pharmaceuticals industry Code No.010803

## Type of accidents in pharmaceuticals 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	11	10	19	13	18	11	20	19	15	21	18	11	10	20	10	18	16	13	19	17	16	17	14	356	fall from height
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	668	falling to same level
crash	12	9	5	7	4	8	9	5	9	4	5	2	9	4	6	8	9	2	7	8	8	10	6	156	crash
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	100	struck by flying or falling object
collapse	1	1			1	4	2	2	1	3	1	2	1	3	5	1			2	2		2	1	35	collapse
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	80	crashed by
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	775	caught in/between
cut	5	12	4	8	6	6	7	6	8	4	5	5	5	11	5	3	8	2	5	7	6	4	5	137	cut
injury to the sole of the foot													1	1		1		1				1		5	injury to the sole
drown																									drown
contact to high/low- temperature	1	8	6	8	5	6	2	3	3	3	4	5	7	7	2	6		2	7	6	6	6	9	112	contact to high/low- temperature

contact to harmful																									contact to
substance	4	9	7	5	7	8	4	3	5	4	3	7	5	6	1	7	5	4	2	10	7	4	4	121	harmful
substance																									substance
electric shock																									electric shock
explosion				2	2		1			1	1	1	2		1						2			13	explosion
burst	1	1								1						1		1						5	burst
fire	4				1	1	4	8			2	1				3		2				3		29	fire
traffic accident (public		4	2	4	3		1		2	2	1	1	1		1			1			2	2		28	traffic accident
road)				4	3		I		3									ľ						20	(public road)
traffic accident							1																	1	traffic accident
(others)							'																		(others)
reaction to																									reaction to
motion/improper	21	14	19	10	20	17	23	31	32	25	24	26	20	29	18	15	18	20	22	28	24	39	26	521	motion/improper
motion																									motion
others	1	2		1	1		1	1	1				5	1		1			1		1	8	53	78	others
unclassifiable																1	1						1	3	unclassifiable
total	134	151	147	124	143	122	138	146	157	129	129	113	147	140	132	143	122	106	135	157	147	156	205	3,223	total

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

Causal (L) agents	1000	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)
Causar (L) agents		2000	2001	2002	2003	2004	2003	2000	2007	2000	2007	2010	2011	2012	2013	2014	2013	2010	2017	2010	2017	2020	2021	II I	agents
machine	40	41	47	32	41	34	26	32	41	24	26	21	34	24	27	30	26	16	19	30	20	17	29	677	machine
crane, conveying																									crane,

machine	9	20	9	16	9	10	15	12	19	11	5	11	7	12	11	8	9	9	5	8	13	8	9	245	conveying
machine																									machine
ather equipment	22	27	23	22	28	22	20	15	32	22	32	7	16	24	28	21	25	17	31	28	26	33	30	551	other
other equipment		27	23	22	20	22	20	13	32	22	32	/	10	24	20	21	23	17	31	20	20	33	30	1001	equipment
to manage my buildings																									temporary
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	787	buildings,
establishments																									establishments
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	264	substance,
substance, material		10	14	12		11	14	13	6	12		13	'	0					0	13	11	0	,	204	material
load	16	8	9	9	10	6	9	18	16	10	12	17	12	14	12	7	6	7	8	14	9	24	12	265	load
environment	2	5	1	2	2	2	4	5			2	1	8	3	2	8		5	2	3	4	1	6	68	environment
others	9	7	10	8	7	8	14	15	13	14	15	7	17	19	14	10	13	12	14	18	15	35	72	366	others
total	134	151	147	124	143	122	138	146	157	129	129	113	147	140	132	143	122	106	135	157	147	156	205	3,223	total

