EFFECTS OF WARS ON IRAQ

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• ABOUT 800 TONS OF D.U. WERE DELIVERED ON IRAQI MILITARY AND CIVILIAN TARGETS DURING THE GULF WAR-2.
• AT LEAST 300 TONS DELIVERED AT THE WEST PARTS OF BASRAH.
INTRODUCTION

The radiation activity has been studied by the Environmental Engineering Department of the College of Engineering, University of Baghdad. The activity in air was > 10 times the normal background which is (7 URh). In the soil the radiation level was 10 - 5000 times the normal background level (70 Bq/Kg) of soil.

(SUAD AL-AZAWI et.al.)
HEALTH CONSEQUENCES OF D.U.

• INCREASED INCIDENCE OF CANCERS.
• INCREASED INCIDENCE OF CONGENITAL MALFORMATIONS AND ABORTIONS.
• APPEARANCE OF DISEASES OF UNKNOWN AETIOLOGY (? DUE TO D.U. TOXICITY) AS MYOPATHIES, NEUROPATHIES & KIDNEY FAILURE.
• STRANGE CANCER PHENOMENON AFTER 1991.
• The cancer mortality > 19 folds within 12 years.
STRANGE CANCER PHENOMENON

• FAMILIAL CANCER CLUSTERING (58 FAMILIES UNDER FOLLOW UP UNTIL NOW).

• DOUBLE CANCER IN 9 PATIENTS.

• TRIPLE CANCER IN ONE PATIENT.

• CHANGE IN PATTERN OF CANCERS (THE CANCERS OF ELDERLY PEOPLE ARE SEEN IN YOUNG AGES).
### THE INCIDENCE OF CANCERS IN BASRAH AFTER 1991

<table>
<thead>
<tr>
<th>THE YEAR</th>
<th>CANCER INCIDENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1988</td>
<td>11/1000000</td>
</tr>
<tr>
<td>1998</td>
<td>75/1000000</td>
</tr>
<tr>
<td>2001</td>
<td>116/1000000</td>
</tr>
<tr>
<td>2002</td>
<td>123/1000000</td>
</tr>
</tbody>
</table>
chronic leukemia after gulf war 2

No. of cases

CML

CLL

years

995 996 997 998 999 2000 2001 2002
## DISTRIBUTION OF 5 COMMON CANCERS / 100000 OF POPULATION IN DIFFERENT PARTS OF BASRAH AFTER GULF WAR 2

<table>
<thead>
<tr>
<th>CITY</th>
<th>Ca. Breast</th>
<th>Leukaemias</th>
<th>Ca. lung</th>
<th>GIT-Cancers</th>
<th>Lymphomas</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASRAH</td>
<td>40.3</td>
<td>19.7</td>
<td>9.3</td>
<td>14.4</td>
<td>20.8</td>
</tr>
<tr>
<td>ZUBAIR</td>
<td>23.8</td>
<td>14.6</td>
<td>12.3</td>
<td>10.8</td>
<td>11.6</td>
</tr>
<tr>
<td>QURNA</td>
<td>13.5</td>
<td><strong>20.0</strong></td>
<td>3.2</td>
<td>14.8</td>
<td>13.5</td>
</tr>
<tr>
<td>ABULKHASEEB</td>
<td>27.4</td>
<td>8.9</td>
<td>8.2</td>
<td>8.9</td>
<td>15.6</td>
</tr>
<tr>
<td>MDAYNA</td>
<td>14.1</td>
<td>9.4</td>
<td>5.5</td>
<td>10.2</td>
<td>6.3</td>
</tr>
<tr>
<td>SHAT-ALARAB</td>
<td>14.1</td>
<td>10.6</td>
<td>5.9</td>
<td>11.8</td>
<td>17.6</td>
</tr>
<tr>
<td>FAO</td>
<td>31.2</td>
<td>6.3</td>
<td>12.5</td>
<td><strong>18.8</strong></td>
<td>12.5</td>
</tr>
</tbody>
</table>

Dr. Jawad Al-Ali
CANCER MORTALITY IN BASRA AFTER 1991 COMPARED WITH REFERENCE YEAR 1988
EVIDENCE TO BLAME D.U. AS A CAUSE FOR THESE DISEASES AFTER GULF WAR 2

- Increased levels of radiation in the area.
- Increased rate of mortality from cancers.
- Increased rate of congenital malformations.
- The types of cancers and their incubation periods are closely related to radiation.
- Familial cancers, double & triple cancers are only seen after 1991.
- Most of leukaemic children were born to fathers who were involved in Gulf War 2.
- The only cancer inducing factor which is new after the Gulf War 2 is the radiation factor (D.U.).
- To strengthen the evidences cytogenetic, cytochemistry and documentation of uranium in the tissues of the patients are needed.
Osteogenic sarcoma
rhabdomyosarcoma
Metastatic bone cancer
Osteogenic sarcoma
Malignant fibrous histiocytoma
Malignant fibrous histiocytoma
Parotid tumour
Squamous cell ca.
Liposarcoma
NHL
NO WARS, NO D.U. WEAPONS, NO NUCLEAR WEAPONS AND YES FOR PEACE SHADING THE ENTIRE WORLD