Capitation payment – international examples

As part of the development of payment approaches for Integrated Care, Monitor commissioned a review of some of the international examples of capitation payment. This research, supported by McKinsey & Company, has informed our thinking on how international models of care and payment approaches may hold relevant lessons for the NHS, ideas which we set out in our accompanying 'Capitation: a potential new payment model to enable integrated care'.

Although designed for, and used in, very different healthcare systems to the NHS in England, these examples may provide some helpful information for commissioners and providers.

Reference material that informed this research can be found on the Integrated Care and Support Exchange (ICASE). http://www.icase.org.uk/pg/cv_blog/content/view/151725/88206

A glossary of the acronyms used can be found at the end of the document.

Payment innovation case studies: summary of findings

	Pros	Cons		
Pioneer ACO Beacon Health	 Phased transition to full risk transfer with options for more limited risk-sharing 3-5 year planning and contractual cycle Forces cross-setting provider shared accountability 	 New model so long-term outcomes, and provider gaming strategies, unknown Capitation based on historic spend (rather than need) 		
Medicare Advantage ChenMed, CareMore, Kaiser Permanente	 Full transfer of downside risk Freedom for providers to innovate Adjusts for quality, case mix (at patient-level) and efficiency Uptake driven by patient choice 	 More costly than traditional fee-for-service model for Medicare beneficiaries (though this is currently being addressed) Drives 'up-coding' of patient risk factors 		
CareFirst	 Payer/provider gain-sharing Provides framework /incentives for specific elements of best practice Adjusts for quality, case mix (at patient-level) and efficiency 	 No transfer of downside risk (at least in the short/medium term) Capitation fee based of historic utilization (rather than need) Relative complexity 		
Valencia	 Full transfer of downside risk Freedom for providers to innovate Long-term contracts encourage investment in service improvements Less costly than traditional model 	 Unclear if Comisionado role adequately protects quality Long-term contracts create risks in case of poor performance 		
Knappschaft	 Upside gains shared between integrated care network, payer and patients Most sophisticated mechanism for calculating expected costs 	 No transfer of downside risk Quality monitored through KPIs only Ten year timeframe to develop effective mechanism to calculate expected costs 		

Payment innovation case studies: direct relevance to the NHS

	High level assessment	Rationale		
Pioneer ACO Beacon Health	√	 Gains are shared between the payer and the provider creating incentives to lower total costs to the system Spending is compared to a matched cohort to ensure that cherry-picking is not rewarded Population covered is elderly only (Medicare) 		
Medicare Advantage ChenMed, CareMore, Kaiser Permanente	*	 Gains are retained by the provider, so despite incentives to create savings, gains are not shared with the health system as a whole Capitation payments are risk-adjusted so high incentives to "upcode" patients 		
CareFirst	√	 Gains are shared between the payer and the provider creating incentives to lower total costs to the system Individual patient risk scoring is used to ensure that cherry-picking is not rewarded (though this system may create "upcoding" risks) 		
Valencia		 Services are put to tender with a requirement that bids are priced at a lower rate than average capitated spend to guarantee savings to the system Population coverage is defined by region so cherry picking is eliminated 		
Knappschaft	?✓	 Underlying care delivery model is very different to the NHS so may not be directly applicable here Risk equalisation method – used to define capitation amount and provide a standard from which to benchmark savings – may have more direct relevance 		

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- Medicare Advantage (ChenMed, CareMore, KP)
- CareFirst patient-centred medical home (PCMH)
- Valencia (Alzira/Ribera Salud)
- Knappschaft
- Other ACO innovation models

Beacon Health Pioneer ACO¹: Summary (1/2)

1 Context

- In 2011, CMS in the US published the regulations governing ACOs and authorised the first wave of Pioneers, which went live in 2012.
 The initiative developed out of the Medicare Shared Savings Program as a means to shift payment to capitated, shared savings model.
- Eastern Maine Healthcare Systems (EMHS) led applications for CMS Pioneer ACO designation for Bangor Beacon Community in 2011 (BBC has since changed its name to Beacon Health), with support from Geisinger of Pennsylvania
- Beacon Health aims to promote cost-effective care through care coordination and patient self-management by leveraging existing and establishing new health information technology and building on the existing care delivery model
- EMHS received a 3-year \$12.7m grant from the Office of the National Coordinator for health IT to support the BBC program in May 2012

