

Physician Market Definition: Joint FTC-DOJ Hearings on Health Care Competition

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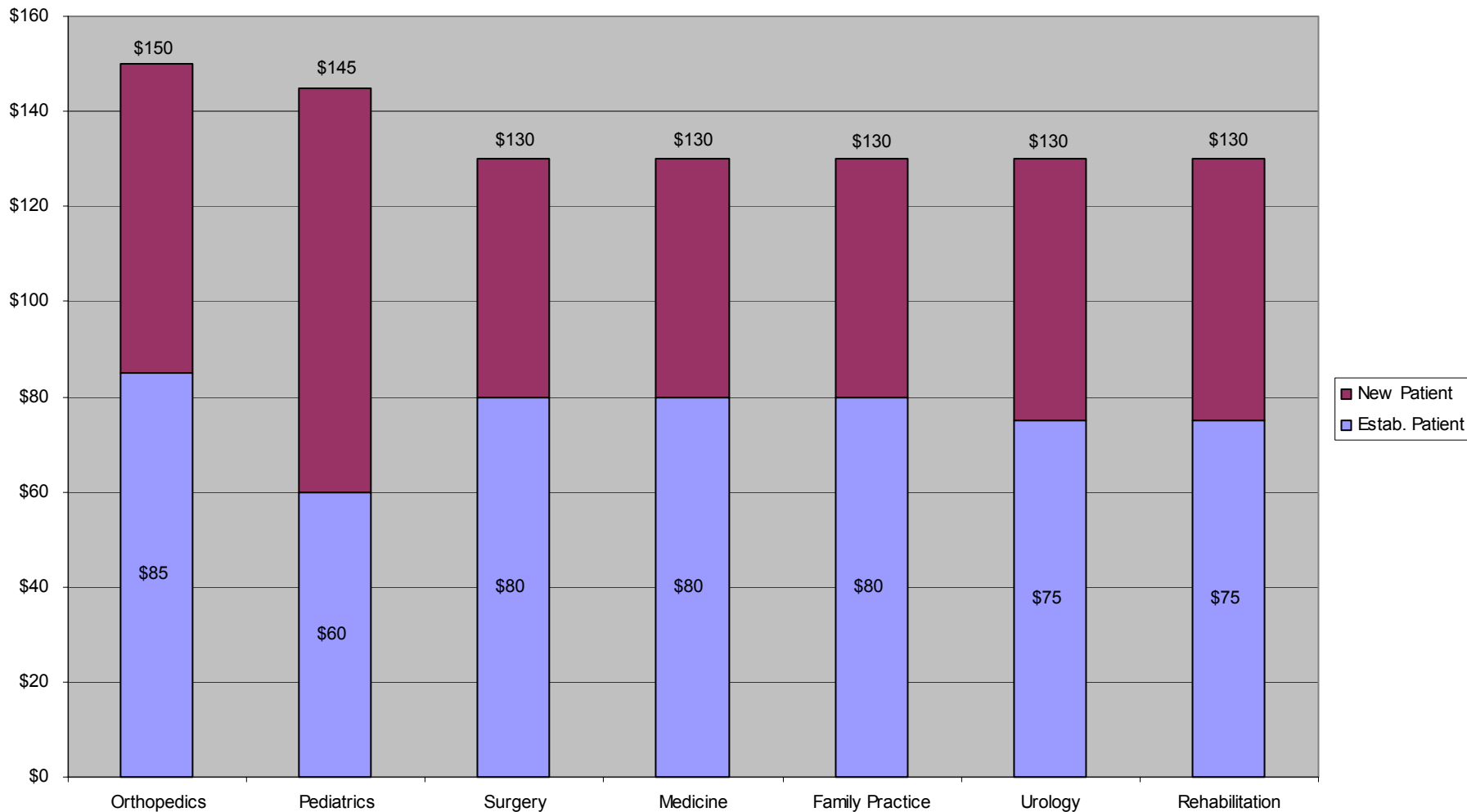
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Product Market Definition Issues: Specialties

To what extent do different specialties compete?

