

Appendix 2: Activity-Specific Fractures by Location

Fractures	All Sports					In Line Skating					Ice Skating				
	n	N	%	U 95% CL	L 95% CL	n	N	%	U 95% CL	L 95% CL	n	N	%	U 95% CL	L 95% CL
Head	262	11,458	0.3	14,974	8,735	4	48	0.1	134	14	6	227	0.5	720	72
Face	5,409	320,133	7.7	343,164	298,657	11	943	1.3	1,733	507	20	835	1.7	1,364	509
Cervical Spine	235	11,995	0.3	14,974	9,567	0	0	0.0	0	0	1	9	0.0	62	0
Upper Trunk	1,136	76,083	1.8	83,607	69,465	9	661	0.9	1,345	324	13	663	1.4	1,306	336
Lower Trunk	989	51,066	1.2	59,066	44,091	12	550	0.8	1,183	254	21	1,066	2.2	1,810	624
Shoulder	5,486	303,402	7.3	325,694	282,435	27	1,449	2.1	2,451	852	35	1,709	3.6	2,842	1,018
Humerus	1,465	72,319	1.7	84,855	61,562	23	1,399	2.0	2,106	930	36	1,686	3.5	2,468	1,143
Elbow	3,008	153,087	3.7	170,126	137,682	96	4,961	7.0	6,212	3,944	83	3,384	7.0	4,456	2,554
Forearm	10,597	512,802	12.3	634,334	411,797	473	24,686	35.1	30,482	19,453	162	7,659	16.0	10,933	5,229
Wrist	10,016	550,617	13.2	629,758	480,014	400	22,493	31.9	28,588	17,164	310	14,905	31.0	18,643	11,619
Hand	4,814	263,198	6.3	281,603	245,830	29	1,778	2.5	2,655	1,183	15	790	1.6	1,512	408
Finger	14,994	774,106	18.6	858,534	696,311	50	3,192	4.5	4,423	2,289	37	1,137	2.4	2,002	639
Pubic	12	441	0.0	832	416	0	0	0.0	0	0	0	0	0.0	0	0
Hip/Femur	715	28,392	0.7	34,940	23,294	4	192	0.3	845	42	5	180	0.4	768	43
Knee	910	43,926	1.1	50,331	38,684	6	465	0.7	1,035	204	11	619	1.3	1,397	269
