

Fatal and non-fatal accidents in hospital in Japan in 1999-2021

hospital industry Code No.130101

Type of accidents in hospital in 1999-2021

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Type of accidents
fall from height	169	154	177	153	205	170	153	174	163	165	144	143	186	175	162	168	181	197	181	169	183	228	225	4,025	fall from height
falling to same level	578	580	655	591	658	672	711	737	674	745	708	784	839	837	824	866	806	886	899	1,055	971	1,124	1,220	18,420	falling to same level
crash	61	78	87	72	87	80	70	88	88	97	71	86	67	95	81	92	101	108	121	105	113	135	115	2,098	crash
struck by flying or falling object	33	30	34	27	34	39	25	31	24	31	33	22	28	20	25	25	22	38	27	23	26	33	30	660	struck by flying or falling object
collapse	8	15	10	15	7	6	9	8	12	4	6	10	7	9	13	10	10	13	4	12	11	16	9	224	collapse
crashed by	67	63	67	70	63	77	71	91	79	78	59	81	63	68	76	69	94	78	93	94	84	78	94	1,757	crashed by
caught in/between	79	92	96	104	100	106	95	118	97	89	100	96	83	93	84	83	85	85	91	118	97	115	111	2,217	caught in/between
cut	110	113	117	118	122	127	91	89	81	82	54	83	58	64	52	61	54	48	59	48	43	46	50	1,770	cut
injury to the sole of the foot		2	2		1	2	1	2			4	2			3		1	1	3				2	26	injury to the sole of the foot
drown	1												8					1			1	1		12	drown
contact to high/low-temperature	46	44	42	41	39	41	30	39	34	26	28	29	33	32	30	23	23	25	21	28	32	29	21	736	contact to high/low-temperature
contact to harmful	14	14	18	16	15	11	14	17	9	18	15	10	21	10	6	12	14	3	6	14	3	3	10	273	contact to harmful

substance																									substance
electric shock	2	2		2			2		2	1					2		1							14	electric shock
explosion				1	2			6						1	1						1	2		14	explosion
burst			1		1	1				1				1						1				6	burst
fire				3		1				1	2									1				8	fire
traffic accident (public road)	29	32	50	32	45	48	38	55	44	41	33	42	34	43	36	49	28	43	38	42	41	38	38	919	traffic accident (public road)
traffic accident (others)	2	2	1	2	1			2	1			1				1		3				5	1	22	traffic accident (others)
reaction to motion/improper motion	461	443	500	543	619	579	606	569	717	703	681	671	730	668	689	696	753	758	830	849	781	958	1,050	15,854	reaction to motion/improper motion
others	114	112	122	131	123	112	146	152	175	184	110	118	148	144	146	110	115	118	114	159	137	3,019	5,774	11,583	others
unclassifiable	38	32	39	22	25	31	25	30	22	34	25	16	28	24	21	40	26	24	17	17	18	13	13	580	unclassifiable
total	1,812	1,808	2,018	1,943	2,147	2,103	2,087	2,208	2,222	2,300	2,073	2,194	2,333	2,282	2,250	2,308	2,313	2,430	2,504	2,733	2,543	5,842	8,765	61,218	total

Causal agents (large) of fatal and non-fatal accidents in hospital in 1999-2021

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (L) agents
machine	40	55	56	48	46	53	36	50	33	32	28	24	19	31	18	34	21	26	19	17	24	21	15	746	machine
crane, conveying machine	64	55	81	67	74	78	70	88	67	71	60	70	74	63	59	79	57	78	77	69	73	75	62	1,611	crane, conveying machine
other equipment	271	284	308	330	320	320	315	349	333	359	312	378	353	355	343	359	404	410	442	465	440	491	531	8,472	other

																									equipment
temporary buildings, establishments	624	642	706	651	754	724	750	781	739	774	727	761	822	809	808	812	783	878	854	983	903	1,090	1,122	18,497	temporary buildings, establishments
substance, material	35	41	36	37	44	51	28	48	34	30	27	24	32	21	28	20	26	19	25	25	25	34	21	711	substance, material
load	48	39	65	46	54	54	38	51	66	44	53	38	48	45	29	44	43	51	46	52	49	62	68	1,133	load
environment	89	78	122	92	105	108	103	101	127	89	82	117	119	112	109	135	108	121	115	124	99	140	130	2,525	environment
others	641	614	644	672	750	715	747	740	823	901	784	782	866	846	856	825	871	847	926	998	930	3,929	6,816	27,523	others
total	1,812	1,808	2,018	1,943	2,147	2,103	2,087	2,208	2,222	2,300	2,073	2,194	2,333	2,282	2,250	2,308	2,313	2,430	2,504	2,733	2,543	5,842	8,765	61,218	total

