Appendix A: Codebook of risk factors and indicators

Indicator	Description
Propensity	
Married	Individual was married at the time of attack
Children	Individual had children at the time of attack
Criminal convictions	Individual had previous criminal
	convicitons
Imprisoned	Individual was previously imprisoned
Unemployed	Individual was unemployed
Mental illness	Individual has a diagnosed mental disorder
Chronic stress	Individual had a source of chronic stress int their lives
Isolated	Individual demonstrated a pattern of self-
Isolated	isolation
University experience	Individual had some university experience
Military reject	Individual was rejected from the military
Military experience	Individual had previous military experience
Juvenile arrest	Individual was arrested as a juvenile
Combat	Individual had combat experience
Substance abuse	Individual had a history of substance abuse
Born outside US	Individual was born outside of the US
Exceptional	Individual demonstrated exceptional
	educational achievements
Situation	
Angry	Individual was angry in the build-up to the
	attack
Prejudice	Individual experienced prejudice/injustice in
	the build-up to the attack
Degraded	Individual experienced being degraded in
D'	the build-up to the attack
Disrespected	Individual experienced being disrespected
Halplace victim	in the build-up to the attack
Helpless victim	Individual experienced being a helpless victim in the build-up to the attack
Escalating anger	Individual's anger was escalating in the
Escarating anger	build-up to the attack
Problematic relationships	Individual had problematic interpersonal
Troolemane relationships	relationships
Not cared for	Individual experience being not cared for by
	someone important to them in the build-up
	to the attack
Tipping point	Individual experienced a tipping point in the
==	build-up to the attack
Ignored	Individual was ignored or treated poorly by
	someone important to them in the build-up
	to the attack
Recently unemployed	Individual was made unemplyed in the
	build-up to the attack

Work stressor	Individual experience a recent work stressor in the build-up to the attack
Financial problems	Individual experienced financial problems in the build-up to the attack
Life change	Individual experience a significant life change in the build-up to the attack
Assault	Individual experienced verbal/physical assault in the build-up to the attack
Family death	Individual experience a death in the family in the build-up to the attack
Promise broken	Individual had a promise broken by someone important to them in the build-up to the attack
Live alone	Individual live alone in the build-up to the attack
Drop out	Individual dropped out of school/university in the build-up to the attack
Stress	individual experience recent stress in the build-up to the attack
Preparatory	
History	Individual had a history with the event location
Travel	Individual travelled to prepare for an attack
Training	Individual has hand-son training for an attack
Obsessed	Individual was obsessed with an event/phenomenon in the build-up to the attack
Violence	individual committed and act of violence in the build-up to the attack, unrelated to their final event
Address change	Individual changed address in the build-up to the attack
Dry-runs	Individual carried out dry-runs in the build-up to the attack
Stockpile	Individual had access to a stockpile of weapons
Clear bank	Individual cleared out their bank account in the build-up to the attack
Legitimisation	Individual sough legitimisation from political/community leaders
Altered appearance	Individual altered their appearance in the build-up to the attack
Substance use	Individual used drugs/alcohol during their event
Leakage	
Verbal statements	Individual made verbal statements to friends/family
Wider audience	individual made verbal statements to a wider audience

Desire to hurt others	Individual expressed a desire to hurt others
Others aware grievances	Others were aware of the individual's grievances
Others aware ideology	Others were aware of the individual's
	ideology
Letters	Individual made letters/public statements about their intent
Warning	Individual gave an event-specific warning
Network	-
Face-to-face interactions	Individual has face-to-face extremists with co-ideologues
Wider group	Individual recently joined a wider group
Group propaganda	Individual engaged with group propaganda
Group claim	Individual claimed to be part of a wider group
Virtual interactions	Individual interacted virtually with coideologues
Recruit others	Individual tried to recruit others
Close associates	Individual had close associates involved in violence/extremism
Command-and-control links	Evidence of command-and control-links
Lone-actor stories	Individual engaged with stories/materials about other lone-actors
Others procured weapons	Others helped procure weaponry for the attack
Propaganda by lone-actors	Engaged with propaganda by lone-actors, i.e. manifestos
Spouse involved	Spouse/partner was involved in a movement