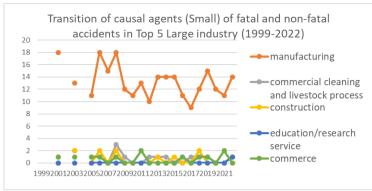
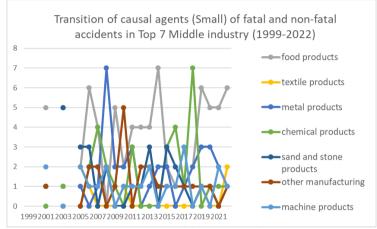
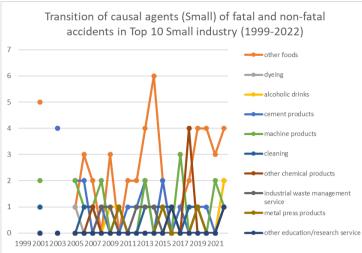
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 161 centrifugal machine (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 161 centrifugal machine in Large industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 161 centrifugal machine in Middle Industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 161 centrifugal machine in Small Industry (1999-2022)

Trans	ition of causal agents (Small) of fa									0				<u> </u>		<u>`</u>											
code	Large industry	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	Large industry
01	manufacturing			18		13		11	18	15	18	12	11	13	10	14	14	14	11	9	12	15	12	11	14	265	manufacturing
15	commercial cleaning and livestock process					2		1	1		3	1			1	1	1			1	1	1			1	15	commercial cleaning and livestock process
03	construction			1		2			2		2					1		1			2				1	12	construction
12	education/research service																		1						1	2	education/research service
08	commerce			1		1		1	1		1			2					1		1	1		2		12	commerce
17	others					1			1	2			1	1	1									1		8	others
06	agriculture										1						1				1	1				4	agriculture
14	hotel/restaurant/amusement service			1				1	1							1										4	hotel/restaurant/amusement service
07	livestock/fishery					2		1																		3	livestock/fishery
13	health and hygiene service							1							1					1						3	health and hygiene service
02	mining															1										1	mining
04	transportation service									1																1	transportation service
05	cargo handling service																										cargo handling service
09	financial business/advertisement																										financial business/advertisement
10	movie/play service																										movie/play service
11	telecommunication service																										telecommunication service
16	public office																										public office
	total			21		21		16	24	18	25	13	12	16	13	18	16	15	13	11	17	18	12	14	17	330	total

Transition of causal agents	(Small) of fatal and non-fatal accidents	as code no. 161 centrifugal machine in 1	Large industry (1999-2022)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 161 centrifugal machine in Middle industry (1999-2022)

cod	e Middle industry	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	Middle industry

0101	food products		5	5	2	6	4		5	2	4	4	4	7	2	1	1	2	6	5	5	6	76	food products
0102	textile products		1	1	2	1				1									1			2	9	textile products
0112	metal products		1	1	1		1	7	2	2	3		1	2	2		1	2	3	3	2	1	35	metal products
0108	chemical products			1		2	4	2	1		3				3	4	1	7		1	1	1	31	chemical products
0109	sand and stone products		1	5	3	3		2			1	1	3		3	2	1		1	1		1	28	sand and stone products
0117	other manufacturing		1			2	2		1	5		2	2	1	1	1	1	1	1	1		1	23	other manufacturing
0113	machine products		2		2	1	1	2		1	1	1	2		1	1	3		1		2	1	22	machine products
1501	commercial cleaning and livestock process			2	1	1		3	1			1	1	1			1	1	1			1	15	commercial cleaning and livestock process
0114	electrical equipment products								1				1	1					1			1	5	electrical equipment products
	education/research service															1						1	2	education/research service
	civil engineering work																					1	1	civil engineering wor
0110	steel making		4						1			1	1	2	1	1				1			12	steel making
0303	other construction works		1	1		1		2					1		1								7	other construction works
0111	nonferrous metal making		1		1			1				1			1		1						6	nonferrous metal making
0106	pulp/paper processing products					2		2			1												5	pulp/paper processing products
1702	others			1			1			1	1	1											5	others
0104	wood products					1		1						1		1							4	wood products
0115	transport equipment products		1				2	1															4	transport equipment products
0302	construction work			1		1												2					4	construction work
0601	agriculture							1						1				1	1				4	agriculture
0801	wholesale				1			1											1		1		4	wholesale
0802	retail			1							2							1					4	retail
0804	other commerce		1			1										1					1		4	other commerce
1402	restaurant				1	1							1										3	restaurant
1701	dispatch service					1	1														1		3	dispatch service
0103	fiber products		1						1														2	fiber products
0107	printing/bookbinding						1														1		2	printing/bookbinding
0702	fishery			2																			2	fishery
1302	social welfare facility				1							1											2	social welfare facility
0105	furniture																		1				1	furniture
0202	quarrying												1										1	quarrying
0403	road cargo transportation service						1																1	road cargo transportation service
0701	livestock				1																		1	livestock
1301	medical treatment service																1						1	medical treatment service

