

Injury distribution - impact directions

- initial injury diagnoses
- pmi (permanent medical impairment)

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Material and methods

- Injuries reported to Folksam Insurance 1993-2021 and those resulting in a permanent medical impairment (pmi of any degree)
- Bar charts show proportions of injuries in the different impact directions and injury types, not risks.
- Impact direction is not known in all cases, that is why the numbers of cases are much lower for these charts.

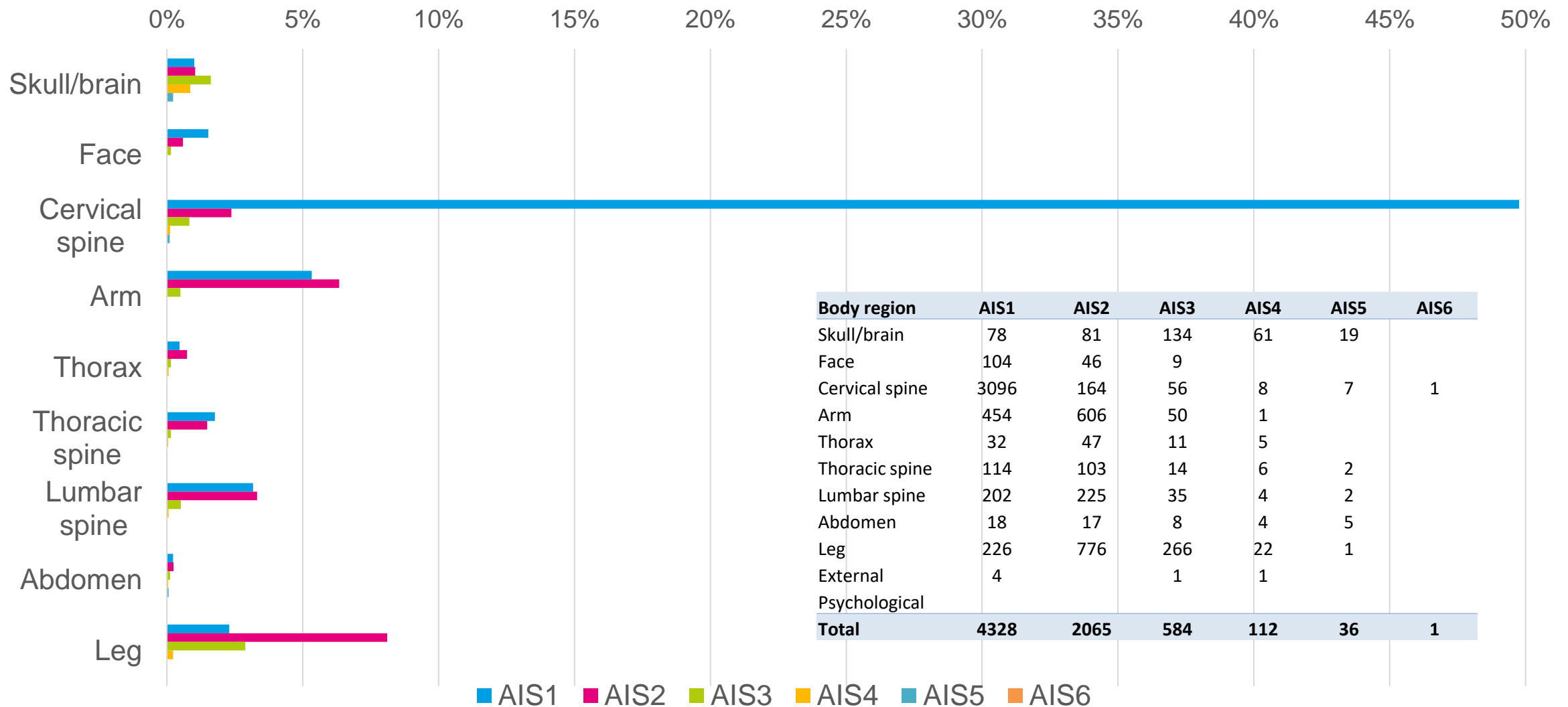
Distribution of initial injury diagnoses, car occupants, accident year 1993-2021

Body region	AIS0	AIS1	AIS2	AIS3	AIS4	AIS5	AIS6	Total
Skull/brain		5944	770	528	314	171	96	7823
Face		4605	409	41				5055
Cervical spine		27544	306	179	14	56	25	28124
Arm		7966	2234	199	2			10401
Thorax		5627	1265	858	200	242	4	8196
Thoracic spine		3782	231	28	6	6		4053
Lumbar spine		5557	642	56	4	22		6281
Abdomen		723	243	103	272	70		1411
Leg		6972	2424	904	72	2		10374
External		1932	7	4	2	1	11	1957
Psychological	185							185
Total	185	70652	8531	2900	886	570	136	83860