- Examples
 - Family practice and obstetrics or pediatrics
 - Neurosurgery and orthopedic surgery
 - Interventional radiology and cardiology
- Relevant questions
 - Urban vs rural geographic area
 - Specialists often reluctant to locate to area with low population density
 - Rural population (patients) more tolerant of generalists
 - Local practice patterns
- Evidence
 - Views of managed care in constructing physician panels
 - Referral patterns
 - Hospital and health plan board certification requirements
 - Variation in payment rates

Variation in Office Visit Fees across Specialties: Single Group Practice Example



Product Market Definition Issues: Allied Health Professionals

Are physicians and associated allied health professions complements or substitutes?

- Examples
 - Anesthesiologists and certified registered nurse anesthetists (CRNAs)
 - Obstetricians and midwives
 - Ophthalmologists and optometrists
 - Orthopedic surgeons and chiropractors
 - Primary care physicians and nurse practitioners
- Relevant questions regarding allied health professionals
 - Regulatory restrictions on scope of practice
 - Pharmaceutical prescribing authority
 - Supervision requirements
 - Insurance coverage
- May compete with physicians for subset of physician service mix and complement on rest

Product Market Definition Issues: Allied Health Professionals

- Evidence
 - Practice patterns
 - Collaborative relationship between physicians and AHPs suggests complementarity, e.g.
 - “Comanagement” of eye surgery patients
 - Employment of CRNAs by anesthesiologists
 - Fact: MD is seen in 96% of office visits (NAMCS) suggests that NPs do not often completely substitute for physicians
 - Attempts by AHPs to obtain hospital privileges and concomitant efforts by physicians to prevent such access suggests substitutability
 - Physician and patient acceptance of AHPs varies regionally
 - Market experience
 - Managed care views
 - Evidence of price competition
 - Different price levels not necessarily instructive

Geographic Market Definition Issues: Short-Run

- Definition: Existing supply of physicians in an area is fixed
- Extent of market largely depends on patient willingness to travel
 - Patients often more willing to travel for tertiary services
 - Similar to hospital care
 - Rural patients travel further than urban patients
- Physician willingness to travel is also relevant
 - Willingness to admit to multiple hospitals
 - Provision of occasional services may allow more extended travel
 - e.g. medical direction to dialysis clinic
- Few data exist to test these propositions

