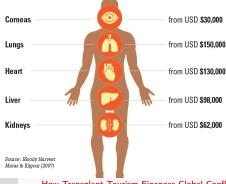
Introduction	Conceptional Framework	Data & Methods	Results	Conclusion
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Guns and Kidneys How Transplant Tourism Finances Global Conflict



Alison Schultz, University of Mannheim

Introduction •0	Conceptional Framework	Data & Methods	Results	Conclusion O
Introduct	ion			

• Non-state armed groups finance their activity via

Introduction ●○	Conceptional Framework	Data & Methods	Results	Conclusion O
Introducti	on			

- Non-state armed groups finance their activity via
 - Robbery/theft/smuggling/fraud/kidnapping Makarenko (2004)
 - Donations Limodio (2022)
 - Control of oil and gas resources FATF (2014)
 - Mining activities Berman et al. (2017)

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Do armed groups finance attacks by illegal organ trade?

Introduction O	Conceptional Framework	Data & Methods	Results	Conclusion O
This projec	t			

• I investigate the **impact of organ trafficking on local conflict** using georeferenced data on conflict events and hand-collected data on local transplant infrastructure.

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This projec	t			

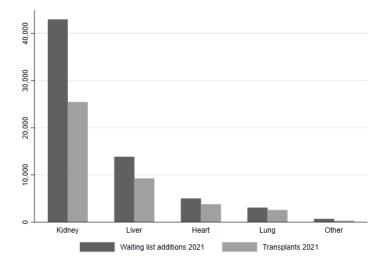
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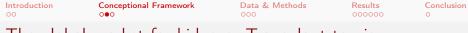
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 - A one-standard deviation increase in the U.S. waiting list for kidneys leads to an increase in the probability of conflict by 17% (compared to localities without transplant infrastructure)
- I show that armed groups with a transplant infrastructure at home increase their probability of performing an attack with an increase in kidney demand.
- Higher kidney demand is associated with an **increase in suspicious payments** from and to countries with a transplant infrastructure.

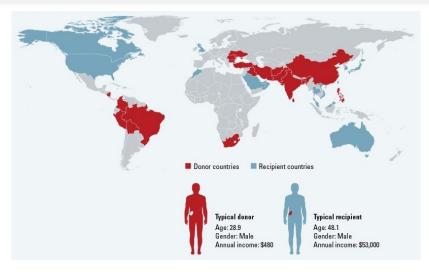
Alison Schultz

Introduction 00	Conceptional Fi •00	ramework	Data & Methods	Results	Conclusion O
The organ r	market: ((U.S.)	Waiting lists		





The global market for kidneys: Transplant tourism



Source: Der Spiegel

How to disappear from waiting list?

Alison Schultz

Introduction	Conceptional Framework	Data & Methods	Results	Conclusion
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Conceptional framework: Conflicts and organs

Suggested mechanism

- Armed groups are financially constrained. Berman et al. (2017)
- They use organ trafficking to finance attacks.
- The more organs they can sell and the higher the price of these organs, the higher the probability that they perform an attack.

Introduction	Conceptional Framework	Data & Methods	Results	Conclusion
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Conceptional framework: Conflicts and organs

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Problem

- War zones are a major target for organ recruitment and create organ demand.
- The more conflicts happen, the more organs can be acquired and the more organs are needed.

Introduction	Conceptional Framework	Data & Methods	Results	Conclusion
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Conceptional framework: Conflicts and organs

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Problem

- War zones are a major target for organ recruitment and create organ demand.
- The more conflicts happen, the more organs can be acquired and the more organs are needed.

Solution

- Use exogenous organ demand from the U.S. waiting list for kidney transplants.
- Compare impact on conflict **outside the U.S.** when armed groups can involve in organ trafficking with when they cannot.

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Introduction	Conceptional Framework	Data & Methods ●00	Results	Conclusion O
Specificat	ion			

 $\begin{aligned} \textit{Conflict}_{it} &= \beta_0 + \beta_1 \textit{Transplant infrastructure}_i \times \textit{Kidney demand}_t \\ &+ \textit{FE}_i + \textit{FE}_t + \epsilon_{it} \end{aligned}$

- at location i: 0.5°latitude \times 0.5°longitude cell (55km \times 55km)
- at time t: month

c.f. Berman et al. (2017)

Introduction	Conceptional Framework	Data & Methods	Results	Conclusion
00		○●○	000000	O
Data				

Dependent variable: Probability of Conflict

• Source: The Armed Conflict Location & Event Data Project (ACLED)

Introduction	Conceptional Framework	Data & Methods	Results	Conclusion
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Data				

