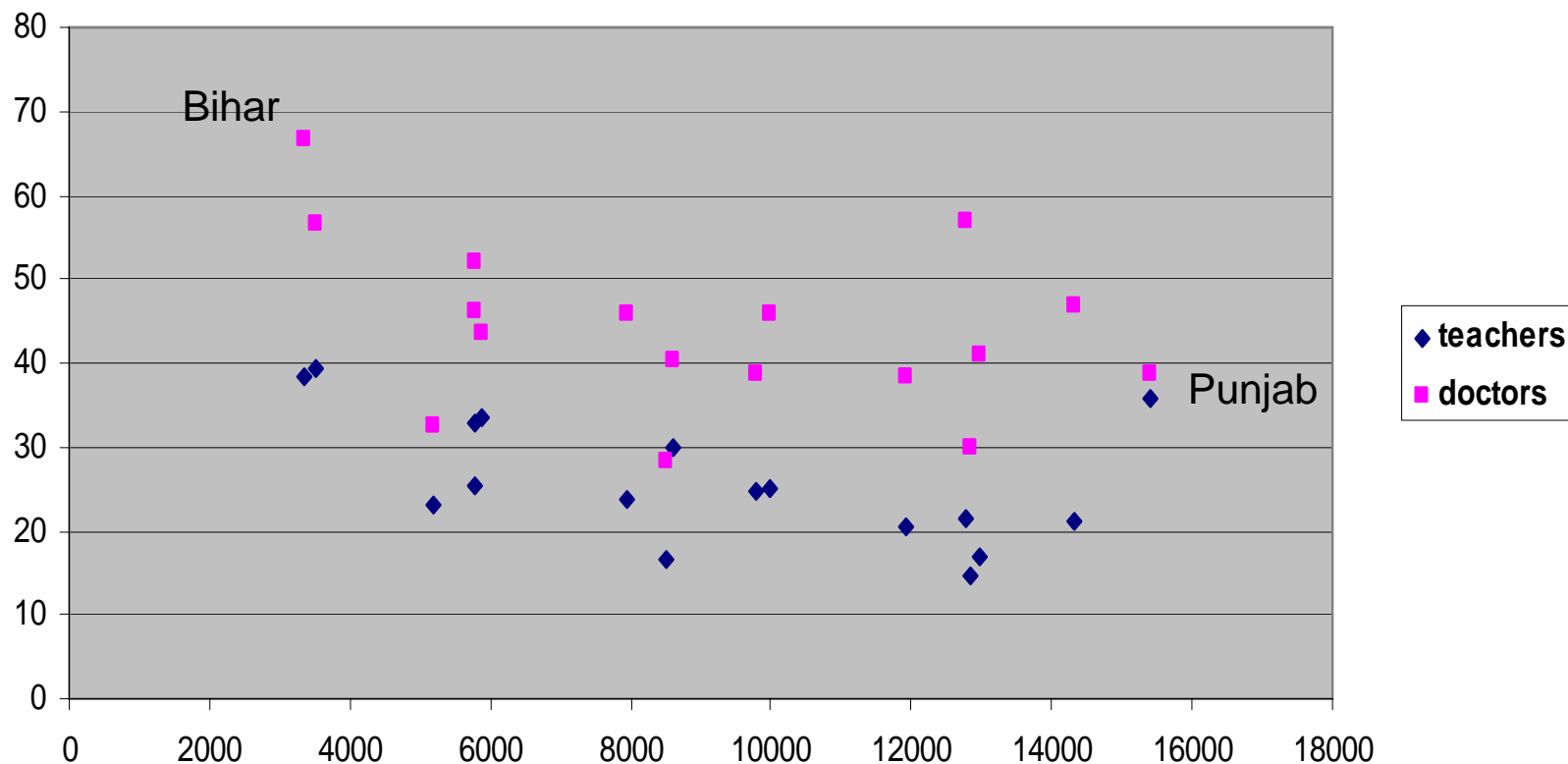


Service Delivery in Bihar: just a few facts

Jeff Hammer

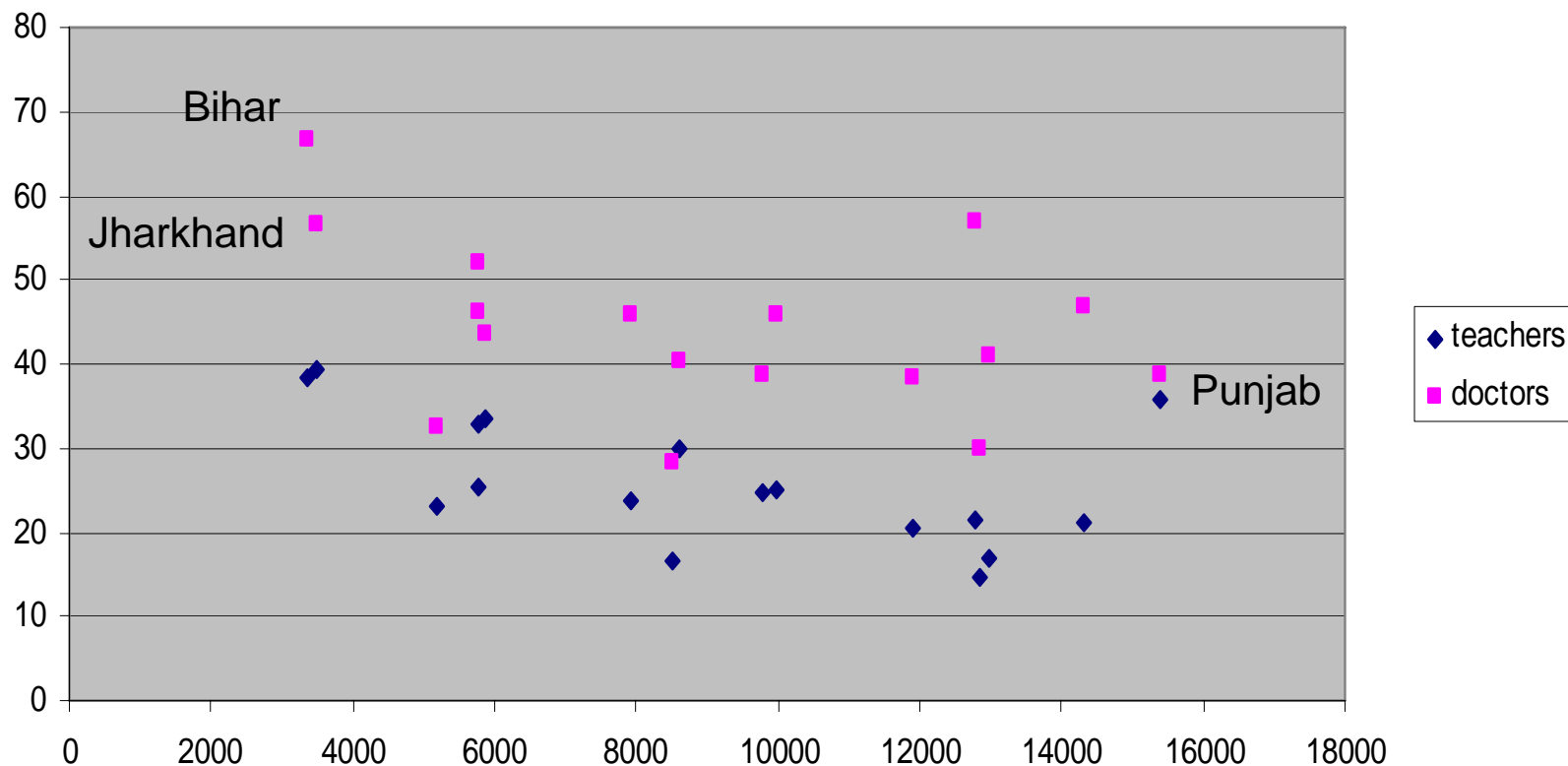