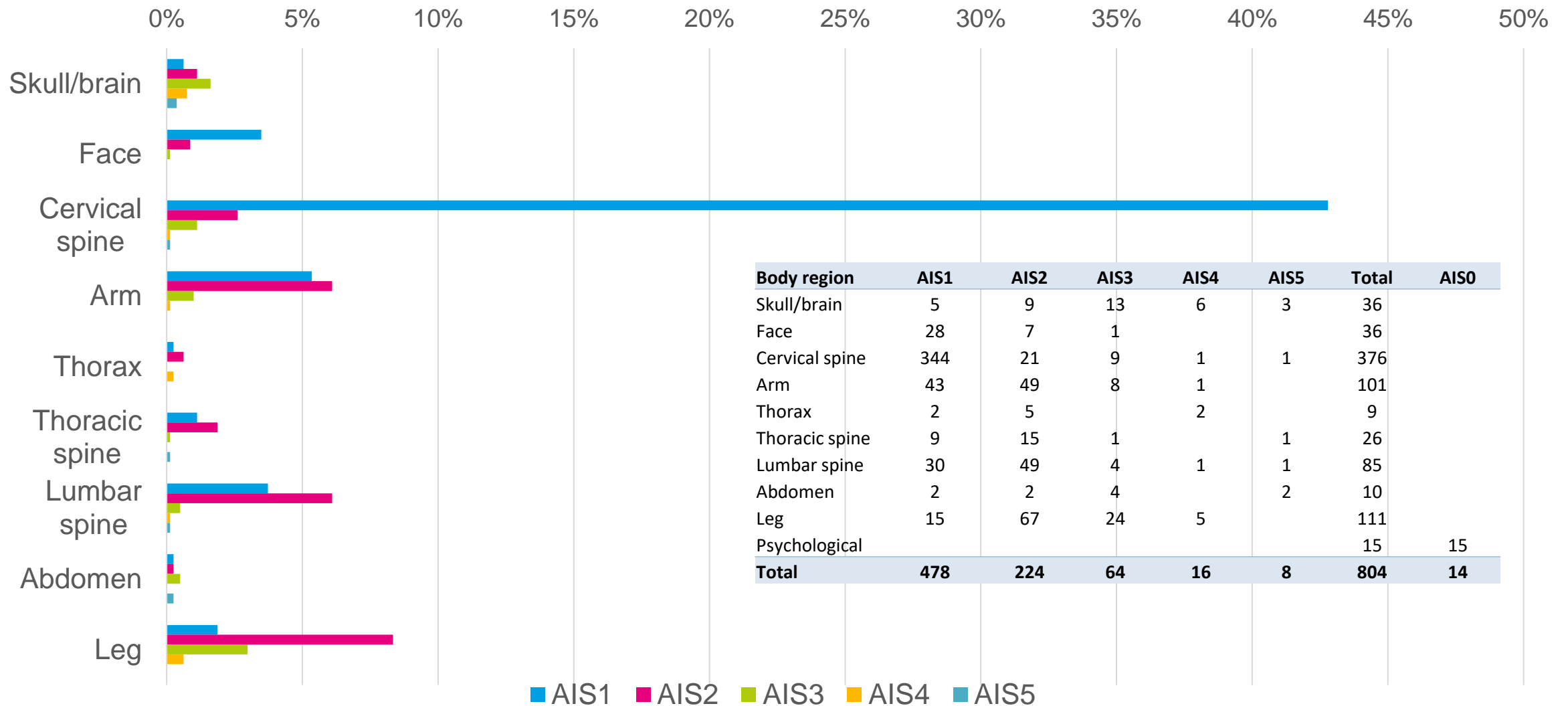
Injuries leading to pmi, car occupants, accident year 1993-2021

Body region	0	AIS1	AIS2	AIS3	AIS4	AIS5	AIS6	Total
Skull/brain		61	63	98	52	14		288
Face		92	36	9				137
Cervical spine		3014	144	50	7	6	1	3222
Arm		323	384	30	1			738
Thorax		28	45	9	4			86
Thoracic spine		107	90	9	3	1		210
Lumbar spine		192	201	31	4	1		429
Abdomen		14	15	7	3	4		43
Leg		139	491	175	14			819
External		4		1	1			6
Psychological	79							79
Total	79	3974	1469	419	89	26	1	6057

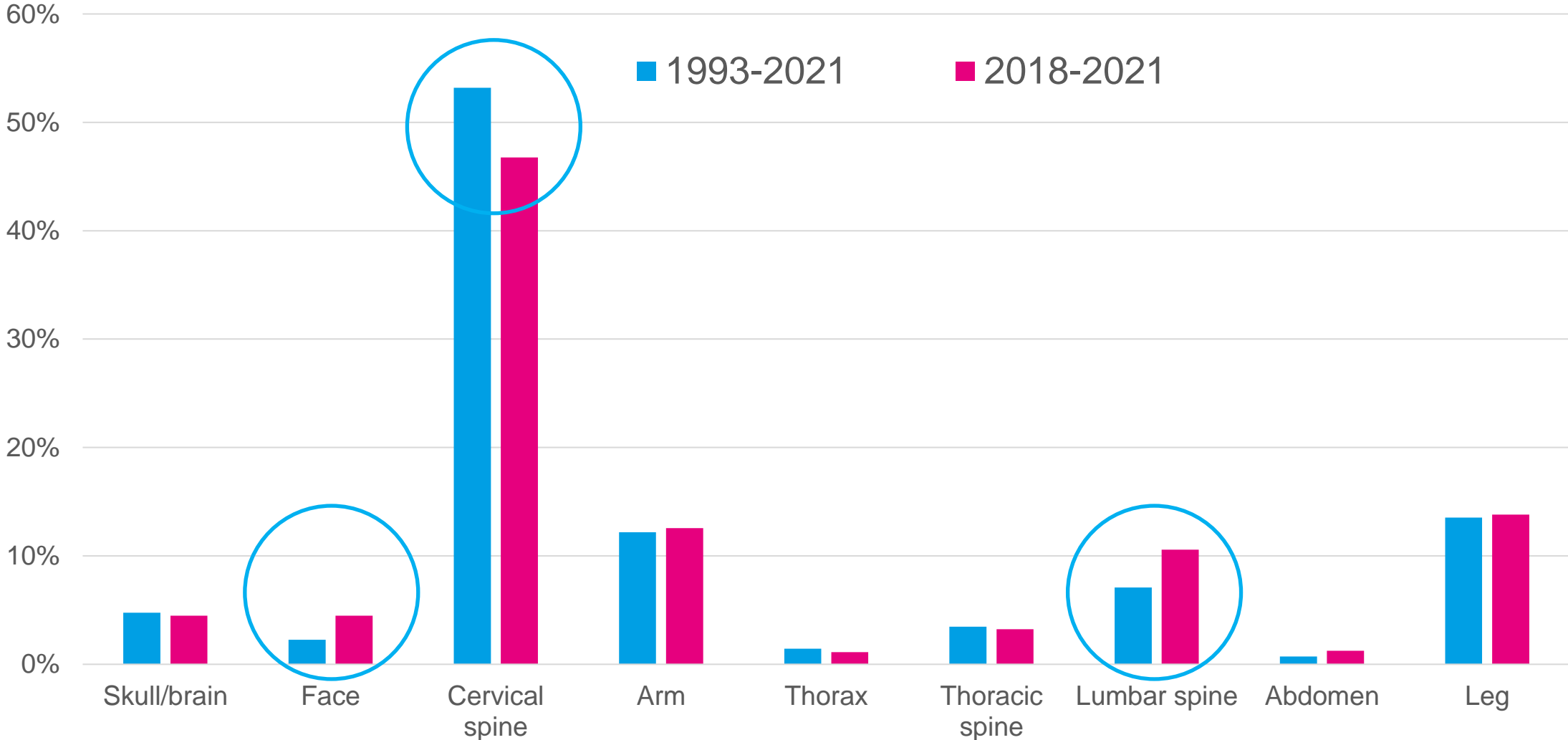
Distribution of injuries leading to pmi, accident year 1993-2021



