Fatal and non-fatal accidents in pharmaceuticals in Japan in 1999-2022

pharmaceuticals industry Code No.010803

Type of accidents in pharmaceuticals in 1999-2022

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	2022	total
fall from height	11	10	19	13	18	11	20	19	15	21	18	11	10	20	10	18	16	13	19	17	16	17	14	13	369
falling to same level	24	21	26	19	23	18	26	23	20	20	29	23	34	27	37	41	29	34	39	39	42	34	40	47	715
crash	12	9	5	7	4	8	9	5	9	4	5	2	9	4	6	8	9	2	7	8	8	10	6	8	164
struck by flying or falling object	3	5	9	5	2	4	6	4	3	3	8	4	7	4	3	2	5	2	3	3	3	5	7	3	103
collapse	1	1			1	4	2	2	1	3	1	2	1	3	5	1			2	2		2	1	1	36
crashed by	6	5	3	4	5	4	3	3	5	1	1	1	4	1	5	4	3	4	6	4	3	3	2	2	82
caught in/between	40	50	47	38	45	35	28	38	52	37	27	24	36	26	38	31	28	18	22	33	27	18	37	24	799
cut	5	12	4	8	6	6	7	6	8	4	5	5	5	11	5	3	8	2	5	7	6	4	5	5	142
injury to the sole of the foot													1	1		1		1				1			5
drown																									
contact to high/low-	1	8	6	8	5	6	2	3	3	3	4	5	7	7	2	6		2	7	6	6	6	9	4	116

temperature																									
contact to harmful substance	4	9	7	5	7	8	4	3	5	4	3	7	5	6	1	7	5	4	2	10	7	4	4	7	128
electric shock																									
explosion				2	2		1			1	1	1	2		1						2				13
burst	1	1								1						1		1							5
fire	4				1	1	4	8			2	1				3		2				3			29
traffic accident (public road)		4	2	4	3		1		3	2	1	1	1		1			1			2	2		3	31
traffic accident (others)							1																		1
reaction to motion/improper motion	21	14	19	10	20	17	23	31	32	25	24	26	20	29	18	15	18	20	22	28	24	39	26	45	566
others	1	2		1	1		1	1	1				5	1		1			1		1	8	53		78
unclassifiable																1	1						1		3
total	134	151	147	124	143	122	138	146	157	129	129	113	147	140	132	143	122	106	135	157	147	156	205	162	3,385

Causal agents (large) of fatal and non-fatal accidents in pharmaceuticals in 1999-2022

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	2022	total
machine	40	41	47	32	41	34	26	32	41	24	26	21	34	24	27	30	26	16	19	30	20	17	29	25	702

crane, conveying machine	9	20	9	16	9	10	15	12	19	11	5	11	7	12	11	8	9	9	5	8	13	8	9	6	251
other equipment	22	27	23	22	28	22	20	15	32	22	32	7	16	24	28	21	25	17	31	28	26	33	30	19	570
temporary buildings, establishments	30	25	34	23	30	29	36	34	28	36	29	34	36	36	30	45	33	29	48	43	49	30	40	54	841
substance, material	6	18	14	12	16	11	14	15	8	12	8	15	17	8	8	14	10	11	8	13	11	8	7	9	273
load	16	8	9	9	10	6	9	18	16	10	12	17	12	14	12	7	6	7	8	14	9	24	12	17	282
environment	2	5	1	2	2	2	4	5			2	1	8	3	2	8		5	2	3	4	1	6	6	74
others	9	7	10	8	7	8	14	15	13	14	15	7	17	19	14	10	13	12	14	18	15	35	72	26	392
total	134	151	147	124	143	122	138	146	157	129	129	113	147	140	132	143	122	106	135	157	147	156	205	162	3,385

Causal agents (middle) of fatal and non-fatal accidents in pharmaceuticals in 1999-2022

