in accordance with the Freedom of Information

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### **MATERIALS LICENSE**

Amendment No. 68

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

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Licensee  1 Department of the Army Walter Reed Army Medical Center (WRAMC)		In accordance with the letter dated January 22, 1996, 3. License Number 08-01738-02 is amended in its entirety to read as follows:		
<sup>2</sup> . Washington, D.C. 20307-5001		4. Expiration Date	June 30, 2004	
		5. Docket or Reference No.	030-01317	
6. Byproduct, Source, and/or Special Nuclear Material	7. Chemical and Form	or Physical	8. Maximum Amount that Licensee May Possess at Any One Time Under This License	
A. Any byproduct material with atomic numbers 1-83	A. Any	· .	A. 400 millicuries of each radionuclide with a total possession limit of 26	
B. Iodine 131	B. Any	•	curies B. 2 curies	
C. Xenon 133	C. Any		C. 2 curies	
D. Krypton 85	D. Any		D. 1 curie	
E. Phosphorus 32	E. Any		E. 2 curies	
F. Carbon 14	F. Any		F. 2 curies	
G. Iodine 125	G. Any		G. 1 curie	
H. Iridium 192	H. Any		$\mathcal{L} = \{\mathbf{H}_{\bullet}\}_{\bullet}^{\bullet}$ . Since $\mathcal{L} = \{\mathbf{L}_{\bullet}\}_{\bullet}^{\bullet}$ , we have	
1. Chromium 51	I. Any		I. 750 millicuries	
J. Sulfur 35	J. Any		J. 1 curie	
K. Hydrogen 3	K. Any		K. 5 curies	
L. Molybdenum 99	L. Molybdeni		L. 23 curies	
	Techneti			
	Generator	rs		
	M. Any	•	M. 23 curies	
N. Strontium 90	N. Sealed so		N.	
O. Cesium 137	O., Sealed so	ources	0.	
P. Gadolinium 153	P. Sealed so	, , , , , , , , , , , , , , , , , , ,	D 'è	
Q. Iodine 125	Q. Sealed so		P. Q. 500 millicuries	
Q: 10d me 125		any seeds)	q. 500 millicuries	
R. Iodine 125	R. Sealed so		R. 4 sources, not to exceed	
N. Iodine 120		Inst. Co.,	300 millicuries each	
		BA591A or AECL	ood militadi ios cacii	
		235 or C324, or	•	
		Corp. Model		
Information in this record was deleted	2,101127	· .	0/	

- 10. Location of use: Walter Reed Army Medical Center, Washington, D. C.; WRAMC Forest Glen Section and Annex, Silver Spring, Maryland; Walter Reed Army Institute of Research Animal Holding Facility, Fort Meade, Maryland; U.S. Army Medical Laboratory, WRAMC Department of Pathology, Fort Meade, Maryland; and U.S. Army Institute of Dental Research Facility, Fort Meade, Maryland; Rickman Building, 13 Taft Court, Rockville, Maryland and Gillette Building, 270 Research Center, 1413 Research Boulevard, Rockville, Maryland.
- 11. A. Licensed material shall be used by, or under the supervision of, individuals designated in writing by the Radiation Safety Committee, Colonel John R. Pierce, Chairperson.
  - B. The use of licensed material in or on humans shall be by a physician, dentist, or podiatrist as defined in 10 CFR 35.2.



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MATERIALS LICENSE SUPPLEMENTARY SHEET

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- C. Physicians, dentists, or podiatrists designated to use licensed material in or on humans shall meet the training criteria established in 10 CFR 35, Subpart J and shall be designated in writing by the licensee's Radiation Safety Committee.
- D. The Radiation Safety Officer for this license is Colonel William B. Johnson.
- 2. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material at a single location to quantities below the limits specified in 10 CFR 30.72 which require consideration of the need for an emergency plan for responding to a release of licensed material.
- 13. Notwithstanding the requirements of 10 CFR 35.49(a) and (b), 35.100, 35.200, 35.300, 35.400 and 35.500 the licensee may use for any medical use any byproduct material or reagent kit. The licensee shall possess and use byproduct material for medical use in accordance with the prescriptive and performance criteria in the other sections of 10 CFR 35. This does not relieve the licensee from complying with applicable U.S. Food and Drug Administration (FDA) and other Federal and State requirements.
- 14. A. Detector cells containing a titanium tritide foil or a scandium tritide foil shall only be used in conjunction with a properly operating temperature control mechanism which prevents the foil temperatures from exceeding that specified in the certificate of registration referred to in 10 CFR 32.210.
  - B. When in use, detector cells containing a titanium tritide foil or a scandium tritide foil shall be vented to the outside.
- 15. The licensee shall conduct a physical inventory every three months to account for all sealed sources and devices containing licensed material received and possessed pursuant to 10 CFR 35.59, 35.400 and 35.500 and every six months for all other sealed sources and devices.
- 16. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.
  - B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.
  - C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
  - D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.

