

Supplementary Table 1. Scenarios of person-level discharges for which the injury event may or may not be included in the analytical dataset depending on when readmissions are identified

Discharge order	Date of injury	Hospital	Admission date	Discharge date	Health Specialty	Length of stay:		SSED	Hospitalisation record retained for analysis:		
						Admission	Event		Option 1 Readmissions identified <u>prior</u> to excluding SSED	Option 2 Readmissions identified <u>after</u> excluding SSED	
1 ED overnight, internal transfer to non-medical/non-surgical specialty for 3 nights											
1	1/01/2015	A	1/01/2015	2/01/2015	Emergency Medicine	1	4	Yes	No	No	
2	1/01/2015	A	2/01/2015	5/01/2015	Acute Mental Health	3	4	No	No	Yes	
2 ED overnight, transferred to ward in another hospital for 3 nights											
1	1/01/2015	A	1/01/2015	2/01/2015	Emergency Medicine	1	4	Yes	No	No	
2	1/01/2015	B	2/01/2015	5/01/2015	Orthopaedic Surgery	3	4	No	No	Yes	
3 Routine ED discharge during the day, admitted to hospital for overnight stay 5 days later											
1	1/01/2015	A	1/01/2015	1/01/2015	Emergency Medicine	0	1	Yes	No	No	
2	1/01/2015	A	7/01/2015	8/01/2015	Orthopaedic Surgery	1	1	No	No	Yes	
4 Initial treatment then delayed complication											
1	1/01/2015	A	1/01/2015	2/01/2015	Emergency Medicine	1	4	Yes	No	No	
2	1/01/2015	B	2/01/2015	3/01/2015	Orthopaedic Surgery	1	4	No	No	Yes	
3	1/01/2015	A	6/01/2015	6/01/2015	Emergency Medicine	0	4	Yes	No	No	
4	1/01/2015	A	8/01/2015	10/01/2015	Orthopaedic Surgery	2	4	No	No	No	

Supplementary Table 2. Frequencies and age-standardised rates (ASR) by year using four methods of identifying injury incidence from NZ hospital discharge data (2000-2014)

Year	Hospitalised injury incidence						Serious hospitalised injury incidence					
	Including SSED			Excluding SSED (Option 2)			Including SSED			Excluding SSED (Option 2)		
	Freq.	ASR per 100,000 person-years	95% CI for ASR	Freq.	ASR per 100,000 person-years	95% CI for ASR	Freq.	ASR per 100,000 person-years	95% CI for ASR	Freq.	ASR per 100,000 person-years	95% CI for ASR
2000	56,723	1476	(1464, 1488)	48,311	1258	(1247, 1269)	5,283	141	(137, 145)	4,866	130	(127, 134)
2001	62,097	1606	(1593, 1618)	49,629	1284	(1273, 1295)	5,515	146	(142, 149)	5,017	133	(129, 136)
2002	63,538	1614	(1601, 1626)	49,957	1270	(1259, 1281)	5,435	140	(137, 144)	4,898	127	(123, 130)
2003	62,726	1562	(1550, 1575)	50,033	1248	(1237, 1259)	5,639	143	(139, 146)	5,050	128	(125, 132)
2004	62,626	1538	(1527, 1550)	49,752	1224	(1213, 1235)	5,428	135	(131, 139)	4,828	120	(117, 124)
2005	66,597	1616	(1604, 1628)	51,082	1241	(1231, 1252)	6,021	147	(144, 151)	5,340	131	(127, 134)
2006	70,259	1682	(1669, 1694)	52,521	1259	(1248, 1270)	6,522	157	(153, 161)	5,736	138	(134, 142)
2007	71,181	1686	(1674, 1698)	52,997	1256	(1246, 1267)	6,842	162	(158, 166)	5,981	142	(138, 145)
2008	76,627	1798	(1785, 1810)	53,696	1260	(1249, 1270)	7,179	168	(164, 172)	6,120	143	(140, 147)
2009	83,104	1929	(1916, 1942)	53,792	1247	(1237, 1258)	7,582	175	(171, 179)	6,275	145	(141, 148)
2010	85,271	1952	(1939, 1965)	55,073	1259	(1248, 1269)	7,627	173	(169, 177)	6,325	143	(139, 146)
2011	84,953	1925	(1912, 1938)	54,443	1231	(1221, 1241)	7,750	173	(169, 177)	6,393	142	(139, 146)
2012	86,922	1955	(1942, 1968)	54,676	1226	(1215, 1236)	7,893	174	(171, 178)	6,442	142	(138, 145)
2013	88,767	1977	(1964, 1990)	55,385	1228	(1218, 1238)	8,173	178	(174, 182)	6,693	145	(141, 148)
2014	91,044	1991	(1978, 2004)	57,153	1244	(1234, 1254)	8,378	178	(174, 182)	6,888	146	(142, 149)