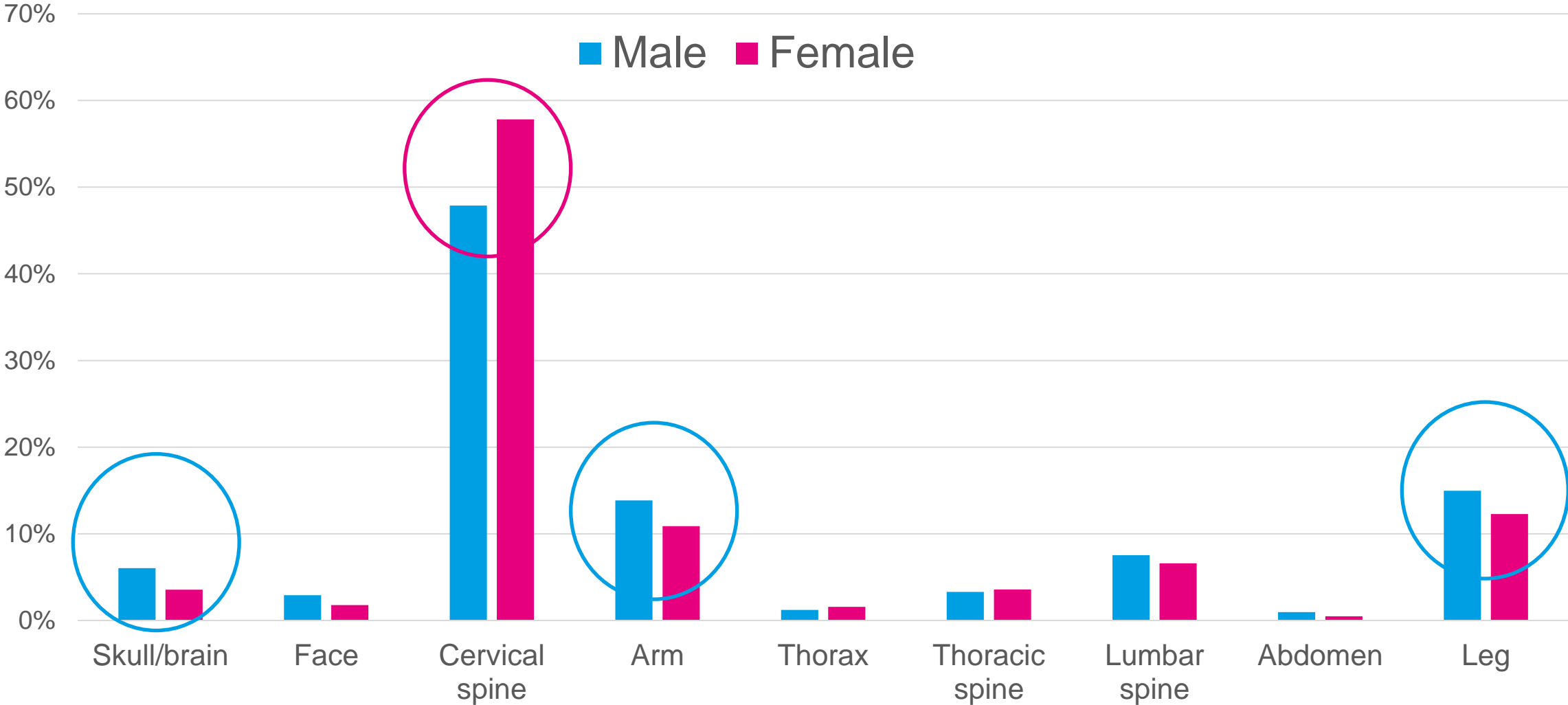
Distribution of injuries leading to pmi, accident year 2018-2021