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## MATERIALS LICENSE SUPPLEMENTARY SHEET

- E. Sealed sources and detector cells need not be leak tested if:
  - (i) they contain only hydrogen-3; or
  - (ii) they contain only a radioactive gas; or
  - (iii) the half-life of the isotope is 30 days or less; or
  - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
    - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source or detector cell involved, the test results, and corrective action taken.
- G. The licensee is authorized to collect leak test samples for analysis by the licensee. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
- 17. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
- 18. The licensee is authorized to hold radioactive material with a physical half-life of less than 65 days and Sulfur 35, Cobalt 58, Iridium 192, Scandium 46, for decay-in-storage before disposal in ordinary trash, provided:
  - A. Waste to be disposed of in this manner shall be held for decay a minimum of ten half-lives.
  - B. Before disposal as ordinary trash, the waste shall be surveyed at the container surface with the appropriate survey instrument set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.

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- A record of each such disposal permitted under this License Condition shall be С. retained for three years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
- Experimental animals, or the products from experimental animals, that have been administered licensed materials shall not be used for human consumption.
- 20. The licensee shall possess and use byproduct material for human research in accordance with the prescriptive and performance criteria in all sections of 10 CFR Part 35 except sections 35.49(a) and (b), 35.100, 35.200, and 35.300.
- 21. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
- 22. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.
- 23. Radioactive waste generated shall be stored in accordance with the statements, representations, and procedures included with the waste storage plan described in the licensee's letter/application dated September 9, 1993 and October 29, 1993.
- Notwithstanding the requirements of 10 CFR 35.315(a)(7), the licensee may control 24. contamination in rooms used to house radiopharmaceutical therapy patients in accordance with the commitments and procedures contained in the letters dated April 8, 1992 and November 24, 1992.
- 25. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below, except for minor changes in the medical use radiation safety procedures as provided in 10 CFR 35.31. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

Ву

- Application dated January 21, 1993 Α.
- Letter dated September 9, 1993 В.
- С. Letter dated October 29, 1993
- Letter dated December 9, 1993 D.
- Ε. Letter dated February 15, 1994
- Letter dated June 2, 1994

May	28	1996
MAI	/ N	1996

Date

For the U.S. Nuclear Regulatory Commission

Original Signed By Tara Weidner

Nuclear Materials Safety Branch

Region I King of Prussia, Pennsylvania 19406 Colonel Eric G. Daxon, Ph.D., CHP
Department of the Army
Headquarters, U.S. Army Medical Command
Preventive Medicine and Wellness Division
2050 Worth Road\MCHO-CL-W
Fort Sam Houston, TX 78234-6000

Dear Colonel Daxon:

This refers to your license amendment request. Enclosed with this letter is the amended license. Please note that as part of this amendment, in accordance with 10 CFR 30.36, effective February 15, 1996, the expiration date of your license has been extended by a period of five years. Your new expiration date is stated in Item 4 of the license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

# Original Signed By Tara Weidner

Tara L. Weidner Division of Nuclear Materials Safety

License No. 08-01738-02 Docket No. 030-01317 Control No. 122993

Enclosure: Amendment No. 68

#### DOCUMENT NAME:

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

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NAME	TWeidner/tlw	J			
DATE	05/06/96	05/ /96	05/	/ /96	05/ /96

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## DEPARTMENT OF THE ARMY

HEADQUARTERS, U.S. ARMY MEDICAL COMMAND 2050 WORTH ROAD FORT SAM HOUSTON, TEXAS 78234-6000

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REPLY TO ATTENTION OF February 27, 1996

030-01317

Preventive Medicine and Wellness Division

U.S. Nuclear Regulatory Commission, Region I ATTN: Materials Licensing 475 Allendale Road King of Prussia, PA 1940-1415

Dear Sir or Madam:

Enclosed is a request from the Walter Reed Army Medical Center to amend U.S. Nuclear Regulatory Commission Byproduct Material License No. 08-01738-02.

