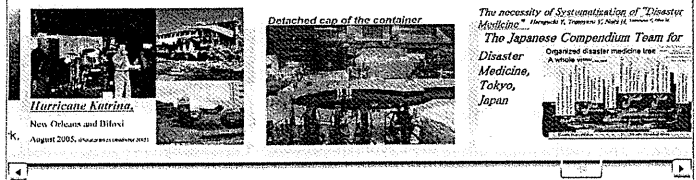
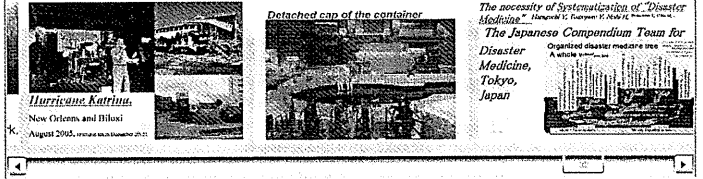
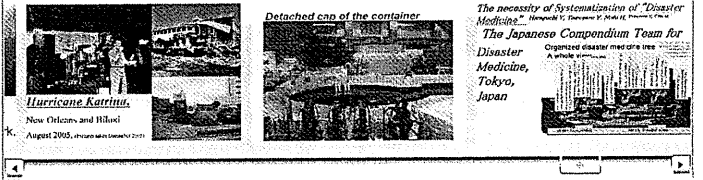
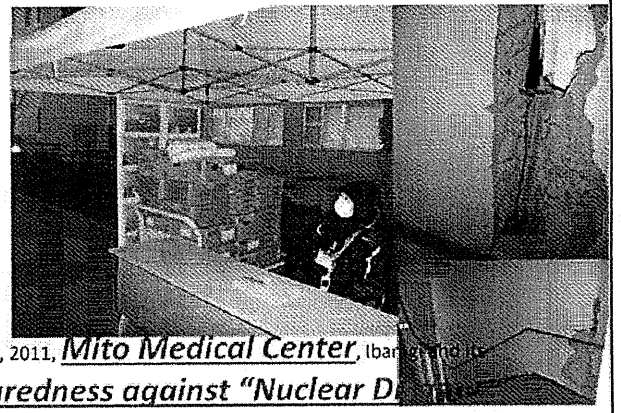


Information / Communication System

is extremely important, but it should be
 (1) based upon reliability of people to administration and medical system
 (2) multiple communication systems should be prepared: such as
 1) phone, e-mail, etc. : mutual system
 2) TV, radio, wireless, etc. : one way
 ⇒ Lack often in the disaster

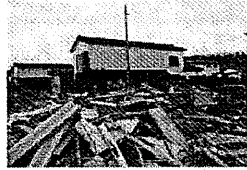


Medical system for contaminated people (OPC)





Hisanohama, Iwaki, Fukushima Tsunami Fire

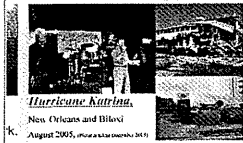


Medical and rescue system

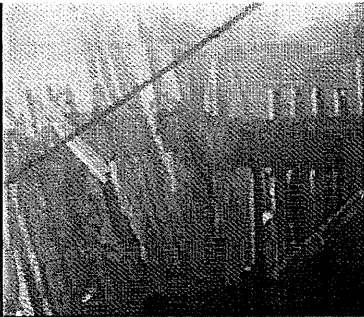
in the station. From no.1 door, patient(s) are transported and no.2 bed is used for emergency care and decontamination.

①から搬入
②から搬入
③から搬入

患者搬送時、①の緊急ドアから搬入、
②除染・救命処置
③から搬入・搬出・救命処置
の手順



Destroyed WTC (Sep 11, 2001, four days after terrorism)



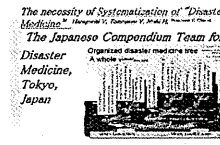
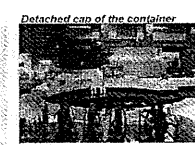
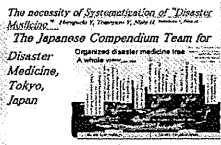
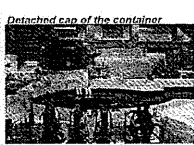
After 911 attack New York.



Hurricane Katrina,

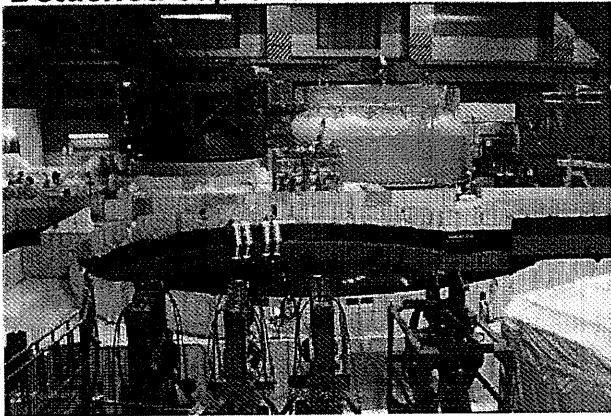
New Orleans and Biloxi

August 2005, (Pictures taken December 2005)





