

An All Aspects Response

HOSPITALS AND HAZMAT

THE HOSPITAL ROLE

✦ A Hazardous Material User

- + Labs, including research facilities
- + Maintenance
- + Housekeeping
- + Radiological Materials
- + Sterilizing agents
- + Refrigerants – Coolants
- + Bio-Hazardous, Chemical & Radiological Wastes

THE HOSPITAL ROLE

- ✘ As a HazMat Patient Receiver
 - + Incidents that impact a community are often relocated to the hospital Emergency Department
 - + Victims flee and self refer
 - + Patients are transported by Emergency Medical Services or other emergency responders
 - + Often worried well comprise the majority of those seeking care

THE HOSPITAL ROLE

- × As a HazMat Information Resource

- + Technical expertise related to:

- × Radiological contamination, exposure and injury
- × Chemical contamination, exposure and injury
- × Exposure to pathogens; including prophylaxis and treatment

HOSPITALS AND HAZWOPER

- ✘ Scope: Emergency response operations for releases of, or substantial threats of releases of, hazardous substances.
- ✘ Requires personal protective equipment to the level of identified threat

OSHA Best Practices for
HOSPITAL-BASED FIRST RECEIVERS OF VICTIMS
from Mass Casualty Incidents Involving the Release of Hazardous Substances



January 2005

NATIONAL TOXIC SUBSTANCES INCIDENTS PROGRAM

AGENCY FOR TOXIC SUBSTANCE AND DISEASE REGISTRY (CDC)

State Code	ATSDR Fixed Facility Event Count											Fixed Facility Event Count
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	
CO	90	55	54	62	57	56	57	32	76	80	73	693
FL	368	294	399	399	171	256	519	208	434	460	525	4,033
IA	231	240	244	216	203	306	284	135	85	94	115	2,152
LA	630	587	474	704	515	646	845	693	531	528	457	6,610
MI	199	185	187	258	239	224	254	132	162	199	162	2,201
MN	230	323	325	271	342	371	436	167	84	94	81	2,724
MO	201	225	148	145	79	112	126	110	109	118	127	1,498
NC	123	195	201	164	138	131	107	108	185	143	131	1,626
NJ	406	508	444	574	0	348	0	151	194	384	392	3,401
NY	737	852	820	724	799	790	775	758	638	1,022	899	8,814
OR	173	189	161	129	151	133	128	151	98	85	73	1,471
TX	2,482	2,482	1,959	2,012	1,593	1,612	1,440	597	1,408	1,692	1,746	19,022
UT	329	364	397	442	375	308	91	114	142	101	198	2,861
WA	410	380	261	135	229	136	144	100	287	293	364	2,739
WI	273	185	199	152	138	124	144	118	122	110	128	1,693

NATIONAL TOXIC SUBSTANCES INCIDENTS PROGRAM

AGENCY FOR TOXIC SUBSTANCE AND DISEASE REGISTRY (CDC)

State Code	ATSDR Transportation Event Count – Program States											Transportation Event Count
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	
CO	106	133	125	99	145	138	109	79	145	142	133	1,354
FL	262	296	213	181	199	205	243	44	217	223	240	2,322
IA	84	87	105	86	69	100	109	47	49	50	56	842
LA	122	87	90	163	145	172	174	126	209	267	222	1,777
MI	134	143	107	125	99	86	87	40	115	111	110	1,157
MN	126	115	143	136	204	224	164	91	104	81	89	1,477
MO	193	205	152	168	136	138	112	80	102	105	119	1,511
NC	188	179	181	150	206	201	180	152	162	108	125	1,832
NJ	150	193	137	175	0	107	0	96	132	128	130	1,247
NY	369	273	266	279	309	285	290	256	200	186	195	2,908
OR	109	67	69	54	88	132	144	70	110	75	54	972
TX	289	272	339	285	468	471	437	205	459	532	492	4,250
UT	117	110	107	75	56	84	118	138	76	50	39	970
WA	215	200	114	46	98	101	126	75	89	72	74	1,210
WI	264	225	229	194	229	200	154	174	160	128	143	2,100