Causal agents (middle) of fatal and non-fatal accidents in pharmaceuticals 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																									engine
power transmission mechanism	1	2	2	3	2	3	1	1	1	2	3	3			4	2	1		2		1			34	power transmission mechanism
woodworking machine										1							1					1		3	woodworking machine

construction machine																									construction
																									machine
metal manufacturing machine	4		2	2		2		1		1	2	1				1	1	1			1	1	1	21	metal manufacturing machine
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	619	general machine
mobile silviculture machine																									mobile silviculture machine
crane	2	1	1	1			1	1				1		4				1		1	1			15	crane
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	200	conveying machine
vehicle		3	3	4	2		3		2	3	1	1	1	1		1	1	1			2	1		30	vehicle
pressure vessel	1	1	1	2	2	1	1				2		1	2					2	2		1	1	20	pressure vessel
chemical facilities	4	1		2	2	6		1	3		2		1		1	3		1		2	2	2	1	34	chemical facilities
welding equipment																									welding equipment
kiln, caldron							1		1				1						1	2	1	1	1	9	kiln, caldron
electric equipment														1					3	1			2	7	electric equipment
human power machine,	3	1	5	5	4	3		4	14	5	4	1	3	5	8	4	5	3	7	7	5	3	6	105	human power
I																									1 1

tools	8	13	12	7	15	9	13	6	9	9	16	4	7	8	12	7	14	9	17	9	13	21	11	249	tools
other equipments,	6	11	5	6	5	3	5	4	5	8	8	2	3	8	7	7	6	4	1	5	5	5	8	127	other equipments, facilities
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	787	temporary buildings, establishments
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	174	hazards, harmful substances
materials	2	9	7	4	4	4	5	3	3	4	3	2	9	1	4	3	6	3	4	4	1	3	2	90	materials
load	16	8	9	9	10	6	9	18	16	10	12	17	12	14	12	7	6	7	8	14	9	24	12	265	load
natural environment	2	5	1	2	2	2	4	5			2	1	8	3	2	8		5	2	3	4	1	6	68	natural environment
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	130	other causal agent
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	231	no causal agent
unclassifiable						1			1	1						1	1							5	unclassifiable
total	134	151	147	124	143	122	138	146	157	129	129	113	147	140	132	143	122	106	135	157	147	156	205	3,223	total

Causal agents (small) of fatal and non-fatal accidents in pharmaceuticals 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		2	2	1	1	1	2	3	3		4	2	1	2	1		25	power transmission mechanism
circular sawing machine							1						1			1	3	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 milling machine
chain saw																		chain saw
other woodworking machines																		other woodworking machines
leveling, transporting or loading machine																		leveling, transporting or loading machine
excavating machine																		excavating machine
foundation work																		foundation work

			 	 											-							
hardening machine																						hardening machine
demolition machine																						demolition machine
vehicle for high lift																						vehicle for high lift
work																						work
other construction																						other construction
machines																						machines
lathe																				1	1	lathe
drill press, milling					1														1		2	drill press, milling
machine					ľ																	machine
grinding machine,								1	1				1					1			4	grinding machine,
buffing machine								'					<u> </u>									buffing machine
power press		1																			1	power press
forging pressure																						forging pressure
hammer																						hammer
shearing machine																						shearing machine
other metal																						other metal
manufacturing		1					1	1						1	1						5	manufacturing
machines																						machines
centrifugal machine																						centrifugal machine
mixer, grinder		8	4	1	1	15	4	3	3	7	4	7	4	2	4	3	5	4	5	4	88	mixer, grinder
roll machine (except																						roll machine (except
printingroll		1	3	1	2	4		2		2	3	4	1	1		3	1	2		1	31	printingroll
machine)																						machine)
injection molding																						injection molding

machine		1									1		1								3	machine
food manufacturing machine		1						1												1	3	food manufacturing machine
printing machine			1		1	1		1							2		1	1			8	printing machine
industrial robot			1								1	1					1				4	industrial robot
other general power machines		32	30	23	26	20	16	14	14	25	15	11	21	20	9	11	22	11	10	22	352	other general power machines
felling machine																						felling machine
mobile logging machine																						mobile logging machine
skyline yarding machine																						skyline yarding machine
other mobile																						other mobile
silviculture machine																						silviculture machine
crane				1					1		2										4	crane
mobile crane																						mobile crane
derrick crane																						derrick crane
elevator, lift		1									2				1		1				5	elevator, lift
cargo lifting																						cargo lifting appliance
gondola																						gondola
lumberyard																						lumberyard
equipment, logging																						equipment, logging
cableway																						cableway

