Managing Biopharmaceuticals in the Private Health Insurance Sector

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James C. Robinson

Kaiser Permanente Professor of Health Economics Director, Berkeley Center for Health Technology University of California, Berkeley

OVERVIEW

- Zero sum and positive sum games
- Market strategies for manufacturers and insurers
 - Immunology example: Rheumatoid arthritis
- Appropriate utilization
 - Care management, companion diagnostics
 - Benefit design and consumer cost sharing
- Distribution and physician practice economics
- Performance-based pricing

Market Strategies: Biopharma and Insurers

- Are manufacturers and insurers engaged in a zero sum game in the market?
 - Zero sum: your gain is my loss, and vice versa.
 - Manufacturers favor premium pricing, extended patent protection, coverage without restrictions, no financial barriers for patients, favorable reimbursement for physician practices
 - Insurers favor commodity pricing, biosimilars, prior authorization, consumer cost sharing, reduced payments for distribution through physician practices

Can this be changed to a positive sum game?

 We both gain overall from playing, even if our interests diverge at times (zero sum sub-games)

Importance of Positive Sum Games in Biopharmacy

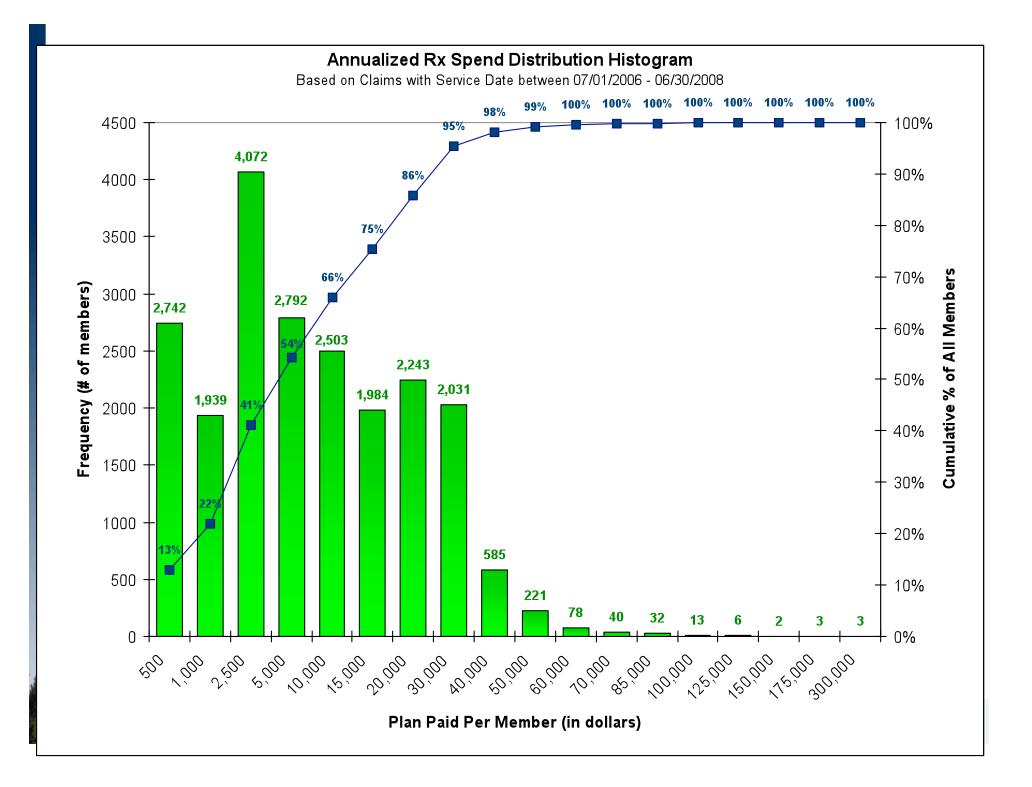
- Biologics offer major therapeutic benefits to patients, especially for those with most severe conditions
 - Cancer, auto-immune conditions, genetic illness
 - The biopharmaceutical sector is a valuable economic sector, building on science and technology, providing high-skill, high-wage, export-oriented jobs
 - High revenues are needed to fuel R&D and innovation
- Biologics are very expensive per patient and are rising at double-digit rates of expenditure growth
 - Cost growth is principal cause of un-insurance and under-insurance as well as strains on federal and state budgets
 - Health plans, both public and private, must manage cost growth trends as well as cost levels
- How to balance innovation and affordability?