2 Population and services

- Beacon Health covers
 ~22,000 Medicare
 beneficiaries with a specific
 focus on patients with long
 term conditions
- The Pioneer ACO programme covers Part A and Part B Medicare spend:
 - Hospital services and some long term residential care (Part A)
 - Primary, community and outpatient care including diagnostic and mental health services (Part B)

Payment approach

- All 9 participating hospitals that make up Beacon Health are jointly responsible for delivering services (and savings) under the Pioneer ACO programme
- Pioneer ACOs operate over 3 to 5 year period
 - Y1: upside-only
 - Y2: increased upsideand down-side risk
 - Y3: capitation and shared revenue from risk sharing contract
 - Y4&5: extension of Y3 if minimum savings achieved in years 1-3

Gain/loss sharing

- The ACO retains 50-70% of gains or losses dependent on:
 - Tenure ACOs take on increasing share of risk over time
 - Achievement of minimum savings thresholds (1-2.7% depending on ACO size and tenure) for Part A costs
 - Guaranteed discount threshold (3-6% depending on quality score) for Part B costs
 - Maximum savings cap
- CMS retains the remaining share of gains and losses

Contractual framework

- Pioneer ACO contracts run for 3 to 5 years (years 4 to 5 dependent on achieving minimum savings level in years 1-3)
- Pioneer ACOs are required to submit full claims data throughout the contract period (for monitoring purposes)
- Beacon Health is a legal entity made up of Eastern Maine Healthcare System (lead grantee in ACO application) alongside 9 hospital and 3 health center partners

Beacon Health Pioneer ACO: Summary (2/2)

6 Insurer landscape

 The Pioneer ACO model is only open to Medicare FFS beneficiaries so the insurer in all cases is CMS

7 Care delivery model

- Beacon Health ACO is made up of a consortium of partners including hospitals, primary and community care providers and medical practices (outpatients)
- Nurse care managers were added to each primary care practice to design care plans and coordinate care on behalf of patients
- 5 quality improvement initiatives were supported by investment in health IT:
 - Shared EHR
 - Integration of social and primary care
 - Home telemedicine
 - Performance management

8 Transition

- Beacon Health ACO grew out of the Bangor Beacon Community which was created to lead improvements in care coordination and quality of care
- EMHS was the lead organization behind both the BBC program and Beacon LLC
- ONC grant (for health IT)was received in May 2010
- Necessary health IT and clinical interventions were operation by September 2010
- Beacon LLC was designed a Pioneer ACO in October 2011 and became operational in January 2012

9 Enablers

- Integrated Electronic Health Record (across all settings of care including behavioural health and long term residential care), shared information system and analytics
- Nurse care manager role to coordinate care delivery of high-risk patients across a network of providers
- Clinical leadership through bi-weekly Care Manager Forums and Statewide Advisory Committee to share best practices
- Focus on continuous patient engagement through encouraged selfmanagement and Beacon Patient Advisory Group

10 Impact

- Improved outcomes in diabetes (45% decrease % patient with HbA1C >9) and chronic health failure patients (9% increase in % patients with BP <130/80) over the first 12 months of the programme.</p>
- Reduced healthcare utilization: both ED visits and hospital admissions decreased ~40% 12 months after intervention
- Beacon Health achieved 3% cost savings in its first three quarters as a Pioneer ACO, outperforming 25/32 peer providers

Scope of the Beacon Health Pioneer ACO

Size of population targeted

Description

- Bangor Beacon Community program affected 53.7k patients
 - 1,200 patients enrolled initially in primary care management model
- Pioneer ACO will initially focus on 22k Medicare beneficiaries but aim extend care delivery model to service all patient sub-populations

Geographic Scope

 Bangor hospital service area covers Piscataquis, Hancock, Waldo, and Somerset counties in Maine

Patient segments & pathways

- Clinical focus areas include diabetes, cardiovascular care, asthma, COPD, mental health, and immunizations
- Nonclinical focus areas include utilization and patient-report, measurement, disparities, and safety