Tib/Fib	5,521	277,634	6.7	326,110	235,847	84	3,802	5.4	4,916	2,930	164	6,996	14.6	8,628	5,632
Ankle	7,398	391,177	9.4	440,498	346,908	73	3,571	5.1	4,353	2,923	131	5,386	11.2	6,458	4,475
Foot	3,871	218,228	5.2	242,919	195,916	4	218	0.3	725	63	12	753	1.6	1,383	408
Toe	1,797	99,502	2.4	113,556	87,351	1	21	0.0	162	0	1	11	0.0	82	0

Fractures	Skateboard					Toboggan/sledding					Gymnastics				
	n	N	%	U 95% CL	L 95% CL	n	N	%	U 95% CL	L 95% CL	n	N	%	U 95% CL	L 95% CL
Head	76	3,463	0.9	5,219	2,279	17	713	1.0	1,343	380	7	187	0.1	631	53
Face	110	7,007	1.9	9,078	5,403	49	2,954	4.0	4,021	2,160	159	10,300	5.9	12,325	8,591
Cervical Spine	2	112	0.0	588	37	8	490	0.7	1,131	212	11	658	0.4	1,525	281
Upper Trunk	37	2,379	0.6	3,786	1,507	46	3,289	4.5	5,766	1,846	35	2,434	1.4	3,612	1,630
Lower Trunk	48	2,929	0.8	3,969	2,168	80	5,639	7.7	7,590	4,153	93	5,980	3.4	8,030	4,436
Shoulder	378	26,118	7.1	31,644	21,464	147	8,849	12.1	11,480	6,751	104	5,538	3.2	6,504	4,716
Humerus	127	6,900	1.9	9,409	5,035	31	1,665	2.3	2,671	1,029	147	6,238	3.6	7,749	5,014
Elbow	466	29,142	7.9	32,012	26,499	24	1,169	1.6	2,204	620	327	14,178	8.1	16,901	11,869
Forearm	1,394	76,153	20.7	96,587	59,099	131	8,503	11.7	11,232	6,371	654	25,222	14.4	31,628	19,934
Wrist	1,244	79,434	21.6	99,858	62,223	146	8,345	11.4	10,984	6,277	377	22,549	12.9	27,788	18,181
Hand	295	19,747	5.4	22,346	17,458	42	2,681	3.7	4,124	1,730	140	6,897	3.9	9,309	5,084