Geographic Market Definition Issues: Long Run

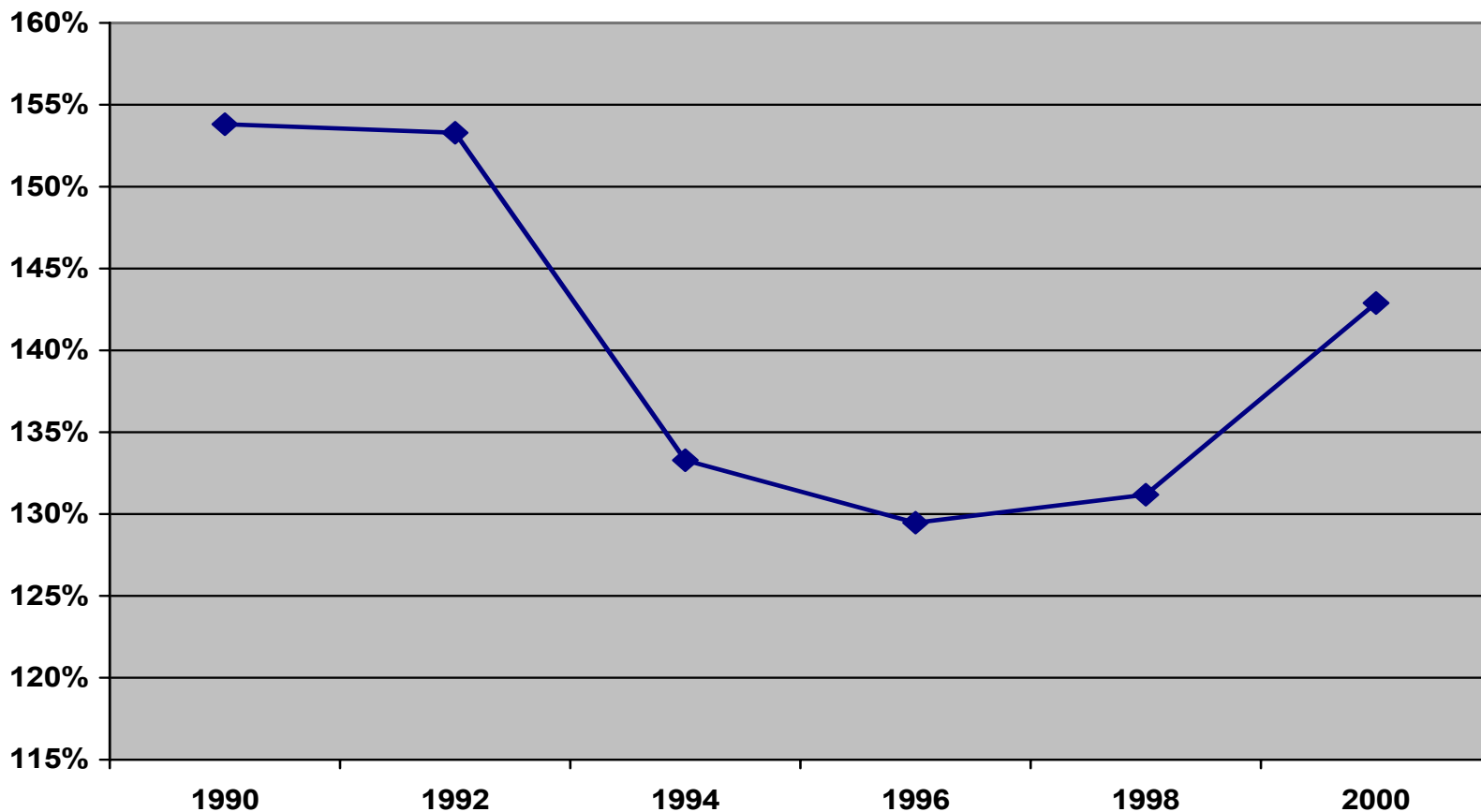
- Question is whether physicians will move to a geographic area if physician incomes start to rise from anticompetitive behavior
- Substantial systematic physician income disparity exists across regions
 - Research on physician location decisions suggests multiple non-financial factors affect physician geographic choices
 - Implication: physician recruitment may vary in difficulty across geographies
 - Urban/rural
 - Willingness of specialists to locate in less populated area depends on perception of available referral base
 - Region: MD incomes substantially lower in both coastal regions than in rest of country because more physicians prefer coastal locations

Long Run Determinants of Physician Supply

Market forces do work: Anesthesiology provides good example

- March 17, 1995: Front page Wall Street Journal Story Headline:
Numb and Number: Once a Hot Specialty, Anesthesiology Cools as Insurers Scale Back
 - Description of current job shortage for anesthesiologists attributable to decline in surgical procedures and projected further decline as managed care forced substitution of cheaper CRNAs
- Subsequent dramatic decline in number of anesthesiologists entering residency programs
- Today: general perception that excess demand for anesthesiologists exists
- Income pattern over time shows market equilibration

Trend in Anesthesiologists' Income (as percentage of all MDs) Shows Market at Work



Sources: AMA Socioeconomic Characteristics of Medical Practice, 1997; AMA Physician Marketplace Statistics, 1997/1998; AMA Physician Socioeconomic Statistics 2000-2002 and 2003 Editions. Median income data.

Analysis of Physician Fee Data: Issues

Discreteness of billing unit

- Standardization: Physicians bill using at least 7,000 “CPT” codes
 - Standardizing by Relative Value Units (RVUs) can help
- Many codes have multiple fees associated with them
 - Professional vs global fees based on setting
 - Modifiers on many surgical services

Billing/claims data not complete or “clean”

- Useful information often missing, e.g. physician specialty
- Unique physician identification numbers (UPINs) facilitate linking claims for single physician but difficult to identify members of same group
- Adjustments to initial claim submissions may be difficult to interpret

