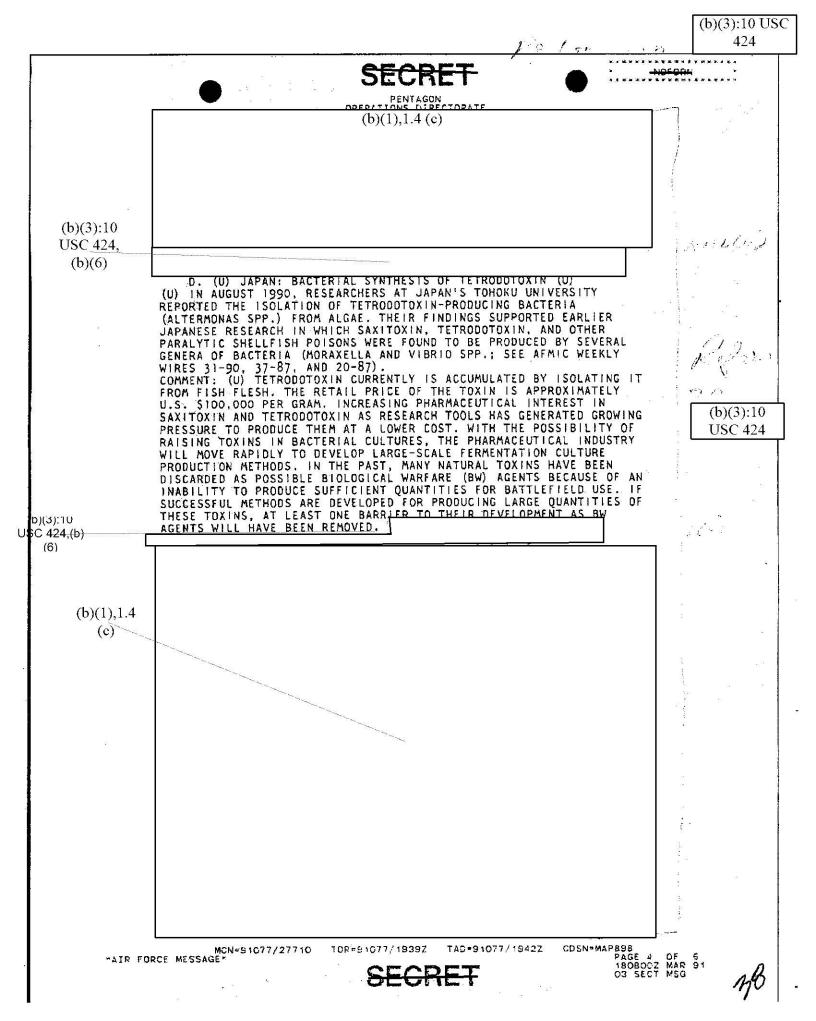
(b)(3):10 USC 424 (b)(3):10 USC 424,(b)(3):50 USC PENTAGON OPERATIONS DIRECTORATE 403-1(i)\_\_ PRIORITY 0771930 EP 180800Z MAR 91 (b)(3):10 USC (b)(3):50 USC 424 403-1(i) RHIPAAA/USCENTCOM FWD HOS (b)(3):50 USC 403-1(i) (b)(3):10 USC 424,(b)(3):50 USC 403-1(i) (b)(3):50 USC SECTION OOL OF 003 403-1(i),(b)(6) SUBJECT: AFMIC WEEKLY WIRE 11-91 U) 1. GENERAL
(U) THIS MESSAGE CONSISTS OF SCIENTIFIC, TECHNICAL, AND GENERAL MEDICAL INTELLIGENCE. IT IS INTENDED TO PROVIDE A TIMELY SUMMARY \*\*\* AF SECTION MESSAGE \*\*\* DISTRIBUTION ACTION SG (2) INFO SGHR/MRC (1) IN (1) XOO (1) FILE CY (1) (A) MCN=91077/27710