Finger	261	16,473	4.5	19,847	13,635	81	5,937	8.1	8,065	4,335	354	16,891	9.6	20,565	13,815
Pubic	2	45	0.0	331	0	0	0	0.0	0	0	0	0	0.0	0	0
Hip/Femur	44	2,301	0.6	3,455	1,544	50	2,138	2.9	3,036	1,496	20	735	0.4	1,420	386
Knee	44	3,264	0.9	4,925	2,168	10	526	0.7	1,124	248	34	1,934	1.1	3,033	1,227
Tib/Fib	435	26,506	7.2	34,180	20,435	178	8,893	12.2	10,940	7,189	173	7,060	4.0	9,047	5,505
Ankle	569	35,496	9.7	41,604	30,174	151	7,952	10.9	11,312	5,503	368	19,117	10.9	23,037	15,796
Foot	381	26,136	7.1	33,886	20,030	51	2,897	4.0	3,861	2,168	387	21,054	12.0	24,124	18,338
Toe	63	3,925	1.1	5,733	2,683	4	342	0.5	1,409	80	167	8,349	4.8	10,116	6,873

Fractures	Basketball					Baseball					Softball				
	n	N	%	U 95% CL	L 95% CL	n	N	%	U 95% CL	L 95% CL	n	N	%	U 95% CL	L 95% CL
Head	28	986	0.1	1,838	560	40	1,906	0.7	2,853	1,286	6	331	0.2	999	115
Face	1,208	67,960	8.5	77,373	59,628	1,379	78,634	28.1	84,962	72,601	658	43,149	26.3	47,022	39,485
Cervical Spine	5	236	0.0	799	80	3	70	0.0	308	28	3	122	0.1	573	33
Upper Trunk	95	5,846	0.7	7,593	4,476	43	3,420	1.2	5,425	2,153	45	3,287	2.0	4,735	2,277
Lower Trunk	91	3,091	0.4	4,316	2,238	47	2,162	0.8	2,797	1,678	9	612	0.4	1,671	229
Shoulder	310	15,927	2.0	19,103	13,268	139	8,802	3.1	10,515	7,355	70	3,880	2.4	5,226	2,867
Humerus	119	5,051	0.6	6,714	3,837	76	4,057	1.5	6,544	2,517	16	723	0.4	1,311	393
