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REPORT OF THE MISSION DISPATCHED BY THE SECRETARY-GENERAL TO
INVESTIGATE ALLEGATIONS OF THE USE OF CHEMICAL WEAPONS IN
THE CONFLICT BETWEEN THE ISLAMIC REPUBLIC OF IRAN AND IRAQ

Note by the Secretary-General

Addendum

Appendix III

SUMMARY REPORT ON PATIENTS EXAMINED BY THE MEDICAL
SPECIALIST (DR. MANUEL DOMINGUEZ) WITH RELEVANT
CLINICAL DATA

Key to information (as provided by patient): A. Place and date
of exposure to chemical agent; B. Description of weapons;
C. Atmosphere and/or odour; D. Initial symptoms; E. Date
admitted to hospital.

PATIENTS EXAMINED AT THE BAGHIYAT-ALLAH HOSPITAL IN TEHRAN
ON 23 APRIL 1987

Case No. A-1:

Patient's identity: Mohammad Ebrahim, 65 years, civilian worker

- A. Khorramshahr, 11 April 1987
- B. Rocket from aircraft
- C. Whitish-grey smoke, pungent smell
- D. See para. 15 of report (S/18852)
- E. 14 April 1987

Medical condition: See para. 15 of report

Case No. A-2:

Patient's identity: Ali Siavoshi, 23 years, driver

- A. Khorramshahr, 11 April 1987
- B. Bomb
- C. Light grey smoke. pungent smell
- D. See para. 15 of report
- E. 14 April 1987

Medical condition: See para. 15 of report

Case No. A-3:

Patient's identity: Gholam Reza Sahrabei, 43 years, civilian worker

- A. Khorramshahr, 11 April 1987
- B. Missile or rocket
- C. Grey smoke, onion smell
- D. See para. 15 of report
- E. 14 April 1987

Medical condition: See para. 15 of report

Case No. A-4:

Patient's identity: Mousa Ghavassi, 59 years, civilian worker

- A. Khorramshahr, 11 April 1987
- B. Bomb or missile
- C. Whitish smoke, garlic smell
- D. See para. 15 of report
- E. 14 April 1987

Medical condition: See para. 15 of report

Case No. A-5:

Patient's identity: Ali Morad Yahyaie, 19 years, driver

- A. Khorramahahr, 10 April 1987
- B. Rocket
- C. Grey cloud, strong, unpleasant smell
- D. See para. 15 of report
- E. 14 April 1987

Medical condition: See para. 15 of report

PATIENTS EXAMINED AT LOGHMAAN HOSPITAL IN TEHRAN ON 23 APRIL 1987

Case No. B-1:

Patient's identity: Ali Jasbi, 22 years, Pasdar

- A. Sardesht, 20 April 1987
- B. Rocket from aircraft
- C. Dark grey smoke, garlic smell
- D. Choking, coughing, eyes and nose burning and streaming, vomiting, skin burning
- E. 21 April 1987

Medical condition: General condition poor; sensory function affected; severe conjunctivitis; entire right side of face is full of bullae and is dark in colour; large cupuliform bulla, about 3 cm in diameter, at the right armpit; bulla measuring about 4 cm on right arm; ulcer on posterior surface of left thigh, on which two large cupuliform bullae measuring about 12 cm are visible; back of right hand has extensive oedema; extensive oedema on penis and scrotum, which are blackened.

Case No. B-2:

Patient's identity: Amanollah Khorsheed, 19 years, volunteer

- A. Sardesht, 20 April 1987
- B. Rocket from aircraft

- C. Grey gas, dark liquid, sharp vegetable smell
- D. Severe burning and watering of eyes and nose, nausea, stifling sensation, burning sensation over body
- E. 21 April 1987

Medical condition: General condition poor; sensory function affected; eyes are firmly closed, with palpebral oedema; on being opened, the eyes exude a clear liquid; extensive vascular infiltration of the conjunctiva; severe photophobia; multiple vesicles, about 2 mm in diameter, on the face; multiple ulcers on right hand and forearm; back of left hand is full of vesicles; bulla about 3 cm in diameter on posterior surface of right thigh and three large desquamative lesions on thigh and legs, surrounded by dark area; large ulcer on posterior surface of left thigh; enormous bulla at the distal end of the prepuce which surrounds the glans.

Case No. B-3:

Patient's identity: Mohammed Didar, 46 years, basij

- A. Khorramshahr, 10 April 1987
- B. Rocket
- C. Dark cloud, pungent odour
- D. Coughing, choking, burning of eyes and nose, fell unconscious
- E. 13 April 1987

Medical condition: Sensory function good; severe conjunctivitis with photophobia and secretion; intense dark pigmentation on neck; scrotum exhibits a desquamative lesion which completely covers it and causes severe pain on movement; colour black.

Case No. B-4:

Patient's identity: Hamid Reza Zerghani, 22 years, basij

- A. Shalamchah front, 21 January 1987
- B. Shell (uncertain)
- C. Grey cloud, sharp odour
- D. Burning in eyes, mouth, nose, itching and irritation on skin
- E. 26 January 1987

Medical condition: General condition and sensory function good; slight desquamative erythema of upper limbs and neck; exploration of chest reveals stertor on both sides; consolidation found on percussion.

