroschisis and omphalocele. *Obstet Gynecol*, 71(6 Pt 1):906-909, 1988. PMID: 2453005.
97. Haddow JE, Knight GJ, Palomaki GE, McCarthy JE: Second-trimester serum cotinine levels in nonsmokers in relation to birth weight. *Am J Obstet Gynecol*, 159(2):481-484, 1988. PMID: 3407708.
98. Wald NJ, Cuckle HS, Densem J, Nanchahal K, Royston P, Chard T, Haddow JE, Knight GJ, Palomaki GE, Canick J: Maternal serum screening for Down's syndrome in early pregnancy. *BMJ*, 297(6653):883-887, 1988. PMID: 2460174.
99. Cuckle HS, Wald NJ, Stone R, Densem J, Haddow JE, Knight GJ: Maternal serum thyroid antibodies in early pregnancy and fetal Down's syndrome. *Prenat Diagn*, 8(6):439, 1988. PMID: 2974954.
100. Martin L, Chavez GF, Adams MJ, Mason EE, Hanson JW, Haddow JE, Currier RW: Gastric bypass surgery as maternal risk factor for neural tube defects. *Lancet*, 1(8586):640-641, 1988. PMID: 2894563.

101. Greene MF, Haddow JE, Palomaki GE, Knight GJ: Maternal serum alpha-fetoprotein levels in diabetic pregnancies. *Lancet*, 2(8606):345-346, 1988. PMID: 2456437.
102. Cuckle HS, Wald NJ, Barkai G, Fuhrmann W, Altland K, Brambati B, Knight GJ, Palomaki GE, Haddow JE, Canick JA: First-trimester biochemical screening for Down syndrome. *Lancet*, 2(8615):851-852, 1988. PMID: 2902296.
103. Goldfine C, Knight GJ, Haddow JE, Palomaki GE: Amniotic fluid acetylcholinesterase measurements: comparing immunochemical and polyacrylamide gel techniques. *Prenat Diagn*, 9(3):167-172, 1989. PMID: 2710743.
104. Palomaki GE, Williams J, Haddow JE: Combining maternal serum alpha-fetoprotein measurements and age to screen for Down syndrome in pregnant women under age 35. An eight center prospective collaborative study. *Am J Obstet Gynecol*, 160(3):575-581, 1989. PMID: 2467563.
105. Craig WY, Palomaki GE, Haddow JE: Cigarette smoking and serum lipid and lipoprotein concentrations: an analysis of published data. *BMJ*, 298(6676):784-788, 1989. PMID: 2496857.
106. Knight GJ, Palomaki GE, Lea DH, Haddow JE: Exposure to environmental tobacco smoke measured by cotinine <sup>125</sup>I radioimmunoassay. *Clin Chem*, 35(6):1036-1039, 1989. PMID: 2731343.
107. Goldfine C, Haddow JE, Knight GJ, Palomaki GE: Amniotic fluid alpha-fetoprotein and acetylcholinesterase measurements in pregnancies associated with gastroschisis. *Prenat Diagn*, 9(10):697-700, 1989. PMID: 2480589.
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26. Haddow JE, Palomaki GE: Biochemical Screening for Neural Tube Defects and Down Syndrome. *In: Fetal Medicine: Basic Science and Clinical Practice.* Rodeck CH, Whittle MJ (eds), Churchill Livingstone: London, 373-388, 1999.
27. Haddow JE, Palomaki GE: Biochemical Markers of Fetal Disorders in Maternal Serum and Amniotic Fluid. *In: Medicine of the Fetus & Mother, Second Edition.* Reece EA, Hobbins JC (eds.), J.B. Lippincott Company, pp. 689-706, 1999.
28. Haddow JE: Medical Screening: Assuring Scientific and Ethical Soundness as a Prelude to Economic Analysis. *In: Down Syndrome: Screening Policy and Economic Evaluations.* Beazoglou T, Benn P, Cuckle H, Haddow JE, Kryiopoulos J (eds.), Exandas Publishers, pp. 15-28, 1999.
29. Richards CS, Haddow JE: Prenatal Screening for Cystic Fibrosis. *In: Clinics in Laboratory Medicine. Prenatal Testing.* Canick J, Lambert-Messerlian G (eds.), W.B. Saunders Company, Vol. 23, No. 2, pp. 503-530, 2003.
30. Haddow JE, Palomaki GE: ACCE: A Model Process for Evaluating Data on Emerging Genetic Tests. *In: Human Genome Epidemiology: A Scientific Foundation for Using Genetic Information to Improve Health and Prevent Disease.* Khoury M, Little J, Burke W (eds.), Oxford University Press, pp. 217-233, 2003.
31. Palomaki GE, McClain MR, Haddow JE. ACCE reviews of genetic tests: *BRCA1*, *BRCA2*, and *CFTR*. *In: Genomics and Population Health: United States 2005.* Centers for Disease Control and Prevention, Office of Genomics and Disease Prevention. Atlanta, Georgia, 2005, pp. 27-33.
32. Haddow JE, Palomaki GE, Wapner RJ: First- and second-trimester screening for open neural tube defects and Down syndrome. Chapter 28. *In: Clinical Obstetrics: the Fetus & Mother Handbook.* Reece EA, Hobbins JC, (eds), 3<sup>rd</sup> Edition, Blackwell Publishing Ltd, pp. 485-503, 2007.
33. Haddow JE, Palomaki GE, Canick JA, Knight GJ: Prenatal screening for open neural tube defects and Down's syndrome. *In: Fetal Medicine: Basic Science and Clinical Practice.* Rodeck CH, Whittle MJ (eds), Churchill Livingstone: London, 243-264, 2009.
34. Teutsch SM, Bradley LA, Palomaki GE, Haddow JE, Piper M, Calonge N, Dotson WD, Douglas MP, Berg AO: The evaluation of genomic applications in practice and prevention (EGAPP) initiative: Methods of the EGAPP working group. *In: Human Genome Epidemiology, 2<sup>nd</sup> Edition.* Khoury MJ, Bedrosian SR, Gwinn ML, Higgins JPT, Ioannidis JPA, Little J (eds). Oxford University Press, pp. 458-481, 2010.
35. McClain MR, Palomaki GE, Piper M, Haddow JE: A Rapid-ACCE Review of *CYP2C9* and *VKORC1* allele testing to inform warfarin dosing in adults at elevated risk for thrombotic events to avoid serious bleeding. *In: Human Genome Epidemiology, 2<sup>nd</sup> Edition.* Khoury MJ, Bedrosian SR, Gwinn ML, Higgins JPT, Ioannidis JPA, Little J (eds). Oxford University Press, pp. 620-638, 2010.