Elbow	443	20,887	2.6	25,098	17,345	167	8,631	3.1	11,578	6,404	55	3,344	2.0	4,538	2,458
Forearm	1,432	64,270	8.0	79,371	51,875	408	20,136	7.2	24,638	16,388	149	8,468	5.2	11,403	6,259
Wrist	1,510	75,388	9.4	84,567	67,142	377	22,964	8.2	27,631	19,045	170	11,242	6.9	13,664	9,224
Hand	1,210	59,420	7.4	65,623	53,793	352	21,108	7.5	24,387	18,234	182	10,665	6.5	12,943	8,765
Finger	4,955	237,939	29.8	259,135	217,811	1,086	62,577	22.4	68,014	57,443	696	42,249	25.8	46,219	38,519
Pubic	0	0	0.0	0	0	1	21	0.0	140	0	0	0	0.0	0	0
Hip/Femur	53	2,216	0.3	2,957	1,679	24	982	0.4	1,790	531	5	307	0.2	786	115
Knee	248	10,545	1.3	12,789	8,712	32	1,565	0.6	2,489	979	24	1,503	0.9	2,589	868
Tib/Fib	963	43,754	5.5	54,353	35,170	255	13,185	4.7	17,339	9,984	191	10,692	6.5	13,582	8,389
Ankle	2,121	108,705	13.6	122,694	96,077	373	22,038	7.9	25,813	18,765	293	17,538	10.7	20,742	14,778
Foot	1,191	63,848	8.0	72,177	56,431	104	5,653	2.0	7,383	4,335	67	4,113	2.5	5,669	2,965
Toe	260	13,238	1.7	15,826	11,030	31	1,752	0.6	2,825	1,091	24	1,614	1.0	3,162	819

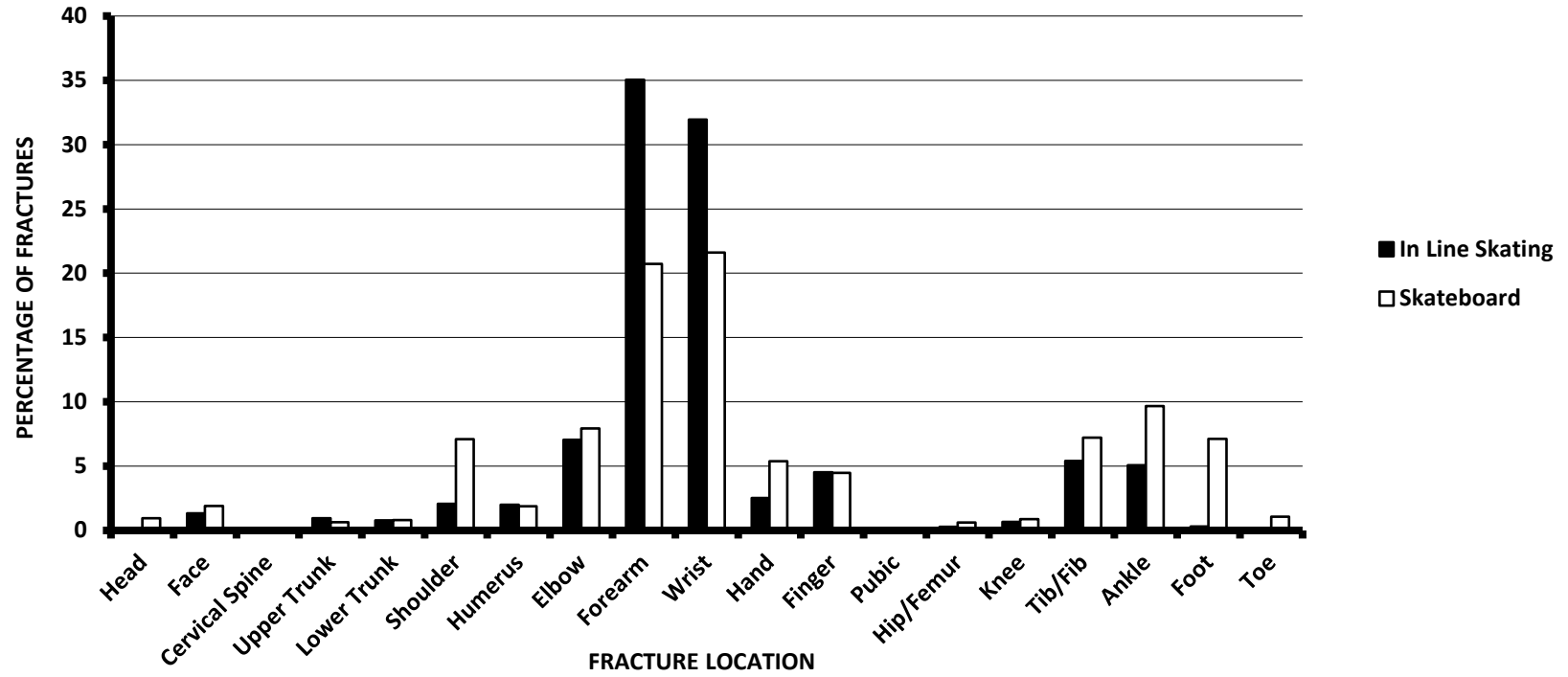
Fractures	Hockey					Football					Soccer				
	n	N	%	U 95% CL	L 95% CL	n	N	%	U 95% CL	L 95% CL	n	N	%	U 95% CL	L 95% CL
Head	0	0	0.0	0	0	18	625	0.1	1,309	281	9	417	0.1	1,101	176
Face	119	7,225	7.5	8,979	5,786	592	32,940	3.5	38,062	28,523	510	28,811	6.5	32,768	25,280
Cervical Spine	5	276	0.3	726	106	50	1,515	0.2	2,525	935	7	590	0.1	1,321	264