Case No. B-5:

Patient's identity: Gholam Ali Zamani, 20 years, soldier

- A. Khorramshahr, 10 April 1987
- B. Air rocket
- C. Whitish-grey smoke, garlic odour
- D. Sharp burning in eyes and nose, coughing, burning in patches of skin
- E. 13 April 1987

Medical condition: Sensory function good; moderate conjunctivitis; rounded ulcerations approximately 1 cm in diameter on back of right hand; chest has desquamative lesions in several areas; there are pigmented and desquamative lesions on both thighs; large ulceration on medial surface of left thigh; scrotum is ulcerated, causing severe pain on movement.

Case No. B-6:

Patient's identity: Mohammad Modiri, 55 years, driver (civilian)

- A. Khorramshahr, 10 April 1987
- B. Missile or shell
- C. Dark smoke, pungent garlic odour
- D. Felt sharp burning sensation internally (nose, mouth, throat) and externally (eyes, skin)
- E. 13 April 1987

Medical condition: Sensory function alert; complains of pain on movement; no conjunctivitis; large ulceration on right wrist and back of right hand; ulceration 3 x 4 cm in lumbar region and a similar one in coccygeal region; outer surface of ischium and the thighs down to the knees are ulcerated.

Case No. B-7:

Patient's identity: Mennat Ali Rahmatipour, 30 years, basij

- A. Sardesht, 20 April 1987
- B. Rocket or bomb
- C. Grey cloud, garlic odour
- D. Intense burning in eyes, nose, mouth, throat. Streaming eyes and nose, coughing. Nausea. Burning sensation on skin
- E. 21 April 1987

Medical condition: General condition severely affected; severe conjunctivitis with lachrymation and photophobia; palpebral oedema; face dark and congested; slight blackening of armpits; scrotum and prepuce oedematous and dark.

Case No. B-8:

Patient's identity: Jalil Saidpour, 16 years, villager

- A. Alout, 16 April 1987
- B. Uncertain
- C. Dark cloud, garlic smell
- D. Choking, eyes and nose burning and watering, skin burning
- E. 19 April 1987

Medical condition: Sensory function good; severe conjunctivitis; face blackened; lips chapped; armpits exhibit typical black appearance; scrotum completely ulcerated.

Case No. B-9:

Patient's identity: Chamin Saidpour, 2 years (female)

- A. Alout, 16 April 1987 (according to relatives)
- B. ---
- C. ---

D. ---

E. 19 April 1987

Medical condition: General condition bad; no conjunctivitis; enormous ulcers with dark edges on upper left chest and left arm; ulceration measuring about 6 cm on medial surface of right thigh and a much larger one on left thigh; above the pubis there is another ulceration with dark edges, like the previous ones, approximately 5 cm long in a horizontal direction and 3 cm wide; external genitalia also affected; signs of bilateral bronchitis.

Case No. B-10:

Patient's identity: Asmar Saidpour, 15 years (female)

A. Alout, 16 April 1987

B. ---

C. Dark cloud, garlic odour

D. Coughing, burning of eyes, nose, skin

E. 19 April 1987

Medical condition: Sensory function bad; face black; rhinorrhoea; no conjunctivitis. The patient's body was not uncovered, owing to her condition. Leucocyte count on 18 April 1987 showed 10,200 leucocytes, including 90 per cent granular, 8 per cent lymphocytes and 2 per cent monocytes; a new count on 22 April showed 3,300 leucocytes, 93 per cent granular and 7 per cent lymphocytes.

Case No. B-11:

Patient's identity: Mina Khalili (Saidpour), 30 years (female)

A. Alout, 16 April 1987

B. ---

C. Dark cloud, garlic odour

D. Uncontrollable coughing, burning and watering of eyes, nose, mouth; burning of skin

E. 19 April 1987

Medical condition: General condition and sensory function bad; severe conjunctivitis; palpebral oedema; enormous ulcerated lesion irregularly covering left shoulder and left chest, in the anterior portion, reaching to a point about 3 finger breadths above the navel; right arm has an ulceration about 15 cm long and 10 cm wide; desquamative lesions on left arm; armpits black; crepitant stertor on both sides of chest.

Case No. B-12:

Patient's identity: Sabra Saidpour, 4 years (female)

A. Alout, 16 April 1987 (according to relatives)

B. ---

C. ---

D. ---

E. 19 April 1987

Medical condition: The child is prostrated; sensory function alert and distressed; severe dyspnoea; tracheotomy cannula in throat; conjunctivitis but no skin lesions. (The patient died 90 minutes after the study.)

Case No. B-13:

Patient's identity: Majid Parchami, 20 years, Pasdar

A. Khorramshahr, 10 April 1987

B. Missile (from air, but unsure if from aircraft)

C. Damp, greyish cloud, odour of garlic and mud

D. Sharp irritation in eyes, nose, throat, with coughing, intense irritation of skin

E. 12 April 1987

Medical condition: Sensory function good; no conjunctivitis observed; right arm exhibits ulcers which are in the process of healing; lesions also on right forearm and back of right hand; left arm has residues of some 20 small bullae; skin desquamation on shoulders and back; back of neck blackened; ulceration on both armpits, with some scabs; ulcers on upper part of anterior surface of both thighs; genitalia oedematous.