Detached cap of the container

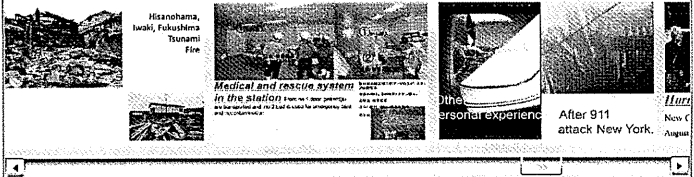
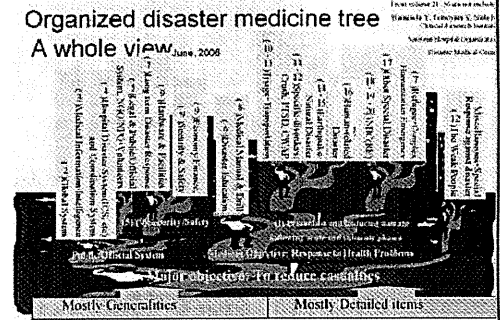


The necessity of Systematization of "Disaster Medicine" Haraguchi Y, Tomoyasu Y, Nishi H, Yamamoto Y, Ohta M, :

The Japanese Compendium Team for

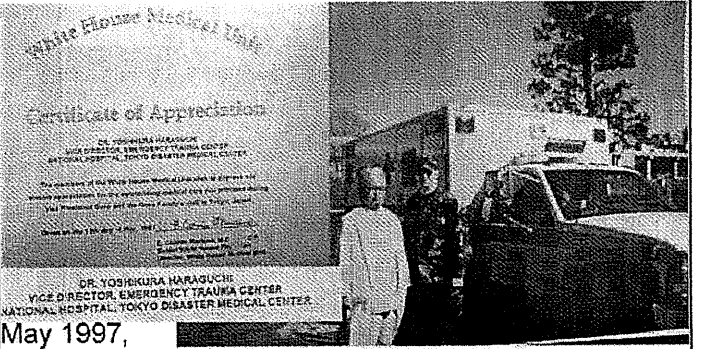
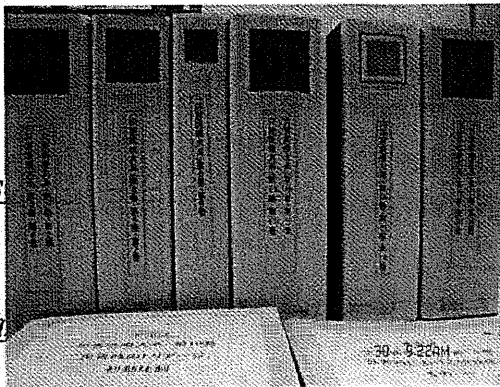
Disaster Medicine, Tokyo, Japan

Organized disaster medicine tree
A whole view June, 2008

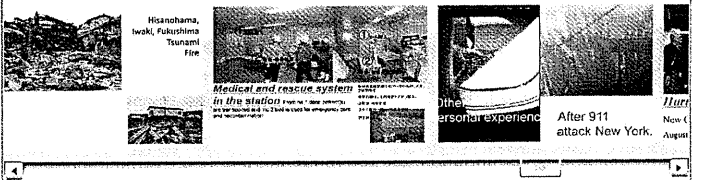
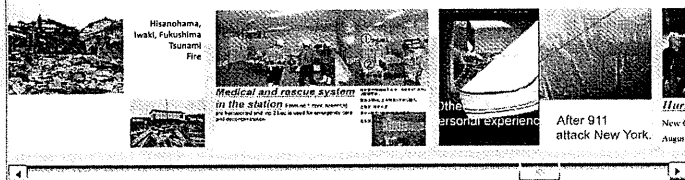


External view:

Aspects of *the Japanese version of disaster medicine compendium*
Total cumulative pages exceeds more than 5,400 pages.



May 1997,
After support to Vice president Gore and his family
Certificate of Appreciation from Director from White House Medical Unit



Disaster Medicine Calendar 2011

Let's learn about disaster medicine and overcome disaster to enjoy our lives with a smile.

Disaster Medicine Calendar 2011 is a collection of disaster medicine related information. It is a good reference for disaster medicine practitioners and those who are interested in disaster medicine.

Our Colleague in Chernobyl/Pripiati and in IAEA, Vienna



Disaster Medicine Calendar 2011 is a collection of disaster medicine related information. It is a good reference for disaster medicine practitioners and those who are interested in disaster medicine. The calendar includes information on disaster medicine, disaster medicine education, disaster medicine research, disaster medicine practice, disaster medicine policy, disaster medicine ethics, disaster medicine law, disaster medicine economics, disaster medicine sociology, disaster medicine psychology, disaster medicine anthropology, disaster medicine history, disaster medicine geography, disaster medicine demography, disaster medicine epidemiology, disaster medicine statistics, disaster medicine informatics, disaster medicine communication, disaster medicine management, disaster medicine leadership, disaster medicine teamwork, disaster medicine quality improvement, disaster medicine patient safety, disaster medicine evidence-based practice, disaster medicine research synthesis, disaster medicine knowledge translation, disaster medicine implementation science, disaster medicine health equity, disaster medicine social justice, disaster medicine human rights, disaster medicine global health, disaster medicine international cooperation, disaster medicine cross-cultural communication, disaster medicine cultural competence, disaster medicine cultural humility, disaster medicine cultural safety, disaster medicine cultural safety, disaster medicine cultural safety, disaster medicine cultural safety.