	 $\sqsubseteq$	<u> </u>		<u> </u>																				
simple skyline																								simple skyline
yarding equipment																								yarding equipment
other powered							1													1				other powered
crane							I													I			2	crane
truck		1		3				1	1	1	2	1			2		3		2		1		18	truck
forklift		2		1		5	3	9	3	1	4	2	2	5	2	3		3	1	4	3	5	58	forklift
railway equipment																								railway equipment
conveyor		2		3		4	7	7	4	2	3	3	3	6	3	4	3		2	3	3	3	65	conveyor
loader																								loader
straddle carrier																								straddle carrier
rough terrain hauler																								rough terrain hauler
other powered						2	1						2			1	1	2	2	3		1	15	other powered
conveying machines																							13	conveying machines
cars, bus,		3		2		2		2	3	1	1	1	1			1	1			2	1		21	cars, bus,
motorcycle												Ľ												motorcycle
railway vehicle						1																	1	railway vehicle
other vehicles															1								1	other vehicles
boiler										1													1	boiler
pressure vessel				1		1				1		1	1						1				6	pressure vessel
other pressure		1		1									1					2	1		1	1	8	other pressure
vessels		<u> </u>											<u> </u>								<u> </u>		6	vessels
chemical facilities				2			1	3		2		1		1	3		1		2	2	2	1	21	chemical facilities
gas welding																								gas welding

equipment																						equipment
arc welding																						arc welding
equipment																						equipment
other welding																						other welding
equipment																						equipment
kiln, caldron				1		1										1	1			1	5	kiln, caldron
industrial dryer										1							1	1	1		4	industrial dryer
other kiln, caldron																						other kiln, caldron
transmission											1									2	3	transmission
electric power																3					3	electric power
facilities																3					٥	facilities
other electrical																						other electrical
equipment																	l I					equipment
human power																					7	human power
cranes					I												I	I	'	2		cranes
human power		3	3		1	7	2	4			2	4	4	2	2	6	4	,			52	human power
hauling equipment		3	3		I		2	4		2	2	4	4	2	2	6	4	2	2	2	32	hauling equipment
human power		1																			1	human power
machine		I																			ľ	machine
hand tool		1	1		2	6	3		1	1	3	4		3	1	1	2	2		2	33	hand tool
ladder		9	9	4	3	6	5	6	2	1	3	5	3	7	4	5	4	7	9	6	98	ladder
slinging tool																						slinging tool
other tools		3	6	9	3	3	4	10	2	6	5	7	4	7	5	12	5	6	12	5	114	other tools
other equipment,																						other equipment,

facilities		5	5	5	4	5	8	8	2	3	8	7	7	6	4	1	5	5	5	8	101	facilities
scaffolding						1	1									1					3	scaffolding
timbering																						timbering
stairs, landing stage		12	6	13	8	8	11	10	11	13	12	3	9	9	10	11	7	13	9	14	189	stairs, landing stage
opening		1		1	1	1				1	1		2								8	opening
roof, beam, haze, crossbeam, principal rafter					1			1												1	3	roof, beam, haze, crossbeam, principal rafter
working platform, boot board				4	5		6	4	5	5	5	4	6	6	5	7	7	6	3	2	80	working platform, boot board
passage		18	18	12	12	10	10	12	13	13	14	17	24	12	9	22	21	24	12	18	291	passage
building, establishment		1	6	2	5	6	4	2	3	3	2	3	1	5	4	2	3	2	2	3	59	building, establishment
other temporary buildings, establishments		2		4	2	2	4		2	1	2	3	3	1	1	5	5	4	4	2	47	other temporary buildings, establishments
explosive substance				1					1												2	explosive substance
inflammable substance				2	8		1	3	2	1	1		3		3		1		4		29	inflammable substance
inflammable gas			2	2					1	2		1									8	inflammable gas
harmful substance		3	6	2	2	3	3		6	3	4	1	6	2	3	1	5	3	1	1	55	harmful substance
radiation																						radiation
other hazards,		4	4	2	2	2	4	2	3	2	2	2	2	2	2	3	3	7		4	52	other hazards, harmful substances