Case No. B-14:

Patient's identity: Ali Reza Yazdan-Panah, 16 years, basij

- A. Khorramshahr, 11 April 1987
- B. Rocket
- C. Whitish "powdery" smoke, foetid odour
- D. Stifling, coughing, burning of eyes and nose with watering, sharply irritated throat, vomiting, intense burning over body
- E. 12 April 1987

Medical condition: The patient's general condition is very bad; severe palpebral oedema closes his eyes, which exude a watery discharge; dried blood visible around the nose (epistaxis); face, neck and trunk very dark; black colouring around armpits, which, however, are not damaged; desquamation on the scrotum; severe dyspnoea. Two days after the attack, the blood count showed 13,000 leucocytes, with 12 per cent lymphocytes; a second blood count four days later showed only 8,300 leucocytes, with 4 per cent lymphocytes. On 23 April 1987, examination of respiratory function yielded the following results:

pO₂ 47.7 per cent;

pCO₂ 85.3 per cent;

HCO₃ 41.1 per cent.

Urinalysis revealed: proteins +; acetone +; blood +++; the sediment exhibited some 42 erythrocytes per field and 2 or 3 leucocytes. This urinary finding may be due to the action of the yperite on being eliminated.

Case No. B-15:

Patient's identity: Said Mahmood Hashemian, 22 years, Pasdar

- A. Khorramshahr, 11 April 1987
- B. Rocket
- C. Grey smoke, garlic smell
- D. Irritated eyes, nose, throat, skin, with cough
- E. 12 April 1987

Medical condition: Sensory function good; no conjunctivitis; entire trunk, from horizontal line at level of manubrium sterni to about 4 cm above navel exhibits intense dark pigmentation. On the left arm there are multiple rounded clear lesions surrounded by a dark area, clearly showing that these are the remnants of numerous bullae whose covering has been lost. Ulcerated areas observed on legs, and black areas elsewhere on legs; groin on both sides ulcerated and blackened; scrotum and penis moist and black.

Case No. B-16:

Patient's identity: Mohammad Soltani, 35 years, basij

- A. Khorramshahr, 11 April 1987
- B. Rocket or missile
- C. No gas seen, foetid odour
- D. Itching in eyes, nose, skin in patches
- E. 13 April 1987

Medical condition: General condition and sensory function good; moderate conjunctivitis; both popliteal regions, armpits and groin on both sides completely black; genitalia swollen.

Case No. B-17:

Patient's identity: Ali Fath Abadi, 19 years, basij

- A. Khorramshahr, 10 April 1987
- B. Unsure
- C. Grey cloud, garlic odour
- D. Sharply irritated eyes, nose, parts of skin
- E. 13 April 1987

Medical condition: General condition and sensory function good; conjunctivitis; neck and chest desquamative, with irregular dark areas down to a horizontal line at level of navel; black desquamation on thighs; genitalia swollen and dark black.

Case No. B-18:

Patient's identity: Said Abbas Razavi, 25 years, basij

- A. Khorramshahr, 10 April 1987
- B. Rocket or missile
- C. No gas seen, odour of garlic and burnt oil
- D. Burning feeling in eyes and nose, with watering, irritated throat and skin
- E. 12 April 1987

Medical condition: General condition and sensory function good; moderate conjunctivitis; from neck down to a few centimetres below navel, the skin is blackish, with desquamation; thighs black; genitalia moist and dark.

Case No. B-19:

Patient's identity: Mohammad Hassan Safaie, 38 years, basij

- A. Khorramshahr, 11 April 1987
- B. Bomb
- C. Grey cloud, smell of grass
- D. Burning feeling in eyes, nose, throat, skin
- E. 13 April 1987

Medical condition: General condition and sensory function good; moderate conjunctivitis; entire trunk exhibits erythematous blackish lesions down to a horizontal line at level of navel; upper limbs exhibit similar lesions, which are interrupted in a circular area about 8 cm wide, corresponding to rolled-up shirt-sleeves patient was wearing at time of attack; genitalia oedematous and ulcerated.

Case No. B-20:

Patient's identity: Ali Nazar Homayunkosh, 18 years, basij

- A. Ahadan, 26 March 1987
- B. Bomb or missile
- C. Bluish cloud, garlic smell

D. Irritated nose, eyes with tears, cough

E. 30 March 1987

Medical condition: General condition and sensory function good; conjunctivitis; skin shows no lesions at present; hair has fallen out; frequent coughing; nails cyanotic and slightly concave; auscultation reveals crepitant stertor and sibilant sounds.

Case No. B-21:

Patient's identity: Mehdi Nasiri, 18 years, basij

A. Khorramshahr, 10 April 1987

B. Rocket or shell

C. Brown oily liquid, strong smell of garlic

D. Burning of eyes with tears, of nose and throat with cough, of skin

E. 19 April 1987

Medical condition: Sensory function good; severe conjunctivitis; black fringe around neck; shoulders, armpits and arms blackened; chest also exhibits an intense dark colour; thighs have desquamative lesions and blackened areas; groin dark on both sides; genitalia black.

