



Effects of the Persian Gulf war on the Environmental Health and congenital anomalies



تاثیرات جنگهای خلیج فارس بر سلامت محیط زیست و ناهنجاریهای مادرزادی

Dr Mozhgan Savabiesfahani

School of Public Health, University of Michigan, Ann Arbor, Michigan, USA.

تاریخ سخنرانی : یکشنبه مورخه ۱۳۹۴/۰۸/۱۰ ساعت ۱۰ صبح

مکان : سالن شهید شهریاری، سازمان مرکزی، دانشگاه زنجان

برگزارکننده : گروه علوم محیط زیست و اداره همکاری های علمی بین المللی

جایزه بین المللی ریشل کارسون (نروژ)

On June 3rd, the Deputy Mayor of Stavanger, Norway presented the 2015 Rachel Carson Prize to Dr. Mozhgan Savabieasfahani. The award ceremony was held before a large audience in the



before a large audience in the city's Culture House. Dr. Savabieasfahani is an Ann Arbor environmental toxicologist. She received the Rachel Carson Prize for her research into Iraqi birth defects following the U.S.-led war on Iraq.





Mozhgan Savabieasfahani

Dr. Mozhgan Savabieasfahani has been awarded the Rachel Carson prize for 2015 for her intensive work to improve public awareness on the devastating effects of war on the environment and on public health.

In particular Dr. Savabieasfahani has brought public attention to the increase in levels of birth defects in Iraq and how these defects can be associated with chemical contamination during the 2003 war.

Mozhgan Savabieasfahani

Dr. Mozhgan Savabieasfahani is an hvironmental toxicologist, iginally from Iran, residing Ann Arbor, Michigan, SA. Her research focuses Dr. Savabieasfahani, originally from Iran, is an environmental toxicologist, based in Ann Arbor, Michigan, USA. She is a dedicated scientist who has published extensively in scientific journals, within the field of environmental toxicology. In 2009 her book "Pollution and reproductive damage: pollution induced celldeath and reproductive damage in fish and mammals" was published.

Dr. Savableasfahani has watched the conflicts in the Middle East closely. She has a sound scientific approach when dealing with an extremely complex and sensitive research area, and her determination is strong to communicate her findings to the public. In 2014 she was travelling extensively in the U.S. to present work on the investigation of the epidemic of birth defects in Iraq.

"It is more than 10 years since the US-lead war in Iraq was over, but there is still a very high frequency of

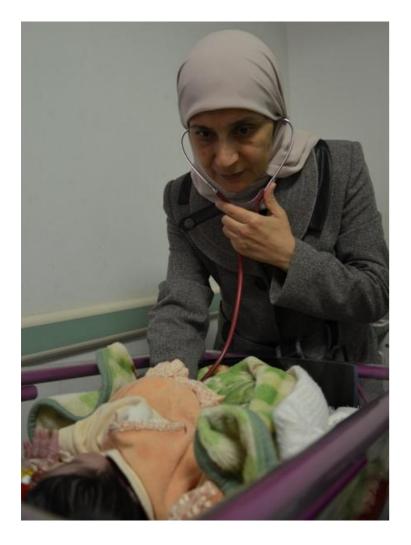


عراق تبدیل به ملتی آواره شده







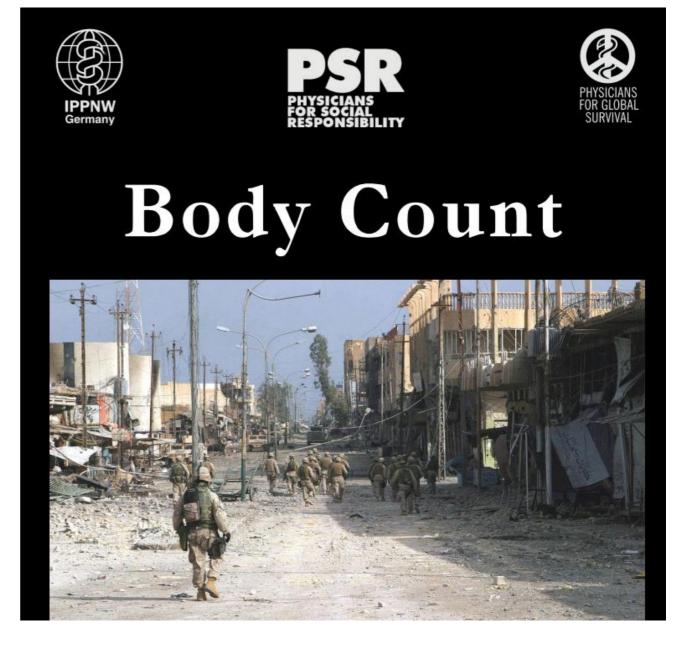




Dr. Samira Alanni, Fallujah General Hospital.

Dr. Muhsin Alsabbak and his staff at Basra Maternity Hospital.

"This investigation comes to the conclusion that the war has, directly or indirectly, killed around 1 million people in Iraq, 220,000 in Afghanistan and 80,000 in Pakistan, i.e. a total of around 1.3 million. Not included in this figure are further war zones such as Yemen ... this is only a conservative estimate. The total number of deaths in the three countries named above could also be in excess of 2 million, whereas a figure below 1 million is extremely unlikely."





advance at dso@u.washington.edu or 206.543.6450, 206.543.6452/TTY

PRINCETON UNIVERSITY Global Health at Princeton

Events

Lunch seminar: "Epidemic of birth defects in Iragi cities" - Mozhgan Savabieasfahani & Muhsin Alsabbak

Monday, Oct. 13th - 12:15pm-1:00pm 015 Robertson Hall

Dr. Savableasfahani, a native of Iran, is an environmental toxicologist based in Ann Arbor, Michigan (USA). She is the author of over two dozen peer reviewed articles and a book entitled "Pollution and reproductive damage: pollution induced cell-death and reproductive damage in fish and mammals" published by DVM publishers (Germany). She has published on the effects of plasticizers and pesticides on the female reproductive cycle. Pollution caused by wars and invasions in the Middle East has turned her attention to the effects of war pollutants on public health. Her research on war pollution and the rising epidemic of birth defects in Iraqi cities received outstanding global news coverage in 2011 and 2012.

Dr. Al-Sabbak is the Head of the Department of Obstetrics and Gynecology at Basrah Maternity Hospital He will talk about his practice, his frequent observations, his challenges of working in a war-zone with rising cancers and birth defects

Audience: This event is for students, faculty and fellows. RSVP required. Non-WWS students: to RSVP email chw@princeton.edu by October 6th. WWS students will receive a separate invitation on the week prior to the event

This event is co-sponsored by the Woodrow Wilson School's Center for Health and Wellbeing.

D 2014 The Trustees of Pr rundate: Sentember 16, 2014

NIVERSI



In collaboration with THE INSTITUTE FOR HEALTH AND THE ENVIRONMENT SPHGSO

"Investigating an epidemic of birth defects in Southern Iraq"

WHERE: Standish Room WHEN: October 22, 2014 TIME: 12-1:30 PM

For more information "Brownbag Luncheon

iabu@albarry.edu

"Investigating an epidemic of birth defects in Iraq."