NATIONAL TOXIC SUBSTANCES INCIDENTS PROGRAM

AGENCY FOR TOXIC SUBSTANCE AND DISEASE REGISTRY (CDC)

# of Victims	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014*	
Agriculture, Forestry, Fishing and Hunting	109	65	117	50	26	4	8	4	15	1	399
Mining, Quarrying, and Oil and Gas Extraction	6	6	19	31	4	10	4	7	0	0	87
Utilities	29	34	116	35	64	15	10	19	11	8	341
Construction	8	21	22	34	7	6	65	9	0	1	173
Manufacturing	337	526	548	416	250	174	75	162	126	26	2640
Wholesale Trade	85	29	86	38	25	31	23	15	25	5	362
Retail Trade	78	118	134	91	84	36	27	45	77	6	696
Transportation and Warehousing	185	211	165	117	66	80	32	62	30	15	963
Information	4	0	36	0	7	0	70	5	0		122
Finance and Insurance	3	5	15	4	40	0	9	8			84
Real Estate and Rental and Leasing	78	113	81	115	54	88	119	136	72	13	869
Professional, Scientific, and Technical Service	4	8	6	9	11	29	14	4	0	0	85
Management of Companies and Enterprises	0	0	0		0	3	0				3
Administrative and Support and Waste Management	69	39	26	51	11	16	7	10	9	1	239
Educational Services	142	292	122	221	68	96	76	176	246	2	1441
Health Care and Social Assistance	63	42	140	93	74	73	35	47	8	11	586
Arts, Entertainment, and Recreation	90	26	63	93	73	48	48	69	22	1	533
Accommodation and Food Services	125	100	186	134	66	85	56	35	44	33	864
Other Services (except Public Administration)	321	272	218	396	267	56	43	10	18	1	1602
Public Administration	34	88	19	34	27	25	43	12	63	2	347
Grand Totals	1770	1995	2119	1962	1224	875	764	835	766	126	12436

NATIONAL TOXIC SUBSTANCES INCIDENTS PROGRAM

AGENCY FOR TOXIC SUBSTANCE AND DISEASE REGISTRY (CDC)

# of Fatalities	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	
Agriculture, Forestry, Fishing and Hunting	0	1	1	1	1	1	0	0	1	1	7
Mining, Quarrying, and Oil and Gas Extraction	0	0	0	0	0	0	1	0	0	0	1
Utilities	0	1	7	0	1	2	2	1	0	0	14
Construction	0	1	2	0	0	1	1	0	0	0	5
Manufacturing	5	8	12	3	4	1	0	3	3	3	42
Wholesale Trade	4	1	0	0	0	2	1	1	1	1	11
Retail Trade	2	3	0	1	0	2	2	1	1	0	12
Transportation and Warehousing	38	8	22	10	8	5	5	2	0	0	98
Information	0	0	0	0	0	0	1	0	0		1
Finance and Insurance	0	0	0	0	0	0	0	0			0
Real Estate and Rental and Leasing	0	1	4	3	0	2	2	3	1	0	16
Professional, Scientific, and Technical Service	0	0	0	0	0	0	1	0	0	0	1
Management of Companies and Enterprises	0	0	0		0	0	0				0
Waste Management	0	2	4	1	4	0	1	0	0	0	12
Educational Services	0	0	0	0	0	0	0	0	1	0	1
Health Care and Social Assistance	0	0	0	0	1	1	1	0	3	0	6
Arts, Entertainment, and Recreation	1	3	5	1	6	0	0	0	0	0	16
Accommodation and Food Services	0	1	1	0	0	1	0	0	2	0	5
Other Services (except Public Administration)	11	20	9	24	10	2	1	1	0	0	78
Public Administration	0	0	0	0	0	1	0	6	0	0	7
Grand Total	61	50	67	44	35	21	19	18	13	5	333

DECONTAMINATION

- × CMS, The Joint Commission and NYS Dept. of Health require Hospitals to be able to conduct decontamination of patients presenting for care.



DECONTAMINATION

- ✘ Of the patients requiring Decontamination
 - + ~40% were decontaminated at the scene of an incident
 - + ~40% were decontaminated at the hospital
 - + ~20% were decontaminated at both the scene and the hospital

THANKS FOR LISTENING

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