Case No. B-22:

Patient's identity: Hassan Chenarani, 17 years, basij

A. Khorramshahr, 10 April 1987

B. Rocket

C. Brown oily substance, garlic smell

D. Sharp burning in eyes and nose, both streaming, pain in throat with coughing, sharply irritated skin

E. 13 April 1987

Medical condition: Sensory function good; severe conjunctivitis; extensive depigmented areas are found on the back, representing the base of large bullae from which the skin has come off; black halo surrounding these areas; anterior part of chest also exhibits denuded areas with black borders; traces of multiple bullae on upper limb; pruriginous black lesions on thighs; dark lesions on scrotum and penis.

Case No. B-23:

Patient's identity: Mir Ghani Hossein, 21 years, soldier

- A. Sardehit, 20 April 1987
- B. Rocket or bomb
- C. Whitish-grey cloud, pungent smell
- D. Irritation in eyes, nose, throat and skin
- E. 22 April 1987

Medical condition: Sensory function good; moderate conjunctivitis; some blisters on face and under chin. (This patient also had a conventional-weapon wound in the head.)

Case No. B-24:

Patient's identity: Majid Azam, 18 years, basij

- A. Shalamchek front, 21 January 1987
- B. Shell or rocket
- C. No gas seen, strong smell (non-specific)
- D. Irritated eyes, nose, throat, skin
- E. 26 January 1987

Medical condition: General condition and sensory function good; no conjunctivitis; no lesions on skin; respiratory apparatus exhibits signs of acute bronchitis.

Case No. B-25:

Patient's identity: Ebrahim Behdarvand, 18 years, basij

- A. Shalamchek front, 21 January 1987
- B. Shell or rocket
- C. White cloud, garlic odour
- D. Burning eyes and nose, irritated throat and skin
- E. 26 January 1987

Medical condition: Sensory function alert; no conjunctivitis; extensive skin lesions remain on both thighs; irregular scars on knees, caused by infection secondary to the ulcerations; coughing, with expectoration of mucus; nails cyanotic and slightly convex; auscultation reveals sibilant sounds on each side of chest, especially on the anterior surface.

PATIENTS EXAMINED (16 OUT OF 45) AT THE LABBAFI-NEJAD HOSPITAL
IN TEHRAN ON 26 APRIL 1987

Case No. C-1:

Patient's identity: Hossein Sabet, 23 years, Pasdar

- A. Baneh, 21 April 1987
- B. Bomb
- C. Whitish cloud, foul odour
- D. Sharply irritated eyes and nose with watering, coughing and vomiting, intense burning sensation on skin and in throat
- E. 22 April 1987

Medical condition: Severely affected; good sensory function; extremely severe conjunctivitis; eyelid is swollen; lachrymation; face, neck, trunk and limbs black, armpits and genitalia even darker black; the only unaffected areas are a circular region about 15 cm wide at waist level, palms of hands and soles of feet.

Case No. C-2:

Patient's identity: Gholam Hossein Pirgazi, 16 years, basij

- A. Khorramshahr, 10 April 1987
- B. Bomb or rocket
- C. Grey smoke, garlic smell
- D. Burning in eyes, nose, mouth, throat, burning on skin
- E. 12 April 1987

Medical condition: General condition defective, but good sensory function; conjunctivitis; desquamative lesions on face; neck blackened; armpits very black; groin also very dark on both sides; scrotum swollen and black; coughing and expectoration. Pulmonary function tests yielded the following results:

FEV₁ 84 per cent

FVC 79 per cent

Quotient 93 per cent

FEV 53 per cent

FMF 67 per cent

Case No. C-3:

Patient's identity: Hadi Markarram, 22 years, Pasdar

- A. Khorramshahr, 11 April 1987
- B. Rocket
- C. Greyish cloud, onion smell
- D. Uncontrollable coughing, nausea, sharp burning in eyes and nose, both streaming, and in throat, sharp burning feeling on skin
- E. 12 April 1987

Medical condition: General condition bad; sensory function alert; moderate conjunctivitis; skin of face is affected; back is red in its entirety, like a first-degree burn; armpits red; bullae and remnants of bullae observed on back of right hand; genitalia not affected; in lungs there had been extensive oedema, which has improved, but there is still dyspnoea and severe coughing even now. Exploration of the respiratory function yielded the following results:

FEV₁ 29 per cent

FVC 44 per cent

Quotient 58 per cent

FEV 7 per cent

FMF 9 per cent

Case No. C-4:

Patient's identity: Farshad Arabi, 20 years, Pasdar

- A. Khorramshahr, 10 April 1987 (wearing mask)
- B. Rocket
- C. No description
- D. "Cold" burning on parts of skin
- E. 12 April 1987

Medical condition: General condition and sensory function good; no conjunctivitis; on arms there is a lesion like that of a superficial burn, which covers 30 per cent of their area; skin between fingers comes off easily; backs of hands dark; trunk blackened in its entirety, except for a belt about 4 cm wide whose upper edge passes through the navel; lesions on legs and dorsal portions of feet; genitalia swollen and painful, with discharge; colour dark.