Providers involved

- Eastern Maine Healthcare Systems is the lead grantee of the Bangor Beacon Community and initial applicant for CMS Pioneer ACO designation
- 3 hospital partners, Eastern Maine Medical Center, Inland Hospital, and TAMC (all part of EMHS) are involved in initial BBC program
 - Beacon LLC expanded to include total of 9 hospitals operating as Pioneer ACO
- 4 Federally Qualified Health Centers

The Pioneer ACO payment model has four core elements

Baseline expected spend

- Weighted average actual spend in last 3 years calculated at individual patient level:
 - 2010 x 60%
 - 2009 x 30%
 - 2008 x 10%
- 2008 and 2009 trended forward to 2010
- Adjusted for national growth rates for a matched cohort of non-ACO Medicare FFS beneficiaries:
 - 50% of percentage change
 - 50% of absolute value change
- Set prospectively but adjusted for legislative or regulatory changes that would affect spend
- Rebased for contract years 4 and 5 based on spend data for 2011, 2012 and 2013

Minimum savings rate (MSR)

- Defines the level of savings that an ACO needs to achieve to become eligible for upside gains-sharing
- Varies by year of contract
- Adjusted by size of ACO patient panel in some contract types
- Guaranteed Medicare savings rate applies in some contract types which is tied to the quality score (the higher the quality, the lower the level of savings required)
- Meeting defined minimum savings thresholds is a prerequisite for contract extension beyond 3 years

Degree of risk-sharing

- ACOs can choose between one-sided and two-sided risk-sharing options and level of exposure
- Percentage loss/gain applies to all spend above/below baseline expected spend provided minimum savings threshold is met (except where a guaranteed savings discount applies) up to the maximum savings/losses cap
- Incremental increases in degree of risk-sharing for each of first 3 years of ACO contract

Risk-sharing cap

- Defines level at which Medicare reassumes risk for gains/losses
- Set as a percentage of total health spend (e.g. the ACO may share up to x% of savings/losses versus baseline expected spend provided these do not exceed y% of total spend)
- Varies by contract type and year of contract

SOURCE: CMMI 8

CMS offers five Pioneer ACO contract model options

	Year 1	Year 2	Year 3	Year 4	Year 5
Pioneer Core	60% 2-sided risk sharing10% cap1% MSR	70% 2-sided risk sharing15% cap1% MSR	 If 2% ave. savings achieved in Y1 & Y2: Prospective payment of ≤50% of baseline (Parts A and B) Risk, cap and MSR as Y2 If savings not reached, as Y2 	Termination optionRebasing of baselineAs Y3	• As Y4
Pioneer Option A	50% 2-sided risk sharing5% cap1% MSR	60% 2-sided risk sharing10% cap1% MSR	 If 2% ave. savings achieved in Y1 & Y2: Prospective payment of ≤50% of baseline (Parts A and B) Risk, cap and MSR as Y2 If savings target not reached, as Y2 	Termination optionRebasing of baselineAs Y3	• As Y4
Pioneer Option B	70% 2-sided risk sharing15% cap1% MSR	75% 2-sided risk sharing15% cap1% MSR	 If 2% ave. savings achieved in Y1 & Y2: prospective payment of ≤50% of baseline (Parts A and B) Risk, cap and MSR as Y2 If savings target not reached, as Y2 	Termination optionRebasing of baselineAs Y3	• As Y4
Pioneer Alternative 1	 50% 1-sided risk sharing 5% 1-sided cap 2-2.7% MSR¹ 	70% 2-sided risk sharing15% cap1% MSR	 If 2% ave. savings achieved in Y1 & Y2: Prospective payment of ≤100% of Part B baseline Full risk for Part B less 3-6% guaranteed discount² Part A risk, cap and MSR as Y2 If savings target not reached, as Y2 	Termination optionRebasing of baselineAs Y3	• As Y4
Pioneer Alternative 2	 60% 2-sided risk sharing 10% cap 1% MSR 	70% 2-sided risk sharing15% cap1% MSR	 If 2% ave. savings achieved in Y1 & Y2: Prospective payment of ≤100% of Parts A and B baseline Full risk for Parts A and B less 3-6% guaranteed discount³ If savings target not reached, as Y2 	Termination optionRebasing of baselineAs Y3	• As Y4

Definitions: MSR = Minimum Savings Rate; Part A relates to hospital expenditure; Part B relates to out-of-hospital expenditure

¹ Level varies by size of patient panel. In this option, gains-sharing applies only to savings above the MSR.