Upper Trunk	52	3,139	3.2	4,257	2,313	256	16,305	1.7	18,797	14,121	98	5,258	1.2	7,091	3,920
Lower Trunk	14	970	1.0	1,916	484	166	6,323	0.7	8,510	4,676	113	4,820	1.1	6,122	3,788
Shoulder	286	13,442	13.9	15,888	11,321	2,299	113,737	12.2	123,256	104,926	680	35,655	8.1	39,550	32,107
Humerus	40	1,556	1.6	2,680	900	446	20,307	2.2	24,127	17,114	100	4,919	1.1	6,474	3,744
Elbow	39	2,253	2.3	3,241	1,558	555	27,570	2.9	31,141	24,408	279	11,909	2.7	14,094	10,042
Forearm	273	12,421	12.8	19,043	7,867	2,671	112,423	12.0	136,722	91,928	1,363	62,914	14.3	83,857	46,509
Wrist	291	12,277	12.7	17,369	8,515	1,930	97,226	10.4	113,436	83,043	1,489	74,671	17.0	88,746	62,408
Hand	154	8,912	9.2	11,360	6,947	1,280	64,138	6.9	69,016	59,571	269	13,966	3.2	17,221	11,319
Finger	239	14,186	14.7	18,317	10,857	5,095	254,563	27.2	278,588	231,829	973	47,752	10.8	53,512	42,545
Pubic	1	8	0.0	58	0	1	21	0.0	187	0	4	63	0.0	176	44
Hip/Femur	16	445	0.5	919	213	277	9,284	1.0	12,064	7,107	59	1,795	0.4	3,039	1,057
Knee	15	938	1.0	2,264	387	233	9,185	1.0	11,035	7,668	112	5,108	1.2	6,562	3,964
Tib/Fib	128	7,275	7.5	10,121	5,177	1,329	58,431	6.2	69,483	49,097	860	42,279	9.6	47,786	37,348
Ankle	158	8,492	8.8	11,118	6,435	1,358	64,099	6.9	73,972	55,456	1,025	51,332	11.7	58,533	44,879
Foot	35	2,071	2.1	3,600	1,180	616	30,813	3.3	34,601	27,401	435	24,811	5.6	28,143	21,845
Toe	14	875	0.9	1,848	416	318	15,668	1.7	18,797	13,092	426	23,354	5.3	27,394	19,863