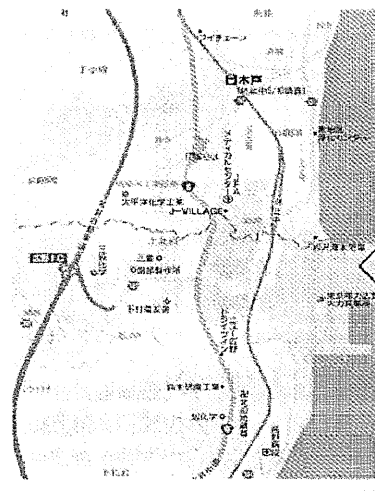
Hisanohama, Iwaki, Fukushima Tsunami Fire

Medical and rescue system in the station

Other personal experience

After 911 attack New York.

Hurricane August



Damaged thermal power plant Hirono

Located just 20km from Fukushima Daiichi Nuclear Plant(s)

Hisanohama, Iwaki, Fukushima Tsunami Fire

Medical and rescue system in the station

Other personal experience

After 911 attack New York.

Hurricane August

TEPCO Thermal Power Station, damaged locates just 20km from the destroyed nuclear plant (borderline of access)

Hisanohama, Iwaki, Fukushima Tsunami Fire

Medical and rescue system in the station

Other personal experience

After 911 attack New York.

Hurricane August

4. Bioterrorism and/or NBC Terrorism/Disaster

In this chapter, the following themes or bioterrorism and NBC disaster records are shown, which will be thought to contribute to the research.

(1) Japan USA WMD Tokyo Seminar, June, 2000

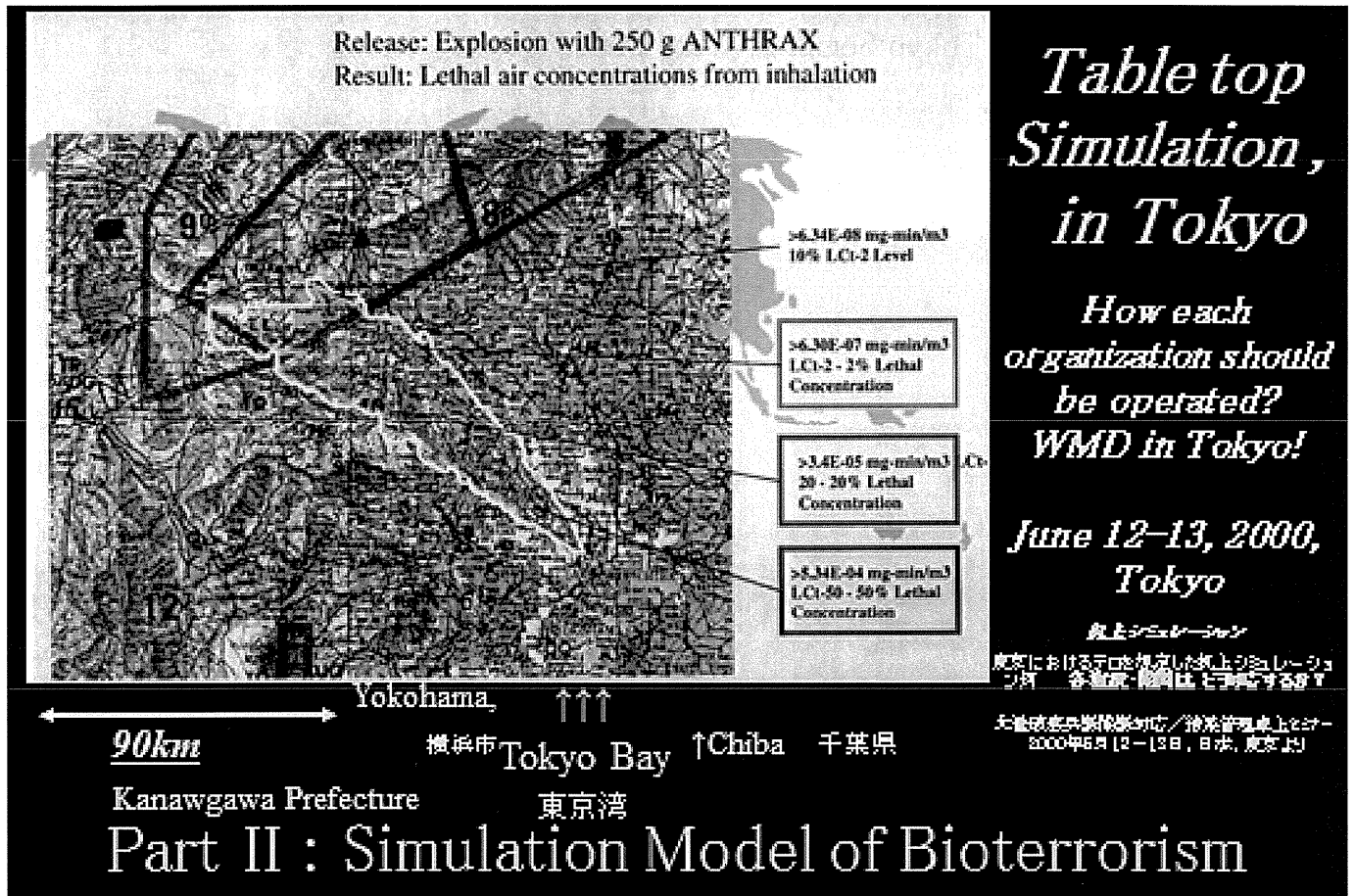
(2) DVATEX and its table-top simulation: full text