Management Strategies for Private Insurers

- 1. Enhancing appropriate utilization
 - Prior authorization and early intervention
 - Care management: safety monitoring and patient education
- 2. Benefit design and consumer cost sharing
 - Tiered formulary for specialty drugs
- 3. Distribution and physician practice economics
 - Specialty pharmacy and buy-and-bill
- 4. Performance-based pricing

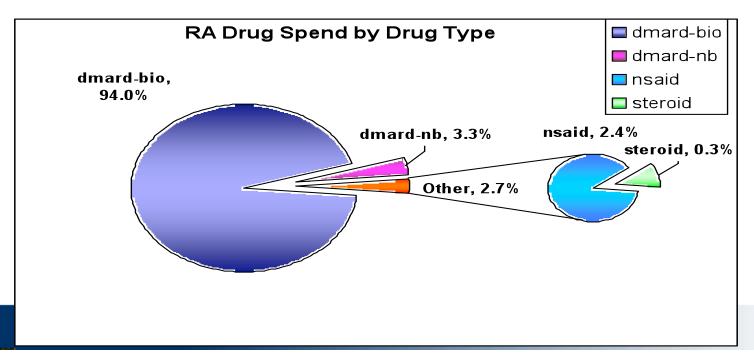
Rheumatoid Arthritis as an Example

- Major condition afflicting both seniors and working adults
- Major expenditure category for Medicare and employment-based insurance
- Significant medical costs and productivity costs
- Rapid introduction of effective but costly new biologics
- Multiple (branded, not biosimilar) products create emerging potential role for price competition, formulary strategies for biologics
- RA hence provides insight into the future evolution of the market for biopharmaceuticals for oncology and other major conditions



Top RA Drugs Utilized Based on Paid Service Date between 7/1/2006 – 6/30/2008

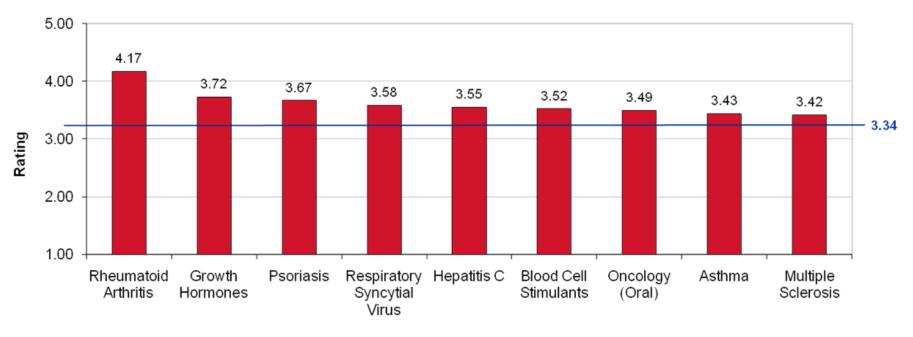
Drug	Paid	% of Paid	Mors	% of Mbrs
REMICADE	\$ 89,736,667	32.4%	2861	12.8 %
ENBREL	\$ 85,261,154	30.8%	4172	18.7 %
HUMIR A	\$ 61 ,731 ,384	22.3%	2987	13.4%
ORENCIA	\$11,423,856	4.1%	831	3.7%
RITUXAN	\$10,818,816	3.9%	528	2.4%
CELEBREX	\$ 4,015,979	1.5%	3055	13.7%
METHOTREXATE	\$ 3,213,967	1.2%	12283	55.1 %
LEFLUNOMIDE	\$ 2,766,610	1.0%	2532	11.4%
HYDROXYCHLOROQUINE	\$ 1,381,051	0.5%	5627	25.2 %
KINERET	\$ 990,552	0.4%	71	0.3%



Highest-Priority Therapy Categories



On a scale from 1 to 5, where 1=lowest priority and 5=highest priority, rate the priority to manage each drug category.