#### NON-PEER REVIEWED PUBLICATIONS:

1. Haddow JE: Alpha-fetoprotein Serum Screening in Pregnancy. Check Sample Exercise for American Society of Clinical Pathologists, 1980.
2. Haddow JE, Reimer C: Guidelines for Standards to Assist the Quality of Systems for Alpha-fetoprotein (AFP) Assay in Prenatal Diagnosis. NCCLS Committee Document, Final Copy, July, 1980.

3. Haddow JE, Brewster TG: The frequency of identifiable fetal malformations in pregnant women with diabetes. Perinatal Report, Department of Obstetrics and Gynecology, Maine Medical Center, June, 1982.
4. Haddow JE, Thompson DK: Serum proteins in malignancy. Specific Protein Analysis. American Association for Clinical Chemistry, Vol. 1, No. 17, January, 1984.
5. Haddow JE: Can second trimester maternal serum alpha-fetoprotein (MSAFP) measurements be used to screen for Down syndrome? *The Genetic Resource*, Massachusetts Department of Public Health, p 5, Autumn 1984.
6. Haddow JE: Smoking in Pregnancy: A new approach to solving a continuing problem. *The Genetic Resource*, Massachusetts Department of Public Health, p. 9, Winter, 1985.
7. Haddow JE, Knight GJ: Maternal serum alpha-fetoprotein screening: A test for the dedicated laboratory. *J Med Tech*, 3:477, 1986.
8. Haddow JE: Assuring quality in maternal serum alpha-fetoprotein (MSAFP) screening. *The Genetic Resource*, Massachusetts Department of Public Health, p. 20, Autumn 1985-Winter, 1986.
9. Anderson B, Cassidy S, Green S, Haddow JE, Kloza EM, Schoenfeld M: Low maternal serum alpha-fetoprotein and Down syndrome: Information for physicians. *The Genetic Resource*, Massachusetts Department of Public Health, p. 24, Autumn 1985-Winter 1986.
10. Knight GJ, Palomaki GE, Haddow JE: Assessing reliability of AFP test kits. *Contemp OB/GYN*, 30:37-52, 1987.
11. Knight GJ, Haddow JE, Palomaki GE, Canick JA: Modification of an unconjugated estriol kit for Down syndrome screening in the second trimester of pregnancy. *Clin Chem*, 34:1206, 1988.
12. Haddow JE: MSAFP Screening: Is there a need for regulation? *Clin Chem Newsletter*, 3:3, 1988.
13. Haddow JE, Palomaki GE, Knight GJ, Williams J, Pulkkinen A, Canick JA, Saller DN, Bowers GB: Dépistage prénatal de la trisomie 21 à l'aide de marqueurs sériques maternels. *Journal International de Médecine*, 248:33-40, 1992.
14. Haddow JE: Thyroid deficiency in pregnancy: frequency, seriousness, plan of action. *OBG Management*, 12:14-25, 2000.
15. Haddow JE, Palomaki GE: An introduction to assessing genomic screening and diagnostic tests. *Nutr Today*, 46:162-168, 2011.
16. Haddow JE: Preventing, identifying and managing thyroid deficiency in prenatal practice. *Expert Rev Obstet Gynecol*, 8:213-222, 2013.

