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		V E R E E T	FA	X
To:	Wade Jensen NAVFACHQ (CODE 4	2WJ)		
Fax #:	(703) 325-0183			
Subject;			IDEMIOLOGICAL BOARD DING MCB CAMP LEJEU?	
Date:	14 August 1997			
Pages:	6, including this cover sl	neet.		

COMMENTS:

Wade,

Per our phoneon discussion. I am forwarding you a copy of the two-page abstract we submitted yesterday, via fax, to the AFEB. I am also forwarding a copy of the agenda for the subject meeting, which indicates our presentation has been scheduled for the afternoon of Thursday, 21 August.

Yesterday afternoon I faxed a copy of the abstract to Dr. Nancy Sonnenfeld, at ATSDR, after discussing with her our intent to present the issue to the AFEB. I asked her to let me know if she found anything objectionable. She objected to the one sentence that states that "essentially nothing was found [in the first study]" (which refers to the Adverse Pregnancy Outcomes study that ATSDR completed this year.) Dr. Hyman is changing the sentence to read something like "The only differences found were in small subgroup analysis." This refers to the ATSDR conclusion that for a subgroup - women over 35, who had had problems with previous pregnancies - a "statistically significant association" was found with exposure and the "small for gestational age" parameter. The subgroup consisted of four women.

Chet Arbnot says that B September is good with him for a meeting. He will schedule a conference room there. I am faxing him this same information.

Very respectfully, Andrea From the desk of....

Andres E. Lunsford Deputy Director for Environmental Programs Navy Environmental Health Center 2510 Walmer Avenue Norfolk, Virginia 23513-2517

> Telephone: (757) 383-8654 Fax: (757) 444-7261 E-mail: selunsford@med.navy.mli

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	To:	Chet Arb					
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	Fax #:	(703) 602	1-2676				
	Subject	PRESEN (AFEB) M HEALTH	MEETING ON 21	ARMED FOI -22 AUGUST,	RCES EPIDEMIO REGARDING M	LOGICAL BOARD CB CAMP LEJEUNE	
	Date:	14 Augus		•		•	

Pages: 6, including this cover sheet.

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Very respectfully, Andrea

CLW

From the deak of ...

000000288 jeputy Director for Environmental Programs Navy Emvironmental Health Center 2510 Walmer Avenue Norfolk, Virginia 23513-2817

> Telephone: (757) 363-5554 Fax: (757) 444-7261

2003 PAGE 2

A Pilot Study To Investigate Childhood Leukemia Among Children Who Received In i-Utero Exposure to PCE and TCE. Jeffrey Hyman and Andrea Lunsford Naval Environmental Health Center

Background.

Samples of water taken from the Camp Lejeune Marine Corps base between 1982 and 1985 revealed long term water contamination in two housing areas. One area received wwater containing up to 215 ppb of tetracholorethylene (PCE). This may date from as early as 1.958. A second area's water supply contained up to 1400 ppb of trichloroethylene (TCE), up to 4107 ppb of 1,2-dichloroethylene (1,2-DCE), and up to an estimated 35 ppb of benzene. It is not known when this contamination began. Contaminated water was not used after February of 198.5.

Computerized birth certificate data is available from 1986. Using this data the Aggency for Toxic Substances and Disease Registry (ATSDR) has identified 6,362 exposed and 5,898 unexposed births. They have completed an interim study in this population using the outscomes of mean birth weight and small for gestational age births. This study found essentially no difference between the exposed and unexposed populations.

ATSDR has requested \$1.9 million to conduct a study of childhood leukemia in this population, with most of the cases to be identified by a national advertising campaign. Endotre considering this type of comprehensive epidemiological study we have decided to conduct a pilot study.

Goals.

• Determine the number of cases of childhood leukemia (ages 0 to 19) among the c ohort : of children born at Camp Lejeune between 1968 and 1985.

• Determine the incidence of childhood leukemia among all Navy and Marine dependents for the years 1989 to 1994, using the ACTURS registry.

Methods,

We plan to use a variety of registries to locate as many cases as possible using the available identifiers: name, date of birth, address at birth. The registries to be used incluide: • ACTURS (1989 to 1997)

- National Death Index 1968 to 1997)
- State Cancer Registries (including North Carolina, California, South Carolina, Texas, Pennsylvania, Illinois, and Florida)

Expected Difficulties.

- The actual number of cases is unknown.
- The social security numbers of the children are unknown.
- The available data bases will probably only identify about half of the cases
- Based on SEER rates, there are 8.7 expected cases in this population. Even if all cases: are located, statistical power will be very low.
- Exposure data is poor. Contamination levels vary over time since water was drawn items at rundomly changing mixture of wells. Some families lived at Camp Lejeune for only p. art of

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their pregnancies. There are no records of individual household water usage, so consurruption will have to be estimated.