Therapy Category

Mean=3.34

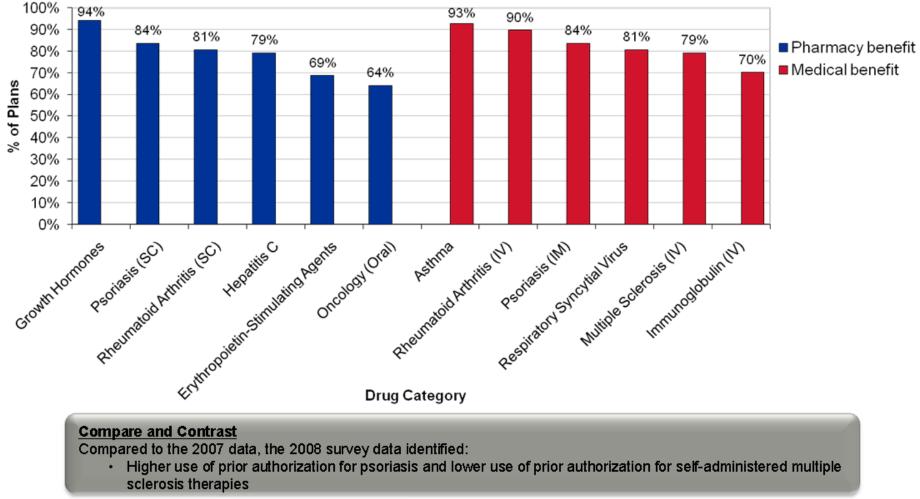
Enhancing Appropriate Utilization: Patient Identification

- The basic trade: manufacturers agree to help insurers contain use within evidence-based appropriateness, while insurers agree to help manufacturers identify patients who would benefit but are currently not on drug
- Cooperation on guidelines for appropriate use
 - FDA label, off-label: prior authorization
 - Severity: step therapy v. early intervention
 - Leapfrog over step therapy for early responders
- Companion diagnostic for early identification of patients who would benefit from treatment?

Prior Authorization Required by Drug Category



Indicate which of the following therapeutic classes/products require PA for coverage under each benefit.



Prior Authorization for RA in Private Insurance

- Criteria for coverage and payment to physicians and pharmacy
 - Diagnosis of RA made by specialists, not physician generalist
 - Drug authorization for RA (on-label use)
 - Step therapy: patient must have failed on 6 month of MTX + NSAIDs
 - During that time period, patient must have:
 - No decrease in number of swollen or painful joints,
 - No decrease in pain or disability,
 - No improvement in global assessment that includes patient activity/functional assessment, OR
 - Radiographic evidence of disease progression
 - OR patient cannot tolerate MTX due to documented side effects

Enhancing Appropriate Utilization: Care Management

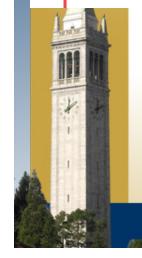
- All patients using high-cost and potentially toxic biologics should be in care management (CM)
- The basic trade: Insurers agree that a major goal of CM is to maintain continuance of therapy (as is often appropriate) by resolving financial barriers, adverse effects, convenience problems.
- Manufacturers agree that goals of CM also include safety monitoring, identifying patients who should discontinue therapy.

Accordant DM program

What Can Members Expect from the Accordant Program?

- Introductory inflationshame phone and from AHS sume
- Contarty condition-specific assessment calls
- A personal Disease Management runse
- Individualized interventions and conditionsequences advantage
- Antidance all comballan of cars and measure pools
- Physician (PCP and specialis) reflication interaction
- Manifer remaining on passed and restrict and condition-specific topics (dismaling scaling) and other educational antionial as meeted
- Access to develop quelle communities at presentation and
- 347 moments remainspecialists

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Cell Center is staffed Monday through Thursday, 8 AM to 10 PM EBIT.

