Supplemental Table 2
Summary of all included studies

Reference, year	Country	Study design and duration	Population	Study findings[§]
Dickson. G, 1994[29]	UK	Descriptive epidemiology 1981-1991	Royal Airforce, Royal Navy and Army; 1448 all heat injuries cases[¶]	**Women** All heat injuries: 11.43[#] **Men** All heat injuries: 41.87[#]
Army Medical Surveillance Activity, 1998[30]	USA	Descriptive epidemiology; 1997 - 1998	US Army; 1433 all heat injuries cases (1997-1998)[¶] 1997 1998	**Women** All heat injuries: 12.8[ǂ] **Men** All heat injuries: 8.6[ǂ] **Women** All heat injuries: 15.8[ǂ] **Men** All heat injuries: 12.0[ǂ]
Army Medical Surveillance Activity, 2000[33]	USA	Descriptive epidemiology; 1997 - 1999	US Army and Marine Corps; 3386 all heat injuries cases[¶] Army (1896 cases) Marine Corps (1104 cases)	**Women** All heat injuries: 2.0† **Men** All heat injuries: 1.5† **Women** All heat injuries: 4.4† **Men** All heat injuries: 2.0†
Army Medical Surveillance Activity, 2002[31]	USA	Descriptive epidemiology 1990 - 1997	US Army; 2290 all heat injuries cases[¶]	**Women** All heat injuries: 14.0% **Men** All heat injuries: 86.0%
		Case – control 1998 - 2001	US Army; 5021 cases and 10,042 controls (all heat injuries)[¶]	**Women** All heat injuries: 20.7% **Men** All heat injuries: 79.3%

				Risk factors Female: OR; 1.5 (1.4 - 1.7)
Army Medical Surveillance Activity, 2003[32]	USA	Descriptive epidemiology; 2002	US Army; 1816 all heat injuries cases[a]	**Women** All heat injuries: 3.5† **Men** All heat injuries: 5.1†
Carter et al, 2005[34]	USA	Cross-sectional 1980 - 2002	US Army; 5246 all heat injuries cases[a] 4521 males and 725 females	**Women** All heat injuries: 13.7% **Men** All heat injuries: 86.3% **Risk factors** Female: IDR: 1.21 (1.09 – 1.40)
Army Medical Surveillance Activity, 2006[36]	USA	Descriptive epidemiology; 2005	US Armed Forces; 204 heat stroke cases 958 heat exhaustion cases	**Women** Heat stroke: 0.26† Heat exhaustion: 2.89† **Men** Heat stroke: 0.48† Heat exhaustion: 1.98†
Wallace et al, 2005[49]	USA	Case-control 1988 - 1996	US Army; 5246 cases of heat illness; 4521 males and 725 females	**Risk factors** ***Females*** Run time ≥ 6.9 minutes: OR; 5.30 (1.59 – 17.64) ***Males*** Run time ≥ 12.9 minutes: OR; 5.61 (3.73 – 8.45) BMI ≥ 26 kg/m^2: OR; 2.10 (1.59 – 2.78)
Armed Forces Health Surveillance Branch, 2007[37]	USA	Descriptive epidemiology; 2006	US Armed Forces; 259 heat stroke cases 1854 heat exhaustion cases	**Women** Heat stroke: 0.14† Heat exhaustion: 1.49† **Men** Heat stroke: 0.22† Heat exhaustion: 1.34†
Armed Forces Health Surveillance Branch, 2008[38]	USA	Descriptive epidemiology; 2007	US Armed Forces; 329 heat stroke cases 1853 heat exhaustion cases	**Women** Heat stroke: 0.14† Heat exhaustion: 1.62† **Men**

