







- Nixon era cost-containment initiative
- Major components
 - Established standards for federally recognized HMOs
 - Grants to start HMOs
 - Required firms w/ 25_+ employees to offer an HMO alternative to indemnity insurance (since repealed)
 - Limited many state restrictions on HMOs









Managed care models

- HMO
 - Provides care for enrolled patients for fixed fee per month
 - MD salaried
 - Assumes risk of over use. HMO has better incentive to monitor care
 - Types
 - Group collection of different groups provide all types of care
 - Staff model HMO hires the Docs, can only see doc on staff.



- IPA Independent practice association
 - Independent MDs who are strung together to provide care in HMO/PPO type arrangements
 - Patient care provided on a capitated basis
- POS -point of service
 - Strong financial incentives to use in network
 - can be HMO/PPO/FFS

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	Indemnity	Managed Care							
Dimension	Insurance	PPO	IPA/Network HMO	Group/Staff HMO					
Qualified providers	Almost all	Almost all (Net- work)	Network	Network					
Choice of providers	Patient	Patient	Gatekeeper (in network)	Gatekeeper (in network)					
Payment of providers	Fee-for-service	Discounted FFS	Capitation	Salary					
Cost sharing	Moderate	Low in network; High out of network	Low in network; High out of network	Low in network; High/all out of network					
Role of insurer	Pay bills	Pay bills; Form network	Pay bills; Form network; Moni- tor utilization	Provide care					
Limits on utilization	Demand-side	Supply-side (price)	Supply-side (price, quantity)	Supply-side (price, quantity)					



Research questions

- Use of services?
- Prices?
- Quality of care (measurable outcomes)?
- Spillovers into non-managed care sector?

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4 favorable	Finding	Number of findings	Studies
o HMOs	Fs	5	Chernew et al. 1998; Escarce et al. 1999; Potosky et al. 1997
٦.	Fs, ns	9	Every et al. 1998; Levinson and Ullman 1998; McCormick et al. 1999; Oleske et al. 1998; Oleske et al. 2000; Potosky et al. 1997; Riley et al. 1999 Shapiro et al. 1999; Soumerai et al. 1999; Spetz et al. 2001
U	F/M s, ns	0	
-	Fns	2	Kreindel et al. 1997; Lee-Feldstein et al. 2000
	Mixed	4	Kelleher et al. 1997; Obst et al. 2001; Roetzheim et al. 2000 (<i>Cancer</i>); Roetzheim 1999
_	Same	9	Holtzman et al. 1998; Levinson et al. 1998; Merrill et al. 1999; Oleske et al 2000; Philbin et al. 1998; Picken et al. 1998; Ray et al. 1998; Retchin et al 1997 (9 July); Spetz et al. 2001
17 unfavorable	UFns	3	Escarce et al. 1999; Lee-Feldstein et al. 2000; Mukamel et al. 2000
	UF/M s, ns	2	Retchin 1997b; Roetzheim et al. 2000; Roetzheim 1999
\prec	UFs, ns	5	Experton et al. 1999; Guadagnoli 2000; Ni et al. 1998; Roetzheim et al. 2000 (Cancer); Roetzheim 1999; Sada et al. 1998
	UFs	8	Erickson 2000 (19 April); Erickson 2000 (June); Escarce et al. 1999; Hadle and Mitchell 1997; Potosky et al. 1999; Schwartz et al. 1998; Smith et al. 1999
	Total	47	



inding	Number of findings	Studies	
Same	2	Flocke et al. 1997; Long and Coughlin 2001	
JFns	1	Newacheck et al. 2001	
JF/M s, ns	3	Reschovsky et al. 2000; Safran et al. 2000; Tudor et al. 1998	
JFs,ns JFs	3 2	Pina 1998; Safran et al. 2000 Gawande et al. 1998; Shi 2000	
^{Total} Clear pat	11 tern on satisfaction	n and preventative services	
Clear pat	tern on satisfaction	n and preventative services	
Clear pat	tern on satisfaction		
EXHIBIT Prevent	tern on satisfaction 6 Ion Findings: HMOs Con	mpared With Non-HMOs	
EXHIBIT Prevent Finding	tern on satisfaction 6 ion Findings: HMOs Con Number of findings	mpared With Non-HMOs Studies Caranguillo et al. 2001; Gordon et al. 1998; Potosky et al. 1998;	
Clear pat EXHIBIT Prevent Finding F s, ns	tern on satisfaction 6 ion Findings: HMOs Con Number of findings 7	mpared With Non-HMOs Studies Carracquillo et al. 2001: Gordon et al. 1998; Potosky et al. 1998; Postchorely et al. 2000: Weinick and Beauregind 1997	



- Compared with non-HMOs, HMOs had roughly comparable quality of care, more prevention activities, less use of hospital days and other expensive resources, and lower access and satisfaction ratings.
- Here is the kicker



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Cutler et al. (RAND)

- Look at HMO/non HMO
- Focus on two diseases
 - IHD ischemic heart disease (blockages of vessels supplying the heart
 Heart attack
- Forces to much greater degree similarity of patients in the two groups

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- State inpatient data census of hospital discharges
 - Larger sample but no outpatient data set

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TABLE 3 Heart Attack (AMI) Reimbursement and Treatment by Plan Treatment Regimen Average Reimburse-Average Reimburse Medical Cardiac Manage- Catheteriza-ment tion ment (Adjusted) ment (Unadjusted) Plar Angioplasty Average Reimbursemen Indem \$38,502 \$26,601 \$38,448 \$97,347 \$41,597 \$39,410 BC/BS PPO 26,483 [69%] 23,632 [61%] 16,318 [61%] 17,604 [46%] 55,826 [57%] 24,181 [58%] 22,836 [58%] нмо Treatment S Indemnity 63% 55 9% 12 12% 16 HMO 14 19 Big difference in Some difference in costs procedure use 21



	ounting for the Difference ease Patients	es in Costs for Heart
Factor	Acute Myocardial Infarction (AMI)	Ischemic Heart Diseas (IHD)
Indemnity—HMO	\$14,870	\$371
Difference Attributa	ble to	
Prices	\$16,596 [112%]	\$358 [96%]
Quantities	-2,309 [-16%]	22 [6%]
Covariance	583 [4%]	-9 [-2%]

Ανς	g. Annua	l Premi (2005)	ums, EF	PHI
	HMO	PPO	POS	Indem.
Single	\$3,768	\$4,152	\$3,912	\$3,780
Family	\$10,452	\$11,088	\$10,800	\$9,984
				24

(HIBIT 1.2 ercentage Incre	ease in F	Health I	nsuranc	e Premi	ıms, by	Plan Tyj	pe, 1988	-2006						
	1988	1993	1996	1999	2000	2001	2002	2003	2004	2005	2006			
Conventional	12.4%	9.1%	1.9%	6.0%	9.5%*	11.3%	13.8%*	14.3%	11.1%	5.0%*	8.4%			
HMO	8.4	7.7	-0.2	5.6	7.6*	10.4	13.5*	15.2	12.0*	9.4*	8.6			
PPO	20.3	7.2	1.0	5.4	8.5*	11.6	12.7*	13.7	10.9*	9.4*	7.3*			
POS	^	5.2	1.1	4.6	7.8*	9.9	12.2*	13.2	11.3	9.1	8.4			
HDHP/SO	^	٨	^	^	^	^	^	٨	^	^	4.8			
LL PLANS	12.0%	8.5%	0.8%	5.3%*	8.2%*	10.9%*	12.9%*	13.9%	11.2%*	9.2%*	7.7%*			
											25	25		