

Epidemiology of Paediatric Trauma in Hong Kong: a multicentre cohort study

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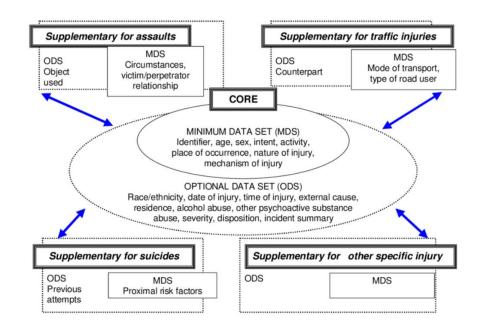




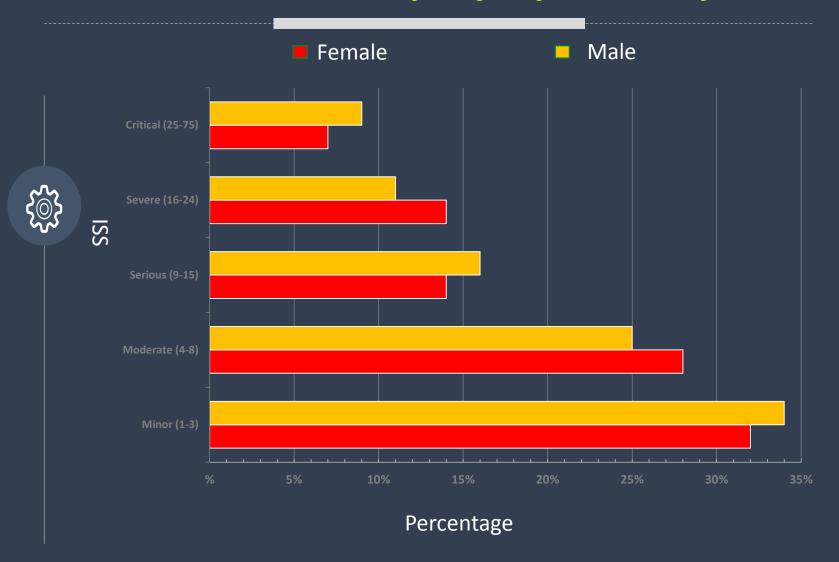
Injury Surveillance Model (WHO)

Objective

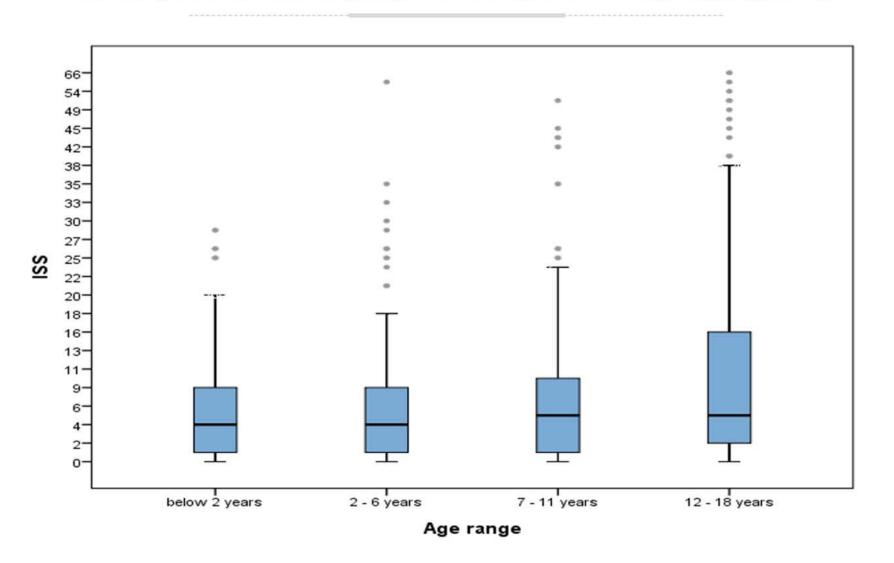
- To identify the epidemiological features of paediatric trauma in Hong Kong
- 2. To explore the characteristics in the low-income group
- To find the prevention focus and further research initiatives