#### CORPORATE AUTHORSHIP OR MULTICENTER TRIALS:

1. Amniotic fluid acetylcholinesterase electrophoresis as a secondary test in the diagnosis of anencephaly and open spina bifida in early pregnancy. *Lancet*, ii:321, 1981.
2. Effects of neonatal screening for hypothyroidism: Prevention of mental retardation by treatment before clinical manifestations. *Lancet*, ii:1095, 1981.
3. Maternal serum prostate-specific antigen and Down syndrome in the first and second trimesters of pregnancy. *Prenat Diagn*, 19:674-676, 1999.
4. SP1 in pregnancies with Down's syndrome in the first trimester of pregnancy. *Prenat Diagn*, 19:517-520, 1999.

#### PUBLICATIONS SUBMITTED OR IN PREPARATION:

##### ABSTRACTS (represents partial list):

1. Page L, Haddow JE: Adrenal 3beta-hydroxysteroid dehydrogenase enzyme defect. Proc. Second Annual Maine Biomed. Symposium, July 8-10, 1976.
2. Haddow JE, Barbarow B, Aldrich N: Development of the alpha<sub>1</sub>-fetoprotein assay for diagnosing fetal neural tube defects. Proc. Second Annual Maine Biomed. Symposium, July 8-10, 1976.
3. Thompson DK, Haddow JE: Serial monitoring of alpha<sub>1</sub>-fetoprotein in selective tumors. Proc. Second Annual Maine Biomed. Symposium, July 8-10, 1976.
4. Stevens J, Ritchie RF, Haddow JE: A pregnancy-associated protein with potential use in cancer diagnosis. Proc. Second Annual Maine Biomed. Symposium, July 8-10, 1976.

5. Chute A, Augur E, Dubeau A, Haddow JE: Laboratory analysis of hemophilia A carriers in Maine. Proc. Second Annual Maine Biomed. Symposium, July 8-10, 1976.
6. Haddow JE, Macri JN, Munson ME, Baldwin P, Ritchie RF: The second trimester normal amniotic fluid protein levels as determined in the automated immunoprecipitin system. Proc. Seventh Technicon International Congress, December 13-15, 1976.
7. Hostetter MK, Levy HL, Haddow JE: Alpha-fetoprotein (AFP) elevation preceding hypertyrosinemia in hereditary tyrosinemia. *Soc Pediat Res*, April, 1980.
8. Haddow JE, Miller WA: False positive alpha-fetoprotein (AFP) values in amniotic fluid samples - how many lead to termination. The American Society of Human Genetics, 31st Annual Meeting, New York City, September 24-27, 1980.
9. Goldfine C, Haddow JE, Hudson GA, Miller WA: Prenatal diagnosis of neural tube defects: Gel acetylcholinesterase analysis combined with densitometry. The American Society of Human Genetics, 32nd Annual Meeting, Dallas, Texas, October, 1981.
10. Goldfine CC, Miller WA, Haddow JE: Characterization of open fetal lesions by their gel cholinesterase densities. The American Society of Human Genetics, 33rd Annual Meeting, 1982.
11. Haddow JE, Goldfine C: The evolving role of amniotic fluid acetylcholinesterase analysis for identifying open fetal defects during the second trimester. The National Foundation -- March of Dimes Annual Meeting, Albany, New York, October, 1983.
12. Knight GJ, Haddow JE, Palomaki GE, Kloza EM: Cotinine vs. self-reported cigarette consumption as predictors of birthweight (APS-SPR Meeting), May 6-9, 1985.
13. Haddow JE, Hill LE, Kloza EM, Thanhauser D: Neural tube defects following gastric bypass procedures. 7th International Congress of Human Genetics, W. Berlin, September 22-26, 1986.
14. Knight GJ, Palomaki GE, Holman MS, Haddow JE: External quality assessment of laboratories performing AFP screening. American Public Health Association, 114th Annual Meeting. Las Vegas, Nevada, September 28-October 2, 1986.
15. Biber A, Scherer G, Hoepfner I, Adlkofer F, Haddow JE, Knight GJ: Determination of nicotine and cotinine in human serum and urine: An interlaboratory study. International Exp. Toxicology Symposium on Passive Smoking, Essen, West Germany, October 23-25, 1986.
16. Canick JA, Knight GJ, Palomaki GE, Haddow JE, Cuckle HS, Wald NJ: Low second trimester maternal serum unconjugated estriol in Down syndrome pregnancies. *Am J Hum Genet Suppl*, 41:a269, 1987.
17. Canick JA, Sung J, Singer DB, Knight GJ, Palomaki GE, Haddow JE, Cuckle HS, Wald NJ: Second trimester maternal serum estriol, progesterone, SP1, and alpha-fetoprotein in Down syndrome pregnancy: Relationship to fetal adrenal, fetal liver, and placental mass. Endocrine Society Meeting, 1988.
18. Steinort K, Knight GJ, Haddow JE, Palomaki GE: Biochemical measurements and passive tobacco smoke exposure. Fourteenth Annual Maine Biological and Medical Symposium, May, 1988.
19. Klein RZ, Haddow JE, Faix JD, Brown RS, Pulkkinen A, Mitchell ML: Incidence of thyroid deficiency in pregnancy. 10th International Thyroid Congress, Jerusalem, Israel, Abstract, 1990.
20. Chilmonczyk BA, Knight GJ, Williams J, Pulkkinen AJ, Palomaki GE, Haddow JE: Urinary cotinine to evaluate passive smoke exposure in infancy. Society for Pediatric Research, 1989.
21. Greenberg F, Faucett WA, Rose E, Alpert E, Bancalari L, Kardon NB, Mizjewski G, Knight GJ, Haddow JE: Congenital deficiency of alpha-fetoprotein. Society for Pediatric Research, 1989.
22. Johnson AM, Palomaki GE, Haddow JE: Adjustment of maternal serum alpha-fetoprotein (MSAFP) levels for race and for maternal weight in screening for fetal open spina bifida: A United States collaborative study. American Society of Human Genetics, November 12-15, 1989.
23. Canick JA, Stevens LD, Abell KB, Panizza DS, Osathanondh R, Knight GJ, Palomaki GE, Haddow JE: Second trimester maternal serum unconjugated estriol and human chorionic gonadotropin in pregnancies affected with fetal Trisomy 18, anencephaly, and open spina bifida. American Society of Human Genetics, November 12-15, 1989.
24. Haddow JE, Foss KC, Knight GJ, Blitzer MG, Fenske M: The significance of very faint pseudocholinesterase bands in amniotic fluid samples analyzed by gel electrophoresis. American Society of Human Genetics, November 12-15, 1989.