If you have any questions or need any further assistance please do not hesitate to contact me at (210) 221-6612 or COL Johnson ar (301) 427-5161.

Sincerely

Eric G. Daxon, PhD, CHP

Colonel, U.S. Army

Radiation Protection Staff
Officer

Enclosure

Copies Furnished:

Commander, Walter Reed Army Medical Center, Attention: MCHL-H-HP, Washington, DC 20307-5001 (without enclosure)

Commander, U.S. Army Center for Health Promotion and Preventive Medicine, Attention: MCHB-MR-HM, Aberdeen Proving Ground, Maryland 21010-5422 (with enclosure)

122993



# DEPARTMENT OF THE ARMY WALTER REED ARMY MEDICAL CENTER WASHINGTON, DC 20307-5001



MCHL-H-HP (385-11m)

22 January 1996

MEMORANDUM FOR Commander, US Army Medical Command, ATTN: MCHO-CL-W/LTC(P) Daxon, 2050 Worth Road, Fort Sam Houston, Texas 78234-6000

SUBJECT: Request for Amendment of NRC Commission License Number 08-01738-02

- 1. Request that Nuclear Regulatory Commission License Number 08-01738-02 issued to Walter Reed Army Medical Center, Washington, D.C., be amended to appoint COL John R. Pierce as the new Chairman of the Radiation Control Committee. COL George J. Brown, the previous Chairman named on our License, has departed. COL John R. Pierce has replaced COL Brown. COL Pierce is the Deputy Commander for Clinical Services (DCCS). The DCCS position is a senior level executive management position, one level below the Commander, Walter Reed Army Medical Center (WRAMC). The members of the WRAMC Radiation Control Committee have reviewed COL Pierce's curriculum vitae, and have recommended his approval as Chairman. COL Brown's curriculum vitae are enclosed.
- 2. Any questions or comments pertaining to this request should be directed to COL William B. Johnson, Chief, Health Physics Office, Walter Reed Army Medical Center, Washington DC 20307-5001, at Commercial Phone (301) 427-5161 or DSN 291-5161.

FOR THE COMMANDER:

Encl as

JOE N. FLOWERS

2LT, MS

**Executive Officer** 

# CURRICULUM VITAE

#### PERSONAL DATA:

Name:

JOHN RANDALL PIERCE, M.D.

#### EDUCATION:

Undergraduate:

B.S. - David Lipscomb College,

Nashville, TN,

Postgraduate (Medical):

Medical School:

M.D. - University of Tennessee,

Memphis, TN,

Internship:

Tripler Army Medicar Center,

Honolulu, HI, 1 Jan - 31 Dec 72

Residency:

Pediatrics, Tripler Army Medical Center,

Honolulu, HI, July 73 - Jun 75

Fellowship:

Neonatology, Fitzsimons Army Medical

Center, Aurora, CO, Aug 77 - July 79

Postgraduate (Military):

Medical Effects of Nuclear Weapons - 1982

Combat Casualty Care Course - 1983 Command and General Staff College

(Commandant's List) - 1985 Medical Management of Chemical

Casualties - 1987

Interagency Institute for Federal Health

Care Executives - 1988

General Medical Officer, Atomic Energy Commission Surgery Team, Eniwetok Atoll, Trust Territories of the Pacific, Jan - Feb 1973

#### ACADEMIC APPOINTMENTS:

Associate Professor, Department of Pediatrics, Uniformed Services University of the Health Sciences, 1986 - present Assistant Professor (Affiliated), Department of Pediatrics, Uniformed Services University of the Health Sciences, 1981 - 1986 Assistant Clinical Professor, Department of Pediatrics, University of Colorado Center for Health Sciences, 1981 - 1985 Clinical Instructor, Department of Pediatrics, University of Colorado Center for Health Sciences, 1978 - 1981 Clinical Instructor, Department of Pediatrics, University of Hawaii, 1974 - 1975