LECTURE AND RECEPTION

October 17, 2014 4pm lecture 5 pm reception HSPH	 Guest Speakers Prof. Muhsin Al-Sabbak Dr. Mozhgan Savabieasfahani
665 Huntington Ave Boston Building 1-1302	Prof. Muhsin Al-Sabbak practices medicine and teaches in the Department of Obstetrics and Gynaecology of the Basrah Medical College and Teaching Hospital In Basrah, Iraq, His main research interests are in birthing and diagnostic laparoscopy. He has published numerous papers on maternal and refat outcomes of
Co-sponsors: The Harvard-NIOSH Education and Research Center www.hsph.harvard.edu/erc HealthRoots at HSPH isites.harvard.edu/healthroots	Infections during pregnancy and complications of pregnancy. Dr. Mochgan Savableasfhani, a native of Iran, is an environment bioxicologist based in Ann Arbon, Michigan. She is the author of over two dozen peer reviewed articles and a book entitled "Polition and reproductive damage; in Idh and mammals" (DVM publishers; (Germany)). She has published on the effects of plasticizers and pestiodes on the female reproductive cycle. Polition caused by wars and invasions in the Middle East
For information and visitor pass: abackaw@hyph.harvard.edu paul.malachi@gmail.com	has turned her attention to the effects of war pollutants on public health. Her research on war pollution and the rising epidemic of birth defects in Jraqi cites received outstanding global news coverage in 2011 and 2012.

The Institute for Health and the Environment, The Global Institute for Health and Human Rights, The School of Public Health Graduate Student Organization and the Center for Global Health, presents:

Global Health Speaker Series

School of Public Health, East Campus, Massry Conference Center

Tuesday, October 21, 2014 at 11:00 AM

"Investigating an epidemic of birth defects in Iraq"

Presented by

Dr. Muhsin Al-Sabbak and Dr. Mozhgan Savabieasfahani

Dr. Al-Sabbak is the Head of the Department of Obstetrics and Gynecology at Basrah Maternity Hospital. He has documented rising cancer rates and birth defects in Irag and linked them to environmental pollution during the war in Irag.

Dr. Savabieasfahani, a native of Iran, is an environmental toxicologist based in Ann Arbor, Michigan. She is the author of over two dozen peer reviewed articles and a book concerning the effects of various pollutants on the female reproductive cycle, including pollution caused by wars and invasions in the Middle East and the rise of birth defects in Iraq.

stitute for Health and CENTER FOR GLOBAL HEALTH

SCHOOL OF PUBLIC HEALTH

IVERSITY AT ALBANY Some University of Net

GIHHE

THE EPIDEMIC OF BIRTH DEFECTS IN IRAQ AND OUR DUTY AS PUBLIC HEALTH RESEARCHERS mmän An May





Birth defects and childhood cancer rates have risen in Iraq after the 2003 invasion. Are military assaults to blame? Come learn what we know, what we don't know and how these doctors plan to take action.

Featuring:

Dr. Muhsin Al-Sabbak, Basra Maternity Hospital, Iraq Dr. Mozhgan Savabieasfahani, Environmental Toxicologist

Tuesday, October 14th 11:30am

Allan Rosenfield Building, 8th Floor Auditorium 722 W. 168th St.

Reception to follow

COLUMBIA MAILMAN SCHOOL FORCED MIGRATION & HEALTH



دانشکده مهندسی شیمی و نفت پژوهشکده زیست فناوری و محیط زیست سه شنبه ۲۳ دی ۹۳ – ساعت ۱۳:۳۰ – دانشکده مهندسی شیمی و نفت – سالن سبز

اپیدمی ناهنجاریهای هنگام تولد و اختلالات عصبی در کودکان

Investigating an Epidemic of Birth Defects

دکتر مژگان صوابی اصفهانی

فوق دکترای سم شناسی محیط زیست از دانشگاه میشیگان

Curriculum Vitae Mozhgan Savabieasfahani Ph.D.

1501 Ardmoor Ave, Ann Arbor, MI 48103 Phone: 313-828-8941 Email: mozhgan.savabieasfahani@gmail.com

Education: NIEHS Post Doctoral Training in Toxicology, University of Michigan, 2001-2004 Ph.D., Environmental Toxicology, Oklahoma State University, 1995-2001 M.S., Biological Sciences, Rutgers University, 1983-1985 B.S., Department of Biology, New York University, 1980-1983

> Positions Held: Managing Editor of "Global Health Perspectives" Visiting Scholar, University of Michigan School of Public Health (2011) Research Associate, Michigan Public Health Institute (2007) Post Doctoral Fellowship, National Research Award (2003-2004) Post Doctoral Trainee Award, National Institute of Environmental Health sciences (2001-2003) Presidential Research Fellow, Oklahoma State University Environmental Institute (1998-2000)

Current conflicts in the Middle East have left their scar primarily on the Iraqi landscape. Recent articles in the NY times and Business Insider, have revealed and discussed major sources of war-related pollution (i.e. detonation of chemical weapons and burn-pit emissions) that were kept secret for many years. Simultaneously, birth defects and cancers are rising in populated cities of Iraq. Health damage to humans who were exposed to war-related pollution has been described by the National Institute of Health. Our data links public exposure to Pb and Hg (neurotoxic metals), and titanium to birth defects, and neuro-developmental disorders in Iraqi children.



کزارش «شهروند» از تأثیر جنگ وادوات جنگی آمریکا بر آلودگی شدید آب. خاک. هواوغذای عراقی ها ار ثیبه جنگ عراق؛ ۳۷ عامل سر طانزا در هوای ایران

۹ در سال ۱۹۹۴ در شهر بسره از هر هزار تولد زنده ۱/۴ بچه مشکل ناهنجاری داشت که این آمار در سال ۲۰۰۹ به ۴۸ تولد باناهنجاری در هر هزار تولد زنده رسید

افتاندل دجلر لست که د صرورقاده

مرمحه را می اختی به بی مویند بی تویند ر مریز بی توقی اذ و بعن بیش می کند دیکی مریز کو تحقی بیش می کند دیکی مریز کو تحقی مریز استام خیار خرین خان دیش مریز انداز در مین از منابع خیار آمان از مان از مان مریز خان می خوان از از از از از مان می از از مان از از مینی از می از می کندان از در مین مریز می مریز می کندان از در مین می مریز این از می کندان از در مین می مریز این از مین می کند از در مین مریز می مانی از از این می می از می کندان می مان در از می می می می از می کند از در می می مریز این از می از می کند می می می می از می کند می کرد می کرد می کرد می مریز این از از این می از می کند می کرد می کرد این می می از می کند می کرد می می می از می کند می کرد می می می از می کند می کرد می کند می کرد می کر