Dependent variable: Probability of Conflict

• Source: The Armed Conflict Location & Event Data Project (ACLED)

Independent variable: U.S. waiting list patients for kidneys

• Source: United Network of Organ Sharing Standard Transplant Analysis and Research File (National UNOS STAR file)

Introduction	Conceptional Framework	Data & Methods	Results	Conclusion
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Data				

Dependent variable: Probability of Conflict

• Source: The Armed Conflict Location & Event Data Project (ACLED)

Independent variable: U.S. waiting list patients for kidneys

• Source: United Network of Organ Sharing Standard Transplant Analysis and Research File (National UNOS STAR file)

Treatment condition: Cells with a transplant center

• Source: Hand-collection of authorized transplant centers, according to official government lists and Google maps coordinates

Data properties

Introduction	Conceptional Framework	Data & Methods ○○●	Results 000000	Conclusion O
Sample				

15,876 cells in eight countries which have

- Transplant tourism activity, according to newspaper articles
- An official government list with transplant centers/hospitals
 - India
 - Pakistan
 - South Africa
 - Argentina
 - Russia
 - Hungary
 - Bulgaria
 - Armenia

135 months from January 2010 to March 2021

Introduction	Conceptional Framework	Data & Methods	Results	Conclusion
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	Dependent variable: Probability of conflict (in basis points)					
Transplant center						
imes waiting list (WL) patients	90.8*** (16.3)	73.6*** (15.8)				
imes WL patients with income			244.1***	189.8***		
			(37.3)	(35.3)		
imes WL patients on dialysis					0.9	5.5
					(14.0)	(13.7)
Observations	2,143K	2,142K	2,143K	2,142K	2,143K	2,142K
Cell fixed effects	Yes	Yes	Yes	Yes	Yes	Yes
Month fixed effects	Yes	No	Yes	No	Yes	No
Country $ imes$ month FEs	No	Yes	No	Yes	No	Yes
Base prob. transplant cells	538.4	538.4	538.4	538.4	538.4	538.4

* p < 0.10, ** p < 0.05, *** p < 0.01

Introduction	Conceptional Framework	Data & Methods	Results	Conclusion
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	Depen	dent variab	le: Probabili	ty of conflict	t (in basis	points)
Transplant center						
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Cell fixed effects	Yes	Yes	Yes	Yes	Yes	Yes
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Base prob. transplant cells	538.4	538.4	538.4	538.4	538.4	538.4

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In a cell with a transplant center, conflict probability increases

• from 5.4% to 6.3% with a 1 SD increase in WL patients.

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Base prob. transplant cells	538.4	538.4	538.4	538.4	538.4	538.4

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In a cell with a transplant center, conflict probability increases

- from 5.4% to 6.3% with a 1 SD increase in WL patients.
- from 5.4% to 7.8% with a 1 SD increase in WL patients with income.

Introduction	Conceptional Framework	Data & Methods	Results	Conclusion
00	000	000	00000	0

	Depen	dent variab	le: Probabili	ty of conflict	: (in basis	points)
Transplant center						
imes waiting list (WL) patients	90.8*** (16.3)	73.6*** (15.8)				
\times WL patients with income			244.1*** (37.3)	189.8*** (35.3)		
\times WL patients on dialysis			、 ,		0.9 (14.0)	5.5 (13.7)
Observations	2,143K	2,142K	2,143K	2,142K	2,143K	2,142K
Cell fixed effects	Yes	Yes	Yes	Yes	Yes	Yes
Month fixed effects	Yes	No	Yes	No	Yes	No
Country $ imes$ month FEs	No	Yes	No	Yes	No	Yes
Base prob. transplant cells	538.4	538.4	538.4	538.4	538.4	538.4

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In a cell with a transplant center, conflict probability increases

- from 5.4% to 6.3% with a 1 SD increase in WL patients.
- from 5.4% to 7.8% with a 1 SD increase in WL patients with income.
- not significantly with a 1 SD increase in WL patients on dialysis.

Similar results for number of attacks

Alison Schultz



• Assumption: Armed groups mainly benefit from transplant tourism in their home region.



• Assumption: Armed groups mainly benefit from transplant tourism in their home region.