# LEADERSHIP ACTIVITIES: BECAUSE AND ACTIVITIES

Chair, OB-GYN Program Director Search
Committee for National Capitol
Consortium OB-GYN Residency, 1995
President, Uniformed Services Chapter
East, American Academy of Pediatrics
1992 - present

Program Coordinator, 26th Uniformed Services Pediatric Seminar, 1992

Vice-President, Uniformed Services Chapter East, American Academy of Pediatrics 1988 - 1989

Chairman, Pediatric Specialty Group for the Development of a Military Unique Curriculum, Uniformed Services University of the Health Sciences,

286. - 1868. more annough 1987. - 1989 - 1989

TED-Executive Committee, Uniformed Services

LEGINEO TELL STAM Section American Academy of Pediatrics,

1980 1983 1983

Agres Achievement Nedsi - 1991

#### HOSPITAL COMMITTEE

Credentials Committee, Walter Reed Army Medical Center, 1992 - 1995 Chair 1995 - present Professional Education and Training Committee, Walter Reed Army Medical Center, 1992 - 1995 Chair 1995 - present Patient Care Assessment Committee, Walter Reed Army Medical Center, 1992 - 1995 Clinical Space Utilization Committee, Walter Reed Army Medical Center, 1992 - 1995 Education Committee, Fitzsimons Army Medical Center, 1979 - 1985

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#### HONORS:

U.S. Army Surgeon General's "A" Professional Designator, 1986 Order of Military Medical Merit, 1983 Selected Outstanding Staff, Department of Pediatrics by Intern Class, Fitzsimons Army Medical Center, 1982 Selected Outstanding Teacher, Department of Pediatrics by Intern Class, Fitzsimons Army Medical Center, Selected Outstanding Young Men of America, Andrew M. Margileth Award for Excellence in Clinical Investigation in Pediatrics, 14th Uniformed Services Pediatric Seminar, 1979

#### MILITARY AWARDS:

ាស្តាល់ក្រាល់ក្រល់ «១៤៤០។ »...

Legion of Merit - 1993 Meritorious Service Medal - 1985 Meritorious Service Medal (1st Oak Leaf Cluster) - 1990 Joint Service Commendation Medal - 1989 Army Commendation Medal - 1977 Cluster) - 1992 Army Achievement Medal - 1991

Army Achievement Medal (1st Oak Leaf Cluster) - 1993 - 1993 Army Achievement Medal (2nd Oak Leaf Cluster) - 1994 Army Achievement Medal (3nd Oak Leaf Cluster) - 1994 National Defense Medal - 1970, 1991 Humanitarian Service Medal - 1975 Reserve Service Medal - 1981 Overseas Service Ribbon - 1982 Army Service Ribbon - 1982

#### COMMUNITY ACTIVITIES:

#### PUBLICATIONS:

## Original Articles

- 1. Way GL, Pierce JR, Wolfe RR, et al: ST depression suggesting subendocardial ischemia in neonates with respiratory distress syndrome and patent ductus arteriosus, <u>Journal of Pediatrics</u> 95:609-611, 1979.
- 2. Pierce JR, Merenstein GB: Enteric duplication cyst, American Journal of Diseases of Children, 134:985-986, 1980.
- 3. Pierce JR, Blake WW, Kilbride HW: Developmental follow-up of military dependents requiring neonatal intensive care. <u>Military Medicine</u> 149:339-341, 1984.
- 4. Uniformed Services Perinatal-Infectious Disease Group-JR Pierce: Intravenous Immunoglobulin in neonatal group B streptococcal disease. American Journal of Medicine 76:117-121, 1984.
- 5. Pierce JR, Blake WW, Merenstein GB: Neonatal intensive care at Fitzsimons Army Medical Center. Military Medicine 149:555-560, 1984 -

- 6. Pierce JR, Merenstein GB, Stocker JT: Immediate post-mortem culture in an intensive care nursery. <u>Pediatric Infectious</u> <u>Disease</u> 3:510-513, 1984.
- 7. Arthur JD, Pierce JR: <u>Citrobacter Diversus</u> meningitis and brain abscess in a neonate associated with <u>Bacteroides</u>
  <u>Melaninogenicus</u>. <u>Pediatric Infectious Disease</u> 3:592-593, 1984.
- 8. Nelson SN, Merenstein GB, Pierce JR: Early onset group B streptococcal disease: Is it underdiagnosed? <u>Journal of Perinatology</u> 6:234-238, 1986.
- 9. Weisman LE, Fischer GW, Marinelli P, Hemming VG, Pierce JR, Golden S, Peck GC: Pharmacokinetics of intravenous immunoglobulin in neonates. <u>Vox Sanguinis</u> 57:243-248, 1989.
- 10. Callahan CW, Pierce JR: Health Care for the Children of Army Service Members: Cost of Alternatives. <u>Military Medicine</u> 156:186-189, 1991.
- 11. Pierce JR: The role of the Unites States Army active component pediatricians in Operations Desert Shield, Desert Storm and Provide Comfort. <u>Military Medicine</u> 158:105-108, 1993.