25. Knight GJ, Palomaki GE, Haddow JE, Johnson AM, Osathanondh R, Canick JA: Maternal serum levels of the placental products hCG, hPL, SP1, and progesterone are all elevated in cases of fetal Down syndrome. American Society of Human Genetics, November 12-15, 1989.
26. Donnenfeld AE, Pulkkinen AJ, Palomaki GE, Knight GJ, Haddow JE: Serum cotinine levels in non-pregnant adult smokers, pregnant mothers who smoke, and exposed fetuses. American Society of Human Genetics, November 12-15, 1989.
27. Faucett WA, Greenberg F, Rose E, Alpert E, Bancalari L, Kardon NB, Mizjewski G, Knight G, Haddow JE: Congenital deficiency of alpha-fetoprotein. American Society of Human Genetics, November 12-15, 1989.
28. Knight GJ, Haddow JE, Palomaki GE: Epidemiological studies of smoking and birthweight using a biochemical marker. Bingham Consortium for Health Research, October, 1989.
29. Haddow JE, Hitchcock JL, Knight GJ, Kloza EM, Palomaki GE, Wald NJ: Cotinine-assisted intervention with smoking by pregnant women. Bingham Consortium for Health Research, October, 1989.
30. Palomaki GE, Haddow JE, Knight GJ: Maternal serum screening for Down syndrome in early pregnancy. Bingham Consortium for Health Research, October, 1989.
31. Craig WY, Palomaki GE, Haddow JE: Cigarette smoking and serum lipid and lipoprotein levels in adults and in the 8-19 year age group: An analysis of published data. Bingham Consortium for Health Research, October, 1989.
32. Klein RZ, Haddow JE, Faix JD, Brown RS, Pulkkinen A, Mitchell ML: Incidence of thyroid deficiency in pregnancy. The American Pediatric Society, Abstract, 1990.
33. Haddow JE, Palomaki GE, Knight GJ, Williams JR, Beauregard LJ: The effect of maternal weight adjustment on screening for Down syndrome using maternal serum alpha-fetoprotein and age. *Am J Hum Genet*, 49(Suppl):222, 1991.
34. Palomaki GE, Knight GJ, Haddow JE, Canick JA, Saller DN, Panizza DS, Grant SS, Wenstrom KD, Hudson JD: Prospective trial of a screening protocol to identify Trisomy 18 using maternal serum alpha-fetoprotein, unconjugated estriol, and human chorionic gonadotropin. 8th International Congress of Human Genetics, *Am J Hum Genet*, 49(Suppl):227, 1991.
35. Beauregard LJ, Palomaki GE, Williams JR, Haddow JE: The pattern of prenatal screening and diagnosis of Down syndrome in Maine: 1980 to 1989. 8th International Congress of Human Genetics, *Am J Hum Genet*, 49(Suppl):210, 1991.
36. Rose NC, Palomaki GE, Haddow JE, Giardine R, Mennuti MT: The effect of maternal weight adjustment on MSAFP screening for Down syndrome in women age 35 and older. 8th International Congress of Human Genetics, *Am J Hum Genet*, 49(Suppl):216, 1991.
37. Rose NC, Palomaki GE, Haddow JE, Senior M, Mennuti MT: The effect of maternal race on maternal serum and amniotic fluid alpha-fetoprotein (AFP) measurements. 8th International Congress of Human Genetics, *Am J Hum Genet*, 49(Suppl):225, 1991.
38. Rose NC, Palomaki GE, Haddow JE, Mennuti MT: Maternal serum alpha-fetoprotein (MSAFP) screening for Down syndrome in women age 35 and older. 8th International Congress for Human Genetics, *Am J Hum Genet*, 49(Suppl):229, 1991.
39. Simpson JL, Palomaki GE, Elias S, Haddow JE, Andersen R, Brownlee M: Correlation between second and third trimester maternal serum alpha fetoprotein (MSAFP). Society for Gynecologic Investigation, 1991.
40. Rose NC, Palomaki GE, Knight GJ, Pulkkinen A, Haddow JE, Donnenfeld AE, Cohen AW, Mennuti MT: Second trimester diurnal variation of MSAFP, hCG, and uE3: Is it present and does it effect prediction of a patient's risk for fetal Down syndrome? Clinical and Molecular Cytogenetics of Developmental Disorders Conference, July 1992.
41. Haddow JE, Palomaki GE, Knight GJ, Cunningham GC, Lustig L, Boyd P: Prenatal screening to reduce the need for amniocentesis in women age 35 and older. *Am J Hum Genet*, 53:a4, 1993.
42. Haddow JE, Palomaki GE, Knight GJ: First trimester screening for Down syndrome using biochemical and ultrasound markers. *Am J Hum Genet*, 59:A41, 1996.
43. Miller WA, Nee H, Hayes A, Crawford D, Johnson A, Haddow JE: Interpretation of molecular testing in low risk pregnancies: A counseling dilemma. *Am J Hum Genet*, 59:A170, 1996.