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	2022	total
engine																									
power transmission mechanism	1	2	2	3	2	3	1	1	1	2	3	3			4	2	1		2		1			2	36
woodworking machine										1							1					1			3

construction machine																									
metal manufacturing machine	4		2	2		2		1		1	2	1				1	1	1			1	1	1		21
general machine	35	39	43	27	39	29	25	30	40	20	21	17	34	24	23	27	23	15	17	30	18	15	28	23	642
mobile silviculture machine																									
crane	2	1	1	1			1	1				1		4				1		1	1				15
conveying machine	7	16	5	11	7	10	11	11	17	8	4	9	6	7	11	7	8	7	5	7	10	7	9	3	203
vehicle		3	3	4	2		3		2	3	1	1	1	1		1	1	1			2	1		3	33
pressure vessel	1	1	1	2	2	1	1				2		1	2					2	2		1	1		20
chemical facilities	4	1		2	2	6		1	3		2		1		1	3		1		2	2	2	1		34
welding equipment																									
kiln, caldron							1		1				1						1	2	1	1	1		9
electric equipment														1					3	1			2		7
human power machine, tools	3	1	5	5	4	3		4	14	5	4	1	3	5	8	4	5	3	7	7	5	3	6	3	108
tools	8	13	12	7	15	9	13	6	9	9	16	4	7	8	12	7	14	9	17	9	13	21	11	12	261
other equipments,																									

facilities	6	11	5	6	5	3	5	4	5	8	8	2	3	8	7	7	6	4	1	5	5	5	8	4	131
temporary buildings, establishments	30	25	34	23	30	29	36	34	28	36	29	34	36	36	30	45	33	29	48	43	49	30	40	54	841
hazards, harmful substances	4	9	7	8	12	7	9	12	5	8	5	13	8	7	4	11	4	8	4	9	10	5	5	7	181
materials	2	9	7	4	4	4	5	3	3	4	3	2	9	1	4	3	6	3	4	4	1	3	2	2	92
load	16	8	9	9	10	6	9	18	16	10	12	17	12	14	12	7	6	7	8	14	9	24	12	17	282
natural environment	2	5	1	2	2	2	4	5			2	1	8	3	2	8		5	2	3	4	1	6	6	74
other causal agent	4	5	3	4	1	1	2	3	4	1	5		12	4	3	1	2	1	3	5	2	9	55	2	132
no causal agent	5	2	7	4	6	6	12	12	8	12	10	7	5	15	11	8	10	11	11	13	13	26	17	23	254
unclassifiable						1			1	1						1	1							1	6
total	134	151	147	124	143	122	138	146	157	129	129	113	147	140	132	143	122	106	135	157	147	156	205	162	3,385

Causal agents (small) of fatal and non-fatal accidents in pharmaceuticals in 1999-2022

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	2022	total
engine																									
power transmission mechanism			2		2		1	1	1	2	3	3			4	2	1		2		1			2	27

circular sawing machine										1							1					1			3
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine																									
chain saw																									
other woodworking machines																									
leveling, transporting or loading machine																									
excavating machine																									
foundation work machine																									
hardening machine																									

demolition machine																									
vehicle for high lift work																									
other construction machines																									
lathe																							1		1
drill press, milling machine								1														1			2
grinding machine, buffing machine											1	1				1					1				4
power press			1																						1
forging pressure hammer																									
shearing machine																									
other metal manufacturing machines			1							1	1						1	1							5
centrifugal machine																									
mixer, grinder			8		4		1	1	15	4	3	3	7	4	7	4	2	4	3	5	4	5	4	2	90
roll machine (except printingroll machine)			1		3		1	2	4		2		2	3	4	1	1		3	1	2		1	2	33