(3)G7+ α meeting

(3)-1, G7+Mexico Health Minister's Initiative for Global Health Security, September 2002, Langen, Germany(with Marburg Institute)

(3)-2, G7+Global Health Security Action Group Workshop "Plans on preparedness and response to chemical events" November 2002, Tokyo, Japan

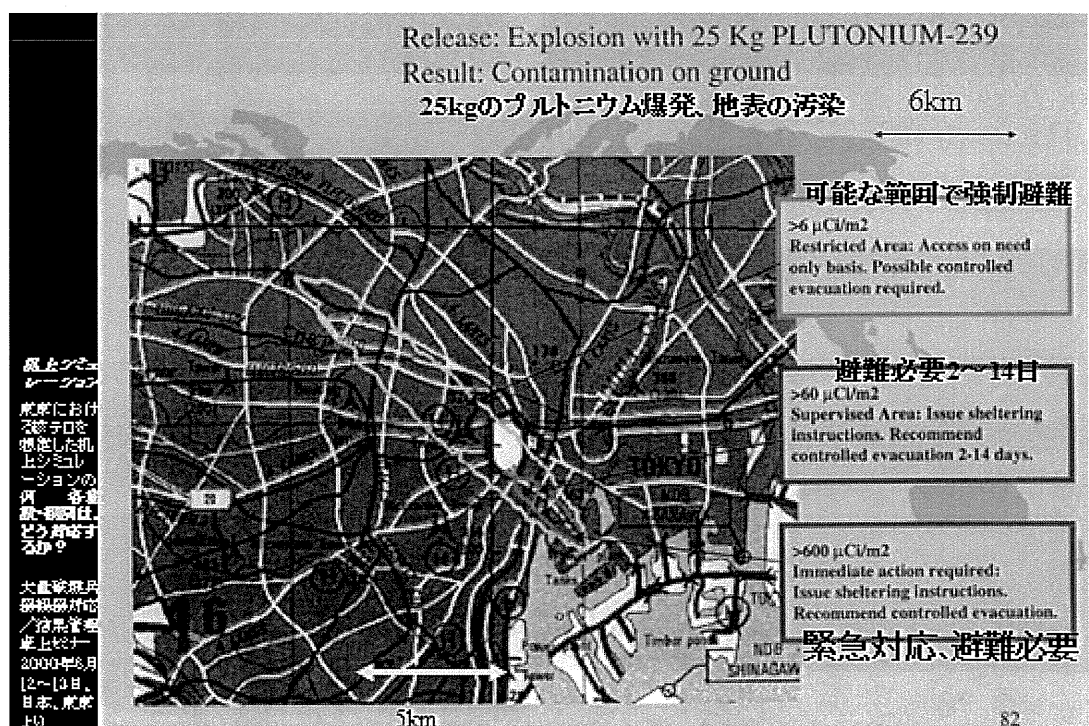
(4) International Medical Collaboration for Nuclear Disaster. March 2000, Tokyo, Japan



These simulation models are very useful for considering measurement against pandemic as well as terrorism of any type.