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metal material		3	2	2	2		1	2		2			2	3	3	1	2			2	27	metal material
lumber, bamboo		1		1								1		1		1					5	lumber, bamboo
stone, sand,																						stone, sand,
substance																						substance
other materials		3	2	2	1	3	3	1	2	7	1	3	1	2		2	2	1	3		39	other materials
load		9	10	9	17	16	10	11	16	12	14	10	6	6	7	8	14	8	24	10	217	load
machine/equipment					1			1	1			2	1					1		2	9	machine/equipment
as load					I				1													as load
natural ground,				1					1												2	natural ground,
rock				•					1												2	rock
standing tree					1					1											2	standing tree
water			1	2				1					1			1	1			1	8	water
abnormal																					1	abnormal
environment																						environment
high/cold																						high/cold
temperature		1			2					4	2	1	1		1	1	1	1		1	16	temperature
environment																						environment
other environments			1	1	2			1		3	1	1	6		4		1	2	1	4	28	other environments
other causal agent		3	1	2	3	4	1	5		12	4	3	1	2	1	3	5	2	9	55	116	other causal agent
no causal agent		7	6	12	12	8	12	10	7	5	15	11	8	10	11	11	13	13	26	17	214	no causal agent
unclassifiable						1	1						1	1							4	unclassifiable
total		147	143	138	146	157	129	129	113	147	140	132	143	122	106	135	157	147	156	205	2,692	total

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	1	1	2	2	4	3	2	2	3	2	4	1	4	4	1	5	3	2	1	5	2	5	3	62	19 years old or less
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	680	20-29
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	684	30-39
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	709	40-49
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	814	50-59
60 years old or	6	6	7	g	12	6	5	13	8	10	12	6	15	16	17	7	16	7	21	20	11	22	22	274	60 years old or
more																								2/4	more
total	134	151	147	124	143	122	138	146	157	129	129	113	147	140	132	143	122	106	135	157	147	156	205	3,223	total

Workers' number of workplace of fatal and non-fatal accidents in pharmaceuticals 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	9	10	10	12	10	4	8	5	8	4	5	3	3	5	5	8	4	1	7	5	4	5	6	141	9 workers or less
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	308	10-29
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	309	30-49
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	473	50-99
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	1,178	100-299
300 workers or	16	34	29	23	19	30	37	34	33	34	37	23	34	41	37	37	36	35	44	48	56	46	51	814	300 workers or
more																									more
total	134	151	147	124	143	122	138	146	157	129	129	113	147	140	132	143	122	106	135	157	147	156	205	3,223	total