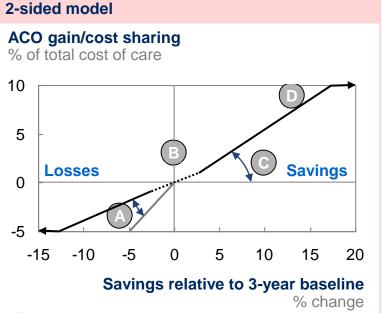
² Level varies by quality score (the higher the quality score, the lower the required discount) SOURCE: CMMI

Comparison of one and two-sided risk sharing options

ILLUSTRATIVE



- A No downside risk
- B No gain sharing until Minimum Savings Rate (MSR) achieved (varies from 2.0 to 2.7% based on ACO size)
- ACO shares 0 to 50% of savings (above 2%), depending on quality performance¹
- Cap on gain sharing is 7.5% of Cost of Care (reached at ~17% gross savings, assuming distinctive quality performance)



- A ACO shares 40–100% of losses, depending on quality performance²
- B Share of losses (or gains) begins to accrue from first dollar saved, but pays out only if greater than 2%
- ACO shares 0 to 60% of savings (from first dollar), depending on quality performance¹
- D Cap on gain sharing is 10% of Cost of Care (reached at ~17% gross savings, assuming distinctive quality performance)

Beacon Health delivers coordinated care by nurse care managers

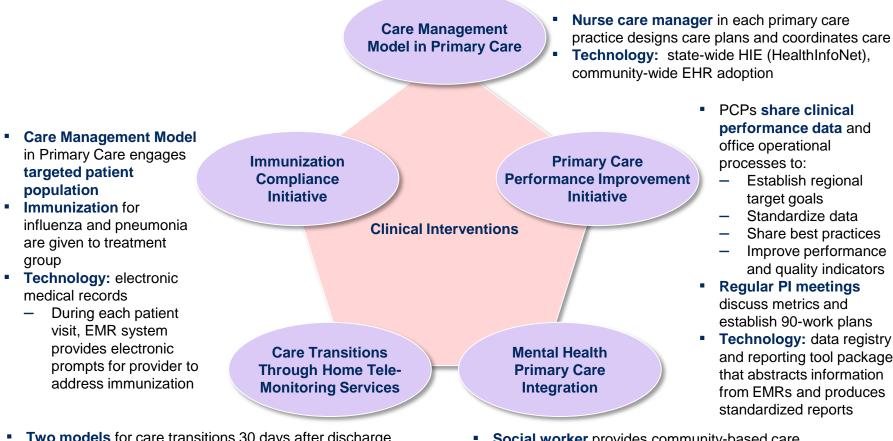
Care delivery process

Patient ID/enrollment Initial assessment Care plan Monitor/outreach **Ongoing care** PCP takes clinical Nurse care manager Telemedicine allows Patients are Identify high risk/high cost chronic develops care plan remote monitoring encouraged to selflead conditions patients Utilizes and updates Coordinates care -Patients upload manage chronic state-wide health team when health vitals daily condition, as per in-(diabetes, CHF, COPD, asthma) with: information -Alerts are sent to clinic education necessary -At least one exchange, Mental health care Nurse care nurse care hospital HealthInfoNet management manager managers are available for admission, ED, Nurse care manager Nurse care manager team Home health provide telephone telephone non-urgent assesses need to care/walk-in care involve other clinical consultation and consultation when services visit due to staff or care team - Inpatient care health coaching needed condition in last Dispatches relevant management 6 months care team when team -Other disease-In-clinic patient necessary specific education is provided by the nurse care measures manager Addition of nurse care managers is the key operational change supporting the new care delivery model

Technology integration

- Community-wide HIE provides care transition infrastructure between hospitals and primary care practices, providing real-time information to care managers on admissions and emergency department visits
- EHR adoption across the region includes standardized data collection through care manage encounter forms
- Secure e-mail connects providers, nurse care managers, and patients

