Introduction Research on Leadership Decapitation Empirical Strategy Data Main Results Conclusions

# Assessing the Effectiveness of Leadership Decapitation in Counterinsurgency

Patrick B. Johnston
Belfer Center for Science & International Affairs
Harvard Kennedy School

11th Annual TISS New Faces Conference October 1, 2010, Chapel Hill, NC



### **Preliminaries**

#### Preview of the Presentation

- Research Question and Results
  - Key question: Is leadership decapitation an effective COIN tactic?
  - (Preliminary) Answer: Yes, but with caveats

Preliminaries Defining Key Concepts

## Preliminaries Defining Key Concepts

### **Key Concepts and Definitions**

- Insurgency and COIN
- Leaders and decapitation

## Preliminaries Policy Significance

### **Policy Relevance**

- U.S. UAV attacks in Pakistan
- Capture/kill missions in Afghanistan
- HVT operations in Somalia
- Military assistance to Yemen

Preliminaries Defining Key Concepts

## Preliminaries Academic Significance

### **Academic Significance**

- Literature
- Data
- Identification

## Is Leadership Decapitation Effective?

#### No

 Havens et al 1970; Ford 1985; Pape 1996; 2003; Hosmer 2001; David 2002; Hoffman 2006; Jordan 2009

### Maybe/Sometimes

 Langdon et al 2004; Kurth Cronin 2006; Mannes 2008; Freeman n.d.

#### Yes

• Pryce 2009

## Limitations of Existing Studies

### Literature Gap

- No social science research on COIN/decapitation
  - Exclusive focus on interstate war and counterterrorism

## Limitations of Existing Studies

### Research Design

- Insufficient data/unsystematic analysis
- Silver bullets rather than average effects
- Selection bias
  - Negative cases
  - Endogeneity
- Counterfactuals

## Identifying Causal Effects of Leadership Decapitation

### **Appropriate Counterfactual**

- "What would've happened if the leader hadn't been removed?"
- "What would've happened if he had?"

## The Challenge: Non-random assignment of decapitation attempts (the "treatment")

- Leaders targeted systematically
- Targeting at key moments
- No "field experiments" (unless you count the drones)!



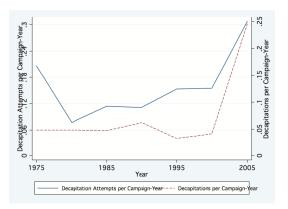
## **Empirical Strategy**

## **Exploit Randomness in Success and Failure of Decapitation Attempts**

- If success is exogenous, causal effects can be estimated (conditional on attempts)
- Failed attempts as controls for successes—exogenous?
  - Guns jam/shooters misfire
  - Bombs don't detonate/detonate at wrong time
  - Sweeps fail to detect leaders in hiding

### Rates of Successful and Failed Attempts

Figure: Attempted and Successful Decapitation Strikes, 1975-2005



## Attempt Type

#### Decapitation Attempts: Summary Statistics

Туре	Obs.	Percentage	Pr. Leader Removed
Shooting	34	29%	44%
Bombing	17	14%	29%
Raid/Sweep	25	21%	64%
Combat	41	34%	32%
Unknown	3	3%	0%
Total Attempts	119	n/a	40%

## Are Successful and Failed Attempts Similar? Pairwise t-tests

DV: Success of Attempt	Success	Failure	Difference	<i>p</i> -Value
Democracy	0.59	0.53	0.05	0.42
	(0.05)	(0.04)	(0.07)	
GDPPC	7.69	7.70	-0.01	0.95
	(0.13)	(0.15)	(0.2)	
Population	11.13	10.36	0.77	0.07
	(0.32)	(0.27)	(0.42)	
Elevation	5.87	6.09	-0.23	0.41
	(0.24)	(0.14)	(0.27)	
Distance	5.15	5.35	-0.19	0.71
	(0.38)	(0.34)	(0.51)	
Observations	45	58		

#### Are Successful and Failed Attempts Similar? Multivariate Regressions

DV: Success	(1)	(2)	(3)	(4)
Democracy	-0.101	0.002	-0.351	-0.186
	(0.260)	(0.254)	(0.294)	(0.328)
GDPPC	-0.026	0.079	0.082	0.114
	(0.086)	(0.089)	(0.107)	(0.114)
Population	0.132**	0.068	0.008	0.043
	(0.052)	(0.054)	(0.072)	(0.081)
Elevation	-0.014	-0.020	0.051	-0.034
	(0.041)	(0.043)	(0.061)	(0.065)
Distance	-0.055	-0.022	-0.104**	-0.029
	(0.037)	(0.035)	(0.046)	(0.051)
Type FE	No	Yes	No	Yes
Region FE	No	No	Yes	Yes
Observations	72	72	71	71

## Data on COIN Campaigns

- New dataset on 91 COIN campaign campaigns since 1974
- Unit of analysis is the attempt (N=119) or the campaign-year (N=932)
- Guerrilla campaigns drawn from Fearon and Laitin 2003; Lyall and Wilson 2009; UCDP/PRIO ACD; COW

### Data on Leadership Decapitation

### Independent Variable

- List of insurgent leaders
  - Compiled from START Terrorist Organization Profiles (TOPS) database
  - Clodfelter 2002
- Data on decapitation attempts
  - Lexis-Nexis keyword searches of English language news sources
    - Standard key words used for each case