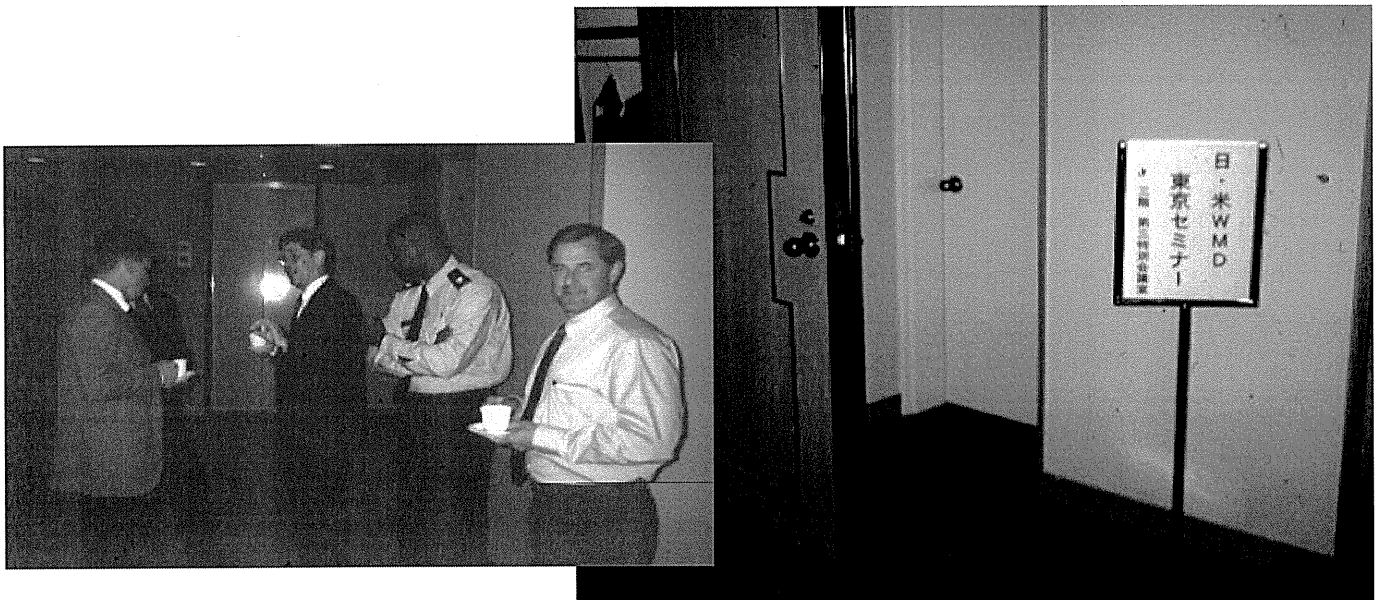
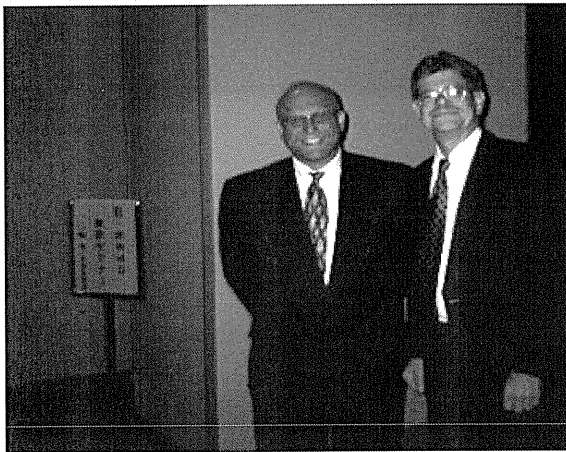
Upper one : Anthrax

Lower schema Plutonium



日米WMD東京セミナー

Japan USA WMD Tokyo Seminar, June, 2000



(2) DVATEX and its table-top simulation: full text

(3) G7+ α meeting record: Initiative for Global Health Security Records

以下の二つの活動も、約10年前のものであるが、参考になる重要データと考えられるので、提示する。前者は、バイオテロに力点が、後者は化学テロ・サリン問題と防護・PPE等に力点が置かれたものである。

4-(3)-1, G7+Mexico Health Minister's Initiative for Global Health Security, September 2002, Langen, Germany(with Marburg Institute)
“ Best Practices in Vaccine Production for small pox and other potential Pathogens ” Workshop: Paul-Ehrlich-Institute, September 2002, Langen Germany

(ドイツでの会議であるが、日本としても強く関与している(特に蟻田功先生。 なお、この項の後半は、Marburgの研究施設を訪問した際の写真を加えた(本会議のLangenからほど近い位置に存する。))

Main theme: bioterrorism, especially focused on small pox.

4-(3)-2, G7+Global Health Security Action Group Workshop “Plans on preparedness and response to chemical events” November 2002, Tokyo, Japan
Main theme: Sarin subway terrorism, caused by “The Aum religious group”.
English program and report are prepared.

These two meeting scenes are shown.

(補足説明:わが国で、私たち(原口義座、友保洋三、西法正、永田伝)が、厚生労働省の指導のもと実働させていただいたものである。

補足して説明すると、化学テロを主な対象とした研究グループで、Canadaの専門チームが主導しているが、わが国での開催を厚生省が依頼され、当方が所属していた病院での開催、当方がchief organizer/plannerとして開催したもの(November 7-8, 2008 国立病院東京災害医療センターにて)。

繰り返しとなるが、主要テーマは、化学物質災害・テロであったが、特にオウムサリン事件を中心テーマに開催した。なお、オウム真理教は、炭疽菌テロの試み、炭疽菌の培養の試みも行っている。この工場(?)は亀戸にあったとされる。

炭疽菌テロは、失敗したが、このBCテロ(biological, chemical terrorism)の1995年は、非公的・非国家・非政府機関であっても十分危険性があることを、皮肉なことであるが、世界にアピールすることとなった最初の事件、しかも平和国家を標榜する日本で起こったこととして歴史に残ると考えている。

詳細は、プログラム・会議の同意事項等記載したのもがございますので、ご興味をお持ちでしたら、原口義座までご連絡ください。

4-(3)-1

G7+Mexico Health Ministers' Initiative for Global Health Security
 "Best Practices in Vaccine Production for small pox and other potential Pathogens" Workshop:
 Paul-Ehrlich-Institute. September 2002, Langen Germany

the view of bioterrorism we have expertise
 diagnostics,
 epidemiology of infectious diseases,
 communication,
 field and applied epidemiology,
 management of epidemic events.