Patna, 18 June, 2005

India: Teacher and doctor absence by state per capita income



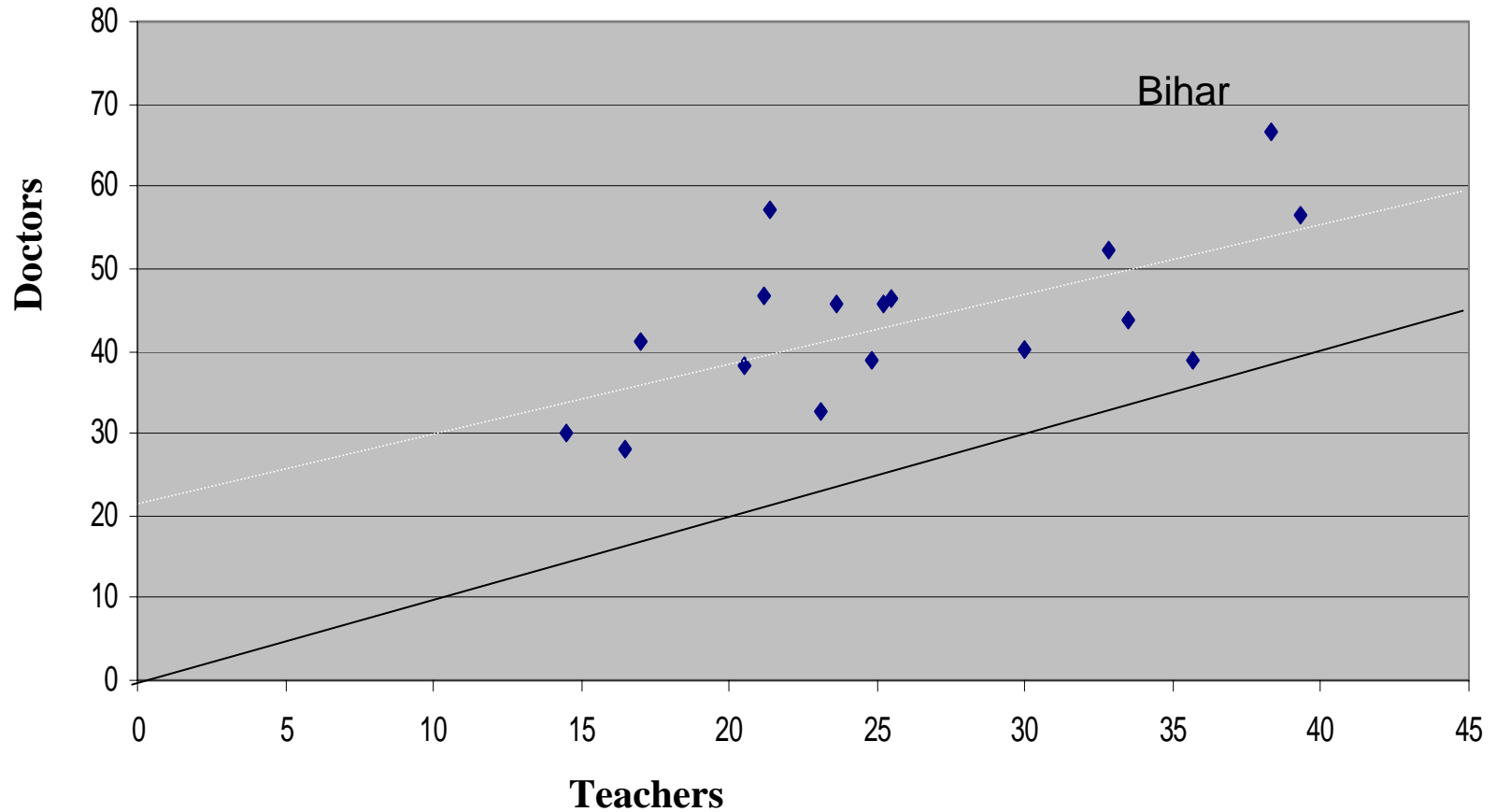
Source: Chaudhury, Hammer, Kremer, Muralidharan and Rogers, 2003, 2004, 2005 and whatever else we can squeeze out of this data