Fractures	Racquet Sports					Volleyball					Track/Field				
	n	N	%	U 95% CL	L 95% CL	n	N	%	U 95% CL	L 95% CL	n	N	%	U 95% CL	L 95% CL
Head	7	227	0.6	767	67	2	245	0.3	860	68	2	147	0.5	785	27
Face	24	1,573	4.5	2,315	1,060	32	2,260	3.0	3,600	1,411	20	1,471	5.0	2,455	868
Cervical Spine	1	21	0.1	159	4	2	216	0.3	792	60	0	0	0.0	0	0
Upper Trunk	17	1,092	3.1	1,810	654	11	876	1.2	1,743	438	3	68	0.2	198	24
Lower Trunk	18	1,098	3.1	2,022	587	9	750	1.0	1,524	370	72	2,380	8.1	3,305	1,697
Shoulder	20	1,008	2.9	1,810	555	20	1,063	1.4	1,826	619	45	2,249	7.6	3,049	1,647
Humerus	14	1,108	3.1	2,923	406	4	165	0.2	785	38	7	552	1.9	1,561	192
Elbow	35	2,001	5.7	2,633	1,513	35	1,668	2.2	2,543	1,087	39	2,142	7.3	3,417	1,319
Forearm	84	4,344	12.3	6,669	2,750	106	6,666	8.8	9,547	4,596	97	4,482	15.2	5,970	3,311
Wrist	137	7,265	20.6	8,730	5,991	132	8,171	10.8	10,716	6,173	64	3,380	11.5	4,545	2,485
Hand	27	1,771	5.0	2,760	1,124	63	3,902	5.2	5,215	2,905	19	986	3.3	1,679	573
Finger	51	2,707	7.7	3,782	1,919	400	23,389	31.0	26,912	20,135	20	769	2.6	1,293	454
Pubic	0	0	0.0	0	0	0	0	0.0	0	0	0	0	0.0	0	0
Hip/Femur	1	24	0.1	170	4	5	151	0.2	664	30	13	568	1.9	1,095	292
Knee	9	561	1.6	1,021	307	16	915	1.2	1,758	475	17	482	1.6	1,045	221
Tib/Fib	30	1,753	5.0	2,916	1,039	61	4,539	6.0	6,845	2,981	63	2,896	9.8	4,309	1,912
Ankle	81	5,261	14.9	7,305	3,715	178	10,952	14.5	13,146	9,071	52	3,098	10.5	4,861	1,924