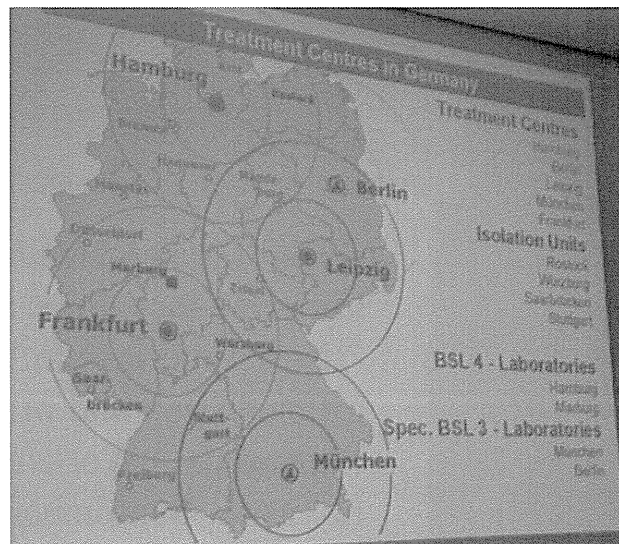
the moment the existing structures are
 improve the level of preparedness and the
 respond. This includes additional person

ANTHRAX Situation

- notifiable disease/agent
- more than 3.000 investigated threats
 (samples to be diagnosed for anthrax: white powder, spores, etc.)
- two "false positive" results
- not a single confirmed case

RECENT OUTBREAKS

- 1994 Polio in India
- 1995 Ebola Fever outbreak in Zaire/DRC Congo
- 1995 Toxic gas attack of the Aum sect in the Tokyo metro
- 1997/98 New influenza strain (H5N1) in Hong Kong
- 1997 Suspected Lassa Fever in Mali
- 1999 Yellow Fever in Brandenburg/germ
- 2000 Lassa Fever in Schwabing/Full/Wurzburg
- 2000 Lassa Fever in West-Germany
- 2001 Anthrax attacks in the United States



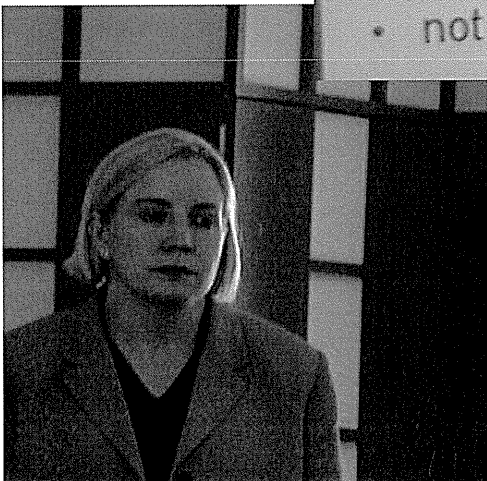
G7+ Mexico Health Ministers' Initiative for Global Health Security

- Informal consultation on WHO recommendations for production and quality control of smallpox vaccine - WHO, Geneva, 2-3 May 2002
- Planning for Modelling exercise
- "Train the trainer" sessions on smallpox containment
- Meeting to discuss issues related to IHR regulations in the context of a smallpox outbreak

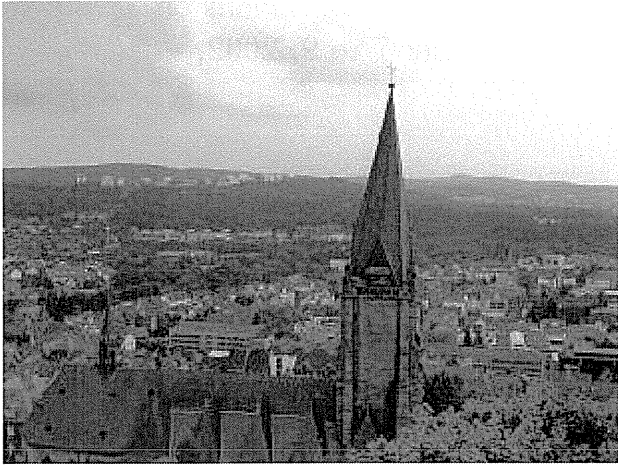
Smallpox Vaccination, 2002 — Communicable Disease Surveillance and Response — 22

ANTHRAX: Situation

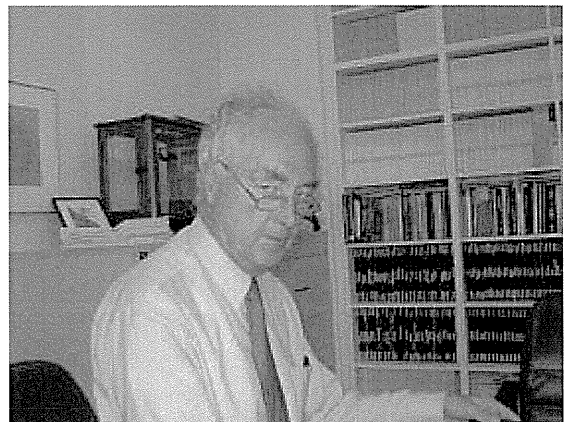
- notifiable disease/agent
- more than 3,000 investigated threats
(samples to be diagnosed for anthrax: white powder, but also Kleenex, dirty trousers, etc.)
- two "false positive" results
- not a single confirmed case



(1)G7+Mexico Health Ministers' Initiative for Global Health Security
“ Best Practices in Vaccine Production for small pox and other potential Pathogens ” Workshop: Paul-Ehrlich-Institute. September 2002, Langen Germany