Causal agents (middle) of fatal and non-fatal accidents in hospital in 1999-2021

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (M) agents	
engine					1	1						1										1		4	engine	
power transmission mechanism		3		2	1					1			1				1						1		10	power transmission mechanism
woodworking machine	2	3	3			6	4	2	1	1	1		2		1		1	1		3	1		3	35	woodworking machine	
construction machine			3					11					1	1					1						17	construction machine
metal manufacturing machine	1	2	2		1		2			1	1		1	1				1							13	metal manufacturing machine

general machine	37	47	48	46	43	46	30	37	32	29	26	23	14	29	17	34	19	24	18	14	23	19	12	667	general machine	
mobile silviculture machine																										mobile silviculture machine
crane	5	3	5	6	1	4	4	9	3	8	8	4	6	1	5	3	7	6	4	4	2	3	2	103	crane	
conveying machine	11	7	4	12	8	10	11	8	11	5	5	9	4	8	5	5	5	7	10	3	7	4	2	161	conveying machine	
vehicle	48	45	72	49	65	64	55	71	53	58	47	57	64	54	49	71	45	65	63	62	64	68	58	1,347	vehicle	
pressure vessel	1	4	2	2	3	3	3	2	3	2	1	1	2	6	2	4	2	3	3		1	1	1	52	pressure vessel	
chemical facilities																										chemical facilities
welding equipment																		1							1	welding equipment
kiln, caldron	1	2	2	7	3	1		4	1	3	4	3	2	3	4	3	2	1	2	6	6		2	62	kiln, caldron	
electric equipment	6	5	3	3	2	3	5	7	7	4	6	5	7	9	2	3	7	15	10	16	16	16	20	177	electric equipment	
human power machine, tools	93	107	116	135	134	135	113	121	124	130	116	142	107	131	101	126	132	136	160	168	142	167	158	2,994	human power machine, tools	
tools	107	96	109	109	128	112	123	136	120	144	109	128	138	120	142	132	148	157	172	161	170	185	206	3,152	tools	
other equipments, facilities	63	70	76	74	50	66	71	79	78	76	76	99	97	86	92	91	113	97	95	114	105	122	144	2,034	other equipments, facilities	
temporary buildings, establishments	624	642	706	651	754	724	750	781	739	774	727	761	822	809	808	812	783	878	854	983	903	1,090	1,122	18,497	temporary buildings, establishments	

hazards, harmful substances	15	11	11	11	15	15	7	19	6	12	10	8	10	8	9	10	8	6	10	6	4	5	6	222	hazards, harmful substances
materials	20	30	25	26	29	36	21	29	28	18	17	16	22	13	19	10	18	13	15	19	21	29	15	489	materials
load	48	39	65	46	54	54	38	51	66	44	53	38	48	45	29	44	43	51	46	52	49	62	68	1,133	load
natural environment	89	78	122	92	105	108	103	101	127	89	82	117	119	112	109	135	108	121	115	124	99	140	130	2,525	natural environment
other causal agent	345	332	359	365	346	342	365	371	396	476	314	348	394	359	374	316	352	318	379	352	357	3,223	6,024	16,807	other causal agent
no causal agent	235	230	219	264	368	326	348	319	376	372	432	399	438	441	449	468	497	508	523	634	562	692	778	9,878	no causal agent
unclassifiable	61	52	66	43	36	47	34	50	51	53	38	35	34	46	33	41	22	21	24	12	11	14	14	838	unclassifiable
total	1,812	1,808	2,018	1,943	2,147	2,103	2,087	2,208	2,222	2,300	2,073	2,194	2,333	2,282	2,250	2,308	2,313	2,430	2,504	2,733	2,543	5,842	8,765	61,218	total