Case No. C-5:

Patient's identity: Hossein Ali Karimi, 22 years, military technician

- A. Khorramshahr, 4 January 1987
- B. Bomb
- C. Grey smoke, pungent odour
- D. Irritated eyes, nose, throat
- E. 8 January 1987

Medical condition: This patient was subjected to aggressive chemicals in January 1987, with skin lesions which have now completely disappeared. He suffered from conjunctivitis and bronchitis. At present he has respiratory insufficiency, with very low functional values:

FEV₁ 25 per cent

FVC 42 per cent

Quotient 49 per cent

FEV 9 per cent

FMP 8 per cent

Bronchoscopy reveals macroscopic granuloma, with signs of obliterating bronchiolitis.

Case No. C-6:

Patient's identity: Ali Roustairie, 55 years, basij

- A. Al-Faw, February 1986
- B. Bomb
- C. Whitish-grey cloud, sharp smell
- D. Coughing, burning in eyes, nose, throat, irritated skin
- E. Not given

Medical condition: In February 1986 the patient was attacked with yperite, and this caused him respiratory problems which have developed unfavourably. At present he has frequent coughing, which in many cases fails to eliminate the sputum. Very severe dyspnoea.

Case No. C-7:

Patient's identity: Asghar Mansouri, 23 years, Pasdar

- A. Sardesht, 21 April 1987
- B. Bomb
- C. Whitish cloud, garlic smell
- D. Sharp burning in eyes, nose and skin
- E. 24 April 1987

Medical condition: Sensory function good; severe conjunctivitis; face exhibits whitish lesions measuring about 3 cm which represent the base of bullae whose wall has come off; rounded erythematous lesions on neck; trunk not affected; small bullae on anterior surface of legs; groin black on both sides; prepuce black, with enormous oedema; scrotum black and swollen.

Case No. C-8:

Patient's identity: Hamid Sherani, 25 years, military technician

- A. Sardesht, 21 April 1987
- B. Bomb
- C. Grey smoke, garlic smell

D. Burning of eyes and skin, irritated nose, throat

E. 24 April 1987

Medical condition: Sensory function good; moderate conjunctivitis; on face there is a reddening, pigmented with black; neck is also dark in colour; armpits reddish with black borders; skin is reddened from a horizontal line beginning about 5 cm below navel down to knees; penis and scrotum very dark; coughing and moderate dyspnoea; x-ray shows bilateral infiltration. Respiratory function tests yield the following results:

FEV₁ 86 per cent

FVC 95 per cent

Quotient 76 per cent

FEV 73 per cent

FME 50 per cent

Case No. C-9:

Patient's identity: Ali Reza Alinian, 46 years, basij

A. Sardesht, 21 April 1987

B. Bomb

C. Darkish smoke, garlic smell

D. Irritation in eyes, nose and skin

E. 24 April 1987

Medical condition General condition and sensory function good; severe conjunctivitis; arms dark; groin on both sides dark; penis and scrotum dark red.

Case No. C-10:

Patient's identity: Ali Imani, 34 years, worker

A. Sardesht, 21 April 1987

B. Bomb

C. Grey smoke, garlic smell

D. Burning eyes, cough, nausea, vomiting

E. 24 April 1987

Medical condition: Nausea, vomiting, conjunctivitis; face and neck exhibit first-degree burns; upper limbs are severely affected; erythematous-papulous lesions on backs of hands, perhaps corresponding to numerous very small bullae; rest of back of hand is dark-pigmented; first-degree and second-degree burns on shoulder and trunk; scrotum black and painful, with discharge.

Case No. C-11:

Patient's identity: Ebrahim Akbari, 39 years, Pasdar

A. Sardesht, 21 April 1987

B. Bomb

C. Grey smoke, garlic smell

D. Irritation in eyes, nose, throat, face

E. 24 April 1987

Medical condition: Sensory function good; moderate conjunctivitis; face black; rest of skin has no lesions; irritating frequent cough; rhonchus and sibilant sounds at anterior surface of chest.

Case No. C-12:

Patient's identity: Dost Ali Rasoulpour, 24 years, basij

A. Sardesht, 21 April 1987

B. Bomb

C. Greyish cloud, garlic smell

D. Sharp burning of eyes and nose with watering, cough, burning skin

E. 24 April 1987

Medical condition: Sensory function good; extremely severe conjunctivitis, with photophobia and lachrymation; face blackened; traces of small bullae; skin of neck, trunk and limbs dark; armpits black; genitalia black and painful.

Case No. C-13:

Patient's identity: Bakhtiar Naderi, 14 years, student

- A. Sardesht, 21 April 1987
- B. Aircraft (i.e., rocket or bomb)
- C. Dark smoke, garlic smell
- D. Sharp burning in eyes, nose, throat, and on skin
- E. 23 April 1987

Medical condition: Sensory function good; severe conjunctivitis; lachrymation; photophobia; desquamative lesions on face; skin of trunk blackened; external genitalia black.