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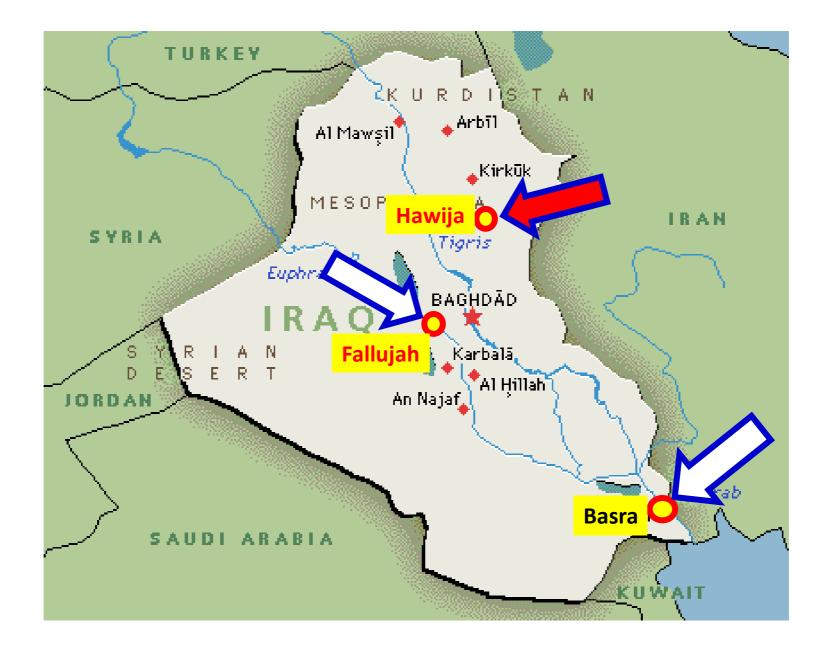
دکتر مژگان صوابی اصفهانی، محقق دانشگاه میشیگان می گوید: صفحه ۲ را آمریکایی ها از سال ۲۰۰۳ تا ۲۰۱۰ میلادی در بیش از ۵۰۰ پایگاه نظامی خود در عراق ضایعات مختلف جنگی را در گودال های آتشین می سوزاند:







Seit Ausbruch des Kriegs sei die Zahl an Missbildungen LETZTES UPDATE AM 15.10.2012



Basra



Basra



Baghdad



غبار عراق سمی است

Navy Capt. Mark Lyles, Joel T. Boone Professor of Health and Security Studies at the U.S. Naval War College Center for Naval Warfare Studies, found that the dust in Iraq and Kuwait contains 37 metals that have been linked to everything from neurological disorders to cancer, 147 different kinds of bacteria, and several kinds of diseasespreading fungi.

Kelly Kennedy, USA TODAY, 7:15 p.m. EDT June 23, 2014

گورستان تانک ها و آشغال های نظامی ر ها شده در محیط

پايگاه نظامي التاجي نزديک بغداد









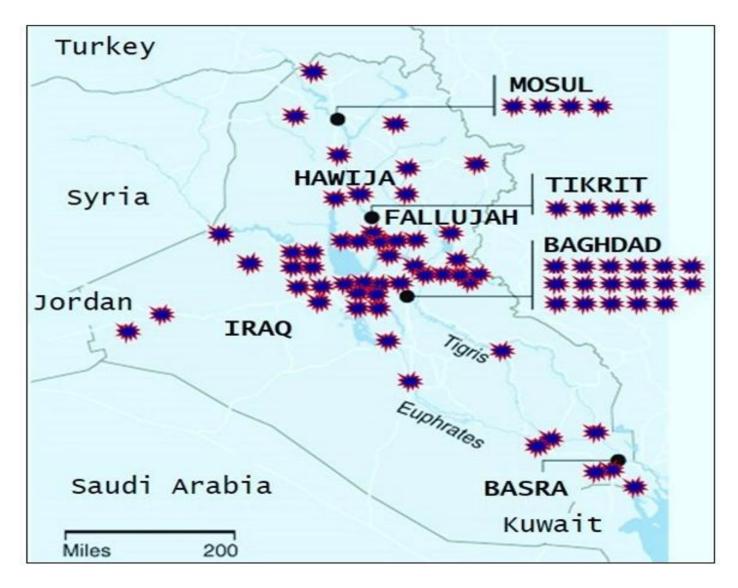






چانه های آتش در پایگاه های نظامی آمریکا

تعدادی از پایگاه های نظامی آمریکا در عراق



















Air monitoring of one major U.S. military base (*Joint Base Balad*), near Baghdad, revealed Dioxins, Furans, Volatile Organic Compounds (VOCs), Poly Aromatic Hydrocarbons (PAHs) and Particulate Matter (PM).

"...Cumulative exposure to mixtures of chemicals...by inhalation"

Exposure to all, is associated with long-term health effects in adults.

Institute of Medicine, 2011 (192 pages)

Long-Term Health Consequences of Exposure to Burn Pits in Iraq and Afghanistan



INSTITUTE OF MEDICINE OF THE INATIONAL ACADOMES

كلاهك هاى شيميايى توليد آمريكا

🖲 HOME 🔍 SEARCH

MIDDLE EAST

The New York Times

The Secret Casualties of Iraq's Abandoned Chemical Weapons



Soldiers in protective gear examine unexploded munitions near Camp Taji, Iraq, in August 2008. <u>Photo</u>: The New York Times

SECTIONS & HOME Q SEARCH Chemical Warrange Destroyed in Open Air

Thousands of Iraq Chemical Weapons Destroyed in Open Air, Watchdog Says

By C. J. CHIVERS NOV. 22, 2014

Investigating Abandoned Chemical Weapons in Iraq

By THE NEW YORK TIMES OCT. 27, 2014

MIDDLE EAST | Q. AND A.

A controlled detonation

ecovered mustard

shells near Taji, Iraq, Aug. 17, 2008.





Q SEARCH



The New York Times

MIDDLE EAST

SECTIONS

More Than 600 Reported Chemical Exposure in Iraq, Pentagon Acknowledges

The New York Times

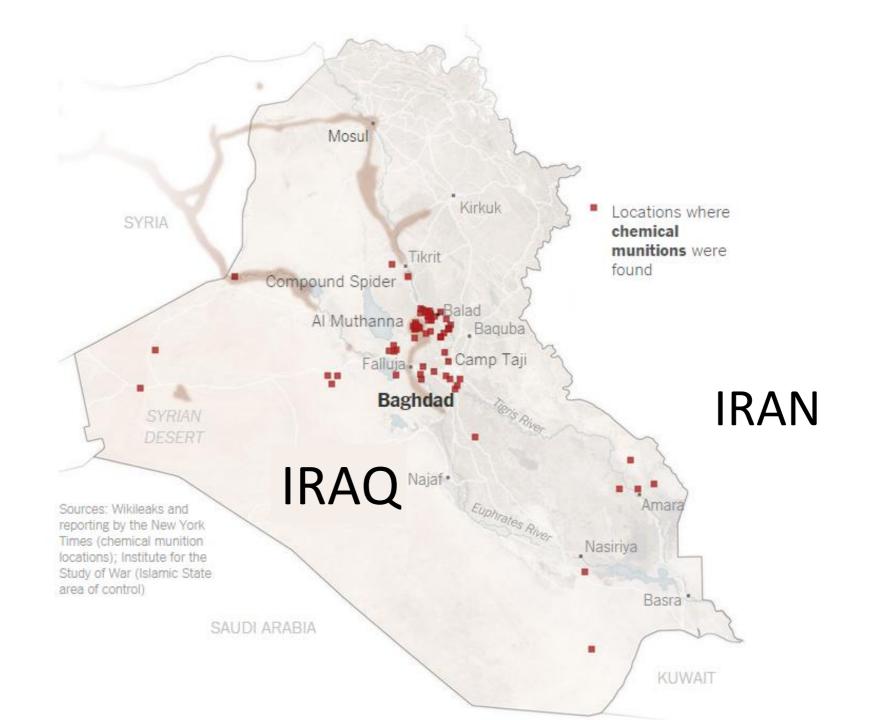
By C. J. CHIVERS NOV. 6, 2014



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"In all, American troops secretly reported finding roughly 5,000 chemical warheads, shells or aviation bombs, according to interviews with dozens of participants, Iraqi and American officials, and heavily redacted intelligence documents obtained under the Freedom of Information Act." NYT October 14, 2014 پايگاه نظامي التاجي



