

Econ Thesis Data Analysis

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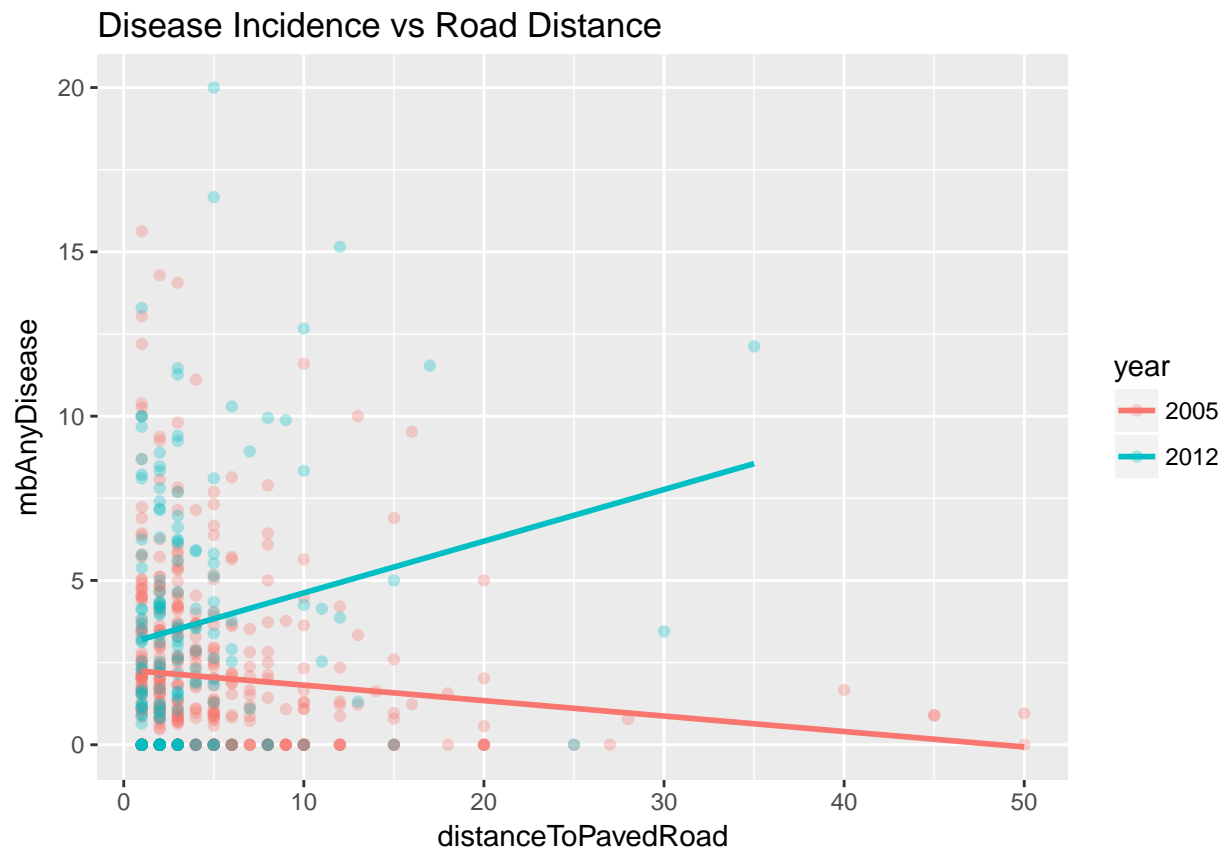


Table 1:

	<i>Dependent variable:</i>		
	mbAnyDisease		
	(1)	(2)	(3)
roadPaved	1.486*** (0.254)	0.470* (0.257)	0.451* (0.258)
income		0.00001*** (0.00000)	0.00000** (0.00000)
illiterate		3.774*** (1.299)	3.459*** (1.320)
smokeTobacco		0.965*** (0.143)	0.840*** (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:

	<i>Dependent variable:</i>		
	mbAnyDisease		
	(1)	(2)	(3)
lnDistanceToPavedRoad	−0.661 (0.469)	−0.037 (0.455)	−0.038 (0.464)
income		−0.00001 (0.00001)	−0.00001 (0.00001)
illiterate		0.738 (3.654)	1.185 (3.772)
smokeTobacco		2.385*** (0.442)	2.250*** (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:

	<i>Dependent variable:</i>		
	mbAnyDisease		
	(1)	(2)	(3)
roadPaved	1.419*** (0.265)	1.439*** (0.254)	1.377*** (0.264)
ImmunizationCampaignsNumber	0.091*** (0.028)		0.088*** (0.028)
drinkingWaterSource.Piped	0.010* (0.005)		0.010** (0.005)
healthSubCenter		0.090 (0.171)	0.022 (0.187)
primaryHealthCenter		-1.014*** (0.377)	-1.009*** (0.388)
communityHealthCenter		0.357 (0.628)	0.503 (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:

	<i>Dependent variable:</i>		
	mbAnyDisease		
	(1)	(2)	(3)
lnDistanceToPavedRoad	−0.740 (0.489)	−0.722 (0.479)	−0.841* (0.501)
ImmunizationCampaignsNumber	0.174 (0.117)		0.152 (0.119)
drinkingWaterSource.Piped	0.054*** (0.020)		0.059*** (0.021)
healthSubCenter		−0.492 (0.842)	−0.788 (0.884)
primaryHealthCenter		−2.499 (2.200)	−2.763 (2.218)
communityHealthCenter		−0.992 (4.992)	−3.410 (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:

	<i>Dependent variable:</i>		
	mbAnyDisease		
	(1)	(2)	(3)
roadPaved	-0.003 (0.164)	-0.050 (0.164)	-0.018 (0.163)
mbTreatmentWho1.PublicDoc	0.402*** (0.025)		-0.040 (0.119)
mbTreatmentWho1.PublicDocInPvt	0.404*** (0.048)		-0.032 (0.124)
mbTreatmentWho1.PvtDoc	0.524*** (0.014)		0.086 (0.115)
mbTreatmentWho1.Pharm	0.764*** (0.104)		0.303* (0.158)
mbTreatmentWhere1.SameVillage		0.455*** (0.021)	0.405*** (0.115)
mbTreatmentWhere1.AnotherVillage		0.547*** (0.025)	0.488*** (0.117)
mbTreatmentWhere1.OtherTown		0.493*** (0.021)	0.444*** (0.115)
mbTreatmentWhere1.DistrictTown		0.464*** (0.028)	0.423*** (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<0.01

Table 6:

	<i>Dependent variable:</i>		
	mbAnyDisease		
	(1)	(2)	(3)
lnDistanceToPavedRoad	0.261 (0.274)	0.158 (0.279)	0.223 (0.282)
mbTreatmentWho1.PublicDoc	0.491*** (0.069)		0.194 (0.270)
mbTreatmentWho1.PublicDocInPvt	0.566*** (0.136)		0.306 (0.284)
mbTreatmentWho1.PvtDoc	0.620*** (0.053)		0.324 (0.258)
mbTreatmentWho1.Pharm	0.840*** (0.252)		0.585 (0.386)
mbTreatmentWhere1.SameVillage		0.537*** (0.072)	0.261 (0.258)
mbTreatmentWhere1.AnotherVillage		0.613*** (0.067)	0.314 (0.262)
mbTreatmentWhere1.OtherTown		0.508*** (0.075)	0.293 (0.238)
mbTreatmentWhere1.DistrictTown		0.482*** (0.084)	0.218 (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:

	<i>Dependent variable:</i>		
	mbAnyDisease		
	(1)	(2)	(3)
roadPaved	0.014 (0.173)	0.107 (0.169)	0.092 (0.176)
income	−0.00000*** (0.00000)		−0.00000** (0.00000)
ImmunizationCampaignsNumber	0.011 (0.018)		0.008 (0.017)
drinkingWaterSource.Piped	−0.003 (0.003)		−0.004 (0.003)
primaryHealthCenter	−0.623** (0.245)		−0.506** (0.244)
illiterate		1.178 (0.852)	1.348 (0.890)
smokeTobacco		−0.232** (0.095)	−0.101 (0.105)
ownToilet		−0.001 (0.004)	0.005 (0.004)
mbTreatmentWhere1.SameVillage	0.466*** (0.023)	0.492*** (0.022)	0.495*** (0.024)
mbTreatmentWhere1.AnotherVillage	0.584*** (0.027)	0.535*** (0.026)	0.556*** (0.028)
mbTreatmentWhere1.OtherTown	0.502*** (0.023)	0.516*** (0.022)	0.511*** (0.023)
mbTreatmentWhere1.DistrictTown	0.462*** (0.031)	0.472*** (0.028)	0.464*** (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<0.01