India: Teacher and doctor absence by state per capita income



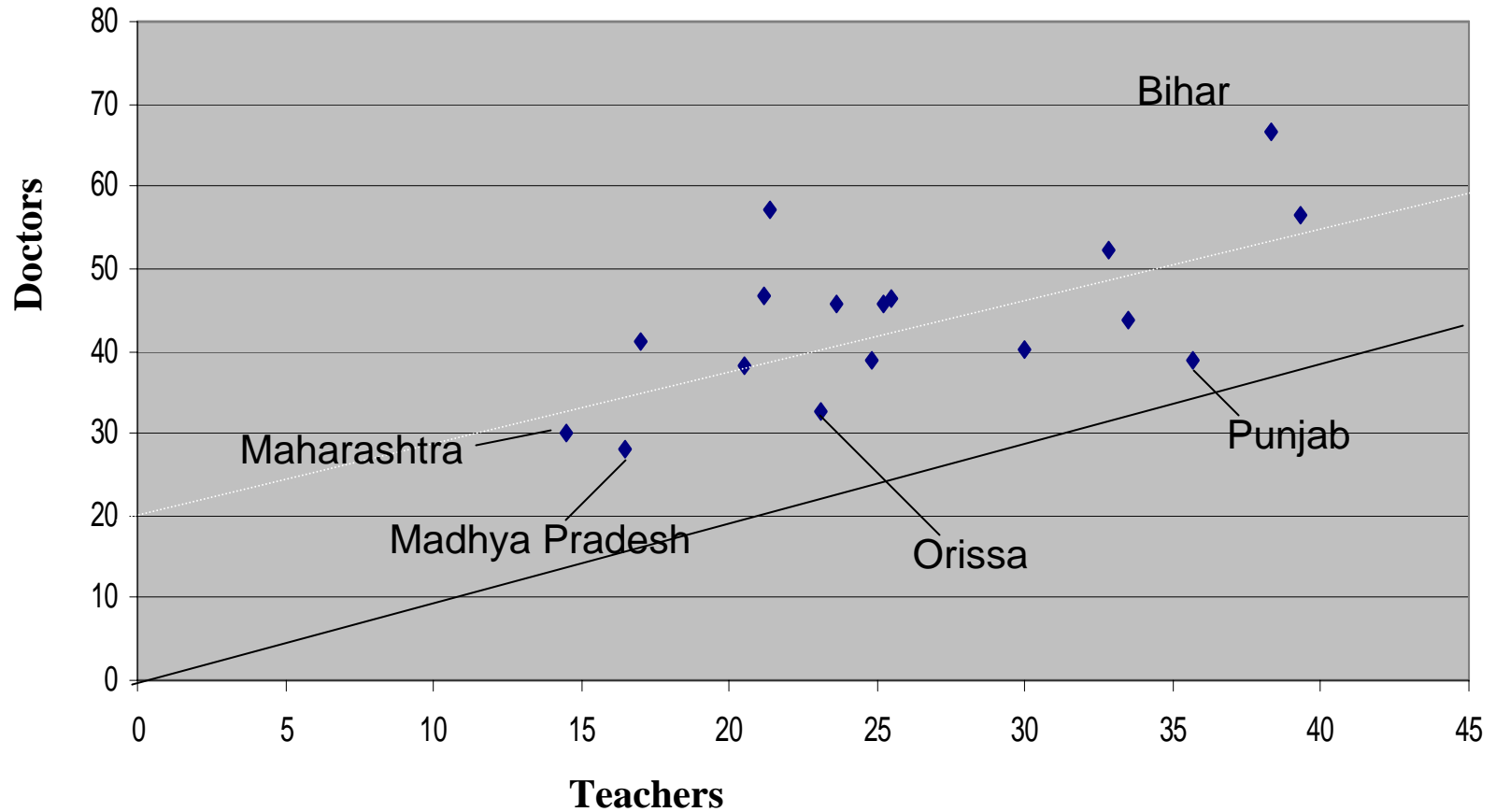
Source: As above

India: correlation of teacher and doctor absence across states



Source: As above

India: correlation of teacher and doctor absence across states



Teacher Absenteeism

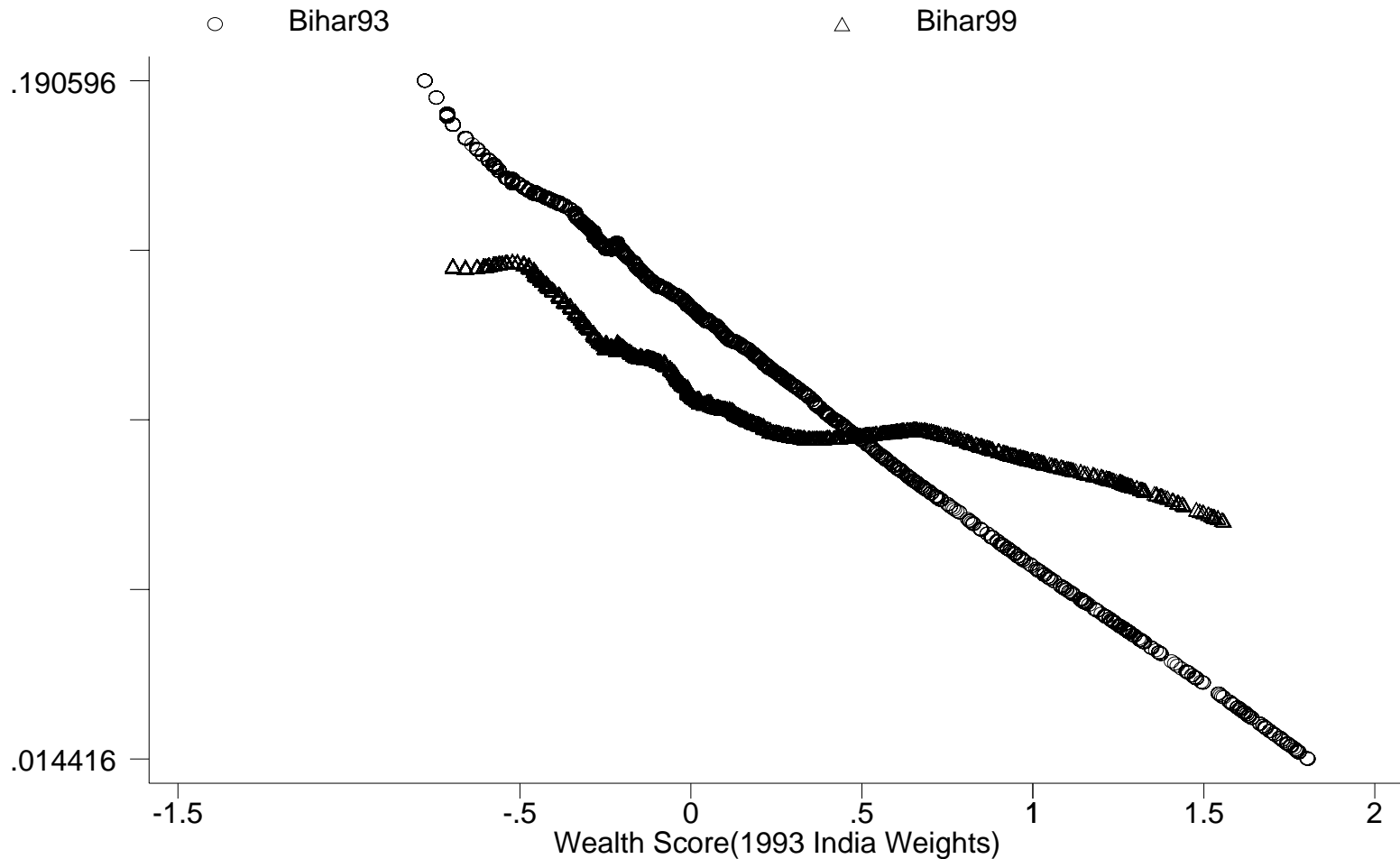
- Causes (correlations from multivariate analysis)
 - “Remoteness”: roads, distance, time
 - Supervision
 - Parental income and, especially, education
 - Bihar “dummy” positive, significant (just statistically)
 - (Not from this study): Salaries should be paid – and, somehow, depend on performance
- Consequences
 - Lower student test scores

Health Worker Absenteeism

- Causes (correlations from multivariate analysis)
 - Distance
 - Supervision
 - Doctors worse than others
 - Bihar “dummy” highly significant and large
 - (Not from this study): Money should follow the patient, salaries are not a good idea
- Consequences
 - ???