### Data on Campaign Outcomes and Insurgent Violence

### **Dependent Variables**

- War Outcomes
  - Lyall & Wilson 2009
  - UCDP/PRIO
  - COW
- Conflict Intensity and Insurgent Attacks
  - START Global Terrorism Database (GTD)

### Data on Control Variables

#### **Controls**

- Military personnel (COW)
- Regime type/Level of democracy (Polity IV)
- GDP per capita (Fearon & Laitin 2003)
- Ethnic fractionalization (Fearon & Laitin 2003)
- Elevation (Lyall & Wilson 2009)
- Distance (Lyall & Wilson 2009)

## Leadership Decapitation and Campaign Termination

DV: Termination	(1)	(2)	(3)	(4)
Success	0.273***	0.290***	0.249***	0.260***
	(0.079)	(0.081)	(0.088)	(0.091)
Constant	-0.140**	-0.319**	-0.259**	-0.427**
	(0.068)	(0.126)	(0.112)	(0.179)
Type FE	No	Yes	No	Yes
Region FE	No	No	Yes	Yes
R-squared	0.154	0.202	0.211	0.265
Observations	103	103	103	103

### Leadership Decapitation and COIN Success

DV: Victory	(1)	(2)	(3)	(4)
Success	0.321***	0.338***	0.287***	0.310***
	(0.073)	(0.075)	(0.080)	(0.084)
Constant	-0.173**	-0.416***	-0.255**	-0.505***
	(0.075)	(0.129)	(0.110)	(0.171)
Type FE	No	Yes	No	Yes
Region FE	No	No	Yes	Yes
R-squared	0.210	0.318	0.261	0.384
Observations	103	103	103	103

## Decapitation and Conflict Intensity

DV: Intensity	(1)	(3)	(5)	(7)
Success	-0.774	-1.994***	-0.898**	-1.637***
	(0.494)	(0.426)	(0.432)	(0.420)
Constant	-1.677*	-1.640*	-1.328	-1.308
	(0.890)	(0.868)	(0.899)	(0.950)
Type FE	No	Yes	No	Yes
Region FE	No	Yes	No	Yes
Observations	102	102	90	90

## Decapitation and Insurgent Attacks

DV: Attacks	(1)	(2)	(3)	(4)
Success	0.212	-0.728**	-0.092	-1.685***
	(0.480)	(0.328)	(0.325)	(0.444)
Constant	-0.925*	-1.420*	-0.514	-1.392*
	(0.552)	(0.860)	(0.399)	(0.811)
Type FE	No	Yes	No	Yes
Region FE	No	Yes	No	Yes
Observations	102	102	90	90

## Separating the Effects of Success and Failure What Predicts Attempts?

DV: Attempt	(1)	(2)	(3)	(4)	(5)	(6)
Democracy	0.031					0.022
	(0.041)					(0.046)
GDPPC		0.049***				0.039**
		(0.017)				(0.019)
Population			-0.002			-0.008
			(0.007)			(0.010)
Elevation				-0.001		0.000
				(0.007)		(0.006)
Distance					-0.001	0.000
					(0.004)	(0.005)
Observations	833	790	747	926	926	741
Observations	833	790	747	926	926	741

Campaign Terminatio COIN Success Conflict Intensity Success vs. Failure

### Assessing the Impact of Success versus Failure

DV	Termination				Victory	
OLS	(1)	(2)	(3)	(4)	(5)	(6)
Success	0.282***	0.284***	0.284***	0.296***	0.289***	0.288***
	(0.072)	(0.073)	(0.074)	(0.069)	(0.070)	(0.070)
Failure	-0.010	-0.022	-0.030	-0.016	-0.022	-0.021
	(0.037)	(0.037)	(0.033)	(0.027)	(0.028)	(0.028)
Constant	0.039	0.155	0.028	0.020	0.012	-0.220
	(0.032)	(0.112)	(0.250)	(0.027)	(0.070)	(0.193)
Controls	No	Yes	Yes	No	Yes	Yes
Matching	No	No	Yes	No	No	Yes
Parm p-Success	0.000175	0.000186	0.000210	4.80e-05	7.97e-05	8.71e-05
Parm p-Failure	0.788	0.560	0.356	0.555	0.424	0.450
Observations	932	932	932	932	932	932

## Conclusions and Implications

### The Effectiveness of Leadership Decapitation

- No evidence that leadership decapitation is ineffective or counterproductive
- Oecapitation is a cause, not an effect, of COIN effectiveness

### **Implications**

### **COIN** and **CT** Policy

- Network-centric war
  - Are hearts and minds really that important?
- Investing in IW capabilities: SOF or Conventional?

# Assessing the Effectiveness of Leadership Decapitation in Counterinsurgency

Patrick B. Johnston
Belfer Center for Science & International Affairs
Harvard Kennedy School

11th Annual TISS New Faces Conference October 1, 2010, Chapel Hill, NC



## Limitations of the Empirical Strategy

- Limited ability to answer questions of leadership removals that didn't happen
- Results consequently have limited implication for the effectiveness of decapitation strategies
- Can tell us whether leaders matter