1403	other amusement service		1																				1	other amusement service
0116	electric/gas/water service																							electric/gas/water service
0201	coal mining																							coal mining
0203	other mining																							other mining
0401	railroad/water transportation/airline service																							railroad/water transportation/airline service
0402	road passenger transport service																							road passenger transport service
0404	other transportation service																							other transportation service
0501	land cargo handling service																							land cargo handling service
0502	harbor transportation service																							harbor transportation service
0602	forestry																							forestry
0803	haircut/beauty salon																							haircut/beauty salon
0901	financial business																							financial business
0902	advertisement and mediator																							advertisement and mediator
1001	movie/play service																							movie/play service
1101	telecommunication service																							telecommunication service
1303	other health and hygiene service																							other health and hygiene service
1401	hotel																							hotel
1601	public office																							public office
	total		21	21	16	24	18	25	13	12	16	13	18	16	15	13	11	17	18	12	14	17	330	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 161 centrifugal machine in Small industry (1999-2022)

code	Small industry	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2 total	Small industry
010109	other foods			5		4		1	3	2		3		2	2	4	6	2		1	2	4	4	3	4	52	other foods
010204	dyeing							1					1									1			2	5	dyeing
010105	alcoholic drinks											1	1												2	4	alcoholic drinks
010901	cement products			1		4		2	2		1			1	1	2		2		1		1	1		1	20	cement products
011301	machine products			2				2	1	1	2		1			2		1		3		1		2	1	19	machine products
011703	cleaning			1					1	1			1			1	1	1	1		1	1			1	11	cleaning
010899	other chemical products									1									1		4				1	7	other chemical products
150102	industrial waste management service										1	1			1	1	1					1			1	7	industrial waste management service
011203	metal press products												1					1				1			1	4	metal press products
120109	other education/research service																		1						1	2	other education/research service