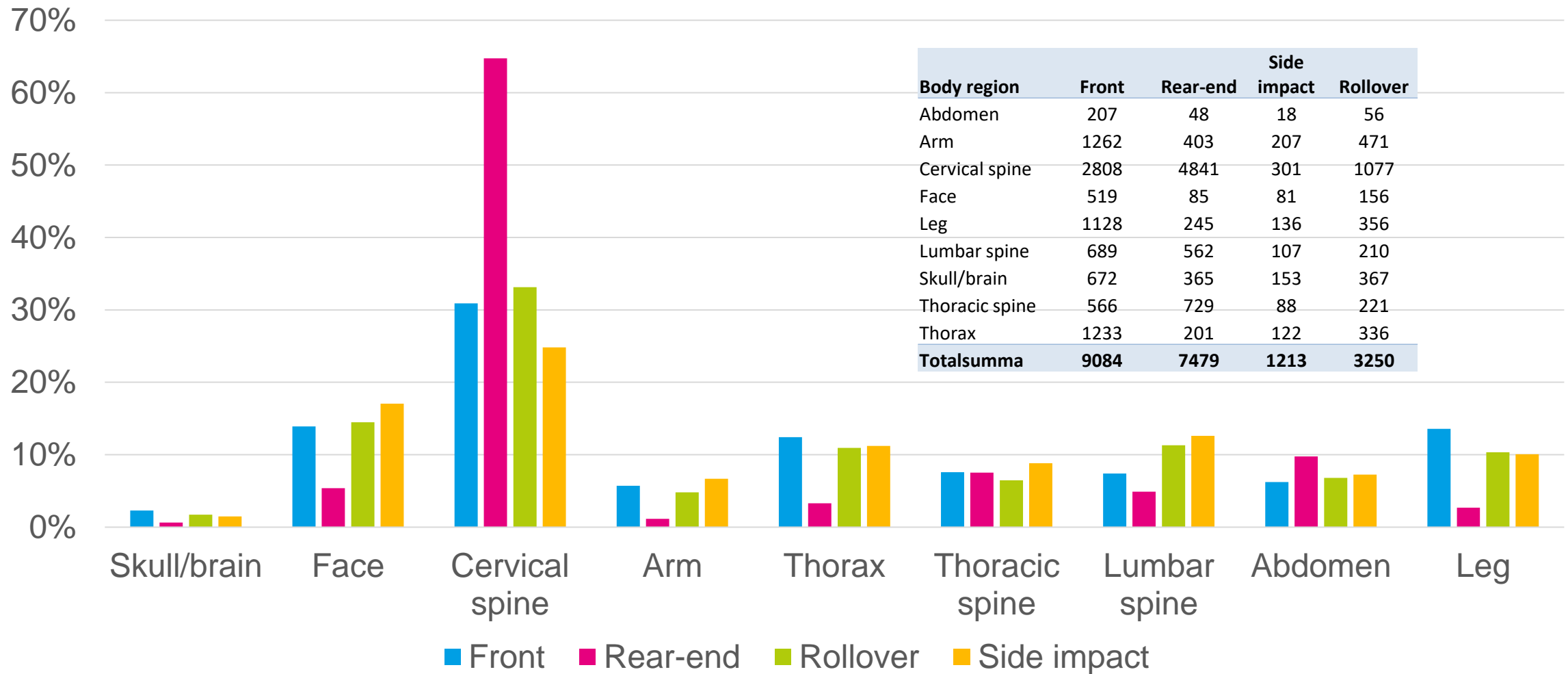
Distribution of injuries leading to pmi



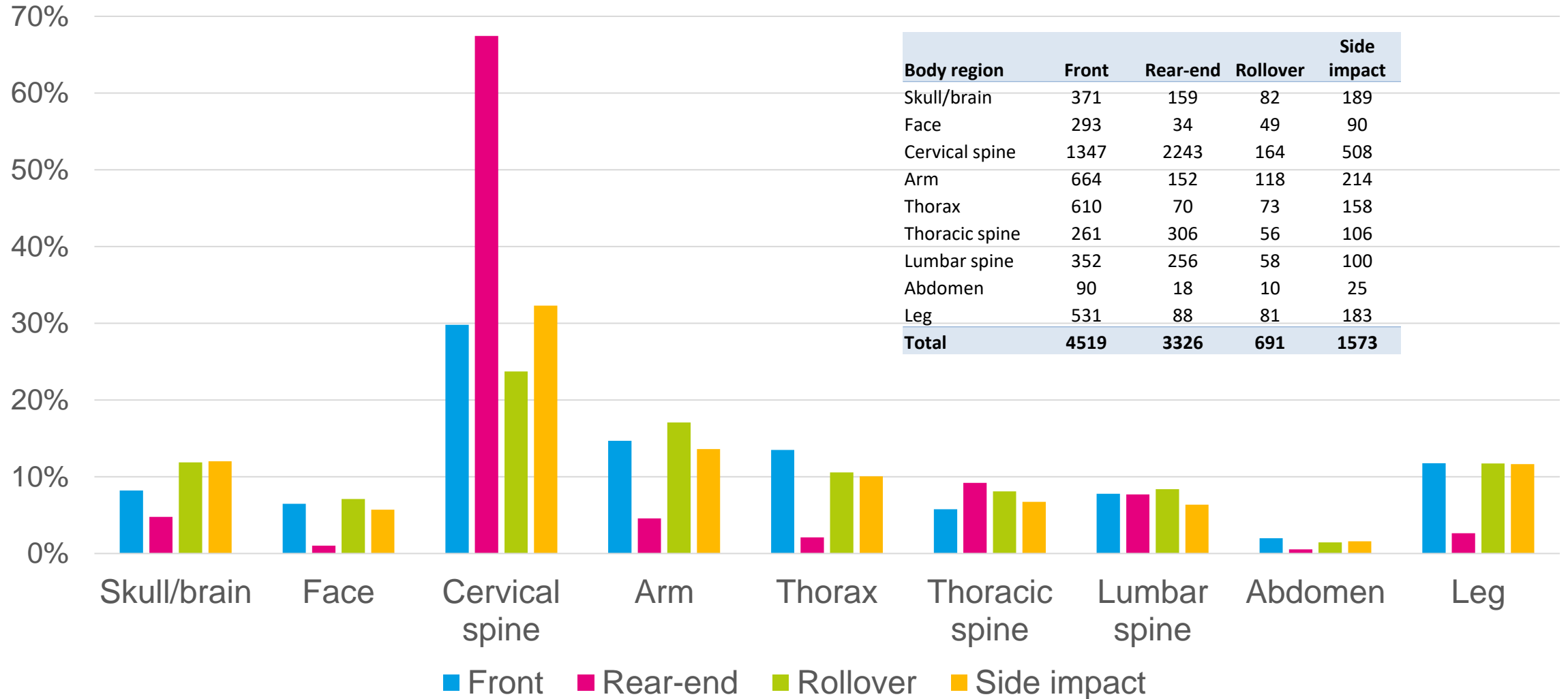
Distribution of injuries leading to pmi, males and females