 $\begin{aligned} \textit{Conflict}_{jt} &= \beta_0 + \beta_1 \textit{Transplant center at home}_j \times \textit{Kidney demand}_t \\ &+ \textit{FE}_j + \textit{FE}_t + \epsilon_{jt} \end{aligned}$

- of armed group j: 723 non-state armed groups
 - **Transplant center at home**: Transplant center in cell where group is based (hand-collected headquarter cell, founding cell or cell of ethnic origin)
- at time t: month

Introduction 00	Conceptional Framework	Data & Methods	Results 00●000	Conclusion O
Group's p	probability of conflic	Ct (Standardized co	oefficients)	

	Dependen	t variable:	Group's	probability	of conflict	(in basis points)
Transplant center at home region						
imes waiting list (WL) patients	28.4** (13.8)	27.4** (13.4)				
\times WL patients with income			59.3** (29.6)	64.2** (29.9)		
imes WL patients on dialysis					6.9 (13.6)	3.6 (12.7)
Observations	95,715	95,580	95,715	95,580	95,715	95,580
Group fixed effects	Yes	Yes	Yes	Yes	Yes	Yes
Month fixed effects	Yes	No	Yes	No	Yes	No
Country \times month FEs	No	Yes	No	Yes	No	Yes
Base prob. transplant groups	217.0	217.9	217.0	217.9	217.0	217.94

Introduction	Conceptional Framework	Data & Methods	Results 00●000	Conclusion O
Group's pr	obability of conflic	t (Standardized co	pefficients)	

	Depende	nt variable:	Group's	probability	of conflict	(in basis points)
Transplant center at home region	I					
imes waiting list (WL) patients	28.4** (13.8)	27.4** (13.4)				
imes WL patients with income	. ,	. ,	59.3**	64.2**		
			(29.6)	(29.9)	6.0	2.6
imes WL patients on dialysis					6.9 (13.6)	3.6 (12.7)
Observations	95,715	95,580	95,715	95,580	95,715	95,580
Group fixed effects	Yes	Yes	Yes	Yes	Yes	Yes
Month fixed effects	Yes	No	Yes	No	Yes	No
Country \times month FEs	No	Yes	No	Yes	No	Yes
Base prob. transplant groups	217.0	217.9	217.0	217.9	217.0	217.94

The probability of conflict of a group with a transplant center at its home region increases

- from 2.2% to 2.5% with a 1 SD increase in WL patients.
- from 2.2% to 2.8% with a 1 SD increase in WL patients with income.

Introduction	Conceptional Framework	Data & Methods	Results 000●00	Conclusion O
Group's p	obability of conflic	t outside hom	e region	

	Depende	nt var.:	Group's pro	bability o	f conflict	outside home region			
Transplant center at home region	Transplant center at home region								
imes waiting list (WL) patients	25.6** (12.7)	24.7** (12.3)							
imes WL patients with income			51.6*	55.9*					
			(29.0)	(29.3)					
imes WL patients on dialysis					6.5	3.5			
					(12.3)	(11.4)			
Observations	95,715	95,580	95,715	95,580	95,715	95,580			
Group fixed effects	Yes	Yes	Yes	Yes	Yes	Yes			
Month fixed effects	Yes	No	Yes	No	Yes	No			
Country \times month FEs	No	Yes	No	Yes	No	Yes			
Base prob. transplant groups	160.6	161.3	160.6	161.3	160.6	161.32			

Introduction 00	Conceptional Framework	Data & Methods	Results 000●00	Conclusion O
Group's p	robability of conflic	ct outside hom	e region	

	Depende	nt var.:	Group's pro	bability of	f conflict	outside home region	
Transplant center at home region							
imes waiting list (WL) patients	25.6** (12.7)	24.7** (12.3)					
imes WL patients with income			51.6*	55.9*			
			(29.0)	(29.3)			
imes WL patients on dialysis					6.5	3.5	
					(12.3)	(11.4)	
Observations	95,715	95,580	95,715	95,580	95,715	95,580	
Group fixed effects	Yes	Yes	Yes	Yes	Yes	Yes	
Month fixed effects	Yes	No	Yes	No	Yes	No	
Country \times month FEs	No	Yes	No	Yes	No	Yes	
Base prob. transplant groups	160.6	161.3	160.6	161.3	160.6	161.32	

The probability of conflict outside the home region of a group with a transplant center at its home region increases

- from 1.6% to 1.9% with a 1 SD increase in WL patients.
- from 1.6% to 2.1% with a 1 SD increase in WL patients with income.

Similar results for number of attacks

Introduction	Conceptional Framework	Data & Methods	Results 0000●0	Conclusion O
1	and the second	(1) (1) (1) (1)		

Is transplant tourism associated with suspicious payments?

