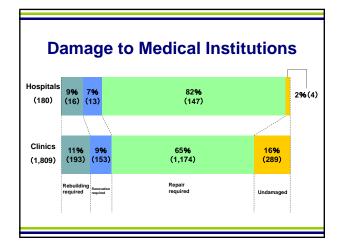
Disaster Risk Reduction Symposium/Disaster Reduction Alliance Forum 2009 Hospitals Safe from Disaster: Securing Health and Medical Services ~Messages from Hyogo-Kobe~

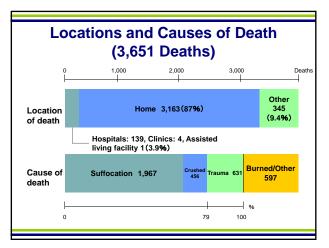
Message from Hyogo-Kobe Based on the Experience of the Great Hanshin-Awaji Earthquake

Dr. Takeshi Goto Vice President and Director, Hyogo Prefecture Health Promotion Association

Situation Report

- 1. <u>Damage and Deaths at Medical</u> <u>Institutions</u>
- 2. Clinical Breakdown and Causes
- 3. Patients and Convalescence
- 4. <u>Ensuring Medical Services in</u> <u>Stricken Areas</u>
- 5. <u>Building an Emergency Medical</u> <u>Services System for Disasters</u>





| | | of Death | | · · |
|--------------------|--------|----------|------------------|--------|
| Date/Time of death | | Deaths | Total deaths (%) | |
| 01/17 | ~6:00 | 2,221 | 2,221 | (96.3) |
| | ~9:00 | 16 | 2,237 | (97.0) |
| | ~12:00 | 47 | 2,384 | (99.0) |
| | ~24:00 | 12 | 2,296 | (99.6) |
| 01/18 | | 5 | 2,301 | (99.8) |
| 01/20 | | 2 | 2,303 | (99.9) |
| 01/21 | | 1 | 2,304 | (99.9) |
| 01/22 | | 1 | 2,305 | (100) |
| 01/25 | | 1 | 2,306 | (100) |

Post-Disaster Medical Services Survey and Autopsies

 Post-Disaster Medical Services Survey (Investigative Committee, Hyogo Disaster Medical Services System)

 Survey objective
 Build medical service system for disasters

 Survey period March 2 ~ 5, 1995

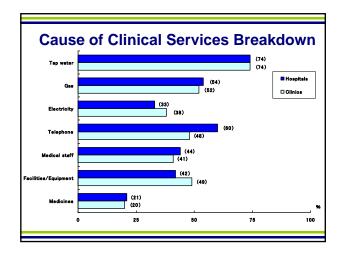
 Survey target
 224 hospitals, 2,999 clinics

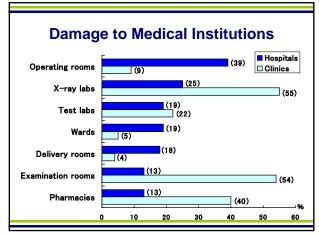
 Replies
 182 hospitals, 1,845 clinics

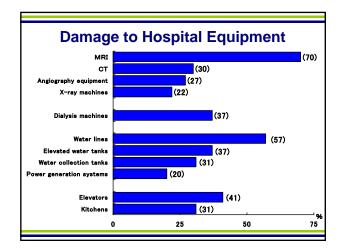
 Response rate Hospitals: 81%, Clinics: 62%

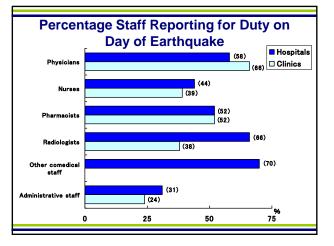
 Autopsies (Coroner, Medical Services Dept., Hyogo Health and Environment Bureau)

Environment Bureau) Implementation period Jan. 17 ~ 29, 1995 Medical examiners 212 Autopsied bodies Male: 1,472, Female: 1,165, Unknown: 14 Total: 3,651 (of which 45% were age 65 and above)

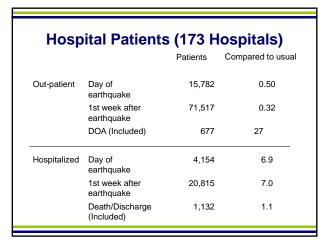








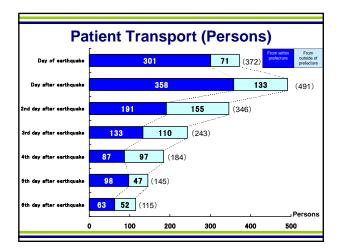


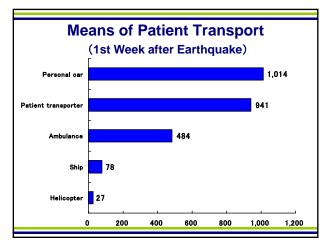


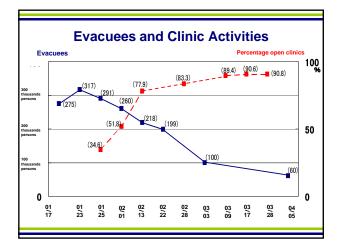
| | Minor | Serious | Critical | Total |
|---------------------------|------------------|-----------------|-------------------------------------|---------|
| Day of earthquake | 7,303 (91%) | 590 (7.4%) | 121 (109 DOA included) (1.5%) | 8,014 |
| 1st week after earthquake | 103,440 (98%) | 1,894 (1.8%) | 221 (0.2%) | 105,555 |

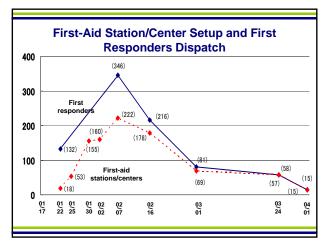
Hospitalized Patients and Convalescence

| | Patients | Deaths | Death rate (%) |
|---------------------------------------|----------|--------|----------------|
| Crush syndrome | 317 | 39 | 12.3 |
| | | | |
| Other factors | 2,170 | 66 | 3.0 |
| Malady | | | |
| Respiratory disorder | 1,132 | 87 | 7.7 |
| Circulatory disorder | 451 | 44 | 9.8 |
| Digestive disorder | 356 | 13 | 3.7 |
| Urinary disorder | 195 | 17 | 8.7 |
| Obstetric & Gynecological disorder | 354 | 0 | 0 |
| Other | 957 | 151 | 5.8 |
| (Subtotal | 3,070 | 312 | 10.2) |
| | | | |
| Total | 5,557 | 417 | 7.5 |
| | | | |









Fruits of Creative Recovery

Modernization Projects for Medical Institutions

Hyogo Emergency Medical Center Disaster Base Hospitals Disaster Medical Services Coordinator Stockpile System (i.e., medicines, etc.) Hyogo Institute for Traumatic Stress

Hyogo Wide-Area Disaster, Emergency Medical Care Information and Instruction System

Emergency Transport System

First Response System for Disasters Disaster Specialist Volunteer System, Wide-Area Support System