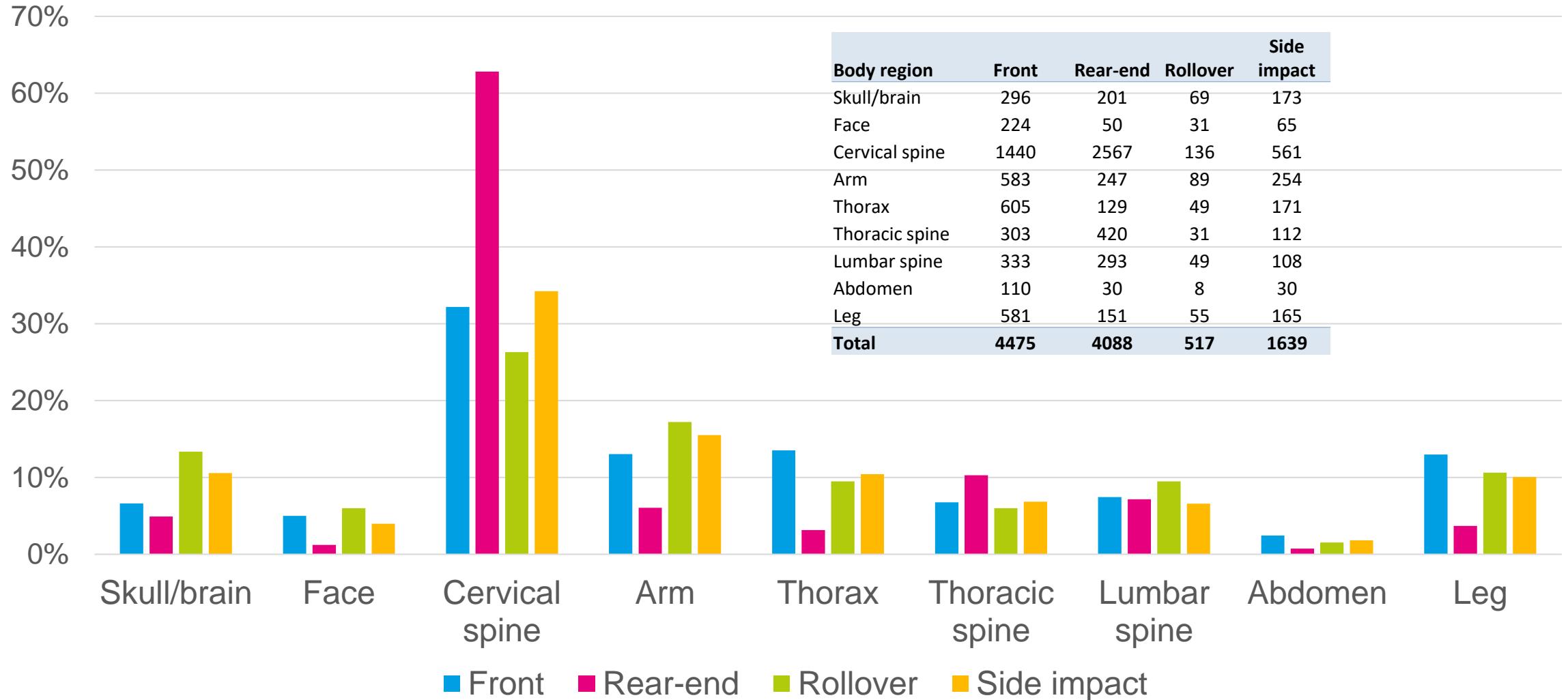
Distribution of initial diagnoses, impact directions, acc year 2002-2021