Sources of Physician Fee Data

Managed care plan data analyses

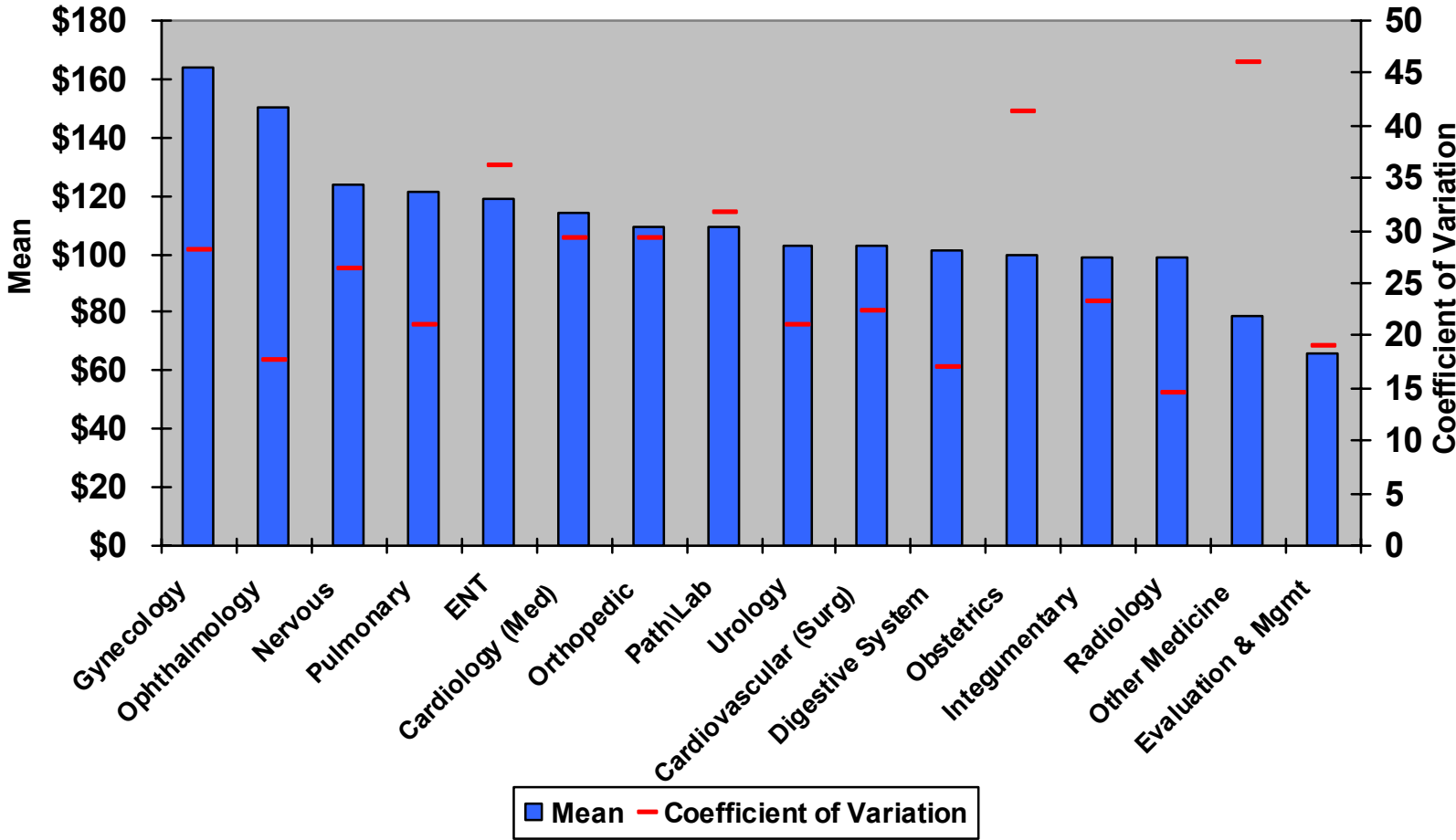
- Temporal: Has particular specialty or group can raised price substantially in short period of time?
- Geographic: Can MCO compare physician payments across areas?
 - Must still factor in variation in physician location preferences

Benchmarks (Publicly available)

- Medicare RBRVS
 - Geographic adjustment reflects practice cost differences
 - Likely not reflective of competitive equilibrium
- Medicode (Ingenix)
 - Percentiles of charges and “allowed indemnity” rates
 - Available for any zip code and CPT combination

Charges Per RVU – By CPT Grouping

Large Physician Group



Comparison of Median Charge/RVU and Percentile Ratios By CPT Code

Grouping: Large MD Group vs. MediCode