Case No. C-14:

Patient's identity: Ali Mohammed Salimi, 46 years, military technician

- A. Sardesht, 21 April 1987
- B. Bomb
- C. Grey cloud, garlic smell
- D. Intense irritation in eyes, nose, throat, face
- E. 24 April 1987

Medical condition: General condition and sensory function good; severe conjunctivitis; face full of scabs.

Case No. C-15:

Patient's identity: Ali Ghaderi, 27 years, military technician

- A. Sardesht, 21 April 1987
- B. Bomb
- C. Whitish smoke, onion smell

D. Intense burning in eyes and nose, nausea, sharp burning on skin

E. 24 April 1987

Medical condition: Sensory function good; extensive palpebral oedema; severe conjunctivitis; photophobia; first-degree burns on face, neck and trunk; enormous bullae on arms and forearms; enormous oedema on back of left hand; genitals black.

Case No. C-16:

Patient's identity: Ali Abbasi, 22 years, Pasdar

A. Sardesht, 21 April 1987

B. Bomb

C. Greyish smoke, garlic smell

D. Irritation of eyes and nose

E. 24 April 1987

Medical condition: This patient has only moderate conjunctivitis, with no skin lesions.

PATIENTS EXAMINED AT THE AL-RASHEED HOSPITAL IN BAGHDAD
ON 30 APRIL 1987

Case No. D-1:

Patient's identity: Mohammed Saleh, 36 years, warrant officer

A. East of Basra front, 13 April 1987 (wearing mask)

B. Shell

C. Saw no smoke, could not smell, told odour was of garlic

D. Burning of arms after gloves removed

E. 15 April 1987

Medical condition: General condition and sensory function good; no conjunctivitis; on neck there is a small triangular dark area (base at top) and two small bullae; second-degree burns on left arm; on both forearms and backs of hands the skin is coming off, leaving a reddish background; scabs on knuckles of second finger, in bend of right elbow and in some other areas; rest of body is normal.

Case No. D-2:

Patient's identity: Yunus Nuri Sirhan, 25 years, soldier

- A. East of Basra front, 12 April 1987
- B. Shell
- C. Smoke, bad smell of garlic with other odour
- D. Sharp burning of eyes and nose, vomiting, burning of skin
- E. 16 April 1987

Medical condition: General condition altered; severe conjunctivitis; lachrymation and photophobia; face dark, neck even darker; in armpits there are rounded areas which are dark in colour and have blacker borders, with desquamation; irregular dark blotches on trunk; large black area in groin on each side; the scrotum and penis are oedematous, blackened and painful; coughing; signs of bronchitis; pulmonary congestion; leucocytosis.

Case No. D-3:

Patient's identity: Adib Mohammad Jawad, 26 years, soldier

- A. East of Basra front, 12 April 1987
- B. Shell
- C. Grey smoke, garlic smell
- D. Burning of eyes and nose, vomiting, muscle spasms
- E. 14 April 1987

Medical condition: General condition somewhat altered; moderate conjunctivitis; extensive oedema of lips, with chapping and scabs; trunk dark, colour irregular, with some areas darker than others; blackening ends at a horizontal line about 4 cm below navel; popliteal fossa on the right leg exhibits second-degree burns; there are also second-degree burns, although less extensive, in left popliteal fossa and on left knee; on posterior part of left thigh there is an extensive burn, 20 cm high and 7 cm wide; second-degree burns on lower legs and feet; scrotum slightly affected; coughing and expectoration of mucus; bilateral infiltration (bronchopneumonia); leucocytosis fluctuating about a value of 9,000 leucocytes.

Case No. D-4:

Patient's identity: Hussain Abboud Hashem, 23 years, lieutenant

- A. East of Basra front, 9 April 1987
- B. Shell
- C. Smoke, offensive odour of gas
- D. Burning in eyes and nose, feeling of suffocation, vomiting, could not see for 24 hours
- E. 11 April 1987

Medical condition: General condition and sensory function good; severe conjunctivitis; moderate lachrymation; photophobia; aphonia; fracture of elbow, with small lesions; lumbar, sacrococcygeal and gluteal regions exhibit extensive desquamative lesions with irregular black borders.

Case No. D-5:

Patient's identity: Khaddam Saif Khalef, 34 years, soldier

- A. East of Basra sector, 12 April 1987
- B. Shell
- C. Grey smoke, garlic smell
- D. Itching and burning in eyes and nose, feeling of suffocation
- E. 16 April 1987

Medical condition: General condition and sensory function good; no conjunctivitis; face not affected; darkening on neck and left chest; armpits more affected; desquamative black lesions on forearms; genitalia not affected.

Case No. D-6:

Patient's identity: Aziz Chickar Oudeh, 24 years, soldier

- A. East of Basra, no man's land, 10 April 1987
- B. Shell
- C. Smell of burning rubber

D. Cough with sputum, feeling of swelling of body, abdominal distension, unconscious for two days

E. 14 April 1987

Medical condition: General condition good; initial x-ray made on day after attack shows diffuse irregular infiltration on both sides of chest, which gradually improved and became normal eight days later; no skin lesions and no conjunctivitis.