injection molding machine			1											1		1									3
food manufacturing machine			1								1												1		3
printing machine					1			1	1		1							2		1	1				8
industrial robot					1									1	1					1					4
other general power machines			32		30		23	26	20	16	14	14	25	15	11	21	20	9	11	22	11	10	22	19	371
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane							1					1		2											4
mobile crane																									
derrick crane																									
elevator, lift			1											2				1		1					5
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane								1													1				2
truck			1		3				1	1	1	2	1			2		3		2		1			18
forklift			2		1		5	3	9	3	1	4	2	2	5	2	3		3	1	4	3	5	3	61
railway equipment																									
conveyor			2		3		4	7	7	4	2	3	3	3	6	3	4	3		2	3	3	3		65
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines							2	1						2			1	1	2	2	3		1		15
cars, bus, motorcycle			3		2		2		2	3	1	1	1	1			1	1			2	1		3	24
railway vehicle							1																		1
other vehicles																1									1
boiler											1														1

pressure vessel					1		1				1		1	1						1					6
other pressure vessels			1		1									1					2	1		1	1		8
chemical facilities					2			1	3		2		1		1	3		1		2	2	2	1		21
gas welding equipment																									
arc welding equipment																									
other welding equipment																									
kiln, caldron							1		1										1	1			1		5
industrial dryer													1							1	1	1			4
other kiln, caldron																									
transmission														1									2		3
electric power facilities																			3						3
other electrical equipment																				1					1
human power cranes								1	1											1	1	1	2		7
human power hauling equipment			3		3			1	7	2	4		2	2	4	4	2	2	6	4	2	2	2	3	55

human power machine			1																						1
hand tool			1		1			2	6	3		1	1	3	4		3	1	1	2	2		2		33
ladder			9		9		4	3	6	5	6	2	1	3	5	3	7	4	5	4	7	9	6	4	102
slinging tool																									
other tools			3		6		9	3	3	4	10	2	6	5	7	4	7	5	12	5	6	12	5	8	122
other equipment, facilities			5		5		5	4	5	8	8	2	3	8	7	7	6	4	1	5	5	5	8	4	105
scaffolding									1	1									1						3
timbering																									
stairs, landing stage			12		6		13	8	8	11	10	11	13	12	3	9	9	10	11	7	13	9	14	14	203
opening			1				1	1	1				1	1		2									8
roof, beam, haze, crossbeam, principal rafter								1			1												1		3
working platform, boot board							4	5		6	4	5	5	5	4	6	6	5	7	7	6	3	2	9	89
passage			18		18		12	12	10	10	12	13	13	14	17	24	12	9	22	21	24	12	18	23	314
building, establishment			1		6		2	5	6	4	2	3	3	2	3	1	5	4	2	3	2	2	3	4	63
other temporary buildings,			2				4	2	2	4		2	1	2	3	3	1	1	5	5	4	4	2	4	51

establishments																									
explosive substance							1					1													2
inflammable substance							2	8		1	3	2	1	1		3		3		1		4			29
inflammable gas					2		2					1	2		1										8
harmful substance			3		6		2	2	3	3		6	3	4	1	6	2	3	1	5	3	1	1	7	62
radiation																									
other hazards, harmful substances			4		4		2	2	2	4	2	3	2	2	2	2	2	2	3	3	7		4		52
metal material			3		2		2	2		1	2		2			2	3	3	1	2			2		27
lumber, bamboo			1				1								1		1		1						5
stone, sand, substance																									
other materials			3		2		2	1	3	3	1	2	7	1	3	1	2		2	2	1	3		2	41
load			9		10		9	17	16	10	11	16	12	14	10	6	6	7	8	14	8	24	10	16	233
machine/equipment as load								1			1	1			2	1					1		2	1	10
natural ground, rock							1					1												1	3
standing tree								1					1												2
water					1		2				1					1			1	1			1	1	9
abnormal																									

environment																					1				1
high/cold temperature environment			1					2					4	2	1	1		1	1	1	1		1	3	19
other environments					1		1	2			1		3	1	1	6		4		1	2	1	4	1	29
other causal agent			3		1		2	3	4	1	5		12	4	3	1	2	1	3	5	2	9	55	2	118
no causal agent			7		6		12	12	8	12	10	7	5	15	11	8	10	11	11	13	13	26	17	23	237
unclassifiable									1	1						1	1							1	5
total	134	151	147	124	143	122	138	146	157	129	129	113	147	140	132	143	122	106	135	157	147	156	205	162	3,385