Table 8:

	<i>Dependent variable:</i>		
	mbAnyDisease		
	(1)	(2)	(3)
lnDistanceToPavedRoad	0.069 (0.287)	0.236 (0.303)	0.231 (0.326)
income	0.00000 (0.00000)		-0.00000 (0.00001)
ImmunizationCampaignsNumber	0.005 (0.066)		-0.003 (0.068)
drinkingWaterSource.Piped	0.020* (0.012)		0.022* (0.012)
primaryHealthCenter	-1.264 (1.258)		-1.012 (1.381)
illiterate		2.718 (2.425)	2.563 (2.476)
smokeTobacco		0.253 (0.284)	0.439 (0.353)
ownToilet		-0.003 (0.011)	-0.003 (0.012)
mbTreatmentWhere1.SameVillage	0.553*** (0.076)	0.505*** (0.081)	0.524*** (0.081)
mbTreatmentWhere1.AnotherVillage	0.635*** (0.069)	0.595*** (0.073)	0.600*** (0.075)
mbTreatmentWhere1.OtherTown	0.485*** (0.078)	0.497*** (0.079)	0.486*** (0.080)
mbTreatmentWhere1.DistrictTown	0.406*** (0.087)	0.440*** (0.090)	0.378*** (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:

	<i>Dependent variable:</i>		
	mbComDisease		
	(1)	(2)	(3)
roadPaved	−0.010 (0.052)	0.007 (0.050)	0.014 (0.054)
income	−0.00000* (0.00000)		−0.00000 (0.00000)
ImmunizationCampaignsNumber	−0.007 (0.005)		−0.007 (0.005)
drinkingWaterSource.Piped	−0.0004 (0.001)		−0.001 (0.001)
primaryHealthCenter	−0.070 (0.073)		−0.066 (0.075)
illiterate		−0.409 (0.253)	−0.383 (0.274)
smokeTobacco		−0.054* (0.028)	−0.034 (0.032)
ownToilet		0.001 (0.001)	0.002 (0.001)
mbTreatmentWhere1.SameVillage	0.006 (0.007)	0.011* (0.007)	0.008 (0.007)
mbTreatmentWhere1.AnotherVillage	0.030*** (0.008)	0.034*** (0.008)	0.034*** (0.009)
mbTreatmentWhere1.OtherTown	0.011 (0.007)	0.013* (0.007)	0.013* (0.007)
mbTreatmentWhere1.DistrictTown	0.045*** (0.009)	0.040*** (0.008)	0.047*** (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:

	<i>Dependent variable:</i>		
	mbComDisease		
	(1)	(2)	(3)
lnDistanceToPavedRoad	−0.068 (0.091)	−0.068 (0.085)	−0.065 (0.096)
income	0.00000 (0.00000)		−0.00000 (0.00000)
ImmunizationCampaignsNumber	0.027 (0.021)		0.019 (0.020)
drinkingWaterSource.Piped	−0.004 (0.004)		−0.004 (0.004)
primaryHealthCenter	0.435 (0.399)		0.428 (0.408)
illiterate		0.158 (0.679)	−0.061 (0.731)
smokeTobacco		0.091 (0.080)	0.120 (0.104)
ownToilet		−0.004 (0.003)	−0.003 (0.004)
mbTreatmentWhere1.SameVillage	−0.024 (0.024)	−0.030 (0.023)	−0.032 (0.024)
mbTreatmentWhere1.AnotherVillage	0.050** (0.022)	0.047** (0.021)	0.047** (0.022)
mbTreatmentWhere1.OtherTown	0.003 (0.025)	−0.006 (0.022)	−0.003 (0.024)
mbTreatmentWhere1.DistrictTown	0.006 (0.028)	−0.006 (0.025)	−0.002 (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:

	<i>Dependent variable:</i>		
	mbNonComDisease		
	(1)	(2)	(3)
roadPaved	0.056 (0.053)	0.002 (0.052)	0.015 (0.055)
income	0.00000* (0.00000)		0.00000 (0.00000)
ImmunizationCampaignsNumber	−0.006 (0.005)		−0.006 (0.005)
drinkingWaterSource.Piped	0.0001 (0.001)		0.001 (0.001)
primaryHealthCenter	0.105 (0.075)		0.116 (0.076)
illiterate		0.248 (0.262)	0.463* (0.277)
smokeTobacco		0.057** (0.029)	0.055* (0.033)
ownToilet		−0.0001 (0.001)	−0.0003 (0.001)
mbTreatmentWhere1.SameVillage	0.014** (0.007)	0.020*** (0.007)	0.013* (0.007)
mbTreatmentWhere1.AnotherVillage	0.017** (0.008)	0.019** (0.008)	0.015* (0.009)
mbTreatmentWhere1.OtherTown	0.024*** (0.007)	0.030*** (0.007)	0.025*** (0.007)
mbTreatmentWhere1.DistrictTown	0.028*** (0.009)	0.018** (0.009)	0.026*** (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:

	<i>Dependent variable:</i>		
	mbNonComDisease		
	(1)	(2)	(3)
lnDistanceToPavedRoad	−0.023 (0.069)	−0.020 (0.076)	0.002 (0.080)
income	0.00000 (0.00000)		−0.00000 (0.00000)
ImmunizationCampaignsNumber	−0.018 (0.016)		−0.018 (0.017)
drinkingWaterSource.Piped	0.0003 (0.003)		0.0003 (0.003)
primaryHealthCenter	0.381 (0.303)		0.465 (0.337)
illiterate		0.147 (0.608)	0.444 (0.605)
smokeTobacco		−0.006 (0.071)	0.014 (0.086)
ownToilet		0.001 (0.003)	0.002 (0.003)
mbTreatmentWhere1.SameVillage	0.017 (0.018)	0.029 (0.020)	0.017 (0.020)
mbTreatmentWhere1.AnotherVillage	0.005 (0.017)	0.006 (0.018)	0.001 (0.018)
mbTreatmentWhere1.OtherTown	0.038** (0.019)	0.040** (0.020)	0.037* (0.020)
mbTreatmentWhere1.DistrictTown	0.017 (0.021)	0.003 (0.023)	0.017 (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:

	<i>Dependent variable:</i>		
	mbSTDorAIDS		
	(1)	(2)	(3)
roadPaved	−0.040 (0.025)	−0.027 (0.023)	−0.034 (0.025)
income	−0.00000*** (0.00000)		−0.00000 (0.00000)
ImmunizationCampaignsNumber	0.001 (0.003)		0.001 (0.002)
drinkingWaterSource.Piped	0.0001 (0.0005)		−0.0001 (0.0005)
primaryHealthCenter	−0.024 (0.035)		−0.027 (0.034)
illiterate		−0.229** (0.115)	−0.246* (0.126)
smokeTobacco		−0.017 (0.013)	−0.014 (0.015)
ownToilet		−0.0002 (0.001)	−0.0005 (0.001)
mbTreatmentWhere1.SameVillage	0.010*** (0.003)	0.012*** (0.003)	0.011*** (0.003)
mbTreatmentWhere1.AnotherVillage	0.015*** (0.004)	0.011*** (0.004)	0.014*** (0.004)
mbTreatmentWhere1.OtherTown	0.004 (0.003)	0.001 (0.003)	0.002 (0.003)
mbTreatmentWhere1.DistrictTown	0.014*** (0.004)	0.008** (0.004)	0.011** (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:

	<i>Dependent variable:</i>		
	mbSTDorAIDS		
	(1)	(2)	(3)
lnDistanceToPavedRoad	0.031 (0.053)	-0.016 (0.054)	-0.001 (0.059)
income	-0.00000* (0.00000)		-0.00000 (0.00000)
ImmunizationCampaignsNumber	-0.010 (0.012)		-0.009 (0.012)
drinkingWaterSource.Piped	-0.005** (0.002)		-0.005** (0.002)
primaryHealthCenter	-0.501** (0.230)		-0.560** (0.252)
illiterate		-0.712 (0.433)	-0.816* (0.451)
smokeTobacco		-0.047 (0.051)	-0.045 (0.064)
ownToilet		-0.0003 (0.002)	-0.001 (0.002)
mbTreatmentWhere1.SameVillage	0.020 (0.014)	0.013 (0.014)	0.022 (0.015)
mbTreatmentWhere1.AnotherVillage	0.055*** (0.013)	0.062*** (0.013)	0.061*** (0.014)
mbTreatmentWhere1.OtherTown	0.025* (0.014)	0.014 (0.014)	0.027* (0.015)
mbTreatmentWhere1.DistrictTown	0.022 (0.016)	0.017 (0.016)	0.026 (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 Treatment Where and Treatment Who 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:

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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?