Clinical transformation takes place through five targeted initiatives, each supported by IT infrastructure



- PCPs share clinical performance data and office operational
 - Establish regional target goals
 - Standardize data
 - Share best practices
 - Improve performance and quality indicators
- Regular PI meetings discuss metrics and establish 90-work plans
- **Technology:** data registry and reporting tool package that abstracts information from EMRs and produces standardized reports

- Two models for care transitions 30 days after discharge
 - Nurse care manager + remote monitoring
 - Nurse care manager alone
- Care team follows hospital discharge instructions
- Technology: Philips remote monitoring tele-health solutions
- Social worker provides community-based care management
 - Oversees psychiatric and clinical care
 - Manages access to social aspects
- **Technology:** Text messaging provides remote support

Health information technology is a crucial enabler for extension of the primary care workforce

1. Enhancing health information technology infrastructure

- Broadening reach of HealthInfoNet, statewide health information exchange
- Connecting major health systems, mental health facilities, LTC facilities, homecare, FQHCs
- Adding functionality to send notifications to provider or care manager
- Integrating mental health data in HealthInfoNet

2. Care coordination through extension of PCP workforce

- Expanding reach of primary care through a network of technologysupported nurse care managers
- Managers utilize electronic health records to capture and access and track patient information and monitor patients via electronic home monitoring
 - Enhancing performance improvement efforts of PCPs through sharing clinical performance data and office operational processes
 - Participants extract and share performance reports from practice EHR, which are stratified by region

3. Test mobile health innovation

- mHealth: Exploring ways to extend the reach of care coordinators to patients by using remote monitoring technology to monitor patients after release from hospital to reduce avoidable readmissions
 - Providing texting support to mental health patients
- Telemonitoring project: Care team tracks patient vitals on a daily basis through devices such as automated medication dispensers and other monitors
 - Homecare agencies and care coordinators collaborate to monitor patients at home and collaborate to identify warning signs
 - Care coordinators have been able to telephonically do medical reconciliation with the patients and homecare nurse

Beacon Health addressed a range of key success factors



Organisation and Accountability



Clinical leadership and culture development



Information sharing



Aligned incentives



Patient engagement

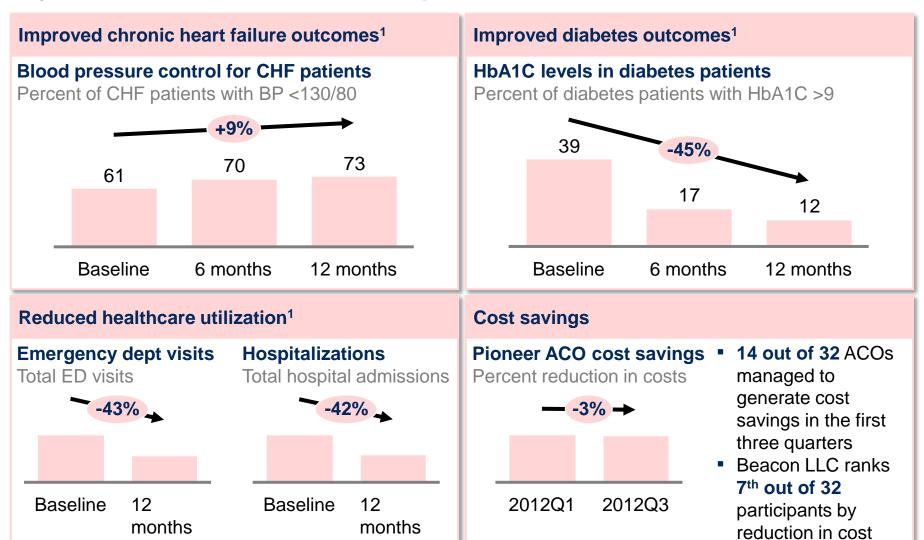
Summary of key elements

- Nation-wide Beacon community programs share general design
- EMHS was lead ONC grantee and the initial Bangor health system recognized as an CMS Pioneer ACO
- Effective use of leadership groups
 - Care Manager Forums are held bi-weekly and address issues of communication, technology, and process barriers
 - Statewide Advisory Committee shares best practices
- Maine already used statewide health information exchange system, HealthInfoNet
- Increased functionality of EHR, clinical data sharing capabilities, and telemedicine initiatives were enabled by ONC's \$12.7m grant
- ACO structure is utilized to provide financial sustainability by holding provider accountable for total care costs
- ONC grant funded many improvement initiatives
- Continuous patient engagement is ensured through in-clinic patient education, at-home consultations, and encouraged self-management
- Bangor Beacon Patient Advisory Group provides