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January	11	12	9	9	11	12	9	8	16	9	14	10	15	8	10	14	6	16	10	12	14	16	12	263	January
February	13	13	12	13	18	10	11	13	9	6	9	7	17	8	17	15	14	15	9	23	15	5	18	290	February
March	14	17	12	11	19	9	12	20	14	10	12	16	8	11	6	18	9	2	10	7	8	15	26	286	March
April	13	9	11	10	11	10	7	12	11	11	11	7	10	11	7	6	9	9	10	9	12	20	10	236	April
May	12	10	10	7	11	10	13	13	13	12	6	13	10	15	13	8	8	6	6	15	9	6	8	234	May
June	14	9	9	9	8	12	13	14	14	16	15	10	11	11	10	17	18	6	18	12	12	13	12	283	June
July	8	20	19	18	12	7	10	11	13	14	14	11	15	14	11	15	11	9	11	11	20	15	7	296	July
August	8	12	12	6	8	14	8	10	10	11	12	7	14	19	9	8	3	14	9	12	8	11	20	245	August
September	15	8	14	11	10	8	16	11	15	12	7	7	11	7	13	13	8	10	15	10	13	11	43	288	September
October	9	13	20	13	13	10	14	9	13	11	12	10	14	12	10	8	15	10	17	14	11	16	17	291	October
November	9	16	11	10	13	8	12	10	20	10	6	6	9	13	14	10	12	2	7	22	17	13	15	265	November
December	8	12	8	7	9	12	13	15	9	7	11	9	13	11	12	11	9	7	13	10	8	15	17	246	December
total	134	151	147	124	143	122	138	146	157	129	129	113	147	140	132	143	122	106	135	157	147	156	205	3,223	total

## Prefecture of fatal and non-fatal accidents in pharmaceuticals in 1999-2021

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		2	1		2		1	2	1	1	1		4	3	3	3		5		2	3	3	6	43	Hokkaido
Aomori					1																	1		2	Aomori
lwate			1				1		1	3				1	2		1	1	1	4	2	1	2	21	lwate

Miyagi	1	1	2				1	2			1	1	3						2	1	3	18	Miyagi
Akita					1	2		3	1				2	1	2		1	1		1	3	18	Akita
Yamagata		2		4	4	3	2	4	4	3	2	2	3	3	3	1	3		3	4	2	52	Yamagata
Fukushima	1	1	6	3	4	1	6	3	4	5	1	3	2	2	2	3	1	4	3	11	3	69	Fukushima
Ibaraki	2	5	2	3	6	7	2	4	6	3	2	4		5	2	2	5	6	8	9	3	86	Ibaraki
Tochigi	1		3	2	5	8	4	2	2	2	5	5	4	3	2	1	6	4	5	4	5	73	Tochigi
Gunma	1		2		2		1	2	2	1			1	2	2	3	3		1	7	6	36	Gunma
Saitama	11	9	10	5	2	6	10	4	13	6	7	6	8	9	9	2	9	10	7	5	11	159	Saitama
Chiba	5	3	6	3	6	4	4		5	1	4	2	3	2	4	5	2	3	4	2	1	69	Chiba
Tokyo	9	10	8	7	4	4	6	4		10	5	4	5	6	3	5	6	5	2	2	2	107	Tokyo
Kanagawa	6	5	7	2	2	2	4	3	3	7	9	3	1	3		1	4	7	3	4	4	80	Kanagawa
Niigata				1		1		2	1	2	2	1		2	2	1				1	2	18	Niigata
Toyama	7	13	5	9	7	20	20	10	15	11	13	16	12	18	14	14	8	16	11	10	14	263	Toyama
Ishikawa	1	2	1	2	3	3	1					1	1		1	2	2	1	5		1	27	Ishikawa
Fukui			1			1	2	1		1	6	1		2	1	1		1	1	2		21	Fukui
Yamanashi						1	1	1	1		2				1							7	Yamanashi
Nagano	1	3		1	1	2	1		1			2	1	2	2	3		1	2	1		24	Nagano
Gifu	1	2	2	3	1	2	4	4	1	2	2	9	3	6	5	1	1	3	3	2	4	61	Gifu
Shizuoka	6	18	15	11	12	14	6	6	11	3	8	12	3	16	10	10	13	7	11	14	11	217	Shizuoka
Aichi	6	2	3	5	3	4	3	6	1	3	7	9	6	2	3		3	2	3	4	6	81	Aichi
Mie	4	6	5	5	7	4	8	6	7	4		4	3	3	3	1	8	5	2	4	54	143	Mie
Shiga	6	8	2	7	6	3	1	4	7	6	3	2	8	5	3	4	3	4	4	5	6	97	Shiga
Kyoto	2	1		2	4	8	3	4	2	1	5	2			2	4	2	3	2	5	4	56	Kyoto