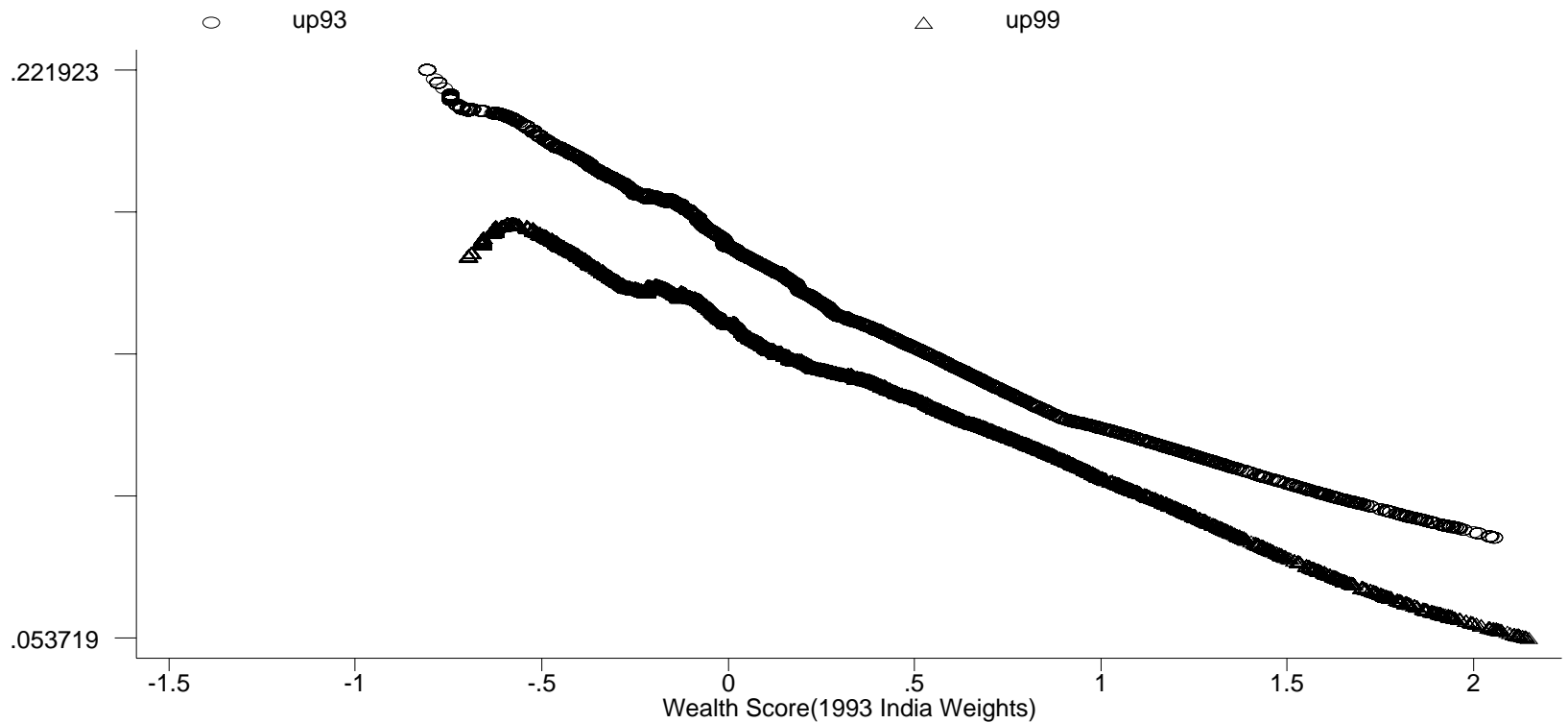
Health and Wealth

Under 2 mortality in Bihar 1992-98