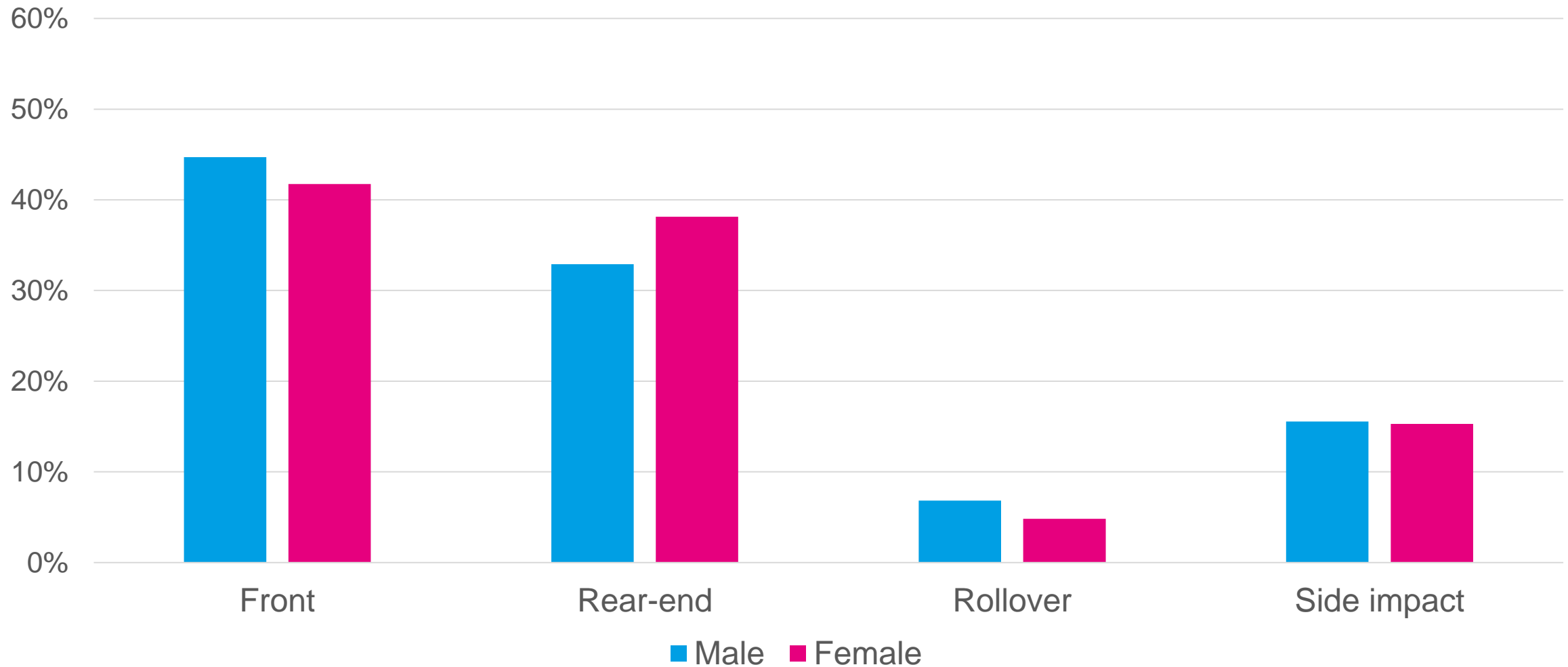
Distribution of initial diagnoses, impact directions, acc year 2002-2021, males



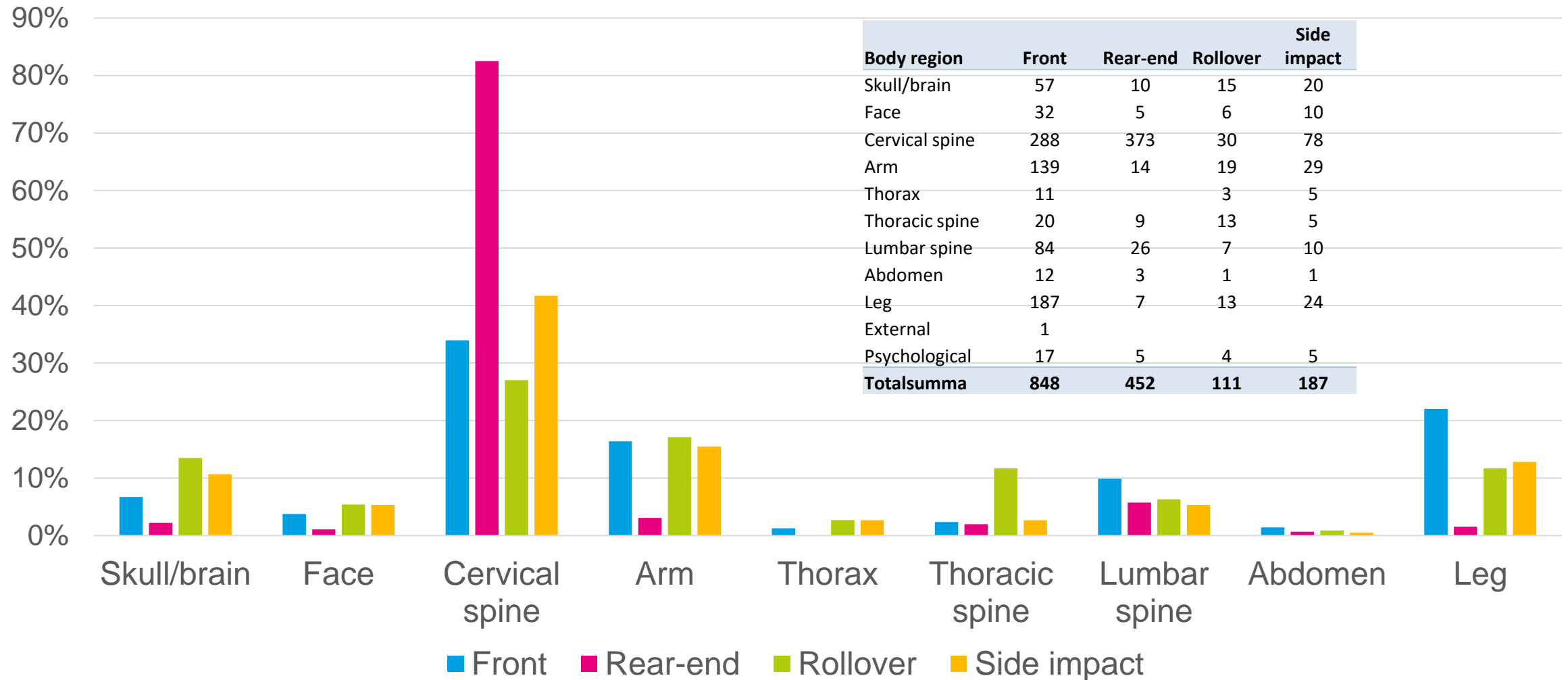
Distribution of initial diagnoses, impact directions, acc year 2002-2021, females