44. Palomaki GE, Knight GJ, Fodor KK, Haddow JE: Second trimester screening performance of free b-subunit versus hCG on a population with complete ascertainment of Down syndrome. *Am J Hum Genet*, 59:A327, 1996.
45. Palomaki GE, Neveux LM, Knight GJ, Haddow JE: Maternal weight and first trimester Down syndrome screening. *Am J Hum Genet*, 61:A160, 1997.
46. Palomaki GE, Bradley LA, Doherty RA, Haddow JE: Prenatal screening for cystic fibrosis (CF): Is it cost effective for all racial/ethnic groups? *Am J Hum Genet*, 61:A19 1997.
47. Palomaki GE, Bradley LA, Richards CS, Grody WW, Stenzel TT, Haddow JE: Estimating analytic validity for *HFE* Testing in the General Population. American College of Medical Genetics, San Diego, CA, March, 2003.
48. Palomaki GE, FitzSimmons SC, Bradley LA, Haddow JE: Prenatal screening for cystic fibrosis: Clinical validity in the selected racial/ethnic groups. American College of Medical Genetics, San Diego, CA, March, 2003.
49. Bradley LA, Palomaki GE, Hyman D, Richards CS, Haddow JE: Prenatal cystic fibrosis (CF) screening: barrier to demonstrating clinical validity and utility in practice. American College of Medical Genetics, San Diego, CA, March, 2003.
50. Palomaki GE, Grosse SD, Haddow JE: The financial cost of prenatal screening for cystic fibrosis in the United States. American College of Medical Genetics, San Diego, CA, March, 2003.
51. Palomaki GE, Haddow JE, Knight GJ: Within-person variability of TSH, free T4, and TPO antibodies between the first and second trimesters in viable pregnancies. Scientific Workshop on Maternal Thyroid Disease. Centers for Disease Control, Atlanta, Ga. January 12-13, 2004.
52. Craig, WY, Palomaki GE, Neveux LM, Haddow JE: High Second Trimester Body Mass Index and Offspring Neurocognitive Development. Annual meeting of the Endocrine Society, San Francisco, CA, June 17, 2013

#### PEER-REVIEWED

1. DNA Testing Standards: The ACCE Project, a model system to assess the availability, quality, and usefulness of existing data on DNA-based tests and testing algorithms. [www.fbr.org/research/acce-cdc/cdcacce-dd.html](http://www.fbr.org/research/acce-cdc/cdcacce-dd.html) and [www.cdc.gov/genomics/info/reports/research/FBR/ACCE.htm](http://www.cdc.gov/genomics/info/reports/research/FBR/ACCE.htm)

#### INVITED PRESENTATIONS (representative partial list):

1. Haddow JE: A projected analysis of costs in the Maine neural tube defect screening program. First Scarborough Conference on Screening for Neural Tube Defects in the United States (Scarborough, Maine), September 6-8, 1977.
2. Haddow JE: A pilot project aimed at developing statewide neural tube defect screening in Maine. First Scarborough Conference on Screening for Neural Tube Defects in the United States (Scarborough, Maine), September 6-8, 1977.
3. Haddow JE: Informed consent and patient education. First Scarborough Conference on Screening for Neural Tube Defects in the United States (Scarborough, Maine), September 6-8, 1977.
4. Haddow JE: Amniotic fluid proteins in relation to low birthweight/prematurity. Second Scarborough Conference on Screening for Neural Tube Defects in the United States (Scarborough, Maine), September 5-7, 1978.
5. Haddow JE: Cotinine measurements to study people's smoking habits. Fourth Scarborough Conference on Preventive Medicine (Scarborough, Maine), September 15-17, 1984.
6. Haddow JE: The WHO position. Fourth Scarborough Conference on Preventive Medicine (Scarborough, Maine), September 15-17, 1984.
7. Haddow JE: Serum cotinine as a marker of cigarette smoking during pregnancy. New England Pediatric Society Meeting (Scarborough, Maine), June 23, 1984.
8. Haddow JE: Biochemical epidemiology as applied to assessing pregnancy risk. University of Vermont, Department of Pediatrics (Burlington), October 17, 1984.
9. Haddow JE: Biochemical markers to assess passive smoking. Invited presentation to National Academy of Science (Washington, D.C.), October 4, 1985.