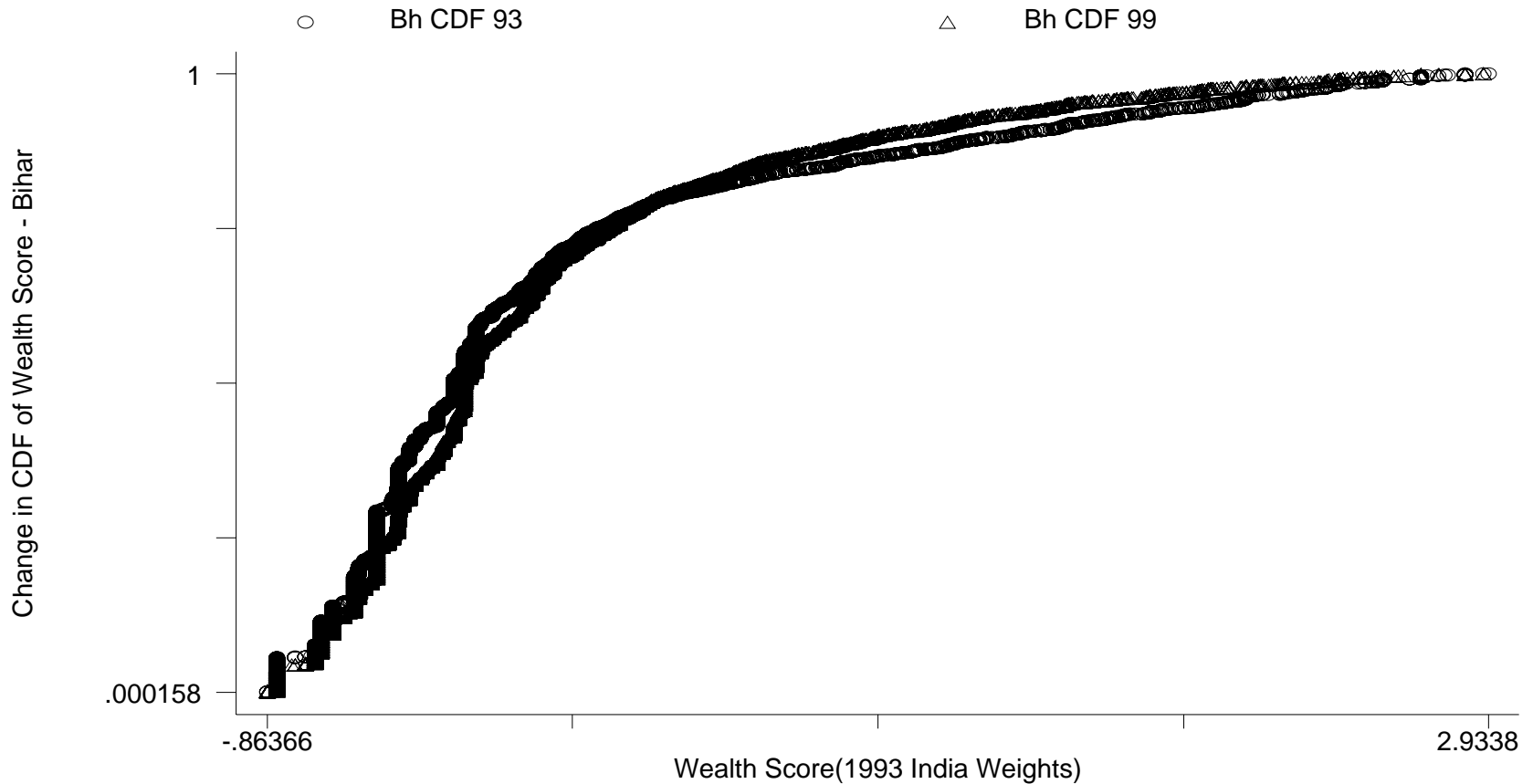
Source: Chaudhury and Hammer (2005) based on NFHS surveys