Case No. D-7:

Patient's identity: Faraj Zahir Shash, 35 years, soldier

A. East of Basra, "first line", 10 April 1987

B. Did not hear explosion

C. Bad odour, like garlic

D. Loss of vision, vomiting, convulsions, unconscious for four days

E. 18 April 1987

Medical condition: General condition good; x-ray made on 10 April showed military opacities covering both sides of chest, which gradually receded, and on 18 April some increased hilar density remained; on 20 April the military infiltration was found to have practically disappeared, but the increased hilar density was still visible in x-ray taken on 26 April; no skin lesions and no conjunctivitis.

Case No. D-8:

Patient's identity: Salem Mohsin Mahdi, 24 years, soldier

A. East of Basra, front line, 10 April 1987

B. Probably artillery, explosions of low intensity

C. Pungent bad smell

D. Lost vision and could not open eyes for 24 hours, lachrymation, vomiting

E. 14 April 1987

Medical condition: General condition good; chest x-ray on 11 April shows irregular cottony infiltration with increased hilar density on both sides of chest; x-ray taken on 12 April shows even more extensive area of such infiltration, especially on right side of the chest; from that day on, x-rays showed the patient improving, becoming practically normal in x-ray taken on 27 April; no lesions of skin or conjunctiva.

Case No. D-9:

Patient's identity: Abdel Amir Kaddam, 33 years, corporal

- A. East of Basra front, 9 April 1987
- B. Several shells
- C. Smell of burning rubber
- D. Severe burning in eyes, running nose, cough, respiratory difficulty, collapsed after 2 hours
- E. 14 April 1987

Medical condition: General condition good; x-ray taken on 10 April shows the presence of infiltration with irregular blotches over the entire chest, especially in middle and lower lobes on both sides; x-ray taken on 11 April shows slight improvement, accelerated on subsequent x-rays, becoming normal on 27 April; no lesions of skin or conjunctiva.

Case No. D-10:

Patient's identity: Jamil Yusuf Abbas, 19 years, soldier

- A. East of Basra, "first line", 10 April 1987
- B. Low intensity explosion
- C. Smell of burning rubber or plastic
- D. Pain in eyes, loss of vision, coughed sputum, collapsed, unconscious for three days
- E. 14 April 1987

Medical condition: General condition good; x-ray taken on eleventh day shows cottony infiltrations on both sides of chest, more pronounced in middle and lower lobes and in hilar zone; patient gradually improved, x-ray on 30 April was normal; no lesions of skin or conjunctiva.

Case No. D-11:

Patient's identity: Karim Mohammed Ghulam, 25 years, sergeant

- A. East of Basra front, 10 April 1987
- B. No explosion or flash

- C. Strong bad smell
- D. Profuse lachrymation, vomiting, collapsed but not completely unconscious
- E. 16 April 1987

Medical condition: General condition good; x-ray taken on 16 April (six days after being injured) showed slight infiltration, not very dense, on both sides of chest; subsequent x-rays showed rapid improvement; x-ray taken on 29 April may be considered normal; no lesions of skin or conjunctiva.

Case No. D-12:

Patient's identity: Sadiq Ghayyadh, 30 years, warrant officer

- A. East of Basra sector, 9 April 1987
- B. No explosion or flash
- C. Strong odour
- D. Vomited blood, cough with foamy sputum, lachrymation, lost consciousness
- E. 25 April 1987

Medical condition: General condition good; x-ray taken on 11 April shows moderate infiltration in middle and lower lobes on both sides of chest; subsequent x-rays show rapid improvement, almost total by 27 April; no lesions of skin or conjunctiva.

Case No. D-13:

Patient's identity: Hameed Jabbar Zaa'ji, 40 years, soldier

- A. East of Basra sector, 10 April 1987
- B. No explosion or flash
- C. Bad smell
- D. Feeling of suffocation
- E. 19 April 1987

Medical condition: General condition good; x-ray taken on 19 April (nine days after being attacked) shows moderate infiltration in right lower lobe and slight parahilar increase in density; x-ray taken on 27 April is normal; no lesions of skin or conjunctiva.

Case No. D-14:

Patient's identity: Abbas Mohammad Suneid, 38 years, soldier

- A. East of Basra sector, 10 April 1987
- B. Red flash, smoke, low intensity explosion unlike artillery shell
- C. Garlic smell
- D. Lachrymation, pain in eyes, vomiting with blood, sputum with blood, unconscious for one night
- E. 19 April 1987

Medical condition: General condition good; x-ray taken on 19 April shows slight opacity at base of each hemithorax and moderate miliary infiltration in the rest of the image; x-ray taken on 26 April showed only a slight hilar density increase; no lesions of skin or conjunctiva.