آلوده کی به ار انیم "فرسوده"



۴۸۶۵۰۰ تن اور انيوم "فرسوده" در سيلندر هاي فلزي در ایالت های او هایو، کنتاکی و تنسی انباشته شده



A 2007 publication of the United Nations Environment Program (UNEP) estimated that 1,000 to 2,000 metric tons of depleted uranium was fired during the 2003 war in Iraq.





BMJ. 2003 May 3; 326(7396): 952. doi: <u>10.1136/bmj.326.7396.949</u> PMCID: PMC1125878

Royal Society warns of risks from depleted uranium

Peter Moszynski

Author information
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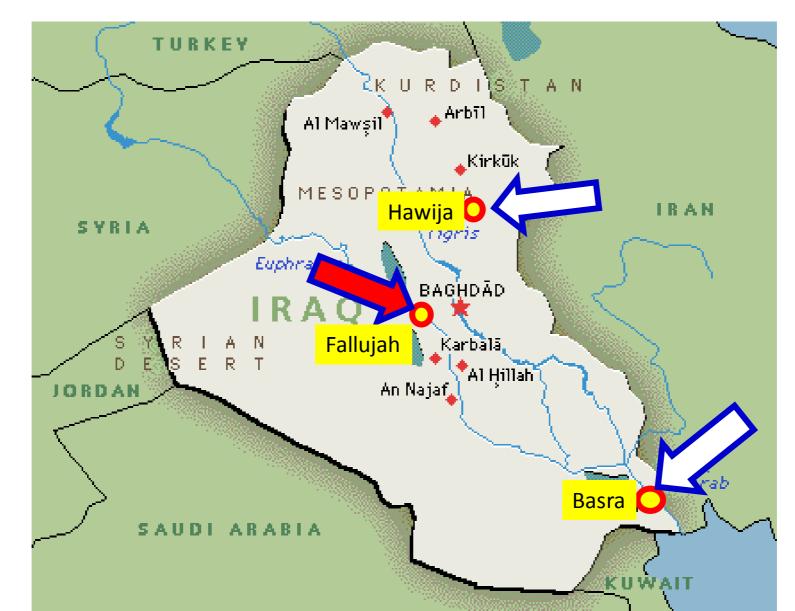
Urgent attention must be paid to the health and environmental consequences from the
 depleted uranium used in many of the munitions fired in Iraq, the Royal Society has warned.

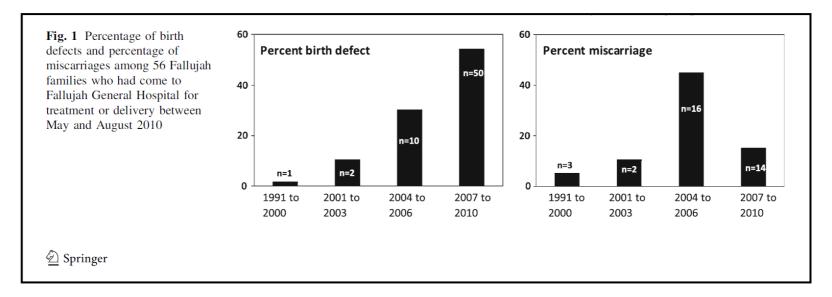
The society has publicly backed the United Nations Environment Programme's call for a scientific assessment of sites struck with depleted uranium weapons, the immediate distribution of guidelines to minimise the risk of exposure, and the need to clean up remnants.

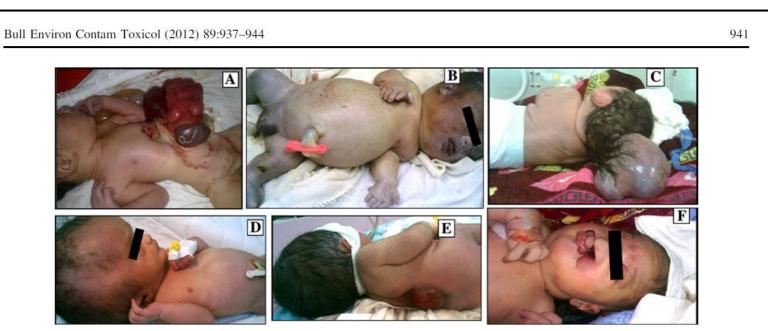
The Ministry of Defence insists that the effects of depleted uranium are strictly localised. But after growing concern over the risk of cancer, testing is now available to all troops that served in Iraq. Previous guidelines recommended monitoring personnel only "where they have been exposed to depleted uranium or where there is a high probability that they have been so exposed."

In its new study on Iraq the UN Environment Programme states: "The intensive use of depleted uranium weapons has likely caused environmental contamination of as yet unknown levels or consequences."

الفلوجة







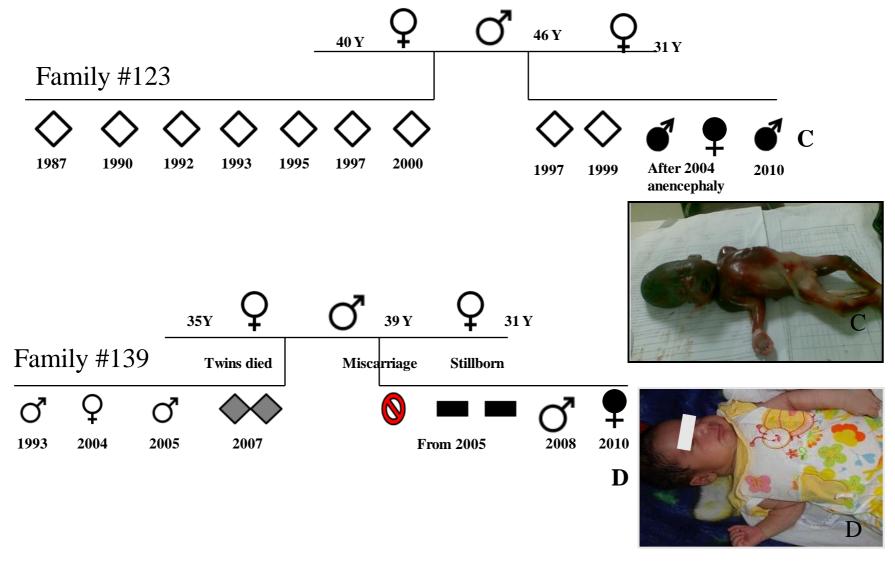
Bull Environ Contam Toxicol. 2012 Nov;89(5):937-44.