er diamak	PENTAGON OPERATIONS DIRECTORATE	
(b)(3):10°	OF CURRENT INTELLIGENCE FINDINGS AND ANALYSIS. THE REMARKS ARE	
USC 424,	PRELIMINARY AND SUBJECT TO REVISION AND DO NOT NECESSARILY	
(b)(6)	PROVIDED BY THE	b(6)
	2. TABLE OF CONTENTS (U) A. (C) IRAD: DISEASE OCCURRENCE IN BAGHDAD (U)	l e
)(3):50 USC	8.	99 1912
403-1(i)	D. (U) JAPAN: BACTERIAL SYNTHESIS OF TETRODOTOXIN U)	
p)(1 <u>),1.4</u>	(U) E.	
(c)	** F.	
	G. (U) INDIA: TAP WATER USED IN PERFORMING ELECTROCARDIOGRAMS	
	H. (U) CUBA: HEPATITIS B VACCINATION (U)	
·	3. (S/NF/WH) INTELLIGENCE FINDINGS AND ANALYSIS (U) A. (C) IRAQ: DISEASE OCCURRENCE IN BAGHDAD (U)	120 000
	(U) OPEN SOURCE NEWS RELEASES, CITING INTERNATIONAL AND TRACT HEALTH OFFICIALS, INDICATE THAT COMMUNICABLE DISEASES IN BAGHDAD	Killer
	ARE MORE WIDESPREAD THAN USUALLY OBSERVED DURING THIS TIME OF THE	. 533 at
	YEAR AND ARE LINKED TO THE POOR SANITARY CONDITIONS (CONTAMINATED WATER SUPPLIES AND IMPROPER SEWAGE DISPOSAL) RESULTING FROM THE	
	WAR. ACCORDING TO A UNITED NATIONS CHILDREN'S FUND (UNICEF)/WORLD	(b)(3):10
Dago 2 is denied	HEALTH ORGANIZATION REPORT, THE QUANTITY OF POTABLE WATER IS LESS THAN 5 PERCENT OF THE ORIGINAL SUPPLY, THERE ARE NO OPERATIONAL	USC 424
Page 3 is denied in full per FOIA	WATER AND SEWAGE TREATMENT PLANTS, AND THE REPORTED INCIDENCE OF	
exemptions (b)	DIARRHEA IS FOUR TIMES ABOVE NORMAL LEVELS, ADDITIONALLY, RESPIRATORY INFECTIONS ARE ON THE RISE, CHILDREN PARTICULARLY, HAVE	
(1), (b)(3) and (b)	BEEN AFFECTED BY THESE DISEASES. INCREASED INCIDENCE OF	
(6) and is not	MENINGITIS, TYPHOID, OR CHOLERA HAS NOT BEEN REPORTED.  [COMMENT: (U) THE PREVALENCE OF SOME DISEASES HAS INCREASED IN	
provided.	BAGHDAD, BUT MAJOR DISEASE OUTBREAKS (INCLUDING TYPHOID,	
	CHOLERA, AND MENINGITIS) HAVE NOT OCCURRED. THERE ARE INDICATIONS  THAT THE SITUATION IS IMPROVING AND THAT THE POPULATION IS COPING	
	WITH THE DEGRADED CONDITIONS, DAILY RADIO BROADCASTS HAVE PROVIDED	
	PRECAUTIONARY MEASURES TO BE TAKEN BY CIVILIANS TO PREVENT DISEASES, HOWEVER, CONDITIONS IN BAGHDAD REMAIN FAVORABLE FOR	
	COMMUNICABLE DISEASE OUTBREAKS; THE DELAYED RESTORATION OF PUBLIC	<u> </u>
	HEALTH SERVICES AND APPROACHING WARMER TEMPERATURES WILL INCREASE THE LIKELIHOOD OF SIGNIFICANT DISEASE OUTBREAKS, ADDITIONALLY,	\$ 1995 \$
	CIVIL DISTURBANCES COULD FURTHER DELAY INFRASTRUCTURE REPAIRS.	
	(C) NEWS RELEASED TO WESTERN AUDIENCES FROM BAGHDAD ON SANITARY CONDITIONS AND DISEASE INCIDENCE IS CONSIDERED BIASED. THE IRAQI	
	GOVERNMENT HAS MANDATED THE DEPARTURE OF NEWS PERSONNEL AND RELIEF	945
/b)/2)-10	AGENCY OBSERVERS, MAKING EVALUATION OF ACTUAL HEALTH CONDITIONS (DISEASES, INCLUENCE LEVELS, AND GROUPS AFFECTED) UNCLEAR.	1 1
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(6)		
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(c)		
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(0)		
		a, 47
Į.	G. (U) INDIA: TAP WATER USED IN PERFORMING ELECTROCARDIOGRAMS	
2	(U)  (U) A JUNIOR TECHNICAL ASSISTANT AT THE ARMED FORCES MEDICAL  COLLEGE IN PUNE, INDIA, RECENTLY WAS RECOGNIZED FOR RESEARCH IN  THE EFFICACY OF USING "TAP WATER INSTEAD OF ELECTRODE JELLY IN THE  RECORDING OF ECG.S." IN THE STUDY, 20,000 ECG'S WERE PERFORMED  USING TAP WATER IN PLACE OF ELECTRODE JELLY. THE RESULTS  DEMONSTRATED THAT TAP WATER WAS AS EFFECTIVE AS JELLY.  COMMENT: (U) THIS RESEARCH DOES NOT REPRESENT A TECHNOLOGICAL  BREAKTHROUGH AS MUCH AS IT ILLUSTRATES AN EMPHASIS IN INDIAN  MILITARY MEDICINE ON FINDING THE LEAST EXPENSIVE MEANS OF  DELIVERING HEALTH CARE TO A LARGE POPULATION. WITH PERHAPS  MILLIONS OF INDIAN MILITARY PERSONNEL RECEIVING ECG'S, THE COST  SAVINGS OF USING TAP WATER, RATHER THAN ELECTRODE JELLY, IS  SIGNIFICANT.	
	(U) EXPERIENCE INDICATES THAT USING TAP WATER HAS NO ADVERSE  MON=91077/27710 TOR=91077/19392 TAD=91077/19422 CDSN=MAP898	
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EFFECT ON THE QUALITY OF THE ECG. THE CRITICAL ISSUE IS THE QUALITY OF CONTACT BETWEEN THE SKIN AND LEAD, IF THE PATIENT'S SKIN IS PROPERLY CLEANED WITH AN ASTRINGENT, SUCH AS ALCOHOL, AND THE LEADS ARE CLEAN, WATER SHOULD WORK AS WELL AS JELLIES FOR THE THE LEADS ARE CLEAN, WATER SHOULD WORK AS FLECTROLYTE PADS NOW BEING MARKETED) .