Causal agents (small) of fatal and non-fatal accidents in hospital in 1999-2021

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (S) agents	
engine					1							1										1		3	engine	
power transmission mechanism					1					1			1				1						1		5	power transmission mechanism
circular sawing machine			2				3				1				1		1				1			2	11	circular sawing machine
band sawing machine																						1		1	2	band sawing machine
wood planer machine			1					1																	2	wood planer machine

machine																								machine	
other mobile silviculture machine																								other mobile silviculture machine	
crane																								crane	
mobile crane												1											1	mobile crane	
derrick crane																								derrick crane	
elevator, lift			4		1		4	9	3	7	7	4	5	1	5	3	7	5	4	4	2	3	2	80	elevator, lift
cargo lifting appliance																								cargo lifting appliance	
gondola																								gondola	
lumberyard equipment, logging cableway			1																				1	lumberyard equipment, logging cableway	
simple skyline yarding equipment																								simple skyline yarding equipment	
other powered crane										1	1						1						3	other powered crane	
truck			1		3		2	3	6	2	1	3	1	3	2	3	2	2	6		2		1	43	truck
forklift																								forklift	
railway equipment																								railway equipment	
conveyor			1		1		5	2	2		1		1	2	1	2	1		1		2		22	conveyor	
loader																		1					1	loader	
straddle carrier																								straddle carrier	
rough terrain hauler																								rough terrain hauler	
other powered			2		4		4	3	3	3	3	6	2	3	2		2	4	3	3	3	4	1	55	other powered

conveying machines																								conveying machines	
cars, bus, motorcycle			68		62		52	67	51	55	45	56	53	49	45	66	39	64	62	60	64	62	55	1,075	cars, bus, motorcycle
railway vehicle																									railway vehicle
other vehicles			4		3		3	4	2	3	2	1	11	5	4	5	6	1	1	2		6	3	66	other vehicles
boiler					1				1					1				1						4	boiler
pressure vessel			1				1	1	1	1			1	1	1	2								10	pressure vessel
other pressure vessels			1		2		2	1	1	1	1	1	4	1	2	2	2	3			1	1	1	28	other pressure vessels
chemical facilities																									chemical facilities
gas welding equipment																									gas welding equipment
arc welding equipment																		1						1	arc welding equipment
other welding equipment																									other welding equipment
kiln, caldron					3			3	1	3	2	2	1	1	2	2	2	1	2	5	5		2	37	kiln, caldron
industrial dryer											1		1	1										3	industrial dryer
other kiln, caldron			2					1			1	1		1	2	1				1	1			11	other kiln, caldron
transmission			1		1		1	2	5	4	5	4	4	6	2	2	7	10	8	12	13	8	13	108	transmission
electric power facilities																			1					1	electric power facilities
other electrical equipment			2		1		4	5	2		1	1	3	3		1		5	1	4	3	8	7	51	other electrical equipment
human power																					8	12	17	37	human power

cranes																									cranes	
human power hauling equipment			61		71		65	80	89	86	80	104	76	94	78	93	106	113	123	141	114	131	115	1,820	human power hauling equipment	
human power machine							3				1	1	1		1		1		1		1	1	2	13	human power machine	
hand tool			55		63		48	38	35	44	35	37	30	37	22	33	25	23	36	27	19	23	24	654	hand tool	
ladder			34		43		35	33	30	40	29	34	45	32	54	35	40	33	43	41	37	47	39	724	ladder	
slinging tool													1											1	slinging tool	
other tools			75		85		88	103	90	104	80	94	93	87	88	97	108	124	129	120	133	138	167	2,003	other tools	
other equipment, facilities			76		50		71	79	78	76	76	99	97	86	92	91	113	97	95	114	105	122	144	1,761	other equipment, facilities	
scaffolding			1				2	1	3			2	1	2	1		1		1	1		1	2	19	scaffolding	
timbering					1																		1	1	3	timbering
stairs, landing stage			158		172		166	153	149	155	145	160	175	161	150	164	164	183	163	161	179	220	233	3,211	stairs, landing stage	
opening			1		3		2	2	2	2	2	2	2	2	1	4	3	4	1	3	2	3	6	47	opening	
roof, beam, haze, crossbeam, principal rafter			1		4		3	1	2		4	2				2	3	5	1	3		1		32	roof, beam, haze, crossbeam, principal rafter	
working platform, boot board			76		88		70	84	89	115	91	86	92	97	101	112	79	85	93	102	91	101	82	1,734	working platform, boot board	
passage			325		340		391	396	353	386	369	393	428	413	407	413	405	475	454	565	501	623	646	8,283	passage	
building, establishment			75		78		57	87	81	67	61	63	79	81	87	58	65	61	68	74	61	68	60	1,331	building, establishment	
other temporary buildings, establishments			69		68		59	57	60	49	55	53	45	53	61	59	63	65	73	74	69	72	92	1,196	other temporary buildings, establishments	