Marburg/ Institute of Infectious Disease



4-(3)-2 G7+Global Health Security Action Group Workshop “Plans on preparedness and response to chemical events” November 7 to 9, 2002, Tokyo,



Chief organizer /
planner:
Hagatuchi Y,
Tomoyasu Y, and
Nishi H,
Nagata T (adviser)

National Hospital
Tokyo Disaster
Medical Center

G7+ Global Health Security Action Group Workshop “Plans on preparedness and response to chemical events”

On the additional publication of program manuscripts

November 13, 2002

Yoshikura Haraguchi, Chief Editor, National Hospital Tokyo Disaster Medical Center

On November 7th (Thursday) and 8th (Friday), the G7+ Global Health Security Action Group Workshop “Plans on preparedness and response to chemical events” was conducted.

Under direction of the Ministry of Health, Labor and Welfare, we have given our full cooperation to this workshop. I believe it has been a meaningful one.

We have compiled a collection of plans and manuscripts used in this program. During the meeting we were fortunate to have a larger number of participating specialists than expected. However, we had difficulty in the preparing a sufficient number of programs, and many doctors/experts were left without one.

I strongly regret that we could only provide copies of the presentations, which were of the highest caliber in this field, to a large number of participants.

In addition to this reason, I believe that research done at this workshop will have great worth, and therefore have decided to make this additional publication.

I would like to express my deepest gratitude to the doctors/experts who gave presentations and graciously performed the role of chairman and host, as well as to all staff of our hospital despite their extremely busy schedules.

I would like to add that a summary of this conference will likely be published as a Term of Reference (TOR) in early December, in the Ministry of Health, Labor and Welfare’s name (supervised by Keiji Tanaka, Councilor for General Technical Affairs).

G7+ Global Health Security Action Group Workshop “Plans on preparedness and response to chemical events” プログラム原稿集、追加発行にあたって

平成 14 年 11 月 13 日

編集責任者 国立病院東京災害医療センター臨床研究部 原口義座

このたび、11月7日(木)・8日(金)の両日、G7+ Global Health Security Action Group Workshop “Plans on preparedness and response to chemical events” が開催されました。

私たちは、厚生労働省の指示をうけ、前記ワークショップに全面的に協力させていただき、プログラムの企画・立案段階から関与させていただき、また、プログラム・発表原稿集の作成にもあたりました。

基本的には、クローズドの会ではありますが、我が国からも多くの専門家のご参加をいただき、有意義な会となったと思っております。

しかしながら、実際の開催にあたって、大変ありがたいことでございますが、予想以上の多くの先生方にご興味をもっていただき、ご参加・ご協力をいただきましたことありまして、参加された先生方、ご助力をいただいた先生方に配布するだけの十分な数のプログラム・発表原稿集の作成が間に合わず、多くの先生方にご配布できませんでした。

そのため、かなりの方々に、貴重なご発表をいただいた内容のうち、コピーのみと不完全な形でお渡しするだけになったことを、大変申し訳なく、また残念に思っております。

そのことが、大きな理由ではありますが、今後もこの会での検討内容がいろいろ利用され、更なる充実につながることも期待できると思っておりますので、記録資料集として追加作成をさせていただくこととしました。

最後に、こころよくご講演をいただいた先生はもちろん、お忙しい中、座長・司会をお願いし、全面的にご協力をいただいた先生方に心から感謝をいたしております。また特に準備段階から最後まで困難を乗り越えてお手伝いをいただいた当院庶務課の方々に御礼申し上げますとともに、当院のスタッフの全ての方々に大変ご不便をかけたにもかかわらず、ご協力をいただきありがとうございました。

なお、12月始めに Term of Reference (TOR) として、本会議のまとめが、厚生労働省として(田中 慶司 技術総括審議官が中心となって) 出されると思っておりますことを、付け加えさせていただきます。

(連絡先：国立病院東京災害医療センター 臨床研究部 〒 190-0014 立川市緑町 3256
akisatoh@msf.biglobe.ne.jp TEL：042 526 5563、 FAX:042 526 5540
原口義座、友保洋三、山田江理香)

[参考資料]

以下は、厚生労働省大臣官房厚生科学課の堂本課長補佐から転送していただいたカナダ代表の先生からのメールです。

* 前回の化学テロ会議で、座長等を引き受けてくださいましたカナダ代表の Claude Giroux 氏からメールが届きましたので、報告いたします。

----- 転送者: 堂本 英治 (doumoto-hideharu) 転送日: 2002/11/13 08:02 -----

"Claude Giroux" <Claude_Giroux@hc-sc.gc.ca>

2002/11/13 00:50

宛先: doumoto-hideharu@mhlw.go.jp

件名: On a personal note

I wish to thank you personally for organizing a very successful and invigorating meeting. The Tokyo workshop will stand out as a significant milestone for international cooperation in the development of a multilateral collaboration framework.

I was impressed with the quality of the presentations, the frankness of the discussions, and the attention to details that you and your staff demonstrated throughout the meeting. Please convey my admiration and respect to all of your collaborators who, in many ways, made the workshop proceed without a glitch and achieved a very positive outcome.