Workers age of fatal and non-fatal accidents in pharmaceuticals in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less	1	1	2	2	4	3	2	2	3	2	4	1	4	4	1	5	3	2	1	5	2	5	3	3	65
20-29	34	34	41	40	28	34	29	36	23	32	24	18	27	22	24	26	18	24	25	24	38	24	55	36	716
30-39	26	26	26	23	32	23	39	32	45	29	29	32	31	33	18	36	20	22	25	38	21	30	48	25	709
40-49	29	46	27	20	29	24	30	31	35	25	29	26	31	34	34	35	26	28	27	37	31	45	30	42	751
50-59	38	38	44	30	38	32	33	32	43	31	31	30	39	31	38	34	39	23	36	33	44	30	47	36	850
60 years old or more	6	6	7	9	12	6	5	13	8	10	12	6	15	16	17	7	16	7	21	20	11	22	22	20	294
total	134	151	147	124	143	122	138	146	157	129	129	113	147	140	132	143	122	106	135	157	147	156	205	162	3,385

Workers' number of workplace of fatal and non-fatal accidents in pharmaceuticals in 1999-2022

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	2022	total
9 workers or less	9	10	10	12	10	4	8	5	8	4	5	3	3	5	5	8	4	1	7	5	4	5	6	2	143
10-29	27	15	23	18	19	12	16	17	10	14	9	17	11	16	10	8	14	9	12	13	6	7	5	7	315
30-49	21	22	16	17	17	13	13	20	16	14	14	12	15	9	13	10	11	7	12	14	8	9	6	7	316
50-99	17	16	31	18	25	17	29	21	24	25	13	12	27	21	16	23	19	10	12	25	16	30	26	19	492
100-299	44	54	38	36	53	46	35	49	66	38	51	46	57	48	51	57	38	44	48	52	57	59	111	64	1,242
300 workers or more	16	34	29	23	19	30	37	34	33	34	37	23	34	41	37	37	36	35	44	48	56	46	51	63	877
total	134	151	147	124	143	122	138	146	157	129	129	113	147	140	132	143	122	106	135	157	147	156	205	162	3,385

Month of fatal and non-fatal accidents in pharmaceuticals in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January	11	12	9	9	11	12	9	8	16	9	14	10	15	8	10	14	6	16	10	12	14	16	12	16	279
February	13	13	12	13	18	10	11	13	9	6	9	7	17	8	17	15	14	15	9	23	15	5	18	18	308
March	14	17	12	11	19	9	12	20	14	10	12	16	8	11	6	18	9	2	10	7	8	15	26	13	299
April	13	9	11	10	11	10	7	12	11	11	11	7	10	11	7	6	9	9	10	9	12	20	10	13	249
May	12	10	10	7	11	10	13	13	13	12	6	13	10	15	13	8	8	6	6	15	9	6	8	14	248
June	14	9	9	9	8	12	13	14	14	16	15	10	11	11	10	17	18	6	18	12	12	13	12	24	307

July	8	20	19	18	12	7	10	11	13	14	14	11	15	14	11	15	11	9	11	11	20	15	7	12	308
August	8	12	12	6	8	14	8	10	10	11	12	7	14	19	9	8	3	14	9	12	8	11	20	7	252
September	15	8	14	11	10	8	16	11	15	12	7	7	11	7	13	13	8	10	15	10	13	11	43	16	304
October	9	13	20	13	13	10	14	9	13	11	12	10	14	12	10	8	15	10	17	14	11	16	17	11	302
November	9	16	11	10	13	8	12	10	20	10	6	6	9	13	14	10	12	2	7	22	17	13	15	8	273
December	8	12	8	7	9	12	13	15	9	7	11	9	13	11	12	11	9	7	13	10	8	15	17	10	256
total	134	151	147	124	143	122	138	146	157	129	129	113	147	140	132	143	122	106	135	157	147	156	205	162	3,385

