Econ Thesis Data Analysis

Yeshwant Chillakuru

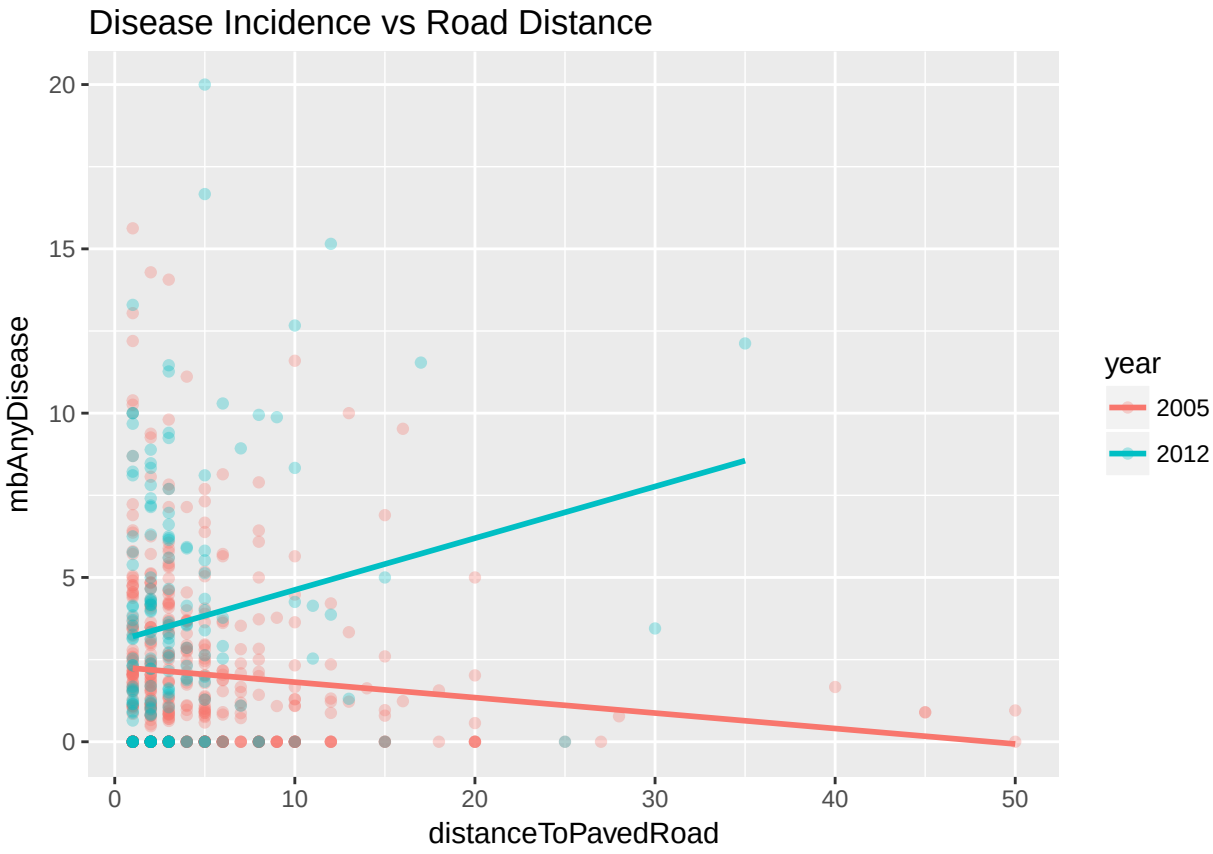

Table 1:

	Dependent variable:		
	mbAnyDisease		
	(1)	(2)	(3)
roadPaved	1.486***	0.470*	0.451*
	(0.254)	(0.257)	(0.258)
income		0.00001***	0.00000**
		(0.00000)	(0.00000)
illiterate		3.774***	3.459***
		(1.299)	(1.320)
smokeTobacco		0.965***	0.840***
		(0.143)	(0.152)
ownToilet			0.013**
			(0.006)
electricity			0.006
			(0.005)
caste.Brahmin			0.001
			(0.026)
Observations	2,800	2,748	2,748
R^2	0.025	0.140	0.144
Adjusted R^2	−1.081	−0.867	−0.863
F Statistic	34.265*** (df = 1; 1311)	51.328*** (df = 4; 1266)	30.248*** (df = 7; 1263)
Note:			*p<0.1; **p<0.05; ***p<0.01

Table 2:

	Dependent variable:		
	mbAnyDisease		
	(1)	(2)	(3)
lnDistanceToPavedRoad	−0.661	−0.037	−0.038
	(0.469)	(0.455)	(0.464)
income		−0.00001	−0.00001
		(0.00001)	(0.00001)
illiterate		0.738	1.185
		(3.654)	(3.772)
smokeTobacco		2.385***	2.250***
		(0.442)	(0.480)
ownToilet			0.017
			(0.017)
electricity			−0.001
			(0.013)
caste.Brahmin			0.040
			(0.054)
Observations	658	643	643
R^2	0.016	0.283	0.294
Adjusted R^2	−4.174	−2.967	−3.013
F Statistic	1.985 (df = 1; 125)	11.460*** (df = 4; 116)	6.710*** (df = 7; 113)
Note:			*p<0.1; **p<0.05; ***p<0.01

Table 3:

	Dependent variable:		
	mbAnyDisease		
	(1)	(2)	(3)
roadPaved	1.419***	1.439***	1.377***
	(0.265)	(0.254)	(0.264)
ImmunizationCampaignsNumber	0.091***		0.088***
	(0.028)		(0.028)
drinkingWaterSource.Piped	0.010*		0.010**
	(0.005)		(0.005)
healthSubCenter		0.090	0.022
		(0.171)	(0.187)
primaryHealthCenter		−1.014***	−1.009***
		(0.377)	(0.388)
communityHealthCenter		0.357	0.503
		(0.628)	(0.638)
Observations	2,649	2,788	2,639
R^2	0.040	0.030	0.046
Adjusted R^2	−1.185	−1.085	−1.187
F Statistic	16.050*** (df = 3; 1164)	10.186*** (df = 4; 1296)	9.219*** (df = 6; 1151)
Note:			*p<0.1; **p<0.05; ***p<0.01

Table 4:

	Dependent variable:		
	mbAnyDisease		
	(1)	(2)	(3)
lnDistanceToPavedRoad	−0.740	−0.722	−0.841*
	(0.489)	(0.479)	(0.501)
ImmunizationCampaignsNumber	0.174		0.152
	(0.117)		(0.119)
drinkingWaterSource.Piped	0.054***		0.059***
	(0.020)		(0.021)
healthSubCenter		−0.492	−0.788
		(0.842)	(0.884)
primaryHealthCenter		−2.499	−2.763
		(2.200)	(2.218)
communityHealthCenter		−0.992	−3.410
		(4.992)	(5.087)
Observations	619	652	615
R^2	0.097	0.029	0.119
Adjusted R^2	−4.118	−4.266	−4.201
F Statistic	3.916** (df = 3; 109)	0.905 (df = 4; 120)	2.343** (df = 6; 104)
Note:			*p<0.1; **p<0.05; ***p<0.01

Table 5:

	Dependent variable:		
	mbAnyDisease		
	(1)	(2)	(3)
roadPaved	−0.003	−0.050	−0.018
	(0.164)	(0.164)	(0.163)
mbTreatmentWho1.PublicDoc	0.402***		−0.040
	(0.025)		(0.119)
mbTreatmentWho1.PublicDocInPvt	0.404***		−0.032
	(0.048)		(0.124)
mbTreatmentWho1.PvtDoc	0.524***		0.086
	(0.014)		(0.115)
mbTreatmentWho1.Pharm	0.764***		0.303*
	(0.104)		(0.158)
mbTreatmentWhere1.SameVillage		0.455***	0.405***
		(0.021)	(0.115)
mbTreatmentWhere1.AnotherVillage		0.547***	0.488***
		(0.025)	(0.117)
mbTreatmentWhere1.OtherTown		0.493***	0.444***
		(0.021)	(0.115)
mbTreatmentWhere1.DistrictTown		0.464***	0.423***
		(0.028)	(0.117)
Observations	2,800	2,800	2,800
R^2	0.615	0.613	0.621
Adjusted R^2	0.176	0.171	0.186
F Statistic	417.645*** (df = 5; 1307)	414.140*** (df = 5; 1307)	237.227*** (df = 9; 1303
Note:			*p<0.1; **p<0.05; ***p<0.0

Table 6:

	Dependent variable:		
	mbAnyDisease		
	(1)	(2)	(3)
lnDistanceToPavedRoad	0.261	0.158	0.223
	(0.274)	(0.279)	(0.282)
mbTreatmentWho1.PublicDoc	0.491***		0.194
	(0.069)		(0.270)
mbTreatmentWho1.PublicDocInPvt	0.566***		0.306
	(0.136)		(0.284)
mbTreatmentWho1.PvtDoc	0.620***		0.324
	(0.053)		(0.258)
mbTreatmentWho1.Pharm	0.840***		0.585
	(0.252)		(0.386)
mbTreatmentWhere1.SameVillage		0.537***	0.261
		(0.072)	(0.258)
mbTreatmentWhere1.AnotherVillage		0.613***	0.314
		(0.067)	(0.262)
mbTreatmentWhere1.OtherTown		0.508***	0.293
		(0.075)	(0.238)
mbTreatmentWhere1.DistrictTown		0.482***	0.218
		(0.084)	(0.263)
Observations	658	658	658
R^2	0.693	0.689	0.699
Adjusted R^2	−0.664	−0.689	−0.692
F Statistic	54.744*** (df = 5; 121)	53.613*** (df = 5; 121)	30.154*** (df = 9; 117)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 7:

	Dependent variable:		
	mbAnyDisease		
	(1)	(2)	(3)
roadPaved	0.014	0.107	0.092
	(0.173)	(0.169)	(0.176)
income	−0.00000***		−0.00000**
	(0.00000)		(0.00000)
ImmunizationCampaignsNumber	0.011		0.008
	(0.018)		(0.017)
drinkingWaterSource.Piped	−0.003		−0.004
	(0.003)		(0.003)
primaryHealthCenter	−0.623**		−0.506**
	(0.245)		(0.244)
illiterate		1.178	1.348
		(0.852)	(0.890)
smokeTobacco		−0.232**	−0.101
		(0.095)	(0.105)
ownToilet		−0.001	0.005
		(0.004)	(0.004)
mbTreatmentWhere1.SameVillage	0.466***	0.492***	0.495***
	(0.023)	(0.022)	(0.024)
mbTreatmentWhere1.AnotherVillage	0.584***	0.535***	0.556***
	(0.027)	(0.026)	(0.028)
mbTreatmentWhere1.OtherTown	0.502***	0.516***	0.511***
	(0.023)	(0.022)	(0.023)
mbTreatmentWhere1.DistrictTown	0.462***	0.472***	0.464***
	(0.031)	(0.028)	(0.030)
Observations	2,643	2,748	2,596
R^2	0.620	0.628	0.634
Adjusted R^2	0.129	0.189	0.147
F Statistic	208.887*** (df = 9; 1152)	265.884*** (df = 8; 1262)	160.756*** (df = 12; 111

Note: *p<0.1; **p<0.05; ***p<0.0

Table 8:

	Dependent variable:		
	mbAnyDisease		
	(1)	(2)	(3)
lnDistanceToPavedRoad	0.069	0.236	0.231
	(0.287)	(0.303)	(0.326)
income	0.00000		−0.00000
	(0.00000)		(0.00001)
ImmunizationCampaignsNumber	0.005		−0.003
	(0.066)		(0.068)
drinkingWaterSource.Piped	0.020*		0.022*
	(0.012)		(0.012)
primaryHealthCenter	−1.264		−1.012
	(1.258)		(1.381)
illiterate		2.718	2.563
		(2.425)	(2.476)
smokeTobacco		0.253	0.439
		(0.284)	(0.353)
ownToilet		−0.003	−0.003
		(0.011)	(0.012)
mbTreatmentWhere1.SameVillage	0.553***	0.505***	0.524***
	(0.076)	(0.081)	(0.081)
mbTreatmentWhere1.AnotherVillage	0.635***	0.595***	0.600***
	(0.069)	(0.073)	(0.075)
mbTreatmentWhere1.OtherTown	0.485***	0.497***	0.486***
	(0.078)	(0.079)	(0.080)
mbTreatmentWhere1.DistrictTown	0.406***	0.440***	0.378***
	(0.087)	(0.090)	(0.091)
Observations	617	643	603
R^2	0.740	0.701	0.751
Adjusted R^2	−0.568	−0.712	−0.576
F Statistic	32.311*** (df = 9; 102)	32.882*** (df = 8; 112)	23.908*** (df = 12; 95)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 9:

	Dependent variable:		
	mbComDisease		
	(1)	(2)	(3)
roadPaved	−0.010	0.007	0.014
	(0.052)	(0.050)	(0.054)
income	−0.00000*		−0.00000
	(0.00000)		(0.00000)
ImmunizationCampaignsNumber	−0.007		−0.007
	(0.005)		(0.005)
drinkingWaterSource.Piped	−0.0004		−0.001
	(0.001)		(0.001)
primaryHealthCenter	−0.070		−0.066
	(0.073)		(0.075)
illiterate		−0.409	−0.383
		(0.253)	(0.274)
smokeTobacco		−0.054*	−0.034
		(0.028)	(0.032)
ownToilet		0.001	0.002
		(0.001)	(0.001)
mbTreatmentWhere1.SameVillage	0.006	0.011*	0.008
	(0.007)	(0.007)	(0.007)
mbTreatmentWhere1.AnotherVillage	0.030***	0.034***	0.034***
	(0.008)	(0.008)	(0.009)
mbTreatmentWhere1.OtherTown	0.011	0.013*	0.013*
	(0.007)	(0.007)	(0.007)
mbTreatmentWhere1.DistrictTown	0.045***	0.040***	0.047***
	(0.009)	(0.008)	(0.009)
Observations	2,643	2,748	2,596
R^2	0.036	0.039	0.043
Adjusted R^2	−1.211	−1.092	−1.230
F Statistic	4.766*** (df = 9; 1152)	6.370*** (df = 8; 1262)	4.148*** (df = 12; 1114)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 10:

	Dependent variable:		
	mbComDisease		
	(1)	(2)	(3)
lnDistanceToPavedRoad	−0.068	−0.068	−0.065
	(0.091)	(0.085)	(0.096)
income	0.00000		−0.00000
	(0.00000)		(0.00000)
ImmunizationCampaignsNumber	0.027		0.019
	(0.021)		(0.020)
drinkingWaterSource.Piped	−0.004		−0.004
	(0.004)		(0.004)
primaryHealthCenter	0.435		0.428
	(0.399)		(0.408)
illiterate		0.158	−0.061
		(0.679)	(0.731)
smokeTobacco		0.091	0.120
		(0.080)	(0.104)
ownToilet		−0.004	−0.003
		(0.003)	(0.004)
mbTreatmentWhere1.SameVillage	−0.024	−0.030	−0.032
	(0.024)	(0.023)	(0.024)
mbTreatmentWhere1.AnotherVillage	0.050**	0.047**	0.047**
	(0.022)	(0.021)	(0.022)
mbTreatmentWhere1.OtherTown	0.003	−0.006	−0.003
	(0.025)	(0.022)	(0.024)
mbTreatmentWhere1.DistrictTown	0.006	−0.006	−0.002
	(0.028)	(0.025)	(0.027)
Observations	617	643	603
R^2	0.103	0.092	0.136
Adjusted R^2	−4.419	−4.205	−4.472
F Statistic	1.298 (df = 9; 102)	1.417 (df = 8; 112)	1.251 (df = 12; 95)
Note:			*p<0.1; **p<0.05; ***p<0.01

Table 11:

	Dependent variable:		
	mbNonComDisease		
	(1)	(2)	(3)
roadPaved	0.056	0.002	0.015
	(0.053)	(0.052)	(0.055)
income	0.00000*		0.00000
	(0.00000)		(0.00000)
ImmunizationCampaignsNumber	−0.006		−0.006
	(0.005)		(0.005)
drinkingWaterSource.Piped	0.0001		0.001
	(0.001)		(0.001)
primaryHealthCenter	0.105		0.116
	(0.075)		(0.076)
illiterate		0.248	0.463*
		(0.262)	(0.277)
smokeTobacco		0.057**	0.055*
		(0.029)	(0.033)
ownToilet		−0.0001	−0.0003
		(0.001)	(0.001)
mbTreatmentWhere1.SameVillage	0.014**	0.020***	0.013*
	(0.007)	(0.007)	(0.007)
mbTreatmentWhere1.AnotherVillage	0.017**	0.019**	0.015*
	(0.008)	(0.008)	(0.009)
mbTreatmentWhere1.OtherTown	0.024***	0.030***	0.025***
	(0.007)	(0.007)	(0.007)
mbTreatmentWhere1.DistrictTown	0.028***	0.018**	0.026***
	(0.009)	(0.009)	(0.009)
Observations	2,643	2,748	2,596
R^2	0.049	0.062	0.061
Adjusted R^2	−1.180	−1.042	−1.187
F Statistic	6.638*** (df = 9; 1152)	10.381*** (df = 8; 1262)	6.038*** (df = 12; 1114)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 12:

	Dependent variable:		
	mbNonComDisease		
	(1)	(2)	(3)
lnDistanceToPavedRoad	−0.023	−0.020	0.002
	(0.069)	(0.076)	(0.080)
income	0.00000		−0.00000
	(0.00000)		(0.00000)
ImmunizationCampaignsNumber	−0.018		−0.018
	(0.016)		(0.017)
drinkingWaterSource.Piped	0.0003		0.0003
	(0.003)		(0.003)
primaryHealthCenter	0.381		0.465
	(0.303)		(0.337)
illiterate		0.147	0.444
		(0.608)	(0.605)
smokeTobacco		−0.006	0.014
		(0.071)	(0.086)
ownToilet		0.001	0.002
		(0.003)	(0.003)
mbTreatmentWhere1.SameVillage	0.017	0.029	0.017
	(0.018)	(0.020)	(0.020)
mbTreatmentWhere1.AnotherVillage	0.005	0.006	0.001
	(0.017)	(0.018)	(0.018)
mbTreatmentWhere1.OtherTown	0.038**	0.040**	0.037*
	(0.019)	(0.020)	(0.020)
mbTreatmentWhere1.DistrictTown	0.017	0.003	0.017
	(0.021)	(0.023)	(0.022)
Observations	617	643	603
R^2	0.099	0.086	0.110
Adjusted R^2	−4.442	−4.238	−4.642
F Statistic	1.244 (df = 9; 102)	1.320 (df = 8; 112)	0.976 (df = 12; 95)
Note:			*p<0.1; **p<0.05; ***p<0.01

Table 13:

	Dependent variable:		
	mbSTDorAIDS		
	(1)	(2)	(3)
roadPaved	−0.040	−0.027	−0.034
	(0.025)	(0.023)	(0.025)
income	−0.00000***		−0.00000
	(0.00000)		(0.00000)
ImmunizationCampaignsNumber	0.001		0.001
	(0.003)		(0.002)
drinkingWaterSource.Piped	0.0001		−0.0001
	(0.0005)		(0.0005)
primaryHealthCenter	−0.024		−0.027
	(0.035)		(0.034)
illiterate		−0.229**	−0.246*
		(0.115)	(0.126)
smokeTobacco		−0.017	−0.014
		(0.013)	(0.015)
ownToilet		−0.0002	−0.0005
		(0.001)	(0.001)
mbTreatmentWhere1.SameVillage	0.010***	0.012***	0.011***
	(0.003)	(0.003)	(0.003)
mbTreatmentWhere1.AnotherVillage	0.015***	0.011***	0.014***
	(0.004)	(0.004)	(0.004)
mbTreatmentWhere1.OtherTown	0.004	0.001	0.002
	(0.003)	(0.003)	(0.003)
mbTreatmentWhere1.DistrictTown	0.014***	0.008**	0.011**
	(0.004)	(0.004)	(0.004)
Observations	2,643	2,748	2,596
R^2	0.034	0.028	0.032
Adjusted R^2	−1.216	−1.115	−1.255
F Statistic	4.494*** (df = 9; 1152)	4.574*** (df = 8; 1262)	3.069*** (df = 12; 1114)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 14:

	Dependent variable:		
	mbSTDorAIDS		
	(1)	(2)	(3)
lnDistanceToPavedRoad	0.031	−0.016	−0.001
	(0.053)	(0.054)	(0.059)
income	−0.00000*		−0.00000
	(0.00000)		(0.00000)
ImmunizationCampaignsNumber	−0.010		−0.009
	(0.012)		(0.012)
drinkingWaterSource.Piped	−0.005**		−0.005**
	(0.002)		(0.002)
primaryHealthCenter	−0.501**		−0.560**
	(0.230)		(0.252)
illiterate		−0.712	−0.816*
		(0.433)	(0.451)
smokeTobacco		−0.047	−0.045
		(0.051)	(0.064)
ownToilet		−0.0003	−0.001
		(0.002)	(0.002)
mbTreatmentWhere1.SameVillage	0.020	0.013	0.022
	(0.014)	(0.014)	(0.015)
mbTreatmentWhere1.AnotherVillage	0.055***	0.062***	0.061***
	(0.013)	(0.013)	(0.014)
mbTreatmentWhere1.OtherTown	0.025*	0.014	0.027*
	(0.014)	(0.014)	(0.015)
mbTreatmentWhere1.DistrictTown	0.022	0.017	0.026
	(0.016)	(0.016)	(0.017)
Observations	617	643	603
R^2	0.297	0.209	0.333
Adjusted R^2	−3.245	−3.533	−3.228
F Statistic	4.789*** (df = 9; 102)	3.705*** (df = 8; 112)	3.950*** (df = 12; 95)

Note: *p<0.1; **p<0.05; ***p<0.01

Any Disease

Personal Controls

Village Controls

Medical TreatmentWhere and TreatmentWho Controls

Combined Controls

Communicable Disease

Non Communicable Disease

STD or AIDS

Notes

- Regression
  - Controls:
    - Need to control for how often individuals go to hospital (more people sick in 2005 then in 2012 –> increased diagnosis?)

To Do:

-

Questions

- If using state-fixed and time-fixed effects for each village, do I really need all these controls?
- Can I do a differences-in-differences? <- potentially do for paved vs unpaved
- What controls should I include and what shouldn't? Should I be worried about "controlling away" the actual effect?