I thoroughly enjoyed myself and I regret only that my stay in your beautiful and very civilized country was too short.

I am looking forward at opportunities to further working with you.

P.S. I purchased a Japanese - English conversation book.

G7+ Global Health Security Action Group
Workshop “Plans on preparedness and response to chemical events”
November 7-8, 2002
Tokyo Disaster Medical Center, Tokyo, Japan
Organized by Tokyo Disaster Medical Center and
Ministry of Health, Labour and Welfare, Japan

DAY 1 **2002/11/7**

0900-0905 Welcome address H Henmi, Tokyo Disaster Medical Center
0905-0915 Opening remarks K Tanaka, Assistant Minister for Technical Affairs, Ministry of Health, Labour and Welfare

0915-1030 Session 1 (The Tokyo Subway Sarin Case in Japan)

Chair: H Henmi, Tokyo Disaster Medical Center

0915-0935 T Nagai, Security Bureau, National Police Agency

0935-0955 K Tsukada, Tokyo Fire Department

0955-1015 T Shirahama, Japan Self-Defense Force, Central Hospital

1015-1030 Short review of VX and Sarin gas: S Hori, Keio University, School of Medicine

1030-1045 *Coffee break*

1045-1300 Session 2 (Lessons from Sarin cases and response plans in Japan)

Chair: Y Yamamoto, Nippon Medical School

1045-1105 Medical staffs at local hospitals

T Okumura, Juntendo University, School of Medicine

1105-1125 Invited review: Analysis of chemical materials

Y Seto, National Research Institute of Police Science

1125-1155 1994 Matsumoto sarin case in Japan

H Okudera, Shinsyu University, School of Medicine

1155-1215 Response plans against chemical events in Japan

S Sasaki, Health Policy Bureau, Ministry of Health, Labour and Welfare

1215-1300 Discussion

1300-1400 *Lunch*

1400-1540 Session 3 (Preparedness and response plans among the participants I)

Chairs: J Armour, Defense R & D Canada and H Domoto, Ministry of Health, Labour and Welfare

1400-1420 WHO: K Gutschmidt

1420-1440 EU: L Vittozzi

1440-1500 USA: G Noonan

1500-1520 Canada: C Giroux

1520-1540 UK: D Russel

1540-1600 *Coffee break*

1600-1800 Session 4 (Preparedness and response plans among the participants II)

Chairs: C Giroux, Health Canada and H Domoto, Ministry of Health, Labour and Welfare

1600-1620 Germany: W Marzi

1620-1640 France: S Roy

1640-1700 Italy: GA Zapponi, and G Ruocco

1700-1720 Mexico: LR Rodriguez

1720-1800 Discussion

DAY 2 **2002/11/8**

0830-1030 Session 5 (Invited lectures)

Chairs: Y Haraguchi, Tokyo Disaster Medical Center and J Lavigne, Defense R&D Canada

- 0830-0900 Invited review: The poison information center and its function in Japan
 N Oohashi, Japan Poison Information Center
- 0900-0930 Invited review: Response plan of pharmaceutical association against chemical events
 A Nanaumi, Japan Pharmaceutical Association
- 0930-1000 The subway Sarin case, Prognosis of casualties and related problems
 S Tamaki, St. Luke's International Hospital and Y Haraguchi, Tokyo Disaster Medical Center
- 1000-1020 The role of officials: The collaboration model among responsible authorities against NBC
terrorism
 K Koriyama, Kyushu Kouseinennkin Hospital
- 1020-1050 Provisional Scenario: Incident scale and risk assessment
 Y Haraguchi, Tokyo Disaster Medical Center

1050-1110 *Coffee break*

1110-1240 Session 6 (Conclusions: restricted to the representatives)

Chairs: Dr. Chimura, Ministry of Health, Labour and Welfare and D Debaquey, Health Canada

- 1100-1120 Recap of Day 1
 Minister's secretariat, Ministry of Health, Labour and Welfare
- 1120-1150 Organizing terms of reference
 H Chimura, Health Science Division, Ministry of Health, Labour and Welfare
- 1150-1240 Discussion (including future work of this meeting)

1240-1250 Concluding remark: K Tanaka, Assistant Minister for Technical Affairs, Ministry of Health, Labour and Welfare

End of the meeting

1250-1400 Lunch

Only for the people who want to attend the following programs:

- 1400-1600 Mini-tour in Tokyo Disaster Medical Center
Protective clothes Y Tomoyasu, Y Haraguchi, N Ninomiya, K Kohriyama, Y Ohtomo
Pharmaceutical stockpile
Education systems
Installation of decontamination

Global Health Security Action Group

Workshop "Plans on Preparedness and Response to Chemical Events"

November 7-8, 2002

National Hospital, Tokyo Disaster Medical Center, Tokyo, Japan

Organized by National Hospital, Tokyo Disaster Medical Center and Ministry of Health, Labour and Welfare, Japan

Name	Affiliation	Country/organization
Dr. Luciano Vittozzi	Expert of Chemical Terrorism, European Union Task Force for Biological and Chemical Agent Attacks, European commission Address: European commission, 3/3258 L-2920, Luxembourg Phone 352 4301 33954 FAX 352 4301 33248 E-mail: luciano.vittozzi@cec.eu.int	European Union
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