Foot	52	2,739	7.7	3,548	2,103	106	6,704	8.9	9,411	4,717	62	3,146	10.7	4,238	2,311
Toe	12	791	2.2	1,753	353	41	2,834	3.8	4,407	1,811	12	698	2.4	1,482	325

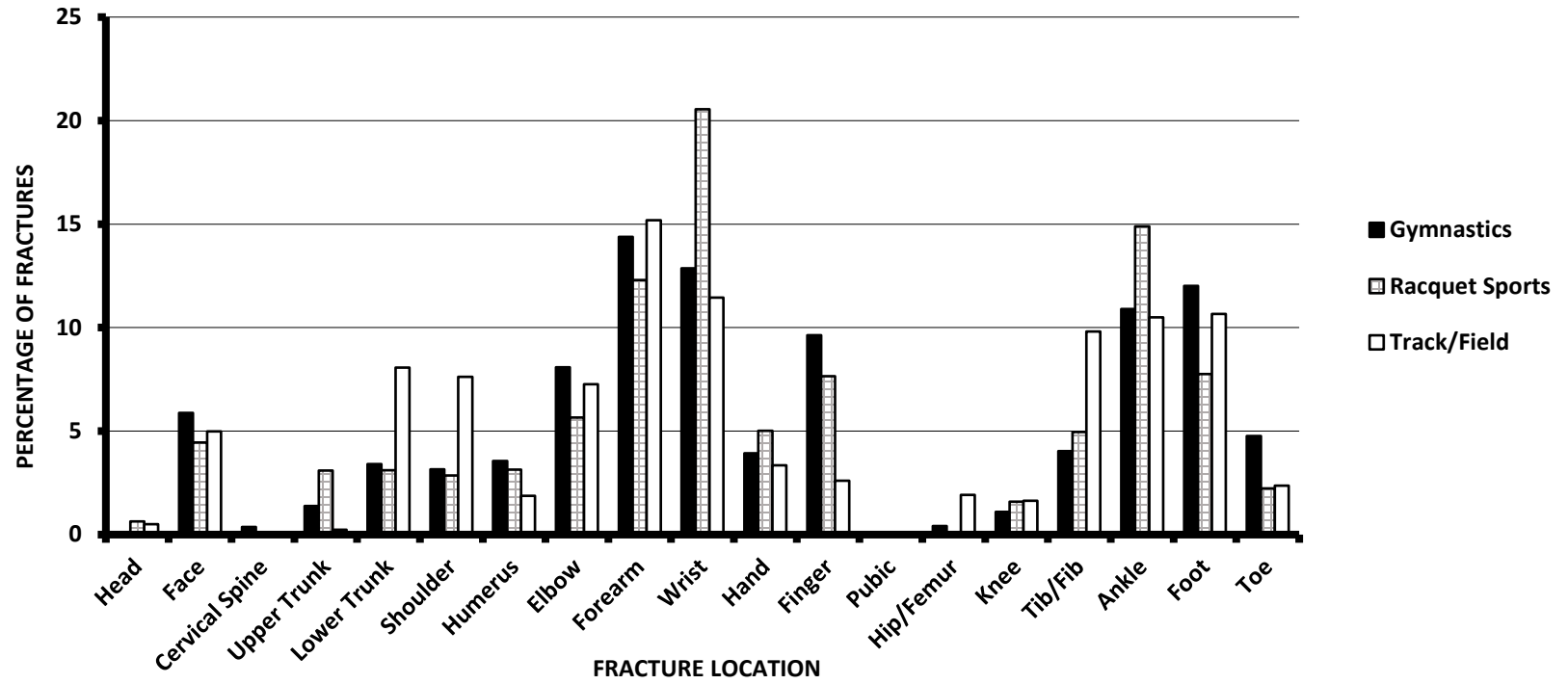
Fractures	Combative					Swimming					Waterski/Surfboarding				
	n	N	%	U 95% CL	L 95% CL	n	N	%	U 95% CL	L 95% CL	n	N	%	U 95% CI	L 95% CI
Head	5	86	0.1	224	34	21	885	0.9	1,919	404	7	613	1.7	1,150	326
Face	274	17,043	9.9	19,600	14,786	136	8,441	9.0	10,280	6,903	62	5,775	16.1	7,700	4,258
Cervical Spine	4	50	0.0	172	17	101	5,457	5.8	7,091	4,176	15	1,137	3.2	2,242	566
Upper Trunk	108	8,423	4.9	10,384	6,826	92	5,853	6.2	7,703	4,420	39	3,279	9.2	4,777	2,217
Lower Trunk	16	935	0.5	2,269	378	48	2,773	2.9	4,326	1,768	14	942	2.6	2,303	376
Shoulder	240	14,361	8.4	16,625	12,379	50	3,226	3.4	4,637	2,238	25	2,668	7.4	4,763	1,450
Humerus	74	2,922	1.7	4,315	1,977	40	2,513	2.7	3,753	1,674	9	634	1.8	1,168	344
Elbow	160	7,669	4.5	9,318	6,293	66	3,536	3.8	4,994	2,492	11	896	2.5	1,995	394
Forearm	265	13,859	8.1	18,138	10,522	112	5,125	5.4	7,016	3,724	37	2,508	7.0	3,323	1,880
Wrist	242	14,198	8.3	16,797	11,966	80	4,938	5.3	6,442	3,771	22	2,061	5.8	3,768	1,099
Hand	571	35,878	20.9	40,884	31,342	60	3,024	3.2	4,251	2,144	15	1,353	3.8	2,274	795
Finger	391	24,280	14.1	28,540	20,562	115	7,617	8.1	9,565	6,038	32	2,525	7.1	3,753	1,676
Pubic	0	0	0.0	0	0	0	0	0.0	0	0	1	127	0.4	455	36
Hip/Femur	12	510	0.3	1,221	206	29	1,517	1.6	2,426	950	16	870	2.4	1,891	394