Beacon Health took 18m to establish and achieve Pioneer ACO status

December 2009 September 2010 Mid-2011 May 2010 January 2012 January 2013 Office of the National Coordinator for BBC publishes **Annual** Development of Health Information Report 2012: quality and the HIT Technology performance infrastructure: announces \$235 improvements in the final third party million in grants to **Throughout 2011:** year of the Beacon project companies were advance specific Roll out of nurse care contracted to act as health manager training Year 1 as Pioneer ACO a centralized data improvement concludes with cost repository for goals through **August 2011:** savings program interoperable **Immunization** Expands to 9 hospitals, participants health IT and initiative kicks off covering 22,000 lives Year 1 as Pioneer ACO information Practice Level begins, with 3 hospitals **exchange** through At ONC Annual Conference. **Performance** and and 9.400 covered lives establishment of Maine received Meaningful Care Management Beacon Community October 2011: **Use Acceleration Maine** model initiatives Program EMHS was notified of **Award** kicks off and successful produces first application and provider reports designation as a EMHS receives CMS Pioneer ACO **\$12.7m grant** to as Beacon LLC become 1 of 17 Beacon Communities nation-wide

In year one, Beacon Health has improved outcomes and reduced costs



¹ Results exclude patients loss to follow-up (16.3% of patients of total enrolled patients at six months; another ~22% at 12 months). Primary reasons for loss: death, unable to contact patient, patient discharged from practice for compliance issues, patient in skilled nursing facility, patient unable to comply with protocol

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Medicare Advantage: Summary (1/2)

1 Context

- Since 1965, Medicare has provided health care coverage for US senior citizens (65+). It is available in two main forms:
 - "Traditional" **fee-for-service model (FFS)** where the beneficiary is covered directly by the state Medicare programme
 - Medicare Advantage (MA) capitation-based model where private insurers are partially subsidised by government to provide health care cover for Medicare eligible people, and consumers have a free choice of plan (or can opt for traditional Medicare)
- MA is not explicitly designed to reimburse integrated care (versus other types of care), but creates incentives for integration through transfer of risk to the insurer/provider

2 Population and services

- ~25% of Medicare-eligible population (65+ years) enrol in MA plans (11m in 2010)
- MA insurance plans cover:
 - Hospital services (IP/OP)
 - Primary care
 - Mental health
 - Residential and hospice care, and home care¹
 - Prescribed medicines¹
 - Supplementary services¹
- Co-pays, premiums and deductibles vary by plan and eligibility status

3 Payment approach

- Annual bidding process among payers conducted at regional level
- Bidders submit a base capitation rate² which is compared to a regional benchmark (prior year's rate + inflation) and then either fully or partially subsidised:
 - If > benchmark, customer pays delta as premium
 - If < benchmark, CMS and insurer share delta 25:75
- Capitation is adjusted by:
 - Individual patient-level risk score
 - Plan quality score
 - Regional efficiency cap

4 Gain/loss sharing

- Provider retains profits subject to proposed profitability rebates
- Provider can purchase reinsurance to protect against losses
- System (CMS) retains 25% of delta between regional capitation benchmark and capitation bid if bid is lower than regional benchmark rate

5 Contractual framework

- Bidding process is annual
- An insurer offering an MA plan may contract with an independent physician association (e.g. ChenMed) to deliver care on a riskbased contract. There are three broad models:
 - Indicative capitated budget for limited spectrum of services
 - Indicative capitated budget for broad spectrum of services
 - Capitation with full budgetary transfer

1 Subject to limitations which vary by plan 2 For an individual with 1.0 risk score SOURCE: team analysis

Medicare Advantage: Summary (2/2)