Distribution by injury severity



Box plot of the injury severity scale by age group



Injury severity score (ISS) by epidemiological features among PA and non PA group Ν ISS Mean consumption of hospital bed day PA Gender Non PA PA Non PA t value (p value) PA chi-square test (p value), df Non PA t value (p value) 74 7.76 9.73 17.53 Female 495 0.259 (0.611), df=1 10.34 1.301 (0.197) 0.073 (0.178) Male 966 156 8.00 7.71 0.379 (0.705) 9.32 7.05 1.143 (0.253) Intent Unintentional 1316 198 5.868 (0.319), df=5 7.74 8.22 0.722 (0.470) 9.48 10.10 0.655 (0.791) Self-harm 39 10 15.56 14.60 15.56 0.146 (0.884) 28.49 0.582 (0.564) Assault 72 17 6.97 8.24 0.631 (0.530) 5.12 11.19 1.726 (0.103) Other 3 1 8.33 1.00 4.33 38.00 7.003 (0.020) Unknown 31 4 8.03 1.75 3.197 (0.003) 5.13 4.50 0.104 (0.917) Activities Work related 19 2 2.50 7.00 13.629 (0.058), df=7 8.74 0.653 (0.522) 20.08 0.382 (0.709) Educational activities 13 3 10.67 2.33 9.46 0.199 (0.845) 3.88 0.507 (0.624) Sports 117 14 5.99 7.71 0.920 (0.360) 4.09 3.62 0.380 (0.705) Leisure activities 286 26 5.65 4.77 11.32 10.65 0.632 (0.528) 0.061 (0.952) Travelling 334 68 9.26 8.19 10.41 0.842 (0.400) 13.63 0.945 (0.348) Other 263 42 9.00 8.05 9.47 7.23 0.577 (0.564) 0.751(0.453) Unknown 429 75 7.28 9.13 1.625 (0.105) 11.06 10.70 0.087 (0.931) Place of Injury Home, including garden and out buildings 482 57 13.922 (0.237), df=11 6.62 6.81 0.164 (0.870) 9.20 13.08 1.182 (0.238) School, including kindergarten and schoolyard 9.68 8 38 9.50 0.047 (0.963) 4.68 2.71 0.821 (0.417) Street/highway 392 83 10.56 10.10 9.43 13.28 0.365 (0.715) 0.793 (0.430) Residential institution 25 3 9.16 7.00 5.67 0.274 (0.786) 5.07 0.156 (0.878) Sports and athletics area 13 6.13 109 6.15 0.013 (0.990) 4.94 4.73 0.087 (0.931) Other transport area 15 2 11.80 3.00 12.13 1.50 2.443 (0.041) 0.729 (0.477) Industrial/construction 20 1 10.15 1.00 0.680 (0.505) 11.71 0.00 Farm, excluding home 2 9.00 3.50 Commercia1 45 7 5.73 10.82 5.29 5.57 0.044 (0.965) 0.648 (0.521) Countryside, water, sea 2 7.45 13.00 4.80 2.00 11 0.457 (0.724) 0.751 (0.472) Other 0.260 (0.795) 69 12 7.90 5.50 0.987 (0.326) 7.35 6.45 Unknown 253 42 6.68 9.07 1.279 (0.207) 14.30 7.17 0.753 (0.452) Trauma Centers Admission PMH 55 24.915,(<0.001), df=4 7.36 7.44 5.29 7.96 251 0.079 (0.937) 1.863 (0.063) PWH 41 9.81 9.61 9.56 313 0.120 (0.904) 13.99 0.575 (0.566) **QEH** 340 57 10.29 8.98 0.897 (0.370) 8.81 7.53 0.551 (0.582) QMH 21 4.36 300 3.19 0.752 (0.452) 8.38 12.00 0.671 (0.503) TMH 257 56 7.18 9.64 11.22 16.22 1.764 (0.079) 0.826 (0.409)

Conclusion





Thank you