10. Haddow JE: Numbers of cigarettes smoked, serum cotinine, and birthweight. Seminar, Department of Environmental & Preventive Medicine, Medical School of St. Bartholomew's Hospital (London), April 28, 1985.
11. Haddow JE: Prenatal screening for Down syndrome. Invited presentation to Dartmouth Hitchcock Medical Center, May 28-29, 1986.
12. Haddow JE: Disorders of brain development and cognition: Prevention of mental retardation. Harvard Postgraduate Course, May, 1988.
13. Haddow JE: Experience from the ACCE Project. Workshop, Public Health Assessment of Genetic Testing. Centers for Disease Control, Atlanta, Georgia. February 28, 2003.
14. Haddow JE: Short Course, Essentials of Prenatal Screening. Foundation for Blood Research, Scarborough, Maine. Annual presentations, 1985-2005. Presenter of the following at the 2005 course, September 11-15, 2005:
  - Major defects identified by open neural tube defect (ONTD) screening
  - The effect of ultrasound on ONTD screening
  - Morbidity and mortality associated with Down syndrome
  - Impact of Down syndrome screening on birth prevalence
  - Undetectable estriol levels, including SLOS
15. Haddow JE: Criteria for screening. Scientific Workshop on Maternal Thyroid Disease. Centers for Disease Control, Atlanta, Georgia, January 12-13, 2004.
16. Haddow JE: Intensive Short Course on Down's Syndrome Screening, Wolfson Institute of Preventive Medicine, London, England, annually 1991-2011. Presenter of the following:
  - What is screening?
  - Other aneuploidies in Down's syndrome screening programmes (including Trisomy 18)
  - Very low uE3 including Smith Lemli Opitz syndrome
  - Screening for hypothyroidism in pregnancy
  - Screening programme aspects
17. Haddow JE: Disorder/setting: a cornerstone for ACCE evaluation. Public Health Assessment of Genetic Tests for Screening & Prevention. Office of Genomics and Disease Prevention. Centers for Disease Control (CDC) and Foundation for Blood Research, Atlanta Georgia. September 27-28, 2004.
18. Haddow JE: The US pilot trial on integrated serum screening. Wolfson Institute for Preventive Medicine. London, England, October 7, 2004.
19. Haddow JE: Components of Evaluation. Describing the Disorder, Test, and Setting. Expert Meeting on Evidence-Based Review of Genomic Applications. Westin Peachtree Plaza Hotel, Atlanta, GA, January 24-25, 2005.
20. Haddow JE: Public Health Assessment of Genetic Tests for Screening and Prevention. 24<sup>th</sup> Annual Education Conference. National Society of Genetic Counselors, Inc. The Westin Century Plaza Hotel, Los Angeles, CA, November 12, 2005.
21. Haddow JE: Hypothyroidism. Postgraduate Course: Human Teratogens, Harvard Medical School, Department of Continuing Education, Boston, MA, April 2-4, 2006.
22. Haddow, JE: Thyroid Hormone and Public Health. The Teratology Society, Loews Ventana Canyon Resort, Tucson, AZ, June 24-29, 2006.
23. Haddow JE: Short Course, Essentials of Prenatal Screening. Women & Infants Hospital, Providence, Rhode Island. Presenter of the following at the 2006 course, September 17-20, 2006:
  - Major defects identified by open neural tube defect (ONTD) screening
  - The effect of ultrasound on ONTD screening
  - Morbidity and mortality associated with Down syndrome
  - Impact of Down syndrome screening on birth prevalence
  - Undetectable estriol levels, including SLOS
24. Haddow JE: Short Course, Essentials of Prenatal Screening. Women & Infants Hospital, Providence, Rhode Island. Presenter of the following at the 2007 course, October 11-14, 2007:
  - Major defects identified by open neural tube defect (ONTD) screening
  - The effect of ultrasound on ONTD screening
  - Morbidity and mortality associated with Down syndrome

Impact of Down syndrome screening on birth prevalence  
Undetectable estriol levels, including SLOS