Prefecture of fatal and non-fatal accidents in pharmaceuticals in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido		2	1		2		1	2	1	1	1		4	3	3	3		5		2	3	3	6	4	47
Aomori					1																	1		1	3
Iwate			1				1		1	3				1	2		1	1	1	4	2	1	2	1	22
Miyagi	1	1	2						1	2			1	1	3						2	1	3	1	19
Akita							1	2		3	1				2	1	2		1	1		1	3	1	19
Yamagata		2			4		4	3	2	4	4	3	2	2	3	3	3	1	3		3	4	2	5	57
Fukushima	1	1	6		3		4	1	6	3	4	5	1	3	2	2	2	3	1	4	3	11	3	4	73
Ibaraki	2	5	2		3		6	7	2	4	6	3	2	4		5	2	2	5	6	8	9	3	3	89
Tochigi	1		3		2		5	8	4	2	2	2	5	5	4	3	2	1	6	4	5	4	5	4	77
Gunma	1		2				2		1	2	2	1			1	2	2	3	3		1	7	6	5	41

Saitama	11	9	10		5		2	6	10	4	13	6	7	6	8	9	9	2	9	10	7	5	11	10	169
Chiba	5	3	6		3		6	4	4		5	1	4	2	3	2	4	5	2	3	4	2	1		69
Tokyo	9	10	8		7		4	4	6	4		10	5	4	5	6	3	5	6	5	2	2	2	3	110
Kanagawa	6	5	7		2		2	2	4	3	3	7	9	3	1	3		1	4	7	3	4	4	4	84
Niigata					1			1		2	1	2	2	1		2	2	1				1	2	2	20
Toyama	7	13	5		9		7	20	20	10	15	11	13	16	12	18	14	14	8	16	11	10	14	23	286
Ishikawa	1	2	1		2		3	3	1					1	1		1	2	2	1	5		1		27
Fukui			1					1	2	1		1	6	1		2	1	1		1	1	2		1	22
Yamanashi								1	1	1	1		2				1								7
Nagano	1	3			1		1	2	1		1			2	1	2	2	3		1	2	1		1	25
Gifu	1	2	2		3		1	2	4	4	1	2	2	9	3	6	5	1	1	3	3	2	4	3	64
Shizuoka	6	18	15		11		12	14	6	6	11	3	8	12	3	16	10	10	13	7	11	14	11	16	233
Aichi	6	2	3		5		3	4	3	6	1	3	7	9	6	2	3		3	2	3	4	6	1	82
Mie	4	6	5		5		7	4	8	6	7	4		4	3	3	3	1	8	5	2	4	54	7	150
Shiga	6	8	2		7		6	3	1	4	7	6	3	2	8	5	3	4	3	4	4	5	6	4	101
Kyoto	2	1			2		4	8	3	4	2	1	5	2			2	4	2	3	2	5	4	4	60
Osaka	24	22	19		24		14	13	19	13	11	15	15	18	22	12	9	5	9	7	12	5	13	9	310
Hyogo	4	7	9		7		5	5	5	5	5	4	10	2	3	6	5	4	9	4	6	9	8	9	131
Nara	3		5		6		4	5	3	12	4	4	4	5	6	3	3	5	3	5	9	7	6	5	107
Wakayama	10	2	7		6		6	4	3	2	2	3	5	1	1	2	2	2	2	1	1	1	2	2	67
Tottori																						1		1	2