#### BOOK CHAPTERS:

- 1. Pierce JR and Turner BS; Physiologic Monitoring in A Handbook of Neonatal Intensive Care. Merenstein GB and Gardner SL, eds. St.Louis: C.V. Mosby Company, 1985 p. 97-110.
- 2. Pierce JR and Turner BS; Physiologic Monitoring in <u>A</u>

  Handbook of Neonatal Intensive Care. Merenstein GB and Gardner SL,
  eds. St. Louis: C.V. Mosby Company, 1989, p. 126-140.

#### ABSTRACTS:

- 1. Pierce JR, Merenstein GB: Streptococcal sudden unexpected death syndrome, (Abst) Clinical Research 27:128A, 1979.
- 2. Kilbride HW, Pierce JR, Merenstein GB: A method for following intranursery and internursery mortality trends, (Abst) Clinical Research 29(1):118A, 1981.
- 3. Weisman LE, Tunnel S, Stocker T, Pierce JR: Self-limited Hirschsprung's like disease in a very low-birth weight neonate (Abst). March of Dimes Birth Defects Conference, June, 1981.



- 4. Weisman LE, Fischer GW, Pierce JR et al: Intravenous immunoglobulin therapy in the neonate: A study of pharmokinetics and safety, (Abst) Pediatric Research 17:341A, 1983.
- 5. Jannuzzi PJ, Weisman LE, Pierce JR, Garcia V: Abdominal wall erythema associated with Hirschprung's disease, (Abst) 19th Uniformed Services Pediatric Seminar, 1984.
- 6. Weisman LE, Fischer GW, Pierce JR, Hemming VG, Marinelli P, Hunter KW, Golden SM: Intravenous immunoglobulin therapy in the neonate: A study of pharmacokinetics and safety. (Abst) <u>Clinical Pharmacology and Therapeutics</u> 35(2):282, 1984.
- 7. Nelson SN, Pierce JR, Merenstein GB: Is neonatal group B streptococcal disease underreported? (Abst) <u>Clinical Research</u> 33:141A, 1985.
- 8. Nelson S, Merenstein GB, Pierce JR, Arthur JD, Englekirk P, Morse P: Rapid identification of group B beta-hemolytic streptococci by direct swab micronitrous acid extraction technique, (Abst) 20th Uniformed Services Pediatric Seminar, 1985.
- 9. Murphy MG, Paine TR, Bonsack T, Arthur JD, Merenstein GB, Pierce JR: Naloxone treatment of streptococcal sepsis in a suckling rat model, (Abst) 21st Uniformed Services Pediatric Seminar, 1986.
- 10. Carter BS, Anderson BA, Frank CG, Pierce JR: Military neonatologists and bioethical decision making, (Abst) 9th Conference on Military Perinatal Research, 1989.
- 11. Callahan CW, Pierce JR: The Army Pediatrician: A cost comparison of alternatives for the medical care of dependent children, (Abst) 24th Uniformed Services Pediatric Seminar, 1989.

#### EDITORIALS:

- 1. Pierce JR, Hemming VG: A case for the military pediatrician. <u>Military Medicine</u> 151:559-560, 1986.
- 2. Pierce JR, Brennan M, Campbell J, McClurkan M, Morgan JL, Stracner CE: The Department of Military Medicine A graduate medical education idea whose time has come. Military Medicine 154:536-537, 1989.

# LETTERS TO THE EDITOR:

1. Pierce JR, Slaughter JC: Cutis aplasia congentia. American Journal of Diseases of Children 139:1178-1179, 1985. 2. Pierce JR: In Reply. Military Medicine 155 (Number 5):A6, 1990 and 155 (Number 11):A11, 1990.

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