Environmental Contamination and Toxicology

Fig. 2 Photos of some birth defects reported from Fallujah General Hospital between May and August 2010. a Gastroschisis, b Hydrocephalus, c Encephalocele, d Macrocephaly, e Spina Bifida; f Cleft lip and palate

Folate-dependent birth defects

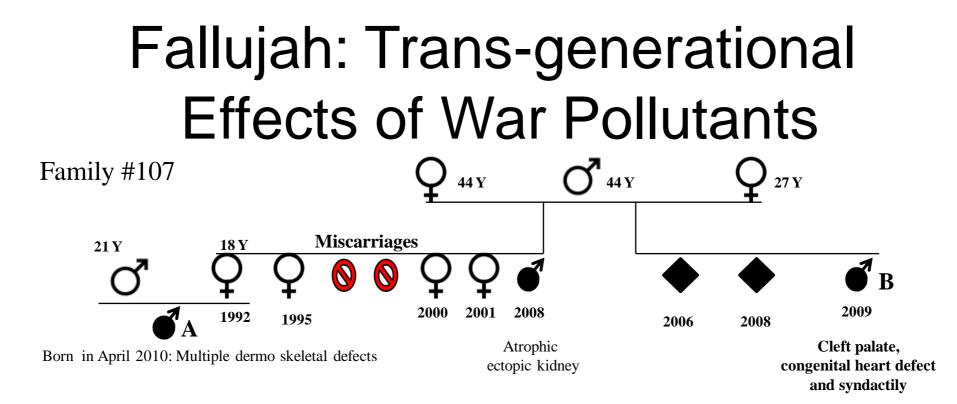
Fallujah: Reproductive Family History



Int J Environ Res Public Health. 2011 Jan;8(1):89-96.

> International Journal of Environmental Research and Public Health

Ventricular Septal Defect



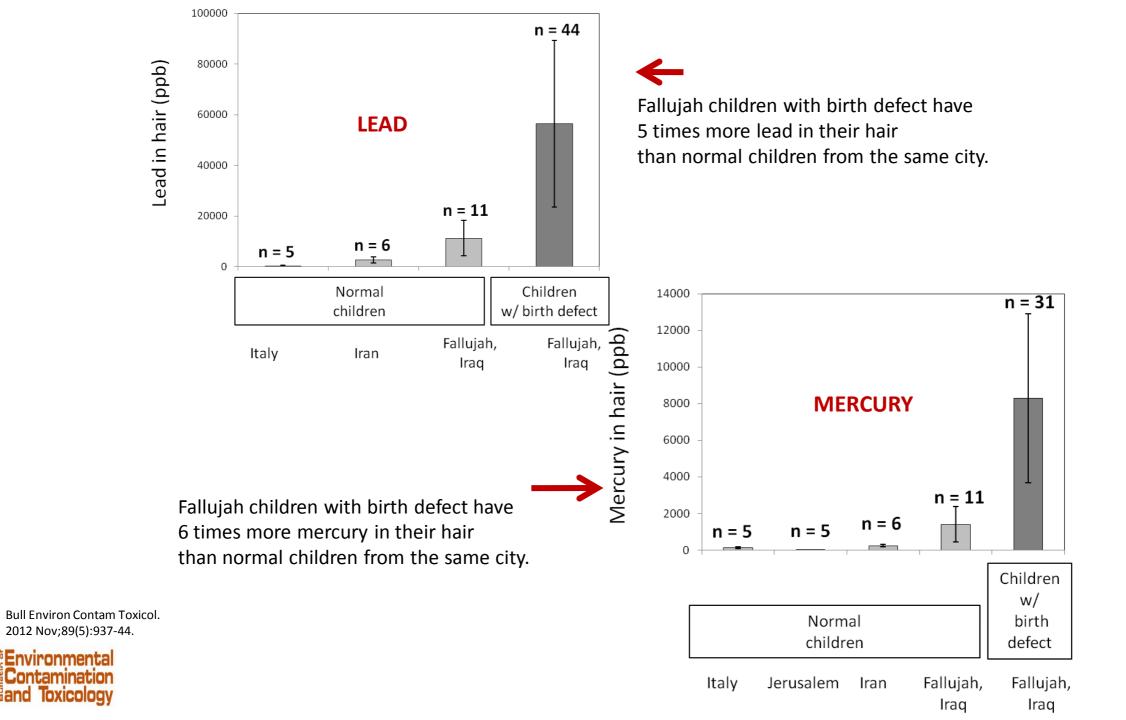




Int J Environ Res Public Health. 2011 Jan;8(1):89-96.

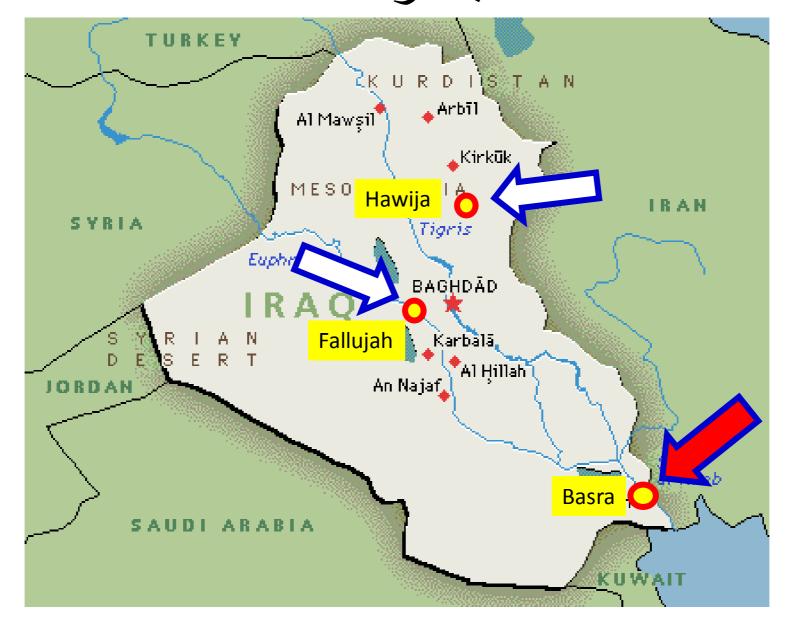


International Journal of Environmental Research and Public Health



and

بصرہ



Alsabbak M, Mawahib A, Almosawi G (1997) - Incidence of Congenital Fetal Anomaly in Basrah Maternity Hospital (BMH). Basrah Med J 3: 59-60

Study reports: between October 1994 and October 1995 the number of birth defects were

1.37 per 1000

live births in BMH

BASRAH MATERNAL & UNILD HOUTTAL

Muhsin AL - Sabak* , Mawahib A . Salman*, Genan -AL- Mosawi"

M.B.Ch.B, CABOG, Lecturer; ⁹M.B.Ch.B, CABOG, Lecturer; ^{}M.B.Ch.B, DGO. Appartment of Gynaecology, College of Medicine, University of Basrah Iraq.