explosive substance													2	3									5	explosive substance
inflammable substance											1				1							1	3	inflammable substance
inflammable gas				1			2	1	1												1		6	inflammable gas
harmful substance			6	4		2	9	3	1	5	2	2	1	1	3	3	2	2	1			3	50	harmful substance
radiation										1			1		1								3	radiation
other hazards, harmful substances			5	10		5	8	2	10	4	5	8	4	5	5	5	4	8	5	4	4	2	103	other hazards, harmful substances
metal material			3	5		7	9	8	5	5	4	8	2	3	3	5	6	6	4	8	9	6	106	metal material
lumber, bamboo			1	3		1	2	2		1		3	2	3	2	1	2	1		4	1	2	31	lumber, bamboo
stone, sand, substance			4	2		2		1	2	1		1	1	1		1		1	4	1	3		25	stone, sand, substance
other materials			17	19		11	18	17	11	10	12	10	8	12	5	11	5	7	11	8	16	7	215	other materials
load			61	52		38	51	58	42	51	37	45	43	28	41	39	46	45	48	46	61	66	898	load
machine/equipment as load			4	2				8	2	2	1	3	2	1	3	4	5	1	4	3	1	2	48	machine/equipment as load
natural ground, rock			4	4		3	2	9	2	2	3	1	3	2	8	2	6	1	4	2		2	60	natural ground, rock
standing tree			1	3		2	1			4	2	2	3	1	1	1	3	1		2		3	30	standing tree
water			7	3		8	4	7	5	2	5	12	5	3	3	2	5	3	3	4	7	4	92	water
abnormal environment			2	2		1			1					2				1	6		2		17	abnormal environment
high/cold temperature environment			6	5			7	1	1	5	5	8	7	7	4		1	5	2	5	5	2	76	high/cold temperature environment

other environments			102		88		89	87	110	80	69	102	96	92	96	119	103	106	104	109	86	126	119	1,883	other environments
other causal agent			359		346		365	371	396	476	314	348	394	359	374	316	352	318	379	352	357	3,223	6,024	15,423	other causal agent
no causal agent			219		368		348	319	376	372	432	399	438	441	449	468	497	508	523	634	562	692	778	8,823	no causal agent
unclassifiable			66		36		34	50	51	53	38	35	34	46	33	41	22	21	24	12	11	14	14	635	unclassifiable
total			2,018		2,147		2,087	2,208	2,222	2,300	2,073	2,194	2,333	2,282	2,250	2,308	2,313	2,430	2,504	2,733	2,543	5,842	8,765	53,552	total

Workers age of fatal and non-fatal accidents in hospital in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age
19 years old or less	18	22	19	19	13	21	14	12	11	10	2	10	8	16	14	13	10	12	14	6	12	13	26	315	19 years old or less
20-29	360	358	375	351	385	383	299	353	336	306	260	256	241	247	233	219	214	217	256	249	216	1,199	2,030	9,343	20-29
30-39	283	259	305	321	377	319	368	349	390	417	357	360	408	375	364	363	356	328	332	328	342	1,038	1,621	9,960	30-39
40-49	376	389	424	418	460	453	435	461	469	471	426	454	477	458	448	486	483	477	520	564	451	1,232	1,850	12,682	40-49
50-59	536	564	630	623	652	678	697	729	748	758	666	709	720	700	691	707	719	796	764	849	794	1,314	1,803	17,847	50-59
60 years old or more	239	216	265	211	260	249	274	304	268	338	362	405	479	486	500	520	531	600	618	737	728	1,046	1,435	11,071	60 years old or more
total	1,812	1,808	2,018	1,943	2,147	2,103	2,087	2,208	2,222	2,300	2,073	2,194	2,333	2,282	2,250	2,308	2,313	2,430	2,504	2,733	2,543	5,842	8,765	61,218	total

Workers' number of workplace of fatal and non-fatal accidents in hospital in 1999-2021