Shimane									2									1	1	1		1			6
Okayama	5	3	4		1		2	1	2		2		1	1	3	5	5	1	4	8	6	2	1	4	61
Hiroshima			2		2		1	1	1	1	4	2	6	1	4	4	2		3	5	1	3	1	1	45
Yamaguchi		2	1		1		3	3	2		2				1	2	1		1		1		1	2	23
Tokushima	7	6	5		8		1	3	4	6	5	4	1	6	8	5	8	4	3	7	6	3	5	2	107
Kagawa	4	5	1		2		6	4	9	4	3	6	6	6	1	2	3	3	7	9	5	5	6	4	101
Ehime	1				1		1					1		1	1										6
Kochi																								1	1
Fukuoka	1	1	5		2		3		3	2		1	4	2	1	2	3	2		3	2	4	1	1	43
Saga	3	3	3				3	1	2	2		2	2	2	5	3	1	4	3	11	6	4	5	3	68
Nagasaki					2														1						3
Kumamoto	1	6	3		2		4		6	3			3		1	1	1	4	5	7	4	4	3	4	62
Oita								2	1		2		1						1			1			8
Miyazaki		1	1				2	2	2		1		1	1		1	1	1			1	2		5	22
Kagoshima									1					1			1		2			1		1	7
Okinawa					1		1								1										3
total	134	151	147	124	143	122	138	146	157	129	129	113	147	140	132	143	122	106	135	157	147	156	205	162	3,385

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more.

Data of 2022 year do not include Covid-19 cases. Data of 2020 & 2021 year include Covid-19 cases. Fatal and non-fatal data are same situation.

Data of 2011 year include fatal and non-fatal accidents caused by Great East Japan Earthquake in 2011.

Data sources: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html (MHLW, Japan)

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Fatal accidents in pharmaceuticals in Japan in 1999-2022

pharmaceuticals industry Code No.010803

Type of fatal accidents in pharmaceuticals in 1999-2022

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	2022	total
fall from height											2			1		1									4
falling to same level																		1							1
crash																									
struck by flying or falling object						1																			1
collapse																									
crashed by																									
caught in/between	1				1			1													1				4
cut																									
injury to the sole of the foot																									

drown																									
contact to high/low-temperature																									
contact to harmful substance			1	1										1											3
electric shock																									
explosion																				1					1
burst																									
fire						1		1																	2
traffic accident (public road)				1																					1
traffic accident (others)							1																		1
reaction to motion/improper motion																									
others																									
unclassifiable																									
total	1		1	2	1	2	1	2			2			2		1		1		1	1				18

Causal agents (large) of fatal accidents in pharmaceuticals in 1999-2022

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	2022	total
machine								1													1				2
crane, conveying machine	1			1	1		1				1														5
other equipment																1									1
temporary buildings, establishments						1					1			1											3
substance, material			1			1		1						1											4
load																									
environment				1														1							2
others																				1					1
total	1		1	2	1	2	1	2			2			2		1		1		1	1				18

Causal agents (middle) of fatal accidents in pharmaceuticals in 1999-2022

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	2022	total
engine																									
power transmission mechanism																									

woodworking machine																									
construction machine																									
metal manufacturing machine																									
general machine								1													1				2
mobile silviculture machine																									
crane																									
conveying machine	1				1						1														3
vehicle				1			1																		2
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment																									
human power machine, tools																									
tools																									
other equipments,																									

facilities																1									1
temporary buildings, establishments						1					1			1											3
hazards, harmful substances			1			1		1						1											4
materials																									
load																									
natural environment				1														1							2
other causal agent																									
no causal agent																									
unclassifiable																				1					1
total	1		1	2	1	2	1	2			2			2		1		1		1	1				18