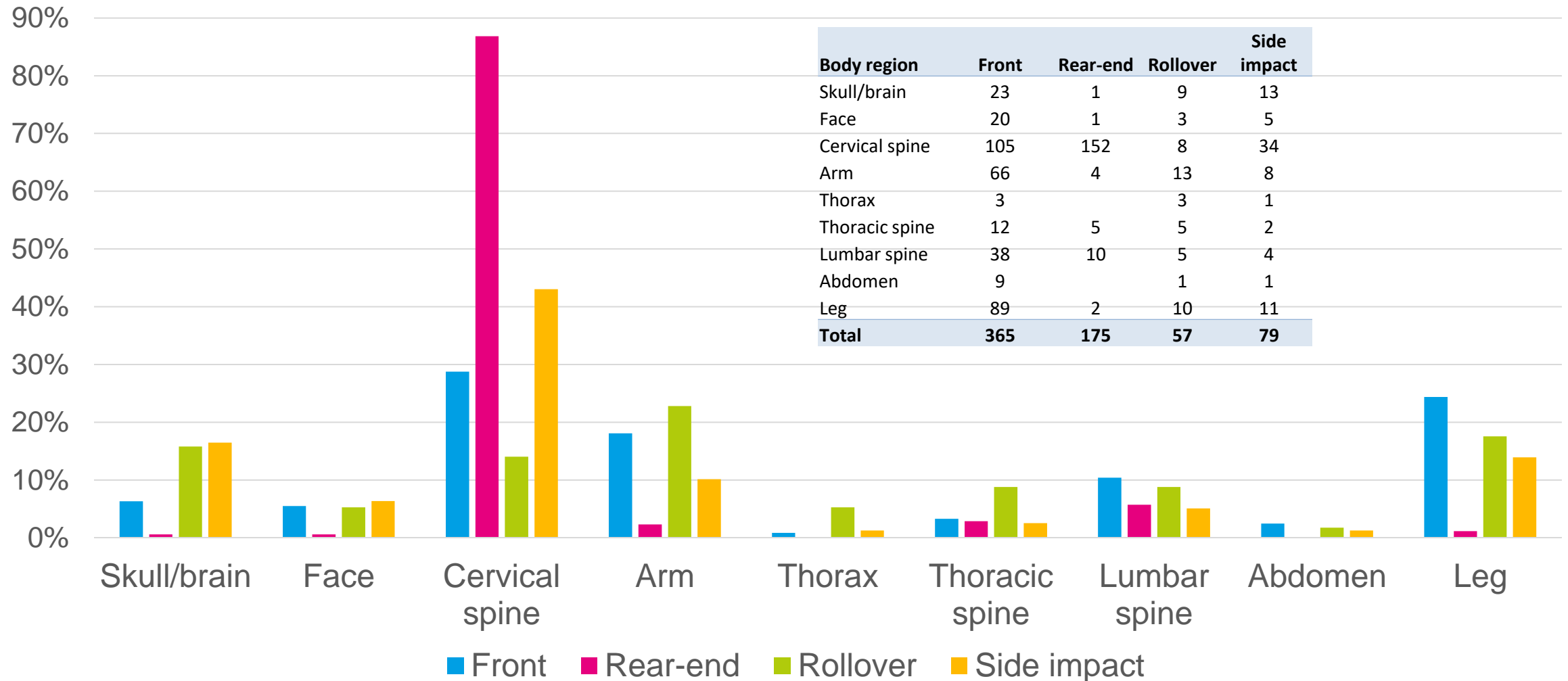
Distribution of initial diagnoses, impact directions, acc year 2002-2021, males and females



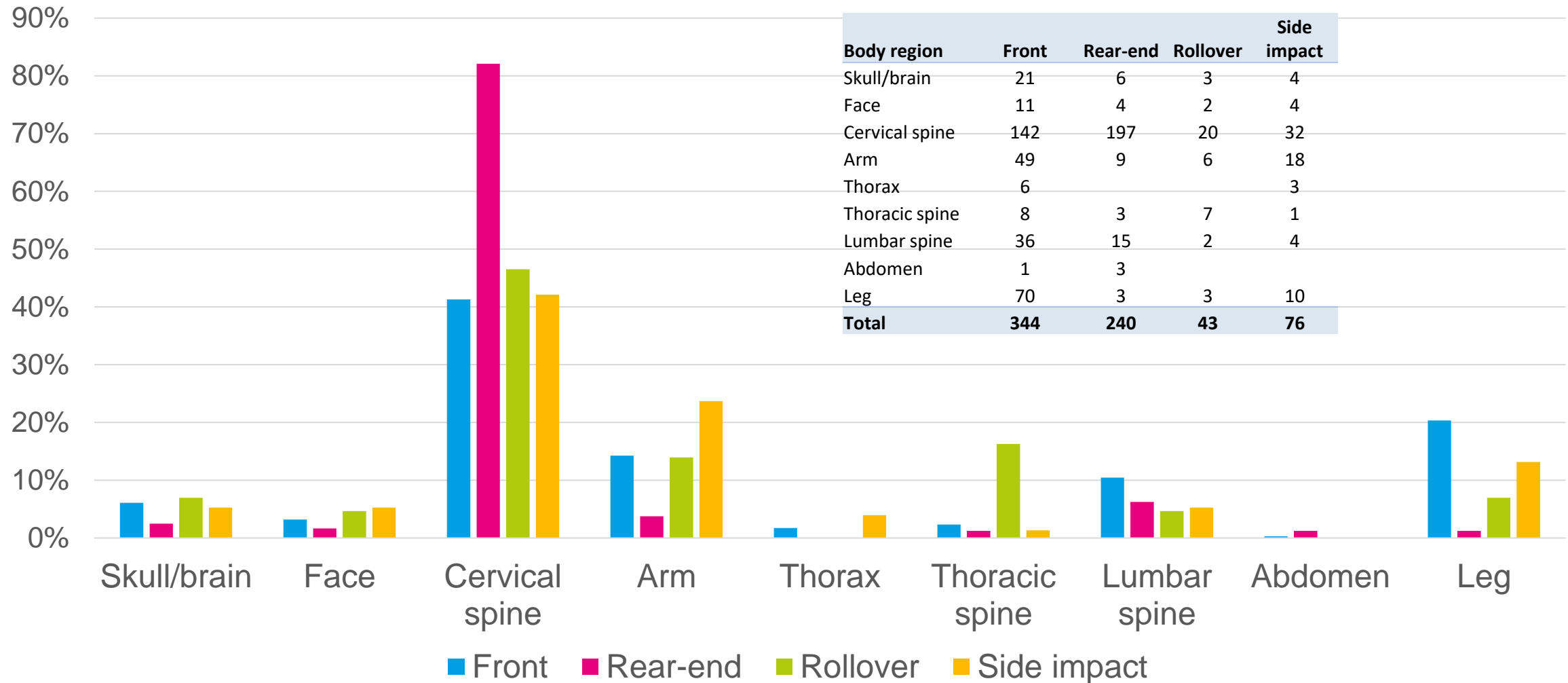
Distribution of injuries leading to pmi, impact directions