Knee	16	904	0.5	1,685	481	18	1,053	1.1	1,947	564	5	281	0.8	1,074	72
Tib/Fib	121	6,338	3.7	8,356	4,797	106	5,657	6.0	7,571	4,204	42	3,754	10.5	5,565	2,485
Ankle	150	7,287	4.2	11,003	4,780	114	7,011	7.5	8,850	5,530	34	2,514	7.0	4,255	1,454
Foot	123	6,752	3.9	8,596	5,295	195	12,318	13.1	14,634	10,317	20	1,995	5.6	3,535	1,103
Toe	184	10,432	6.1	12,396	8,768	213	13,106	13.9	15,556	10,985	20	1,882	5.3	2,718	1,293

Fractures	Snow Skiing				
	n	N	%	U 95% CL	L 95% CL
Head	7	352	0.1	724	161
Face	46	2,813	1.0	4,154	1,903
Cervical Spine	17	1,036	0.4	1,769	616
Upper Trunk	137	9,813	3.7	13,052	7,344
Lower Trunk	118	8,047	3.0	10,452	6,191
Shoulder	611	43,724	16.3	48,644	39,210
Humerus	156	9,925	3.7	12,195	8,067
Elbow	128	7,745	2.9	9,809	6,111
Forearm	786	52,964	19.8	66,681	41,488
Wrist	1,095	69,109	25.8	84,477	55,693
Hand	91	6,183	2.3	7,826	4,878
Finger	158	9,925	3.7	12,463	7,880
Pubic	2	156	0.1	536	54
Hip/Femur	82	4,176	1.6	5,360	3,243
Knee	60	4,077	1.5	6,673	2,493
Tib/Fib	338	23,822	8.9	36,047	15,464
Ankle	169	11,327	4.2	15,143	8,442
Foot	30	2,206	0.8	3,591	1,340
Toe	6	610	0.2	1,983	188

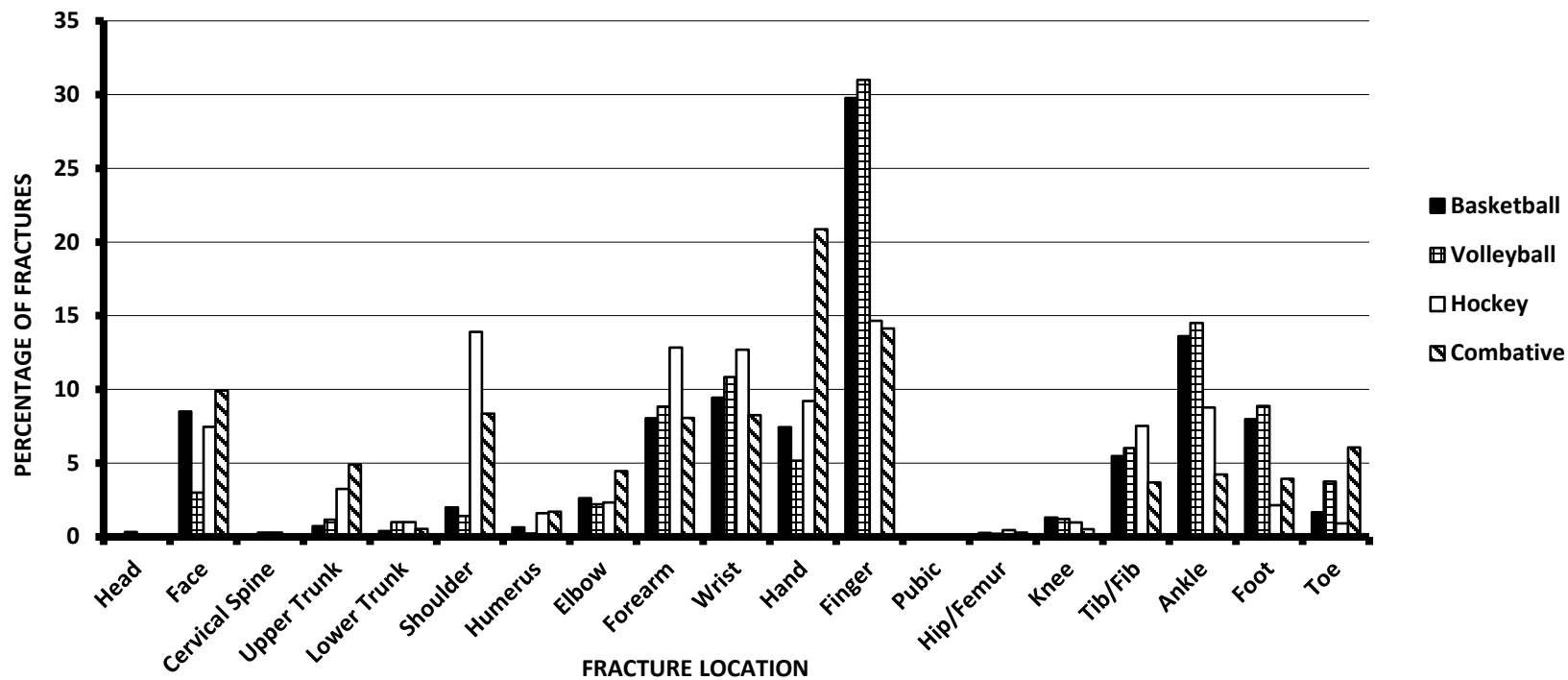
Skating Fractures



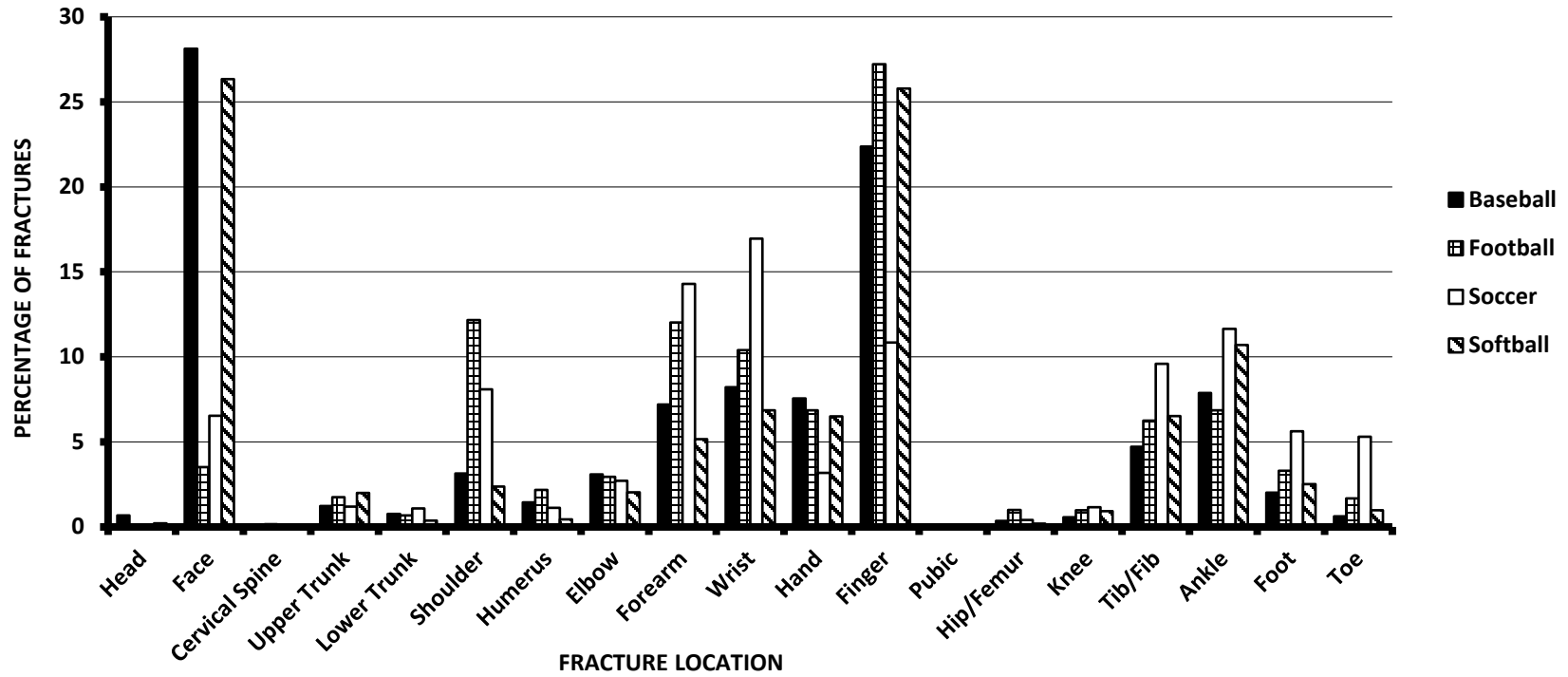
Non-team sport fractures



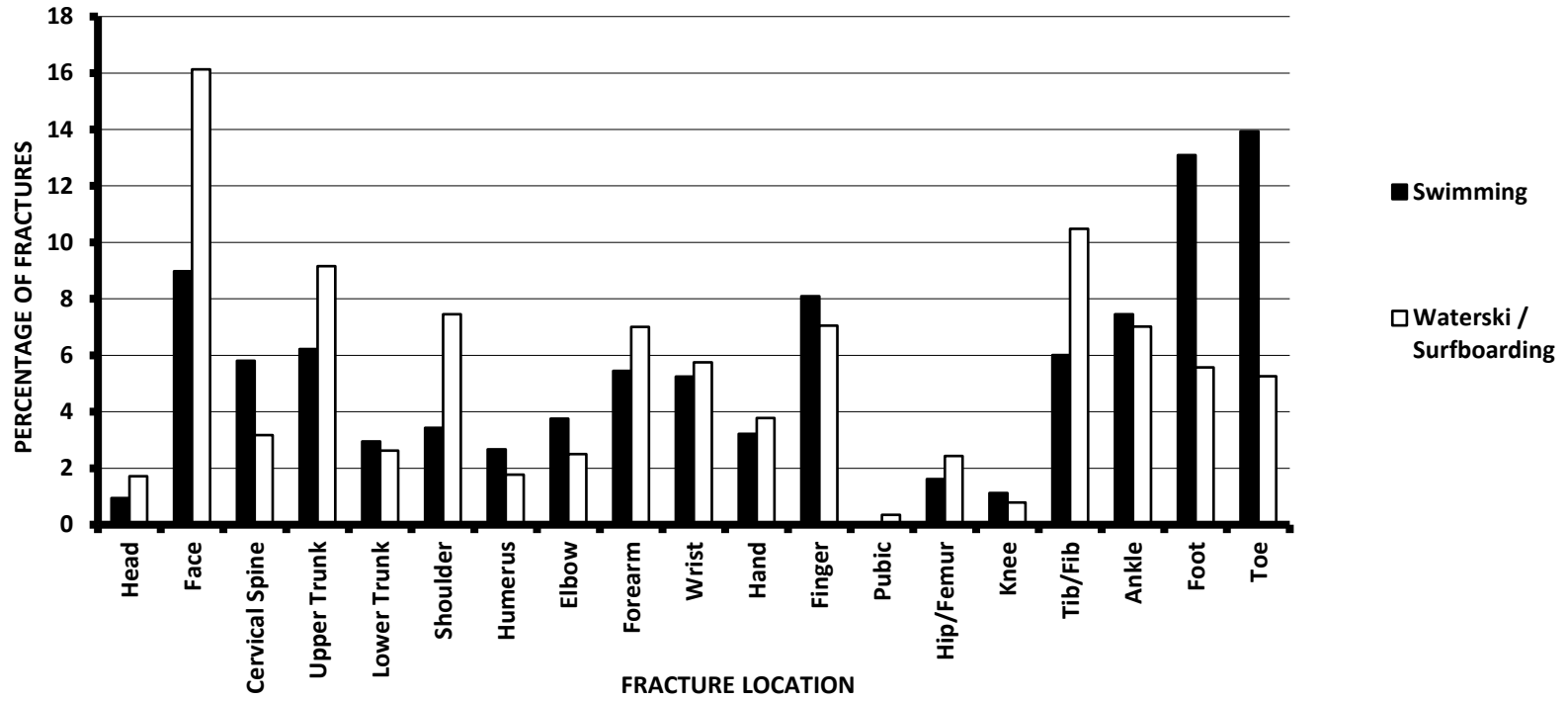
Indoor contact sport fractures



Outdoor contact sport fractures



Water sport fractures



Snow sport fractures

