Hostage Survival Probability Model

Hypothesized Two-Dimensional Variable Array for Discriminant Function Analysis

All variables within the vertical equations will have quantification similar to that depicted in X1
Qualitative variables will be quantified using a presence or absence coding scheme

	Gang Member			
	Ex-Con		Subject Calls Friends	
Calming Force	Subject's IQ		Stalls For Time	Reframe Demands
Suicide History			Hostage Sympathy	Lessen Tension
Violence History	Hostage Bravado	Subject's Age	Stranger	Disorganized Speech	Incident Duration	Personalize Situation

$bX1^e$ + Suicidal

$bX1^d$ + Doom — Aggressive — Revenge — Restrained Hostages — Hostage Gender — Authority Figure — Subject's Maturity — Location Type — Demonstrate Empathy

$bX1^c$ + Fear — Severity — Terrorism — Verbal Threats — Hostage Ethnicity — Enemy — Alcohol — Separation of Hostages — Humanize Hostage

$bX1^b$ + Control — Voices — Criminal — Family

$bX1^a$ Flight — Delusion — Religious — Killed Hostages — Subject's Ethnicity — Co-Worker — Drugs

$=$

Not Killed

Hostage Killed

Survival Disposition	Mental Illness	Subject's Motivation	**Situational Violence**	Subject Demography	Participant Relation	Cognitive Impairment	Situational Specifics	Negotiation Effectiveness
bX_1	bX_2	bX_3	bX_4	bX_5	bX_6	bX_7	bX_8	bX_9

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