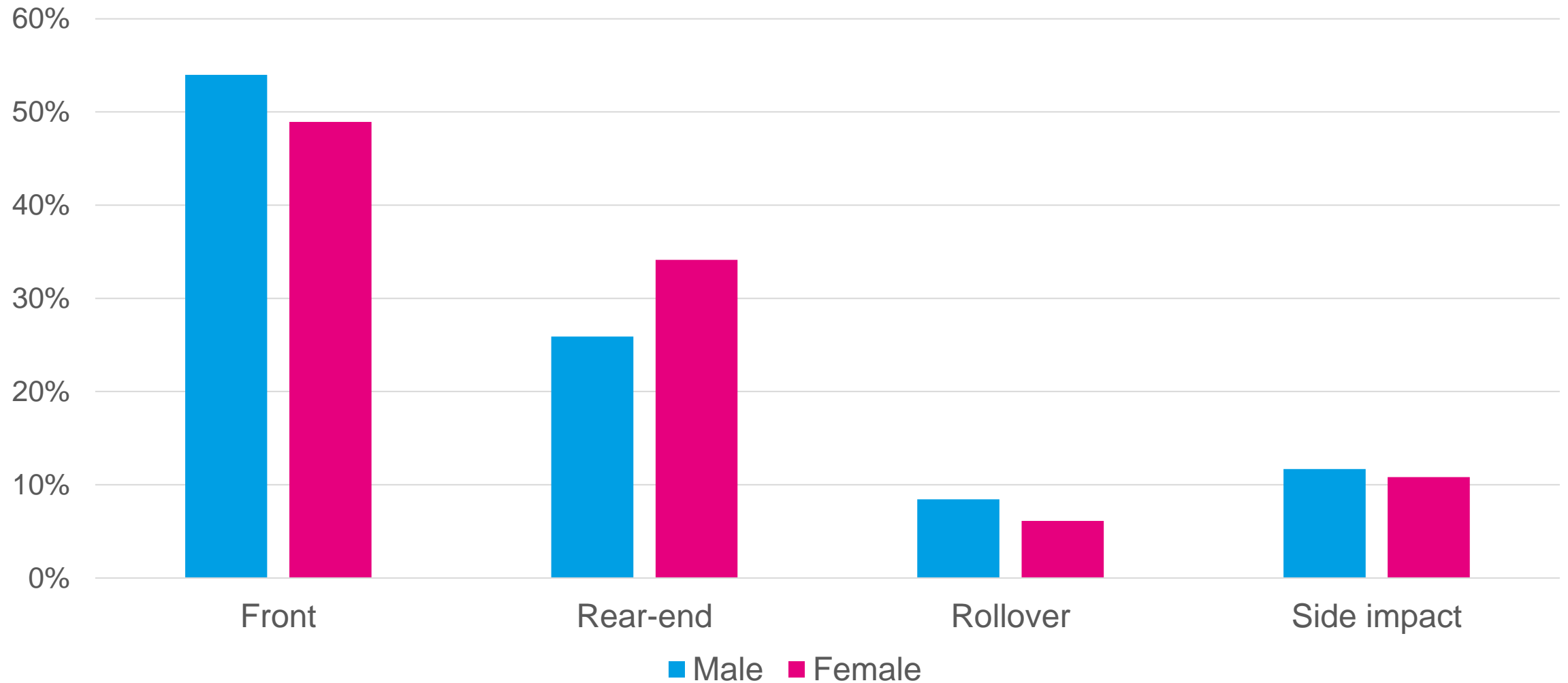
Distribution of injuries with pmi, impact directions, acc year 2002-2021, males



Distribution of injuries with pmi, impact directions, acc year 2002-2021, females



Distribution of injuries with pmi, impact directions, acc year 2002-2021, males and females



Summary

- Proportion of cervical spine injuries with pmi dropped in newer accidents while proportion of face and lumbar spine increased
- Females higher proportion of cervical spine
males higher proportion of skull/brain and extremity injuries
- Frontal impacts larger proportion of pmi compared to initial diagnoses
- Rear-end lower proportion of pmi compared to initial diagnoses