011403 electronics equipment and telecommunications apparatus																						1	1	electronics equipment and telecommunications apparatus
030110 water supply/sewage construction work																						1	1	water supply/sewage construction work
011209 other metal products				1				4	1	1				2	1			2		2	1		15	other metal products
010801 non organic or organic chemical products						1		1	1		1				2	1	1	3		1			12	non organic or organic chemical products
011204 metal plating products		1			1			2			2		1				1		2	1	1		12	metal plating products
010103 agricultural food products					1	1	1		1		1	2							2				9	agricultural food products
011001 steel/iron/rolling products		4							1				1			1							7	steel/iron/rolling products
011709 other manufacturing						1	1		1	2		1	1										7	other manufacturing
010909 other sand and stone products					1	1		1					1		1	1							6	other sand and stone products
010805 plastics products							2								1	1					1		5	plastics products
011002 casting products												1		2	1					1			5	casting products
011102 nonferrous metals casting products		1			1			1				1			1								5	nonferrous metals casting products
030302 machinery/apparatus setting work		1		1		1							1		1								5	machinery/apparatus setting work
150101 building maintenance service				2		1											1	1					5	building maintenance service
170209 others				1			1			1	1	1											5	others
010102 fishery products				1		1	1									1							4	fishery products
010209 other textile products		1		1	1	1																	4	other textile products
011202 screw products							1	1	1		1												4	screw products
011502 auto mobile products		1					2	1															4	auto mobile products
060101 agriculture								1						1				1	1				4	agriculture
010104 bread/cake products											1			1						1			3	bread/cake products
010601 pulp/paper						1		2															3	pulp/paper
010806 rubber products						1					1					1							3	rubber products
011305 other precision machine products											1	1				1							3	other precision machine products
011702 machine repair										1		1					1						3	machine repair
030201 steel frame/reinforced concrete house construction work				1														2					3	steel frame/reinforced concrete house construction work
080109 other wholesale					1			1													1		3	other wholesale
080209 other retails				1							2												3	other retails
080409 other commerce		1														1					1		3	other commerce
170101 dispatch service						1	1														1		3	dispatch service
010101 meat/dairy products						1															1		2	meat/dairy products
010106 soft drinks									1	1		1							1	1	1		2	soft drinks
010309 other fiber products		1	í						1	i —		1							1	1	1	1	2	other fiber products
010402 plywood			i — i			1			1	<u> </u>		1		1					1	1	1		2	plywood
			i									1								1				

010609 other pulp/paper processing products							1					1										2	other pulp/paper processing products
010701 printing service								1													1	2	printing service
010802 chemical fiber								1	1													2	chemical fiber
011409 other electrical equipment										1				1								2	other electrical equipment
011701 auto mobile servicing											1									1		2	auto mobile servicing
030309 other construction works									2													2	other construction works
070209 other fishery				2																		2	other fishery
130201 social welfare facility						1							1									2	social welfare facility
140201 general restaurant						1								1								2	general restaurant
150103 other waste disposal service						1			1													2	other waste disposal service
010401 lumbering																1						1	lumbering
010409 other lumber and wood products									1													1	other lumber and wood products
010503 fittings																			1			1	fittings
010807 leather products				1																		1	leather products
010809 chemical fertilizer products							1					1										1	chemical fertilizer products
010902 glass products				1																		1	glass products
010905 other ceramic products							1									1						1	other ceramic products
011109 other nonferrous metal products																	1					1	other nonferrous metal products
011401 heavy electrical equipment																			1			 1	heavy electrical equipment
011402 electrical appliance															1							1	electrical appliance
020201 quarrying							1							1								1	quarrying
030202 wooden house construction work							1															1	wooden house construction work
040301 general truck transportation service								1														1	general truck transportation service
070101 livestock						1																1	livestock
080101 all kinds of wholesale																			1			1	all kinds of wholesale
080204 fuel retail																		1				1	fuel retail
080401 warehousing							1															1	warehousing
130102 general clinic																	1					1	general clinic
140209 other restaurants							1															1	other restaurants
140301 golf course			1				1															1	golf course
150109 other cleaning and livestock process service									1													1	other cleaning and livestock process service
010201 silk-reeling																							silk-reeling
010202 cotton-spinning																	i						cotton-spinning
010203 weaving																							weaving
010301 over/under wear	i –	i –			Î	Ì	i –	i –	i –		i -		ĺ				i –	i –					over/under wear
010501 wood furniture		1							1								i –	i –					wood furniture
010502 metal furniture	i —	i —	i — i	 i —	i —	1	1	1	i —		1	i —	i —				i —	i —	i — i			 í —	metal furniture
			i — i			1		1			1						1	1				í—	1