Osaka	24	22	19	24	14	13	19	13	11	15	15	18	22	12	9	5	9	7	12	5	13	301	Osaka
Hyogo	4	7	9	7	5	5	5	5	5	4	10	2	3	6	5	4	9	4	6	9	8	122	Hyogo
Nara	3		5	6	4	5	3	12	4	4	4	5	6	3	3	5	3	5	9	7	6	102	Nara
Wakayama	10	2	7	6	6	4	3	2	2	3	5	1	1	2	2	2	2	1	1	1	2	65	Wakayama
Tottori																				1		1	Tottori
Shimane							2									1	1	1		1		6	Shimane
Okayama	5	3	4	1	2	1	2		2		1	1	3	5	5	1	4	8	6	2	1	57	Okayama
Hiroshima			2	2	1	1	1	1	4	2	6	1	4	4	2		3	5	1	3	1	44	Hiroshima
Yamaguchi		2	1	1	3	3	2		2				1	2	1		1		1		1	21	Yamaguchi
Tokushima	7	6	5	8	1	3	4	6	5	4	1	6	8	5	8	4	3	7	6	3	5	105	Tokushima
Kagawa	4	5	1	2	6	4	9	4	3	6	6	6	1	2	3	3	7	9	5	5	6	97	Kagawa
Ehime	1			1	1					1		1	1									6	Ehime
Kochi																							Kochi
Fukuoka	1	1	5	2	3		3	2		1	4	2	1	2	3	2		3	2	4	1	42	Fukuoka
Saga	3	3	3		3	1	2	2		2	2	2	5	3	1	4	3	11	6	4	5	65	Saga
Nagasaki				2													1					3	Nagasaki
Kumamoto	1	6	3	2	4		6	3			3		1	1	1	4	5	7	4	4	3	58	Kumamoto
Oita						2	1		2		1						1			1		8	Oita
Miyazaki		1	1		2	2	2		1		1	1		1	1	1			1	2		17	Miyazaki
Kagoshima							1					1			1		2			1		6	Kagoshima
Okinawa				1	1								1									3	Okinawa
total	134	151	147	143	138	146	157	129	129	113	147	140	132	143	122	106	135	157	147	156	205	2,977	total

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more. Data of 2011 year include fatal and non-fatal accidents caused by Great East Japan Earthquake in 2011.

Data sources: <a href="https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm">https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm</a> (MHLW, Japan)

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Fatal accidents in pharmaceuticals in Japan in 1999-2021

pharmaceuticals industry Code No.010803

Type of fatal accidents in pharmaceuticals 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											2			1		1								4	fall from height
falling to same level																		1						1	falling to same level
crash																									crash
struck by flying or falling object						1																		1	struck by flying or falling object
collapse																									collapse
crashed by																									crashed by
caught in/between	1				1			1													1			4	caught in/between
cut																									cut

	-	-	-	-	-		 	; <del></del>							
															injury to the sole
															of the foot
															drown
															contact to
															high/low-
															temperature
															contact to
	1	1							1					3	harmful
															substance
															electric shock
												1		1	explosion
															burst
				1		1								2	fire
														_	traffic accident
		l I													(public road)
					1									1	traffic accident
														ı	(others)
															reaction to
															motion/improper
															motion
															others
															unclassifiable
1	1	2	1	2	1	2					_	_		18	total