				Heat stroke: 0.26† Heat exhaustion: 1.34†
Armed Forces Health Surveillance Branch, 2009[39]	USA	Descriptive epidemiology; 2008	US Armed Forces; 299 heat stroke cases 1467 heat exhaustion cases	**Women** Heat stroke: 0.16† Heat exhaustion: 1.35† **Men** Heat stroke: 0.22† Heat exhaustion: 1.78†
Armed Forces Health Surveillance Branch, 2010[40]	USA	Descriptive epidemiology; 2009	US Armed Forces; 323 heat stroke cases 2038 other heat injuries cases*	**Women** Heat stroke: 0.15† Other heat injuries: 1.78† **Men** Heat stroke: 0.24† Other heat injuries: 1.35†
Armed Forces Health Surveillance Branch, 2011[41]	USA	Descriptive epidemiology; 2010	US Armed Forces; 311 heat stroke cases 2576 other heat injuries cases*	**Women** Heat stroke: 0.12† Other heat injuries: 2.32† **Men** Heat stroke: 0.23† Other heat injuries: 1.67†
Armed Forces Health Surveillance Branch, 2012[42]	USA	Descriptive epidemiology; 2011	US Armed Forces; 362 heat stroke cases 2652 other heat injuries cases*	**Women** Heat stroke: 0.10† Other heat injuries: 2.63† **Men** Heat stroke: 0.27† Other heat injuries: 1.68†
Druyan et al, 2012[12]	Israel	Retrospective cross-sectional 2008 – 2010	Israeli Defence Forces; 170 males and 9 females	**Heat tolerance parameters** ***Women*** Heat intolerance rate: 66.6% ***Men*** Heat intolerance rate: 25.79%
Armed Forces Health Surveillance Branch, 2013[43]	USA	Descriptive epidemiology; 2012	US Armed Forces; 365 heat stroke cases 2257 other heat injuries cases*	**Women** Heat stroke: 0.15† Other heat injuries: 2.35† **Men** Heat stroke: 0.27† Other heat injuries: 1.44†

Armed Forces Health Surveillance Branch, 2014[44]	USA	Descriptive epidemiology; 2013	US Armed Forces; 324 heat stroke cases 1701 other heat injuries cases*	**Women** Heat stroke: 0.15† Other heat injuries: 1.30† **Men** Heat stroke: 0.24† Other heat injuries: 1.19†
Bedno et al, 2014[35]	USA	Analytical cross-sectional	US Armed Forces; 80 exertional heat illness cases	**Women** Heat illness: 0.680% **Men** Heat illness: 0.71%
Lisman et al, 2014[27]	USA	Analytical cross-sectional	Military and university community members; 34 males and 12 females	**Heat tolerance parameters** ***Women*** Heat intolerance rate: 42% ***Men*** Heat intolerance rate: 27%
Armed Forces Health Surveillance Branch, 2015[45]	USA	Descriptive epidemiology; 2014	US Armed Forces; 314 heat stroke cases 1410 other heat injuries cases*	**Women** Heat stroke: 0.14† Other heat injuries: 1.31† **Men** Heat stroke: 0.27† Other heat injuries: 1.21†
Kazman et al, 2015[28]	USA	Analytical cross-sectional	Military and university community members; 55 males and 20 females	**Heat tolerance parameters** ***Women*** Heat intolerance rate: 45% ***Men*** Heat intolerance rate: 18%
Armed Forces Health Surveillance Branch, 2016[46]	USA	Descriptive epidemiology; 2015	US Armed Forces; 417 heat stroke cases 1625 other heat injuries cases*	**Women** Heat stroke: 0.16† Other heat injuries: 1.54† **Men** Heat stroke: 0.35† Other heat injuries: 1.48†
Armed Forces Health Surveillance Branch, 2017[47]	USA	Descriptive epidemiology; 2016	US Armed Forces; 401 heat stroke cases 2135 other heat injuries cases*	**Women** Heat stroke: 0.19† Other heat injuries: 1.90† **Men** Heat stroke: 0.33†

				Other heat injuries: 1.61†
Armed Forces Health Surveillance Branch, 2018[48]	USA	Descriptive epidemiology; 2017	US Armed Forces; 464 heat stroke cases 1699 heat exhaustion cases	**Women** Heat stroke: 0.25† Other heat injuries: 1.38† **Men** Heat stroke: 0.41† Other heat injuries: 1.41†

§ *Proportions and incidences reported are of the total cases reported in the articles*
# Incidence rate reported per 100,000 person-years.
ǂ Incidence rate per 100,000 person- months.
† Incidence rate reported per 1000 person-years.
* Other heat injuries include "heat exhaustion" and "unspecified effects of heat".
‖ heat injuries include heat stroke and other heat injuries.
UK = United Kingdom; USA = *United States of America*