010509 other furniture												other furniture
010602 paper processing products												paper processing products
010702 bookbinding												bookbinding
010709 other printing and bookbinding												other printing and bookbinding
010803 pharmaceuticals												pharmaceuticals
010804 petroleum/coal products												petroleum/coal products
010808 painting products												painting products
010903 pottery products												pottery products
010904 fire resisting products												fire resisting products
011009 other steel products												other steel products
011101 nonferrous metals/rolling products												nonferrous metals/rolling products
011201 western tableware/cutting tool products												western tableware/cutting tool products
011302 measuring instruments												measuring instruments
011303 optical instruments												optical instruments
011304 watch products												watch products
011501 ship building												ship building
011503 railway vehicle products												railway vehicle products
011509 other transport equipment products												other transport equipment products
011601 electric utility service												electric utility service
011602 city gas service												city gas service
011603 city water service												city water service
011609 other electric/gas/water service												other electric/gas/water service
011704 tobacco products												tobacco products
020101 general coal mining												general coal mining
020109 other coal mining												other coal mining
020202 gravel digging												gravel digging
020209 other quarrying												other quarrying
020301 metal mining												metal mining
020302 petroleum mining												petroleum mining
020309 other mining												other mining
030101 hydroelectric plant construction work												hydroelectric plant construction work
030102 tunnel construction work												tunnel construction work
030103 subway construction work												subway construction work
030104 railway construction work												railway construction work
030105 bridge construction work												bridge construction work
030106 road construction work												road construction work
030107 river civil engineering work							i					river civil engineering work

030108	sand collapse prevention civil engineering work													sand collapse prevention civil engineering work
030109	land consolidation civil engineering work													land consolidation civil engineering work
030111	port/seaside construction work													port/seaside construction work
030199	other civil engineering work													other civil engineering work
030203	building facility construction work													building facility construction work
030209	other building construction work													other building construction work
030301	electricity/telecommunication work													electricity/telecommunication work
	railroad service													railroad service
	water transportation service													water transportation service
040103	airline service													airline service
040201	taxi service													taxi service
	bus service													bus service
	other passenger transport service													other passenger transport service
	specific truck transportation service													specific truck transportation service
040303	cargo/ light automobile transportation service													cargo/ light automobile transportation service
040309	other land cargo transportation service													other land cargo transportation service
040409	other transportation service													other transportation service
050101	land cargo handling service													land cargo handling service
050201	general harbor transportation service													general harbor transportation service
050202	port cargo handling service													port cargo handling service
050209	other harbor transportation service													other harbor transportation service
060201	lumbering													lumbering
060209	other forestry													other forestry
	fishery													fishery
080102	furniture/fittings wholesale													furniture/fittings wholesale
080201	all kinds of retail													all kinds of retail
080202	auto mobile retail													auto mobile retail
080203	furniture/fittings retail													furniture/fittings retail
	newspaper retail													newspaper retail
080301	haircut													haircut
P	beauty salon							<u> </u>	j					beauty salon
<u> </u>	banking/trust business								i					banking/trust business
	stock/commodity trade								ii —					stock/commodity trade

090102	business																							business
090103	insurance business																							insurance business
090109	other financial business																							other financial business
090201	traveling service																							traveling service
090209	other advertisement and mediator																							other advertisement and mediator
100101	movie production and delivery service																							movie production and delivery service
100102	movie theatre																							movie theatre
100109	other movie/play service																							other movie/play service
11010	telecommunication service																							telecommunication service
12010	auto mobile practical training																							auto mobile practical training
120102	software service																							software service
13010	hospital																							hospital
130109	other medical treatment service																							other medical treatment service
	bathhouse																							bathhouse
130309	other health and hygiene service																							other health and hygiene service
14010	hotel																							hotel
140302	park and amusement park																							park and amusement park
140309	other amusement service																							other amusement service
150104	cremation service																							cremation service
150105	livestock process service																							livestock process service
16010	public office																							public office
170201	security service																							security service
170202	information processing service																							information processing service
	total		21	21	16	24	18	25	13	12	16	13	18	16	15	13	11	17	18	12	14	17	330	total

Data source : <u>https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html</u> (MHLW, Japan)

https://www.jisha.or.jp/english/statistics/202311_12.html