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

Causal agents (middle) of fatal accidents in pharmaceuticals in 1999-2021

Causal (M) agents	1000	2000	2001	2002	2003	2004	2005	2006	2007	2008	2000	2010	2011	2012	2013	2014	2015	2016	2017	2018	2010	2020	2021	total	Causal (M)
Causai (M) agents	1999	2000	2001	2002	2003	2004	2003	2000	2007	2008	2009	2010	2011	2012	2013	2014	2013	2010	2017	2010	2019	2020	2021	totai	agents

engine																engine
power transmission mechanism																power transmission mechanism
woodworking machine																woodworking machine
construction machine																construction machine
metal manufacturing machine																metal manufacturing machine
general machine						1							1		2	general machine
mobile silviculture machine																mobile silviculture machine
crane																crane
conveying machine	1			1				1							3	conveying machine
vehicle			1		1										2	vehicle
pressure vessel																pressure vessel
chemical facilities																chemical facilities
welding equipment																welding equipment

			]															]			
kiln, caldron																					kiln, caldron
electric equipment																					electric
																					equipment
human power machine,																					human power
tools																					machine, tools
tools																					tools
other equipments,																					other
facilities														1						1	equipments,
lucinties																					facilities
tamparam, buildings																					temporary
temporary buildings, establishments					1					1		1								3	buildings,
establishments																					establishments
																					hazards,
hazards, harmful		1			1		1					1								4	harmful
substances																					substances
materials																					materials
load																					load
			1												1						natural
natural environment			I												I					2	environment
ather sound areas																					other causal
other causal agent																					agent
no caucal agent																					no causal
no causal agent																					agent
unclassifiable																	1			1	unclassifiable
		_	_	-	===	===		-	-	-	 =	=	=		 				 ====	-	

	total	1		1	2	1	2	1	2			2			2		1		1		1	1			18	total	
--	-------	---	--	---	---	---	---	---	---	--	--	---	--	--	---	--	---	--	---	--	---	---	--	--	----	-------	--

Causal agents (small) of fatal accidents in pharmaceuticals 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																									power transmission
mechanism																									mechanism
circular sawing																									circular sawing
machine																									machine
band sawing																									band sawing
machine																									machine
wood planer																									wood planer
machine																									machine
hollow chisel																									hollow chisel
mortiser, wood																									mortiser, wood
borer																									borer
chamfering																									chamfering
machine, router,																									machine, router,
woodworking																									woodworking
milling machine																									milling machine
chain saw																									chain saw
other woodworking																									other woodworking
machines																									machines

leveling,												leveling,
transporting or												transporting or
loading machine												loading machine
excavating machine												excavating machine
foundation work												foundation work
machine												machine
hardening machine												hardening machine
demolition machine												demolition machine
vehicle for high lift												vehicle for high lift
work												work
other construction												other construction
machines												machines
lathe												lathe
drill press, milling												drill press, milling
machine												machine
grinding machine,												grinding machine,
buffing machine												buffing machine
power press												power press
forging pressure												forging pressure
hammer												hammer
shearing machine												shearing machine
other metal												other metal
manufacturing												manufacturing
machines												machines

centrifugal machine																centrifugal machine
mixer, grinder													1		1	mixer, grinder
roll machine (except printingroll machine)																roll machine (except printingroll machine)
injection molding machine																injection molding machine
food manufacturing machine																food manufacturing
printing machine																printing machine
industrial robot																industrial robot
other general power machines				1											1	other general power machines
felling machine																felling machine
mobile logging machine																mobile logging machine
skyline yarding machine																skyline yarding machine
other mobile silviculture machine																other mobile silviculture machine
crane																crane
mobile crane																mobile crane
derrick crane																derrick crane
elevator, lift																elevator, lift
					$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$			$\overline{}$	$\overline{}$				

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

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

hand tool														hand tool
ladder														ladder
slinging tool														slinging tool
other tools														other tools
other equipment,									1				1	other equipment,
facilities														facilities
scaffolding														scaffolding
timbering														timbering
stairs, landing stage														stairs, landing stage
opening						1		1					2	opening
roof, beam, haze,														roof, beam, haze,
crossbeam,														crossbeam,
principal rafter														principal rafter
working platform,														working platform,
boot board														boot board
passage														passage
building,			1										1	building,
establishment														establishment
other temporary														other temporary
buildings,														buildings,
establishments														establishments
explosive substance														explosive substance
inflammable			1	1									2	inflammable
substance				<b>'</b>										substance