Case No. D-15:

Patient's identity: Nagi Daoud, 30 years, warrant officer

- A. East of Basra, "first line", 9 April 1987
- B. Red flash, low intensity explosion unlike artillery shell
- C. Sharp, bad odour
- D. Lachrymation, expectoration and vomiting with blood, oppression in chest, lost consciousness for six hours
- E. 19 April 1987

Medical condition: General condition good; x-ray taken on 11 April shows irregular cottony infiltrations on both sides of chest, especially in middle and lower lobes; hilar density increase; x-ray taken on 27 April shows only the hilar density increase; skin and conjunctiva are not affected.

PATIENTS EXAMINED AT THE MILITARY HOSPITAL IN BASRA ON 1 MAY 1987

Case No. E-1:

Patient's identity: Jawad Kaddoum Jassem, 24 years, soldier

- A. East of Basra, "first line", 9 April 1987
- B. No flash, faint explosion unlike conventional shell

- C. Unusual smell
- D. Severe coughing, lachrymation, nasal secretions, foamy sputum, oppressive feeling and shortage of breath; lost consciousness briefly
- E. 9 April 1987

Medical condition: General condition good; x-ray taken on 10 April shows parahilar opacities, which improved rapidly; no lesions of skin or conjunctiva.

Case No. E-2:

Patient's identity: Razaq Ali Abid, 18 years, soldier

- A. East of Basra front, 9 April 1987
- B. Faint explosions, no flash
- C. Yellowish gas, smell of rotten apples
- D. Lachrymation, pain and irritation in eyes, irritating cough, frothy sputum, vomiting with blood, oppression in chest, unconscious for 30 minutes
- E. 10 April 1987

Medical condition: General condition good; x-ray taken on 10 April shows bilateral cottony infiltrations in the entire chest; x-ray taken on 12 April is normal; no lesions of skin or conjunctiva.

Case No. E-3:

Patient's identity: Abid Abbas Abdou Zahrah, 22 years, soldier

- A. East of Basra, "first line", 9 April 1987
- B. No flash, non-conventional low explosion
- C. Smell, but could not give description
- D. Lachrymation, irritation and pain in eyes, irritant cough, bloody, frothy sputum, tightness in chest, unconscious for 30 minutes
- E. 9 April 1987

Medical condition: General condition good; x-ray taken on 9 April shows images of bilateral pulmonary oedema, occupying all three lobes; x-ray taken on 12 April is better; very slight conjunctivitis; no skin lesions.

Case No. E-4:

Patient's identity: Noor Jabbar Jawad, 24 years, soldier

- A. East of Basra front, 9 April 1987
- B. No flash, low intensity explosion unlike conventional shell
- C. No description of smell
- D. Lachrymation, pain and irritation in eyes, nasal secretion, irritant cough, frothy yellow expectoration, oppression in chest, pain in legs, unconscious briefly
- E. 9 April 1987

Medical condition: General condition good; x-ray taken on 9 April shows moderate infiltration; x-ray taken on 12 April shows great improvement; no lesions of skin or conjunctiva.

Case No. E-5:

Patient's identity: Kalim Shia Samar, 23 years, soldier

- A. East of Basra front, 9 April 1987
- B. No flash or explosion
- C. Irritating smell
- D. Lachrymation, pain and irritation in eyes, cough with yellowish-red expectoration, shortness of breath, tightness in chest, unconscious for 30 minutes
- E. 9 April 1987

Medical condition: General condition good; x-ray taken on 9 April shows bilateral increase in density in middle pulmonary lobes and less pronounced increase in lower lobes; x-ray taken on 12 April shows great improvement; no lesions of skin or conjunctiva.

Case No. E-6:

Patient's identity: Hammad Salem Buhar, 33 years, soldier

- A. East of Basra, "first line", 9 April 1987
- B. No flash or explosion

- C. No smell
- D. Lachrymation, pain and irritation in eyes, irritant cough, shortness of breath, tightness in chest
- E. 9 April 1987

Medical condition: General condition good; x-ray taken on 9 April shows increased density in upper and middle lobes on both sides of chest; a few days later the density and extent of the lesions had decreased, with great improvement by 18 April, although the condition had not yet returned completely to normal; no lesions of skin or conjunctiva.

Case No. E-7:

Patient's identity: Ali Mohammad Obaid, 23 years, soldier

- A. East of Basra, "first line", 9 April 1987
- B. No flash or explosion
- C. Unfamiliar, irritating smell
- D. Lachrymation, pain and irritation in eyes, irritant cough, frothy reddish-brown sputum, diarrhoea, unconscious for one hour
- E. 9 April 1987

Medical condition: General condition good; x-ray taken on 10 April shows flocculent opacities on right side of chest and hilar density increase on both sides; on 12 April the opacity had decreased, but hilar density increase remained; no lesions of skin or conjunctiva.

Case No. E-8:

Patient's identity: Ali Kamis Kittab, 23 years, soldier

- A. East of Basra front, 9 April 1987
- B. No flash, faint explosion
- C. Irritating smell of gas
- D. Irritant cough with frothy, reddish expectoration, lachrymation, pain in eyes, diarrhoea, unconscious for 10 to 15 minutes.
- E. 9 April 1987

Medical condition: General condition good; x-ray taken on 9 April shows bilateral infiltrative lesions; great improvement by 12 April; no lesions of skin or conjunctiva.

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