CAREMARK Accordant

Disease Management Intervention Strategies

- Prende Baller Sof Hangemert Skills
 - Access, Education, Communication, Complexes
- Present Diverse Complications — Plac Stratty, Access, Marting, Pale
- Prendo Drug Bafely

 Education, Medianing, Compliance, Interactional Contrabulations
- Enhance Participant's Ability to Cope.
 - Prychesechi, Advance Directives, Oversenity Researces
- Provide "Bing-Healing" Behad or

فالملكة والمحاذ التطاعفي الجبر المستكلة المحدد بتهزة لاقت

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- Provide Gare Geardination



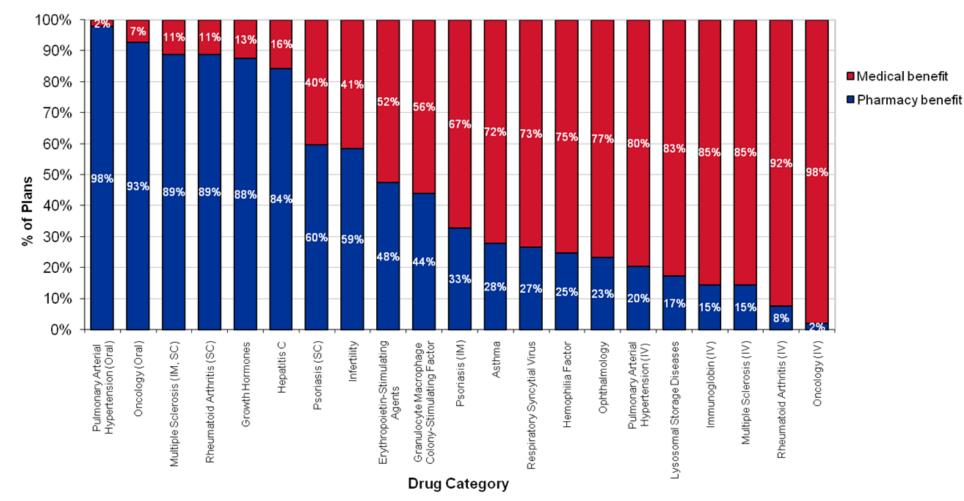
Benefit Design: Cost Sharing

- Consumers must be conscious of the cost of care, and cost sharing can guide appropriate choices
- But some patients avoid effective and cost-effective treatments due to cost-sharing
- "Value-based insurance design" (VBID) shifts cost -effective drugs to "tier" with lower cost sharing
- VBID for immunology biologics?
 - Complications: benefit design and cost share differ between office administered infused drugs (e.g., Remicade, Rituxan) v. self-administered injected drugs (e.g., Enbrel, Humira)

Benefit Coverage of Specialty Pharmaceuticals by Drug Category



Indicate the benefit under which each drug is typically covered for your most common benefit structure.

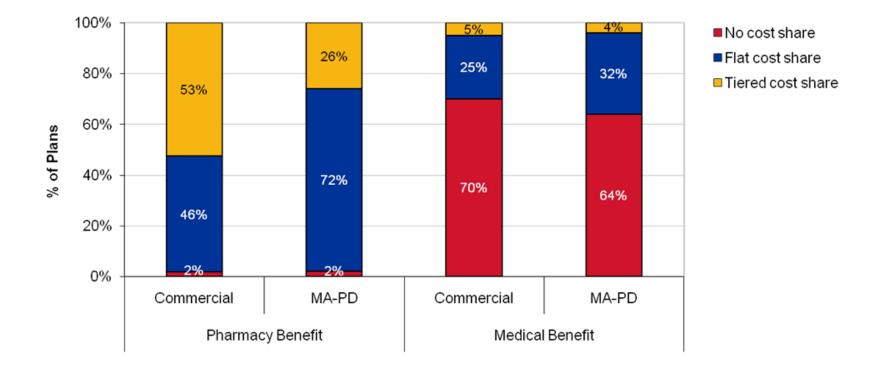


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Pharmacy and Medical Benefit Cost Share Methods



Describe the most common share methodology for specialty drugs covered under each line of business.