25. James Haddow, M.D. attended the EGAPP Working Group meeting at the CDC September 30-October 1, 2008, in Atlanta, Georgia.
26. Haddow JE: Short Course, Essentials of Prenatal Screening. Women & Infants Hospital, Providence, Rhode Island. Presenter of the following at the 2009 course, April 3-6, 2009:
  - Major defects identified by open neural tube defect (ONTD) screening
  - The effect of ultrasound on ONTD screening
  - Morbidity and mortality associated with Down syndrome
  - Impact of Down syndrome screening on birth prevalence
  - Undetectable estriol levels, including SLOS
27. James Haddow, M.D. attended the EGAPP Working Group meeting at the CDC February 2-3, 2009, in Atlanta, Georgia.
28. James Haddow, M.D. attended Short Course, Essentials of Prenatal Screening. Women & Infants Hospital, Providence, Rhode Island. Presenter of the following at the 2009 course, April 3-6, 2009:
  - Major defects identified by open neural tube defect (ONTD) screening; The effect of ultrasound on ONTD screening; Morbidity and mortality associated with Down syndrome; Impact of Down syndrome screening on birth prevalence; Undetectable estriol levels, including SLOS.
29. James Haddow, M.D. presented the talk entitled: *Impact of Maternal and Fetal Hypothyroidism on Child IQ and Other Development (Including Timing During Gestation)*, at the American Thyroid Association 2009 Spring Symposium: Thyroid Dysfunction and Pregnancy: Miscarriage, Preterm Delivery and Decreased IQ. Washington, DC., April 17, 2009.
30. James Haddow, M.D., presented the talk entitled: *Thyroid Deficiency. Human Teratogens: Environmental Factors Which Cause Birth Defects*. Offered by the Mass General Hospital. April 26, 2009.
31. James Haddow, M.D., attended the Intensive Short Course on Down's Syndrome Screening, Wolfson Institute of Preventive Medicine, London, England, May 2009. He presented the following: What is screening? Other aneuploidies in Down's syndrome screening programmes (including Trisomy 18). Very low uE3 including Smith Lemli Opitz syndrome. Screening for hypothyroidism in pregnancy. Screening programme aspects.
32. James Haddow, M.D. attended the EGAPP Working Group meeting at the CDC June 15-16, 2009, in Atlanta, Georgia.
36. James E. Haddow, M.D. attended the NIH State-of-the-Science Conference on Family History and Improving Health, August 24-26, 2009 in Bethesda, Maryland. He presented a talk entitled: *"The Potential Costs of Screening for Risk with Family History"*.
37. Haddow JE: Short Course, Essentials of Prenatal Screening. Women & Infants Hospital, Portland, Maine. Presenter of the following at the 2010 course, March 19-22, 2010:
  - Major defects identified by open neural tube defect (ONTD) screening
  - The effect of ultrasound on ONTD screening
  - Morbidity and mortality associated with Down syndrome
  - Impact of Down syndrome screening on birth prevalence
  - Undetectable estriol levels, including SLOS
38. Haddow JE: Short Course, Essentials of Prenatal Screening. Women & Infants Hospital, Portland, Maine. Presenter of the following at the 2011 course, September 23-26, 2011:
  - Major defects identified by open neural tube defect (ONTD) screening
  - The effect of ultrasound on ONTD screening
  - Morbidity and mortality associated with Down syndrome
  - Impact of Down syndrome screening on birth prevalence
  - Undetectable estriol levels, including SLOS

38. Haddow JE: Short Course, Essentials of Prenatal Screening. Women & Infants Hospital, Portland, Maine. Presenter of the following at the 2012 course, September 7-10, 2012:
  - Major defects identified by open neural tube defect (ONTD) screening
  - The effect of ultrasound on ONTD screening
  - Morbidity and mortality associated with Down syndrome
  - Impact of Down syndrome screening on birth prevalence
  - Undetectable estriol levels, including SLOS
39. Haddow JE: Intensive Short Course on Down's Syndrome Screening, Wolfson Institute of Preventive Medicine, London, England, May 20-22, 2013. Presenter of the following:
  - Key points in screening?
  - The detection of other fetal abnormalities in Down's syndrome screening programmes
  - Bringing in the new technology: the importance of a population based strategy
40. Haddow JE: Short Course, Essentials of Prenatal Screening. Women & Infants Hospital, Portland, Maine. Presenter of the following at the 2014 course, April 6-9, 2014:
  - Background and Introduction
  - Principles of Screening I
  - Major Defects Identified by ONTD Screening
  - Morbidity and Mortality: Down syndrome, T18/13
  - Morbidity and Mortality: Sex Aneuploidies
41. Haddow JE: Wolfson Institute Intensive Course, London, England, May 19-20, 2015.
  - Medical Screening: Definition and Checklist
  - Is there a justification for antenatal screening for sex chromosome aneuploidies?
  - Who is driving the application of DNA testing?