(U) CUBA: HEPATITIS B VACCINATION (U) (U) CUBA PLANS TO IMPLEMENT A COUNTRYWIDE THREE-STAGE HEPATITIS VACCINATION PROGRAM IN 1991. THE FIRST STAGE WILL BE THE VACCINATION OF HIGH RISK GROUPS, SUCH AS HEALTH WORKERS AND NEWBORNS OF MOTHERS INFECTED WITH HEPATITIS B; THE SECOND STAGE WILL BE THE VACCINATION OF INHABITANTS UNDER 20 YEARS OLD; AND THE THIRD STAGE WILL BE VACCINATION OF PERSONS 20 TO 64 YEARS OLD. (U) THE VACCINE TO BE USED REPORTEDLY WAS DEVELOPED AND PRODUCED IN CUBA. DEVELOPMENT WAS LED BY A TEAM AT A GENETIC ENGINEERING AND BIOTECHNICAL CENTER LOCATED IN A HAVANA NEIGHBORHOOD (PROBABLY THE GENETIC ENGINEERING AND BIOTECHNOLOGY CENTER). COMMENT: (U) MASS IMMUNIZATION PROGRAMS FOR HEPATITIS B PREVIOUSLY HAVE BEEN CONDUCTED IN COUNTRIES WHERE THE DISEASE IS HIGHLY SUCH AS TAIWAN AND INDONESIA; HOWEVER, AVAILABLE DATA DO NOT INDICATE THAT REPATITIS B IS HIGHLY ENDEMIC IN CUBA.

THEREFORE, THE IMPLEMENTATION OF CUBA'S PROGRAM SIGNIFIES THAT ACTUAL ENDEMICITY MAY BE HIGHER THAN PREVIOUSLY INDICATED OR THAT CUBA MAY BE TRYING TO DEMONSTRATE ITS CAPABILITY TO PRODUCE AN EFFICACIOUS VACCINE.

(U) CUBA'S BIOTECHNOLOGY INDUSTRY PROBABLY CAN PRODUCE RELATIVELY LARGE QUANTITIES OF A RECOMBINANT VACCINE; HOWEVER, THE EFFICACY OF THE VACCINE WOULD BE QUESTIONABLE BECAUSE OF POOR QUALITY CONTROL PROCEDURES DURING PRODUCTION.

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