Summary A prospective study done at obstetric unit in Basrah maternal & child hospital from october 1994 to October 1995 Sixity out of 10,200 studied new born, 0.58% were found to have congenital malformation among studied new born. 185 were still born with an incidence of 1.7% 25% of those showed congenital malformations 75% of congenital malformations occured in new born whose parents had consan-quinous marrige, further more, more congenital malformations occured among low birth wt new born, among girls, among new born whose mothers were either thirty years of age or multi-parous. Significant association between congenital malformation & place of residence was observed (more in rural areas), CNS abnoramlities was the most common congenital abnormality encountered.

Introduction

Patients and Methods

Congenital malformations are abnormalities of structure or form usually found at birth & that seriously interfere with viability or physical well being¹. 40% of cases of congenital malformation occures with no recognized risk factor², 3.5% of all congenital abnormalities are due to maternal illness³. From numerous surveys during the past 30 years , 3% of new born were found to be affected by congenitals abnormalities were discovered in month or years after birth^{3,4}.

The present study was under taken to find out the incidence of congenital malformations among new borns in gour hospital which may reflect to some extent its over all incidence in basrah hity & to determine factors that could lecrease its incidence.

prrespondence to :

... Muhsin AL-Sabak, Department of Gynaecology, llege of Medicine, University of Basrah Iraq. This is a prospective study which was carried out in the obstetric Dept. in Basrah maternity & child hospital for the period from Oct.1994 to Oct.1995 there was a total of 10,200 deliveries; 60 of the new born were found to have congenital malformations, new born with low birth wt, very low apgar scor, family H/O congenital malformation & preterm babies were examined thoroughly to look for CNS defects, congenital heart disease, alimentary system defects, skeletal & skin abnormalities & special features going with trisomy 21,18,13

The examination was carried out in the delivery room or in the theater.

Most cases with congenital anomalies were admitted to the intensive care bady unit for further investigations while others were sent to a neurosurgoen most cases however were lost for follow up, no post mortem study was,

59

Birth defects per 1000 live births at Basra Maternity Hospital, 2003 to 2011

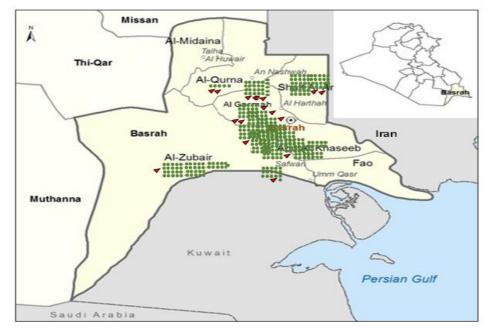
YEAR	Central	Nervous Sys Defects	tem	Other defects					
	Hydro cephalus	Anencephaly	Spina Bifida	Limb deformity	Omphalocele	Short extremities	Multiple defects	Total	
2003	3	5	4	3	2	2	4	23	
2004	3	6	8	3	4	3	8	34	
2005	3	4	5	5	4	4	9	34	
2006	6	8	8	3	5	2	12	44	
2007	6	8	6	3	4	3	15	45	
2008	2	8	4	1	3	2	15	35	
2009	6	8	7	4	4	4	15	48	
2010	5	4	3	3	2	2	10	29	
2011	4	6	6	4	2	1	14	37	

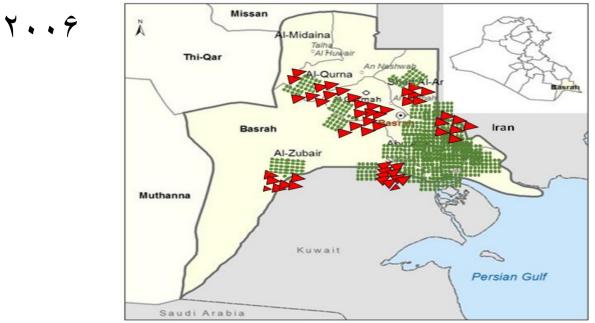
Year	Total number of deliveries	Total number of birth defects	Total number of birth defects per 1000 live	Smoking during pregnancy	Drinking during pregnancy
1989	7632	16	births 2.09	233	none
1990	8722	18	2.06	477	2
2006	16641	513	30.82	899	none
2008	17015	576	33.85	1033	none

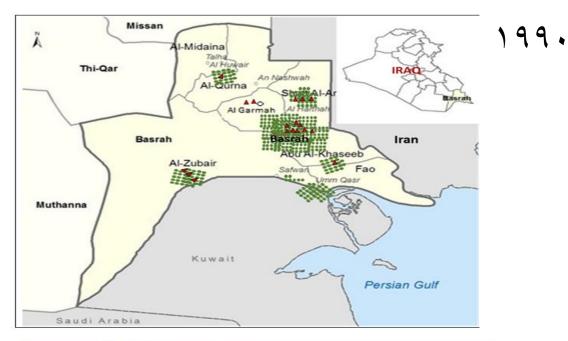
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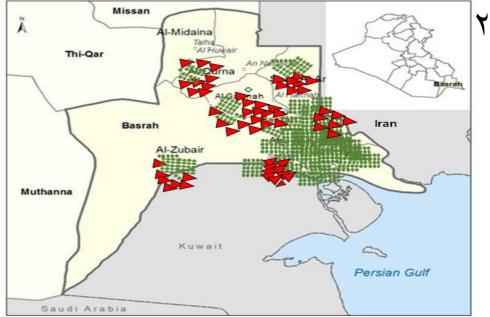
Year		Types of birth defects								Others	
			Central nervous system defects								
	Total No. birth defects	Anen cephaly	Hydro <u>Cephalus</u>	Exemphales	cleft lip & palate	Syndactyly & polydactyly	Extremity deformities	Congenital heart defects	Multiple birth defects		
1989	16	2	3	3	2	2	2	0	2 Potter's syndrome and Trisomy 21	0	0
1990	18	3	4	2	0	0	1	2	6	0	0
2006	513	46	129	20	34	71	22	60	71	50	10
2008	576	45	146	24	40	56	34	68	114	38	11





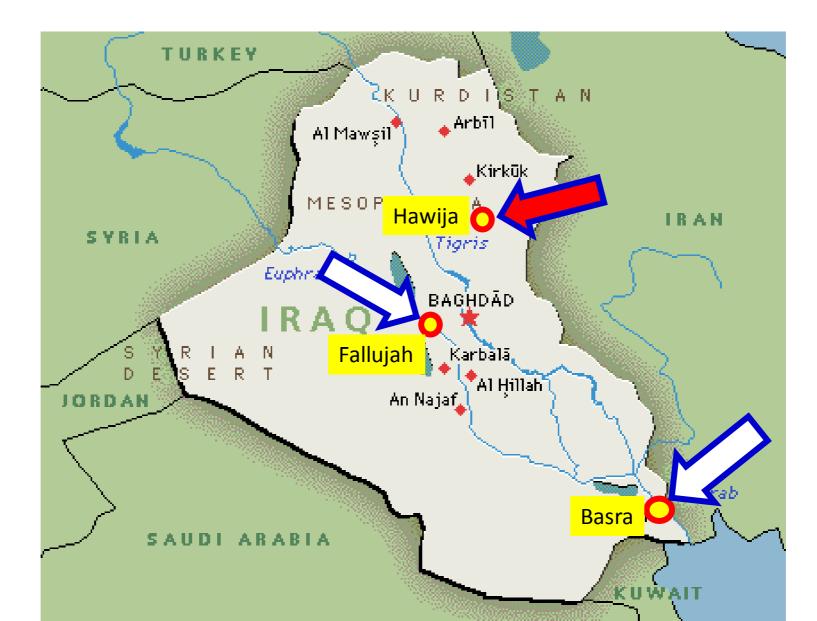






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الحويجة



Elevated titanium levels in Iraqi children with neurodevelopmental disorders echo findings in occupation soldiers