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Workers scale
9 workers or less	68	69	87	65	69	64	57	66	75	86	60	69	85	78	64	65	62	60	64	56	52	83	89	1,593	9 workers or less
10-29	84	88	87	77	93	73	75	81	68	66	70	68	79	59	56	59	59	46	66	56	52	79	124	1,665	10-29
30-49	69	59	80	69	74	66	66	78	80	73	65	64	74	39	58	73	58	65	57	72	48	82	137	1,606	30-49

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
Hokkaido	138	111	127		128		135	138	141	132	121	135	136	129	115	118	143	129	136	133	131	641	504	3,621	Hokkaido
Aomori	25	17	19		11		13	20	14	15	16	15	30	30	22	27	17	32	27	28	24	18	57	477	Aomori
Iwate	13	12	16		17		16	14	9	22	7	14	21	13	26	16	26	11	12	10	17	26	18	336	Iwate
Miyagi	26	19	29		24		17	35	28	28	16	27	43	44	30	39	24	29	45	39	24	45	78	689	Miyagi
Akita	19	25	19		40		27	34	23	20	18	18	13	21	18	23	20	28	29	28	17	26	52	518	Akita
Yamagata	10	10	9		12		12	7	13	13	15	10	19	18	18	25	25	14	19	15	12	42	35	353	Yamagata
Fukushima	27	18	31		38		38	34	40	23	30	26	23	25	32	18	30	33	27	35	28	75	158	789	Fukushima
Ibaraki	33	25	26		36		30	40	28	43	31	19	35	31	38	39	43	48	48	40	46	72	159	910	Ibaraki
Tochigi	13	15	20		21		20	22	21	26	24	16	17	18	19	27	33	21	26	19	18	49	104	549	Tochigi
Gunma	24	28	33		23		31	39	39	35	39	25	39	45	33	39	31	33	45	45	42	73	99	840	Gunma
Saitama	50	65	59		63		76	77	82	78	84	84	84	81	75	82	70	82	82	94	93	222	459	2,142	Saitama
Chiba	48	54	69		81		70	98	76	104	92	99	93	94	86	78	70	87	108	92	95	191	363	2,148	Chiba
Tokyo	121	122	139		157		145	157	144	163	151	135	140	162	171	139	160	181	168	178	175	718	1,354	4,980	Tokyo
Kanagawa	96	92	115		97		94	98	108	95	95	89	107	102	93	99	109	124	117	117	133	370	492	2,842	Kanagawa
Niigata	19	25	39		47		47	36	57	43	39	38	50	50	35	46	27	46	39	57	51	64	90	945	Niigata
Toyama	12	9	16		17		19	31	12	24	17	14	24	17	28	17	20	33	20	26	17	43	28	444	Toyama
Ishikawa	14	19	17		27		22	14	23	16	19	15	12	14	25	10	17	16	24	16	16	38	80	454	Ishikawa
Fukui	7	12	16		13		13	13	9	15	15	15	15	19	12	15	9	20	10	37	19	22	26	332	Fukui
Yamanashi	12	12	10		19		16	17	19	23	15	15	24	17	12	20	25	18	20	17	28	34	27	400	Yamanashi
Nagano	15	20	23		22		40	18	37	37	22	29	30	33	31	36	28	38	34	35	22	34	91	675	Nagano
Gifu	13	23	26		13		25	22	18	19	24	14	18	17	25	25	24	16	13	22	27	51	148	583	Gifu
Shizuoka	37	34	49		43		54	55	45	32	51	47	49	40	33	57	54	55	60	64	61	68	157	1,145	Shizuoka
Aichi	70	62	57		70		75	80	58	54	66	73	84	69	76	88	91	80	85	114	70	185	304	1,911	Aichi

load																									load	
natural environment													12	1									1		14	natural environment
other causal agent	1				2										1							1	2	7	other causal agent	
no causal agent									2	1	1		1					2				1		8	no causal agent	
unclassifiable																									unclassifiable	
total	3	1	2	3	7	1	3	1	2	2	2	1	14	3	1	3		2	1		3	4	3	62	total	

Causal agents (small) of fatal accidents in hospital in 1999-2021

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (S) agents	
engine																										engine
power transmission mechanism																										power transmission mechanism
circular sawing machine																										circular sawing machine
band sawing machine																										band sawing machine
wood planer machine																										wood planer machine
hollow chisel mortiser, wood borer																										hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																										chamfering machine, router, woodworking