Causal agents (small) of fatal accidents in pharmaceuticals in 1999-2022

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	2022	total
engine																									
power transmission mechanism																									

circular sawing machine																									
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine																									
chain saw																									
other woodworking machines																									
leveling, transporting or loading machine																									
excavating machine																									
foundation work machine																									
hardening machine																									

demolition machine																									
vehicle for high lift work																									
other construction machines																									
lathe																									
drill press, milling machine																									
grinding machine, buffing machine																									
power press																									
forging pressure hammer																									
shearing machine																									
other metal manufacturing machines																									
centrifugal machine																									
mixer, grinder																				1				1	
roll machine (except printingroll machine)																									

injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot																									
other general power machines								1																	1
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane																									
mobile crane																									
derrick crane																									
elevator, lift																									
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																									
truck																									
forklift					1						1														2
railway equipment																									
conveyor	1																								1
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines																									
cars, bus, motorcycle				1																					1
railway vehicle							1																		1
other vehicles																									
boiler																									

pressure vessel																									
other pressure vessels																									
chemical facilities																									
gas welding equipment																									
arc welding equipment																									
other welding equipment																									
kiln, caldron																									
industrial dryer																									
other kiln, caldron																									
transmission																									
electric power facilities																									
other electrical equipment																									
human power cranes																									
human power hauling equipment																									

human power machine																									
hand tool																									
ladder																									
slinging tool																									
other tools																									
other equipment, facilities																1									1
scaffolding																									
timbering																									
stairs, landing stage																									
opening											1			1											2
roof, beam, haze, crossbeam, principal rafter																									
working platform, boot board																									
passage																									
building, establishment						1																			1
other temporary buildings,																									

establishments																									
explosive substance																									
inflammable substance						1		1																	2
inflammable gas																									
harmful substance			1											1											2
radiation																									
other hazards, harmful substances																									
metal material																									
lumber, bamboo																									
stone, sand, substance																									
other materials																									
load																									
machine/equipment as load																									
natural ground, rock																									
standing tree																									
water																									
abnormal																									

environment				1																					1
high/cold temperature environment																									
other environments																		1							1
other causal agent																									
no causal agent																									
unclassifiable																				1					1
total	1		1	2	1	2	1	2			2			2		1		1		1	1				18

Workers age of fatal accidents in pharmaceuticals in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less																									
20-29																									
30-39				1				1												1	1				4
40-49	1		1	1	1			1								1									6
50-59						1	1				1			1				1							5
60 years old or more						1					1			1											3
total	1		1	2	1	2	1	2			2			2		1		1		1	1				18

Workers' number of workplace of fatal accidents in pharmaceuticals in 1999-2022

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	2022	total
9 workers or less																									
10-29	1					1								1						1					4
30-49																									
50-99					1											1					1				3
100-299			1	1			1	1										1							5
300 workers or more				1		1		1			2			1											6
total	1		1	2	1	2	1	2			2			2		1		1		1	1				18

Month of fatal accidents in pharmaceuticals in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January			1		1													1			1				4
February											1														1
March				1				1																	2
April							1																		1
May																									
June	1					1										1									3

July																				1					1
August																									
September														1											1
October				1																					1
November											1			1											2
December						1		1																	2
total	1		1	2	1	2	1	2			2			2		1		1		1	1				18

Prefecture of fatal accidents in pharmaceuticals in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido																									
Aomori																									
Iwate																									
Miyagi																									
Akita																									
Yamagata						1																			1
Fukushima																									
Ibaraki																									
Tochigi																									
Gunma																									

Saitama																									
Chiba																									
Tokyo																									
Kanagawa																									
Niigata																									
Toyama								1										1							2
Ishikawa																									
Fukui																				1					1
Yamanashi	1																								1
Nagano														1											1
Gifu			1	1										1											3
Shizuoka								1																	1
Aichi																									
Mie											2														2
Shiga																									
Kyoto																									
Osaka																									
Hyogo																1									1
Nara																									
Wakayama																									
Tottori																									

Shimane																									
Okayama																									
Hiroshima																									
Yamaguchi							1																		1
Tokushima				1																	1				2
Kagawa					1																				1
Ehime																									
Kochi																									
Fukuoka						1																			1
Saga																									
Nagasaki																									
Kumamoto																									
Oita																									
Miyazaki																									
Kagoshima																									
Okinawa																									
total	1		1	2	1	2	1	2			2			2		1		1		1	1				18

Data sources: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html (MHLW, Japan)

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