M. Savabieasfahani • S. Alaani • M. Tafash • S. Dastgiri • M. Al-Sabbak

Received: 12 June 2014 / Accepted: 28 October 2014 © The Author(s) 2014. This article is published with open access at Springerlink.com

Abstract Anthropogenic release of pollutants into the environment is especially harmful to growing fetuses and young children. These populations are at an increased risk of damage because exposure to pollutants living near the Iraqi border (2080 ± 940 vs 707 ± 421 µg/kg, p<0.0001). Magnesium was 1.7 times higher in Hawija children compared to Iranian children ($115,763\pm118,155$ vs $67,650\pm46,729$ µg/kg). In sam-



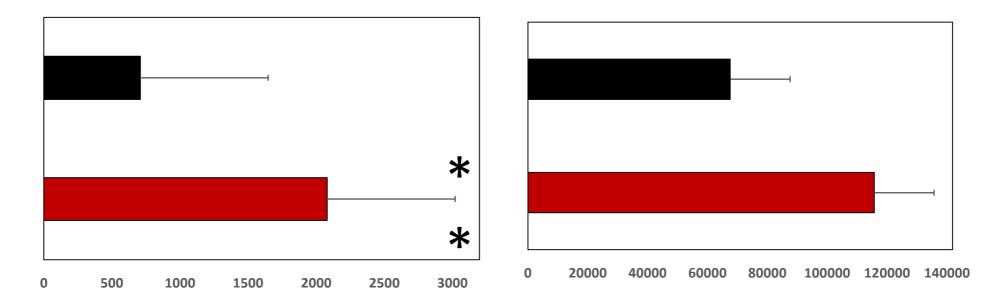








Hair Ti and Mg: Hawija vs Khoram Shahr



Titanium (Ti)

Magnesium (Mg)

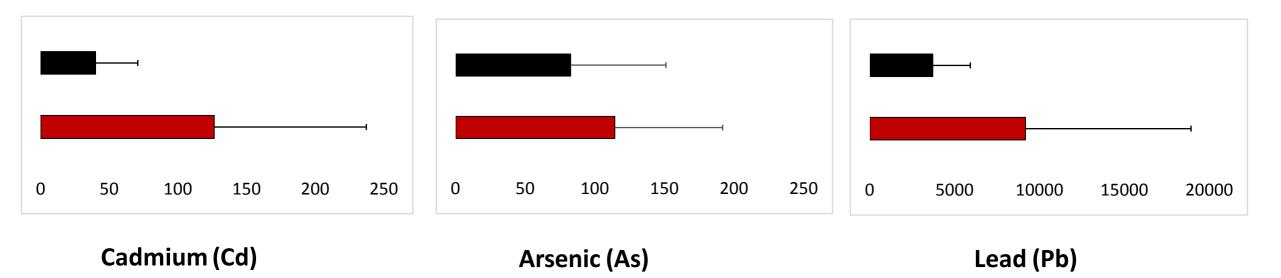


Khoram Shahr children

Hawija Children

µg/kg, p< 0.0001

Multiple metal exposures in Hawija children





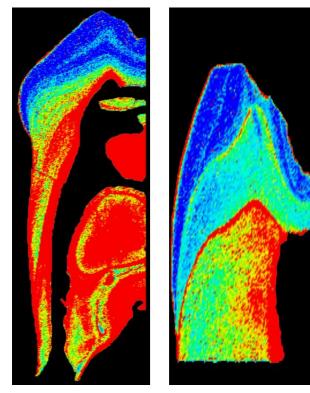
Non-disabled children

Children with developmental disorders

µg/kg

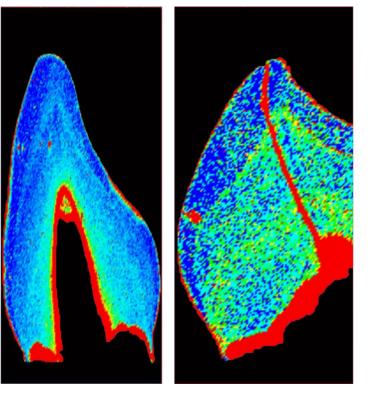
Lead in deciduous teeth of children:

1.1 mg/kg

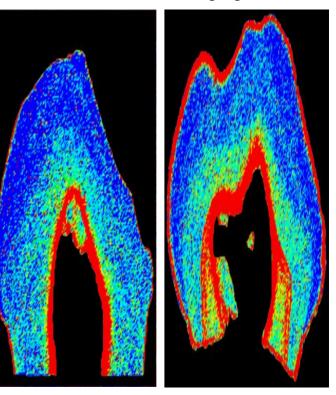


Birth defect--Basra, Iraq

0.42 mg/kg



0.31 mg/kg



Healthy--Isfahan, Iran

Relative Pb intensity

Healthy-- Beirut, Lebanon

Low

High

Laser ablation (ICP-MS), ²⁰⁸Pb/⁴³Ca s

Summary

- Public exposure to high levels of persistent toxic metals in Fallujah, Basra, and Hawija.
- Children's exposure to high levels of titanium and magnesium links Iraqi public exposure to the same contaminants found in sick U.S. soldiers.

•We know that cumulative multiple exposure to neurotoxic compounds causes developmental disorders, birth defects, brain and nervous system disorders.

What you can do:

 Demand clean-up of U.S. military bases and depleted uranium contaminated areas in Iraq. They are a major source of constant toxic release.

Ask your City Councils and Parliaments to vote for resolutions against any further U.S. bombardments or invasions of the Middle East.

Help organize events such as this in Europe.

Many thanks to:

The Rachel Carson Award Committee; The City of Stavanger, Norway

Global impact of our research: European Parliament agenda

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Global impact of our research: Reaction inside Iraq



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أصوات العراق / سياسة , يغداد

نائب أنبارى بالعراقية يطالب الحكومة بمعالجة "جذرية" لظاهرة زيادة التشوهات الخلقية في البلاد

09:41 03/11/2012 ص

بغداد/ أصوات العراق: طالب من محافظة الأنبار عن ائتلاف العراقية، السبت، الحكومة ووزارة الصحة بإيجاد حلول "جذرية" لمعالجة التشوهات الخلقية والأمراض الخطيرة الناجمة عن الحروب التي تعرض لها العراق، مؤكداً أن توفير البيئة المناسبة والرعاية الصحية بشكل "واحياً" على الحكومة تحاه شعبها.