Uttar Pradesh (just for comparison)



Source: as above

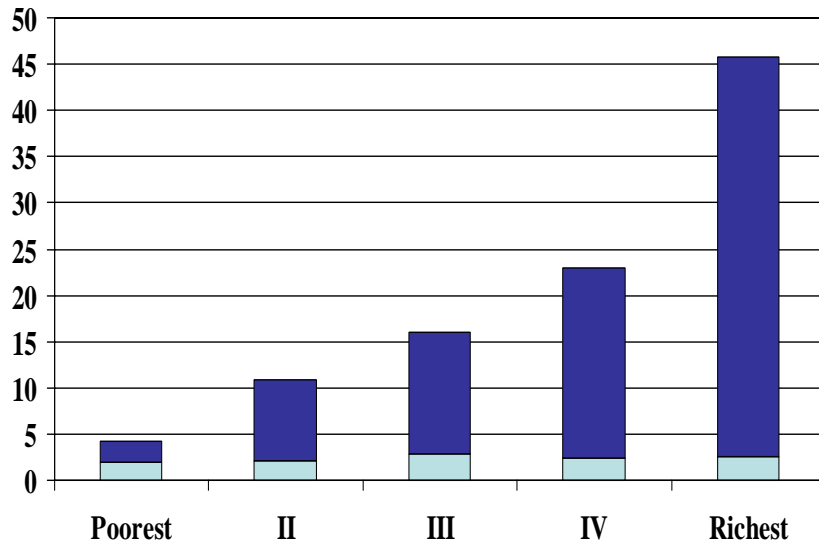
Cumulative Distribution Functions of “wealth” in Bihar, 1993-1999



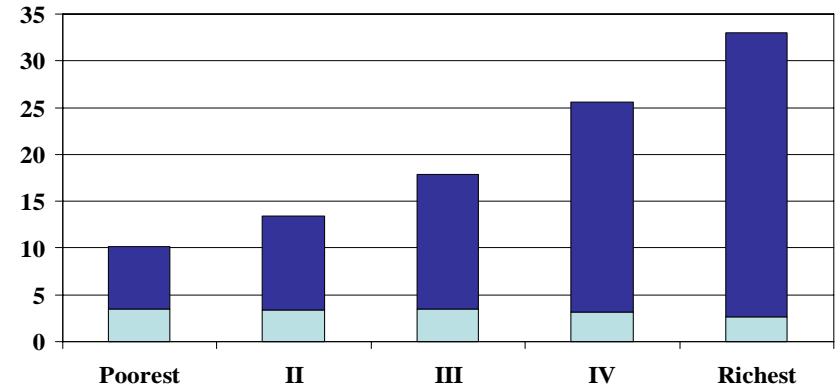
Source: Chaudhury and Hammer (2005) based on NFHS surveys

Distribution of Health Care Subsidies Bihar and India, 1995-6

Bihar



All India



Hospitals 

Primary Health Care Centers 

Source: Mahal et al (2000) based on NSS 52nd round

Effect of Presence of Health Facilities (in village) on Infant and Child Mortality

- RCH survey (regression analysis): nothing

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Effect of Presence of Health Facilities (in village) on Infant and Child Mortality

- RCH survey (regression analysis): nothing
- NFHS I (regression): nada
- NFHS II (regression): kuch nahin
- NFHS II (propensity score matching): none
- But, then again, this effect is almost never significant in any state by any method

Recommendations

- GoB: ???

Recommendations

- GoB: ???
 - Who is the “Government of Bihar?”
 - Problems of “Political Economy”
 - In Bihar
 - A problem with “political economy”: if we had a good model for how policies are formed, what is the use of a “recommendation”?

Recommendations

- GoB: ???
- GoI
 - Measure, Monitor
 - Publicize

Recommendations

- GoB: ???
- GoI
 - Measure, Monitor
 - Publicize
- NGO's
 - Don't worry about displacing public services
 - Link pay to performance (but not based on these studies)