#### GRANTS:

1. Project Title: Reducing Mercury Toxicity with Spironolactone
  - Funding Agency: Hood Foundation
  - Funding Amount: \$25,000
  - Dates: 1970-1971
  - PI: James E. Haddow, M.D.
2. Project Title: Counseling and Testing for Neural Tube Defects
  - Funding Agency: Developmental Disabilities Council, State of Maine
  - Funding Amount: \$36,000
  - Dates: 10/76-9/80
  - PI: James E. Haddow, M.D.
3. Project Title: Intervention to Reduce Smoking During Pregnancy
  - Funding Agency: National Institute of Child Health and Human Development, NIH
  - Funding Amount: \$333,833
  - Dates: 2/1/1984 - 1/31/1988
  - PI: James E. Haddow, M.D.
4. Project Title: Prenatal Screening to Reduce Amniocentesis over Age 35
  - Funding Agency: Maternal/Child Health Bureau, US Department of Health and Human Services
  - Funding Amount: \$904,473
  - Dates: 6/1/90-5/31/92
  - PI: James E. Haddow, M.D.
5. Project Title: First Trimester Prenatal Screening for Down Syndrome
  - Funding Agency: National Institute of Child Health and Human Development, NIH
  - Funding Amount: \$1,010,525
  - Dates: 12/1/93-11/30/96
  - PI: James E. Haddow, M.D.

6. Project Title: DNA and Biochemical Markers of Hemochromatosis  
Funding Agency: Davis Family Foundation  
Funding Amount: \$12,500  
Dates: 1997  
PI: James Haddow, M.D.
7. Project Title: Development of Guidelines for Validation of Genetic Tests  
Funding Agency: Massachusetts Health Research Institute (MHRI)  
Funding Amount: \$17,194  
Dates: 10/1/96-9/30/97  
PI: James Haddow, M.D.
8. Project Title: Is Maternal Hypothyroidism Associated with Low IQ in Offspring?  
Funding Agency: Thrasher Research Fund  
Funding Amount: \$100,835  
Dates: 10/1/95 - 9/30/97  
PI: James E. Haddow, M.D.
9. Project Title: Is Maternal Hypothyroidism Associated with Low IQ in Offspring?  
Funding Agency: Knoll Pharmaceutical Company  
Funding Amount: \$100,000  
Dates: 10/1/95-9/30/97  
PI: James E. Haddow, M.D.
10. Project Title: Is Maternal Hypothyroidism Associated with Low IQ in Offspring?  
Funding Agency: Knoll Pharmaceutical Company  
Funding Amount: \$12,650  
Dates: 1997  
PI: James E. Haddow, M.D.
11. Project Title: Delivery of Genetic Services in Maine - Enhancing the Role of PCP  
Funding Agency: Maternal/Child Health Bureau, US Department of Health and Human Services  
Funding Amount: \$392,000  
Dates: 10/1/94-9/30/97  
PI: James E. Haddow, M.D.
12. Project Title: Epidemiologic Approach to EHS in High School Biology  
Funding Agency: National Center for Research Resources, NIH  
Funding Amount: \$328,672  
Dates: 10/1/97-9/30/00  
PI: James E. Haddow, M.D.
13. Project Title: Developing Processes for Evaluating DNA Tests  
Funding Agency: Centers for Disease Control and Prevention  
Funding Amount: \$766,134  
Dates: 9/30/00-9/29/04  
PI: James E. Haddow, M.D.
14. Project Title: Hepatocellular Carcinoma and Hemochromatosis  
Funding Agency: Centers for Disease Control and Prevention  
Funding Amount: \$63,500  
Dates: 2003  
PI: James E. Haddow
15. Project Title: Are IQs Low in Offspring of Euthyroid Women with Low T4?  
Funding Agency: National Institute of Child Health and Human Development, NIH  
Funding Amount: \$1,194,750  
Dates: 2/1/04-1/31/09  
PI: James E. Haddow, M.D.

16. Project Title: Feasibility of Prenatal Screening for SLO Syndrome  
 Funding Agency: National Institute of Child Health and Human Development, NIH  
 Funding Amount: \$4,392,769  
 Dates: 4/1/00-3/31/05  
 PI: James E. Haddow, M.D.
17. A Model Statewide Trial to Detect and Treat Maternal Hypothyroidism in Pregnancy  
 Funding Agency: Centers for Disease Control and Prevention  
 Funding Amount: \$1,349,904  
 Dates: 4/1/08-3/31/11  
 PI: James E. Haddow, M.D.

UNIVERSITY TEACHING ROLES: N/A

HOSPITAL TEACHING ROLES:

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|-----------|---|
| 1966-1974 | Supervised training of Pediatric Residents on rotation through the Clinical Research Unit of Boston City Hospital and led ward rounds for 3 months/year.  |
| 1970-1974 | Director, Medical Student Teaching in Pediatrics, Boston University School of Medicine. Duties included supervising and participating in formal teaching of an average of 10 fourth year medical students/month at Boston City Hospital and giving lectures to first and second year medical students at Boston University Medical School. Hospital teaching of students and house staff involved endocrinology and metabolism with emphasis on fluid and electrolyte balance. Medical School teaching focused on inherited errors of metabolism such as PKU. |
| 1974-1980 | Supervised clinical research projects for selected residents in Pediatrics and Medicine at Maine Medical Center.  |