الأستقاة للأفاء



وقال النائب خالد عبد الله العلواني، في بيان اصدره صباح اليوم، وتلقت وكالة (أصوات العراق) نسخة منه، إن هناك "زيادة

في نسبة التشوهات الخلقية بين حديثي الولادة في معظم محافظات العراق"، مشيراً إلى أنه بشكل "مؤشراً خطيراً يؤكد على أن المستوى الصحي والبيئي في العراق سيء للغاية"

وطالب العلواني، في بيانه الحكومة العِراقية ووزارة الصحة بضرورة "إيجاد حلول جذرية لِّمعالجة هذه التشوهات الخلقية"، مؤكداً في الوقت نفسه أن توفير البيئة والرعاية الصحية المناسبة "تشكل وأجباً على الحكومة تجاه شعبهًا".

وأضاف النائب الأُنباري عن العراقية، أن هناك "دراسات عديدة تؤكد ارتفاع نسبة التشوهات الخلقية والأمراض الخطيرة منها تلك التي قدمتها جامعة ميتشجن الأميركية ونشرت على نطاق واسع في الولايات المتحدة قبل أيام بشأن زيادة نسبة التشوهات الخلقية في مواليد

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MP describes Increase of birth defects in Iraq as "serious indicator"

Added by Baghdad Irag on November 3, 2012. Saved under Featured

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1994."

Indicator Baghdad (IraqiNews.com) -MP Khalid al-Alwani of the Iragiva Slate stressed that the rate of birth defects among the newborn children is a serious indicator confirms that the medical and environmental situation in Iraq is very bad.

Alwani The increase of the congenital abnormalities in most of the Iraqi provinces is a critical indicator," pointing out that "The study made by the US Michigan university stressed that the birth defects in Basra province increased to 12 times if compared with the same percentage in Iraq in

He called on the "Iraqi Government and Ministry of Health to find radical solutions to treat these congenital abnormalities, arguing that "This is the duty of the Government towards its people in providing wholesome environment and medical care for them."

Global impact of our research: Reaction inside Iraq

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hold a meeting with Iraqi Health Ministry officials in near future to review radioactive contamination and the increase of birth defects in the areas, said Iraqi representative Habib Hamza Al-Tarfi.

The Iragi parliament's Health and Environment Committee will

Earlier, legislator Khalid al-Wani had warned of the spiraling number of birth defects among Iraqi babies and reiterated the necessity of resolving the root cause of the defects.

The initiative to address the case was announced after a recent report, published in the Environmental Contamination and Toxicology bulletin, revealed high rates of miscarriage and toxic levels of lead and mercury contamination in the cities at the heart of the US-led military campaigns in Iraq, especially Fallujah and Basra.

New findings, published by the bulletin, suggested that the increased numbers of defects and miscarriages are linked to military assaults.

The study found that more than half of all the Iraqi babies born between 2007 and 2010 had been born with a birth defect, compared to one in 10 before the US-led invasion of the violence-scarred country in March 2003.

Hair samples, taken from residents of Fallujah, showed trace elements of poisonous metals. The levels of lead were five times higher in the hair of children with birth defects, compared to those without some, the study said.

US military forces first bombarded Fallujah in April 2004 after four employees from the American mercenary company, Blackwater were killed there.

An earlier study of 5,000 families in Fallujah in 2010, suggested that the risk of getting cancer among one-year-old or younger babies has increased worrisomely.

Iraqi lawmakers to study birth defects



Iraqi women and children seen during US military airstrikes (file photo).

Iraqi lawmakers are set to study reasons behind the growing number of birth defects in some areas of the country, a report says.

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THE LANCET

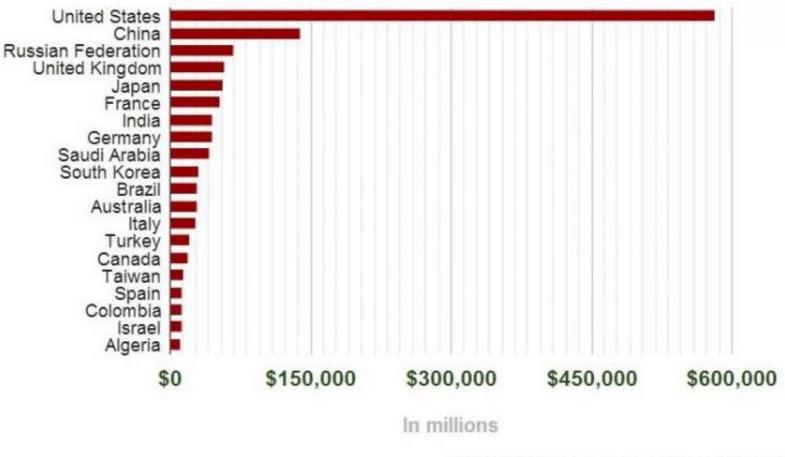
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Questions raised over Iraq congenita	al birth defects s	Is the Iraqi birth defects report believable?		
Paul C Webster			Mozhgan Savabieasfahani public health researcher	
			Ann Arbor, Michigan, USA	

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- WHO study relies on mother's memory
- Little information about sampling method
- Districts chosen for analysis may not reflect the characteristics of the governorate as a whole
- Misclassifications
- Measurement errors
- Selection bias

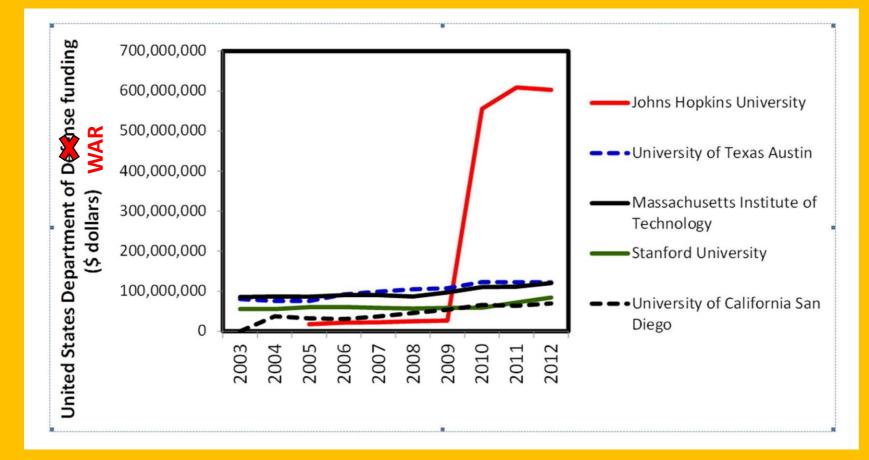
Top 20 Defense Budgets, 2013



SOURCE: IHS Jane's Aerospace, Defence & Security

Dr. Ghoshroy at MIT: There is growing recognition that defense spending at the current level of about \$700 billion is no longer sustainable in view of massive budget deficits.

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SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Higher Education R&D Survey. Savabieasfahani, Mozhgan (2014), "Militarized Universities Endanger Global Public Health", published in *Class, Race and Corporate Power*: Vol. 2: Issue 1, Article 4

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