- This is a very transient population. Most of the expected cases will probably not have occurred at Camp Lejeunc.
- Some of the families will probably have left the military before the cases were diagnosed.
- Some of the cases that occurred in military families were probably diagnosed by civilian oncologists, and will not appear in the ACTURS registry.

Questions for the AFEB.

Please consider and comment on the following:

1. Are there other approaches to this pilot study that we should consider?

2. Are there other databases that we should use to identify the cases?

3. Considering the expected sample size, quality of exposure data, Woburn results, projected cost, and possible scientific value of the proposed ATSDR study; what criteria should we use in evaluating the results of the pilot study to determine if the larger study should be conducted?

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- AGENDA -

ARMED FORCES EPIDEMIOLOGICAL BOARD

WALTER REED ARMY INSTITUTE OF RESEARCH Building 40, Room 3092 Washington, D.C.

21-22 August 1997

Gerald F. Fletcher, M.D., President Col Vicky L. Fogelman, USAF, BSC, AFEB Executive Secretary

Thursday, 21 August 1997

0080	Introduction and Administrative Announcements	Dr. Mazzuchi COL Fogelman
0815	Birth Defects Among Children of Gulf War Veterans	Dr. Cowan
0900	Follow-up on Naval Recruit Issues	LCDR Ryan
0925	Adenovirus Surveillance	CDR Gray

0945 BREAK

1000 DoD Medical Response to Bioterrorism

1045 Adenovirus Vaccine Update

1115 Physical Developmental Hazards in Naval Workplaces

1200 LUNCH (Box Lunches)

COL Parker

LTC DeFraites

CDR Cassano

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1300 Deployment Risk Assessment Methodology

1300-1700 Subcommittee Time

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A. Infectious Disease Subcommittee

- DoD Immunization Survey Review

- Decreased Dosage for Hepstitis B Vaccine

B. Health Maintenance Subcommittee

- Routine Clinical Services in MHSS

- Productivity Loss Among Heavy Drinkers - U.S. Military

- Alcohol Prevention Programs - DoD and U.S. Navy

C. Environmental/Occupational Health Subcommittee

> - Environmental Hazard Surveillance During Deployments

- Occupational Health Issues Aboard Naval Ships

Friday, 22 August 1997

0800	DoD Global Surveillance Program for	*
	Emerging Infections	

0845 Subcommittee Time

- 1130 AFEB Executive Meeting
 - Subcommittee Reports and Discussion/Action

- Other Issues

1300 Adjourn

MAJ Ruscio Dr. Burke

Ms. Kasab

COL Engler

MAJ Fisher

Mr. Hartman CDR Beaugrand

Dr. Hyman Ms. Lunsford

LTC Kelley

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DIRECTIONS:

From Baltimore, Dulles, or Washington Airports take the Beltway, I-495, to the Georgia Avenue exit.

TO WRAIR:

From the Holiday Inn: Proceed south on Georgia Avenue to the entrance of the Walter Reed Army Medical Center on right. Follow map to WRAIR. Unless you have an assigned parking space, you are advised to park at the Forest Glen Annex and ride the shuttle bus. See schedule below.

From Washington: Proceed north on Georgia Avenue to the entrance to WRAMC on the left. You may proceed morth on the Rock Creek Parkway until it turns into Beach Drive. Proceed through Rock Creek Park on Beach Drive and turn right on Sherrill Drive, which will take you to 16th Street. Turn left on 16th and immediately make a right into the WRAMC complex. Follow the map to WRAIR. If you do not have assigned parking, you are advised to ride the shuttle from Forest Glan. See schedule below.

To Forest Glen:

From Beltway take the Georgia Avenue exit. Proceed south to Linden Lans. Turn right and proceed to Forest Glen Annex. Turn left into parking erea for the Commissary and Post Exchange. The Shuttle departs from the area in front of the Commissary/Exchange complex.

Forest Glen Shuttle Schedule:

Shuttle service starts at 0600 and runs every 15 minutes until 0745 when it shifts to an every 30 minute schedule. The drop point is in front of the Walter Read Army Medical Center. As the meeting on both days starts at 0800, the latest shuttle you should take is the 0715 bus. This will allow enough time to walk to WRAIR.

MESSAGES:

CL-W

During the meeting you may receive telephone messages through the WRAIR Audiovisual Services at (202) 576-2106. The WRAIR (FAX) 0 0 0 2 8 8 8 runder: is (202) 576-3114. Indicate on the Fax cover sheat that you are attending the AFEB meeting in Conference Roam 3092 so that your Fax can be routed to you.