	 			 	 -									
inflammable gas														inflammable gas
harmful substance		1						1					2	harmful substance
radiation														radiation
other hazards,														other hazards,
harmful substances														harmful substances
metal material														metal material
lumber, bamboo														lumber, bamboo
stone, sand,														stone, sand,
substance														substance
other materials														other materials
load														load
machine/equipment														machine/equipment
as load														as load
natural ground,														natural ground,
rock														rock
standing tree														standing tree
water														water
abnormal			1										1	abnormal
environment														environment
high/cold														high/cold
temperature														temperature
environment														environment
other environments										1			1	other environments
other causal agent														other causal agent

no causal agent																		no causal agent
unclassifiable														1			1	unclassifiable
total	1	1	2	1	2	1	2		2		2	1	1	1	1		18	total

Workers age of fatal accidents in pharmaceuticals 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																									19 years old or less
20-29																									20-29
30-39				1				1												1	1			4	30-39
40-49	1		1	1	1			1								1								6	40-49
50-59						1	1				1			1				1						5	50-59
60 years old or						1					1			1										3	60 years old or
more														'										-	more
total	1		1	2	1	2	1	2			2			2		1		1		1	1			18	total

Workers' number of workplace of fatal accidents in pharmaceuticals 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																									9 workers or less
10-29	1					1								1						1				4	10-29
30-49																									30-49
50-99					1											1					1			3	50-99
ı																									

100-299		1	1			1	1						1				5	100-299
300 workers or			1		1		1		2		1						6	300 workers or
more					ļ .						•							more
total	1	1	2	1	2	1	2		2		2	1	1	1	1		18	total

Month of fatal accidents in pharmaceuticals in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January			1		1													1			1			4	January
February											1													1	February
March				1				1																2	March
April							1																	1	April
May																									May
June	1					1										1								3	June
July																				1				1	July
August																									August
September														1										1	September
October				1																				1	October
November											1			1										2	November
December						1		1																2	December
total	1		1	2	1	2	1	2			2			2		1		1		1	1			18	total

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																									Hokkaido
Aomori																									Aomori
lwate																									lwate
Miyagi																									Miyagi
Akita																									Akita
Yamagata						1																		1	Yamagat
Fukushima																									Fukushin
Ibaraki																									Ibaraki
Tochigi																									Tochigi
Gunma																									Gunma
Saitama																									Saitama
Chiba																									Chiba
Tokyo																									Tokyo
Kanagawa																									Kanagaw
Niigata																									Niigata
Toyama								1										1						2	Toyama
Ishikawa																									Ishikawa
Fukui																				1				1	Fukui
Yamanashi	1																							1	Yamanas
Nagano														1										1	Nagano
Gifu			1	1										1										3	Gifu

Shizuoka						1										1	Shizuoka
Aichi																	Aichi
Mie								2								2	Mie
Shiga																	Shiga
Kyoto																	Kyoto
Osaka																	Osaka
Hyogo											1					1	Hyogo
Nara																	Nara
Wakayama																	Wakayama
Tottori																	Tottori
Shimane																	Shimane
Okayama																	Okayama
Hiroshima																	Hiroshima
Yamaguchi					1											1	Yamaguchi
Tokushima		1												1		2	Tokushima
Kagawa			1													1	Kagawa
Ehime																	Ehime
Kochi																	Kochi
Fukuoka				1												1	Fukuoka
Saga																	Saga
Nagasaki																	Nagasaki
Kumamoto																	Kumamoto
Oita																	Oita

Miyazaki																		Miyazaki
Kagoshima																		Kagoshima
Okinawa																		Okinawa
total	1	1	2	1	2	1	2		2		2	1	1	1	1		18	total

Data sources: <a href="https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm">https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm</a> (MHLW, Japan)

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