Employer Trends 2000-2008

Among Covered Workers with Three, Four, or More Tiers of Prescription Cost Sharing, Average Copayments and Average Coinsurance, 2000–2008

	:								:
	2000	2001	2002	2003	2004	2005	2006	2007	2008
Average Copayments									
First-Tier Drugs, Often Called Generic		\$8	\$9	\$9*	\$10*	\$10	\$11*	\$11	\$10
Second-Tier Drugs, Often Called Preferred	\$15	\$16*	\$18*	\$20*	\$22*	\$23*	\$25*	\$25	\$26
Third-Tier Drugs, Often Called Nonpreferred	\$29	\$28	\$32*	\$35*	\$38*	\$40*	\$43*	\$43	\$46*
Fourth-Tier Drugs	۸	٨	٨	٨	\$59	\$74	\$59	\$71*	\$75
Average Coinsurance									
First-Tier Drugs, Often Called Generic	18%	18%	18%	18%	18%	19%	19%	21%	21%
Second-Tier Drugs, Often Called Preferred	NSD	23%	24%	23%	25%	27%	26%	26%	25%
Third-Tier Drugs, Often Called Nonpreferred		33%	40%	34%*	34%	38%	38%	40%	38%
Fourth-Tier Drugs		^	^	^	30%	43%*	42%	36%	28%

SOURCE:

Kaiser/HRET Survey of Employer-Sponsored Health Benefits, 2000–2008.

* Estimate is statistically different from estimate for the previous year shown (p<.05).

^ Fourth-tier drug copayment or coinsurance information was not obtained prior to 2004. NSD: Not Sufficient Data.

Consumer Cost Sharing: The Basic Trade

- Insurer places a drug in tier with minimal cost sharing if:
 - The patient is an appropriate candidate (according to coverage criteria, prior authorization, companion diagnostic), and
 - The patient cooperates with care management program, and
 - The drug is obtain through appropriate distribution channel (e.g. specialty pharmacy) and physician practice, and
 - The drug is priced based on performance (see below)

Otherwise, drug is placed in tier with high cost sharing

Distribution and Physician Practice: The Basic Trade

- Manufacturer cooperates with insurer in moving practices from markups to specialty pharmacy (and/or B&B without big markup), good data capture, coordination of office administration with care management program.
- Insurer agrees not to design reimbursement and consumer benefits that discriminate against office administered drugs, and to raise professional fees to replace drug markups.

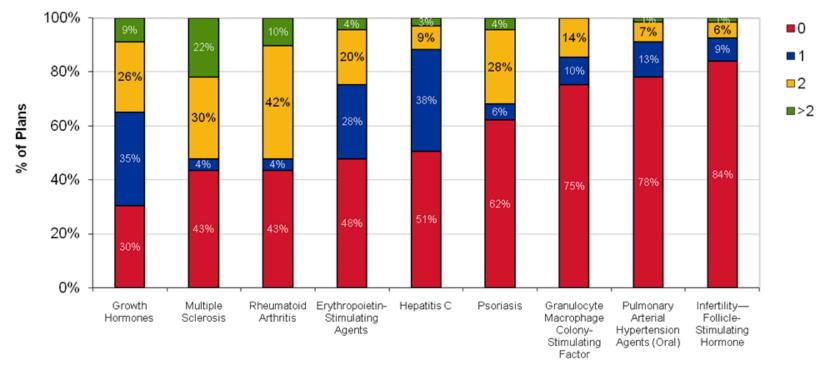
Performance-based Pricing

- Manufacturer's preference: list price, based on reference product price plus differentiator (V=R+D)
 - V=Value-based price
 - R=Reference product price
 - D=Difference between new and reference drug
- Without therapeutic substitution, manufacturer wins
- With widespread therapeutic substitution, insurer wins
- With limited but growing substitution, is there a trade?

Number of Preferred Products by Therapeutic Category



Indicate the number of preferred products for each of the following therapeutic classes/products.



Therapeutic Category

Performance-Based Pricing

- Performance-based price: P=R+D+E
 - P: <u>performance</u>-based price
 - R: <u>reference</u> price of lowest cost therapeutic equivalent, using comparative effectiveness studies to determine equivalence
 - D: <u>difference</u> between new and reference drug, updated with new evidence on efficacy, safety, patient experience
 - E: <u>efficiencies</u> from cooperation: criteria for appropriate use, care management, consumer cost sharing, distribution, physician practice support, data capture and analysis

Conclusion and summary

- Public policy is wavering between replacing and supporting market forces in health care
- Positive sum game for manufacturers and insurers: areas of potential cooperation
 - Patient identification and care management
 - Value-based insurance design and cost sharing
 - Distribution and physician practice support
 - Performance-based pricing P=R+D+E
 - Immunology as a leading example