Suspicious payments_{ct} = $\beta_0 + \beta_1$ Trafficking country_c × Kidney demand_t + FE_c + FE_t + ϵ_{ct}

- for country c:
 - **Trafficking country**: Country that is involved in organ trafficking, according to the WHO
 - **Suspicious payments**: from and to country c, according to FinCEN files

• at time t: month

▶ Payment data properties

Introduction	Conceptional Framework	Data & Methods	Results	Conclusion
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Suspicious payments (Standardized coefficients)

	Depender	nt variable: Lo	og suspicious payments
Trafficking country			
imes waiting list (WL) patients	0.249** (0.12)		
\times WL patients with income		0.165** (0.08)	
\times WL patients on dialysis		()	0.187** (0.09)
Observations	17,850	16,275	17,325
Country fixed effects	Yes	Yes	Yes
Month fixed effects	Yes	Yes	Yes
Mean log payments transplant countries	0.49	0.54	0.51

* p < 0.10, ** p < 0.05, *** p < 0.01

Introduction	Conceptional Framework	Data & Methods	Results	Conclusion
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Observations	17,850	16,275	17,325
Country fixed effects	Yes	Yes	Yes
Month fixed effects	Yes	Yes	Yes
Mean log payments transplant countries	0.49	0.54	0.51

* p < 0.10, ** p < 0.05, *** p < 0.01

In a country notorious for organ trafficking, the number of suspicious payments from and to the country increases

- by 25% with a 1 SD increase in WL patients.
- by 17% with a 1 SD increase in WL patients with income.
- by 19% with a 1 SD increase in WL patients on dialysis.

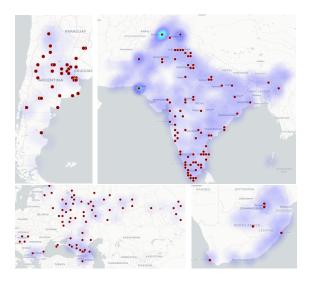
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Introduction	Conceptional Framework	Data & Methods	Results	Conclusion •
Conclusion				

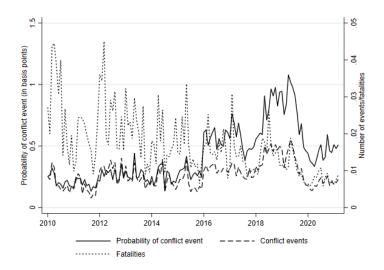
- An increase in the number of U.S. waiting list kidney patients is associated with
 - An **increase in the probability of a conflict** in 0.5°latitude × 0.5°longitude cells with a transplant center.
 - An increase in the probability that groups with a transplant center in their home region perform an attack, both in total and outside their home region.
 - More suspicious payments to and from countries notorious for organ trafficking.
- Effects are stronger for waiting list patients with a labor income and nonexistent for patients who are on dialysis.
- This evidence is consistent with the hypothesis that armed groups finance attacks with transplant tourism.

Thanks for your attention.

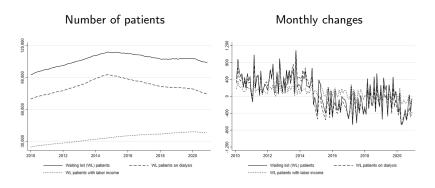
Spatial distribution of conflict events and transplant centers



Probability of conflict, conflict events and fatalities



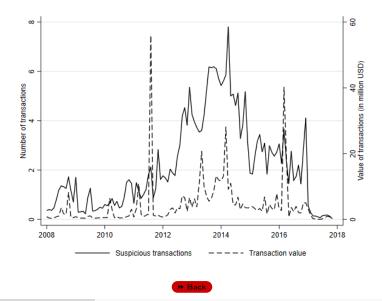
Demand for kidneys on the U.S. waiting list



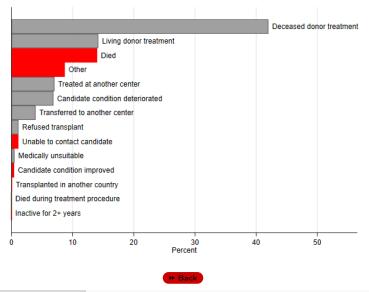


		N	Mean	SD	Median	Min	0000
		Panel A: Cell-r	month level				
Conflict in 15,876 cells over 135		anel A. Cell-I	nonth level				
Probability of conflict in %	montins	2,143,260	.448	6.67	0	0	100
Number of events		2.143.260	.0096	.272	0	0	62
Events > 0		9.592	2.17	3.45	1	1	62
		- ,					
		Panel B: Mo	onth level				
Kidney demand over 135 months							
Waiting list patients		2,143,260	106,554	5,347	107,526	92,409	113,951
with labor income		2,143,260	33,409	4,290	34,506	24,538	38,952
on dialysis		2,143,260	81,857	6,025	81,015	69,849	92,709
		Panel C: C	ell level				
Transplant infrastructure in 15,87	6 cells						
N transplant centers		2,143,260	.03937	.632	0	0	31
At least one center in %		2,143,260	1.37	12	0	0	100
	Р	anel D: Group	-month level				
Conflict of 723 groups over 135	nonths						
Probability of conflict in %		97,605	1.67	13	0	0	100
Number of events		97,605	.0315	.35	0	0	20
Events > 0		1,633	1.88	1.95	1	1	20
Prob. of conflict outside home re	egion in %	97,605	1.25	11	0	0	100
Number of events outside home	region	97,605	.0251	.3227	0	0	20
Events outside home regi	on > 0	1,219	2.017	2.09	1	1	20
		Panel E: Gro	oup level				
Transplant infrastructure at home	region of 72	23 groups	•				
N transplant centers	-	97,605	2.88	6.63	0	0	31
At least one center in %		97,605	31	46	0	0	100
	Pa	anel F: Country	-month leve				
Financial transactions from and t							
Suspicious payments	5 105 count	17,850	1.46	7.15	0	0	162
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Suspicious payments



Reasons for removal from waiting list



Alison Schultz

Number of Conflict Events (Standardized coefficients)

	Dependent variable: Log conflict events					
Transplant center \times waiting list (WL) patients	0.009 ^{***} (0.00)	0.007 ^{***} (0.00)				
imes WL patients with income	. ,	. ,	0.018** (0.01)	0.014* (0.01)		
\times WL patients on dialysis			. ,	. ,	0.003 (0.00)	0.003 (0.00)
Observations	2,143K	2,142K	2,143K	2,142K	2,143K	2,142K
Cell fixed effects	Yes	Yes	Yes	Yes	Yes	Yes
Month fixed effects	Yes	No	Yes	No	Yes	No
Country \times month FEs	No	Yes	No	Yes	No	Yes
Mean log events transplant cells	0.07	0.07	0.07	0.07	0.07	0.07

* p < 0.10, ** p < 0.05, *** p < 0.01

In a cell with a transplant center, the number of conflict events increases

- by 0.9% with a 1 SD increase in WL patients.
- by 1.8% with a 1 SD increase in WL patients with income.
- not significantly with an increase in WL patients on dialysis.

🍽 Back

Alison Schultz

Groups' number of conflict events (Standardized coefficients)

	Dependent variable: Group's log conflict events							
	(1)	(2)	(3)	(4)	(5)	(6)		
Transplant center at home region								
imes waiting list (WL) patients	0.002	0.002						
	(0.00)	(0.00)						
imes WL patients with income	. ,	. ,	0.007*	0.007*				
			(0.00)	(0.00)				
imes WL patients on dialysis			. ,	. ,	-0.000	-0.000		
					(0.00)	(0.00)		
Observations	95,715	95,580	95,715	95,580	95,715	95,580		
Group fixed effects	Yes	Yes	Yes	Yes	Yes	Yes		
Month fixed effects	Yes	No	Yes	No	Yes	No		
Country \times month FEs	No	Yes	No	Yes	No	Yes		
Mean log events transplant groups	0.02	0.02	0.02	0.02	0.02	0.02		
R-squared	0.18	0.18	0.18	0.18	0.18	0.18		

* p < 0.10, ** p < 0.05, *** p < 0.01

The number of coflict events a group with a transplant center at its home region increases

- by 0.2% with a 1 SD increase in WL patients with income.
- by 0.7% with a 1 SD increase in WL patients with income.
- not significantly with an increase in WL patients on dialysis.

Groups' number of conflict events outside home region

	Dependent variable: Log conflict events outside home region					
	(1)	(2)	(3)	(4)	(5)	(6)
Transplant center at home region						
imes waiting list (WL) patients	0.002* (0.00)	0.002* (0.00)				
imes WL patients with income	(****)	()	0.006	0.007*		
imes WL patients on dialysis			(0.00)	(0.00)	0.000	-0.000
					(0.00)	(0.00)
Observations	95,715	95,580	95,715	95,580	95,715	95,580
Group fixed effects	Yes	Yes	Yes	Yes	Yes	Yes
Month fixed effects	Yes	No	Yes	No	Yes	No
Country \times month FEs	No	Yes	No	Yes	No	Yes
Mean log events transplant groups	0.02	0.02	0.02	0.02	0.02	0.02
R-squared	0.21	0.21	0.21	0.21	0.21	0.21

* p < 0.10, ** p < 0.05, *** p < 0.01

The number of conflict evets outside the home region of a group with a transplant center at its home region increases

- by 0.2% with a 1 SD increase in WL patients.
- by 0.6% with a 1 SD increase in WL patients with income.
- not significantly with an increase in WL patients on dialysis.

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