6 Insurer landscape

- Insurers offer a range of different Medicare Advantage plans:
 - Integrated delivery networks and HMOs, e.g. Kaiser Permanente, Geisinger
 - Preferred provider organisations (PPO) e.g. Blue Cross Blue Shield
 - Private fee-for-service providers: e.g. Humana, United Health
- Although bidding process takes place at county-level most insurers are national players offering similar products across multiple regions

7 Care delivery models

- MA has led to the emergence of one-stop-shop integrated care providers motivated by the potential to profit from more efficient care delivery
- Some providers are focused on out-of-hospital care including outpatients and full diagnostics:
 - ChenMed
 - CareMore
- Other providers offer a fully integrated service across all care settings:
 - Kaiser Permanente
- Other providers cover all settings of care but patients can may also use other secondary care providers:
 - Geisinger

8 Transition

- When bidding introduced in 2006, MA rates were set at premium to FFS spend to attract players to the market
- By 2009, MA costs were 12-14%¹ above Medicare FFS
- From 2011, cost containment measures have been introduced aiming to establish cost-parity between MA and FFS Medicare:
 - Inflation increase reduced to 0.8% in 2010, 0% in 2011; but returned to historic averages (3-3.5%) by 2014
 - Capitation rates adjusted relative to county quartile FFS costs
 - Rebates for profitability proposed

9 Enablers

- Many providers (ChenMed, CareMore, Kaiser, Geisinger) employ a common set of enablers:
 - Integrated Electronic Health Record, information system and analytics
 - Rigorous performance management
 - Regular and thorough peer review and audit
 - Evidence-based protocols

10 Impact

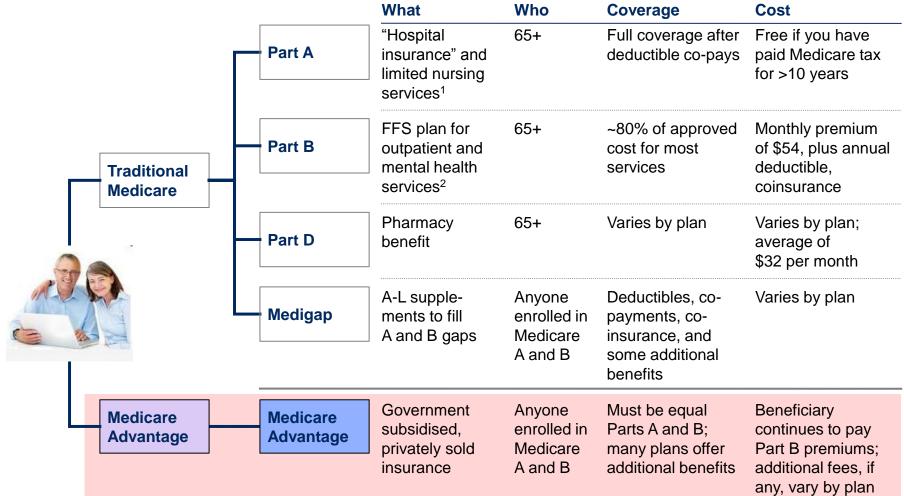
- ChenMed: 38.2% lower hospital bed days, 2011; 18% lower hospitalization rate and 17% lower readmissions rates compared to national averages for patient group (annual, year not reported); average Net Promoter Score of 92 in 2011 (30% of patients surveyed each day)²
- CareMore: Total member costs 18% below national average for patient cohort; hospitalization rate 24% and length of stay 38% below national averages; amputation rate for people with diabetes 60% below national average³. All measures for 2011 (one year).
- Note on savings: these are measured to relative Medicare FFS costs, but savings are retained by the provider (not returned to CMS)

¹ On a risk-adjusted basis this is estimated at 4% (but note the incentive to over-code for risk in MA plans)

² Health Affairs, 32, no.6 (2013):1078-1082; ChenMed website; Concierge medicine for the poorest, Forbes, 23/02/12

³ AHRQ Innovations Exchange; Health Affairs 28(5), 2009

The Medicare Advantage programme delivers publicly-subsidised, privately-managed and delivered health care for people aged 65+ years

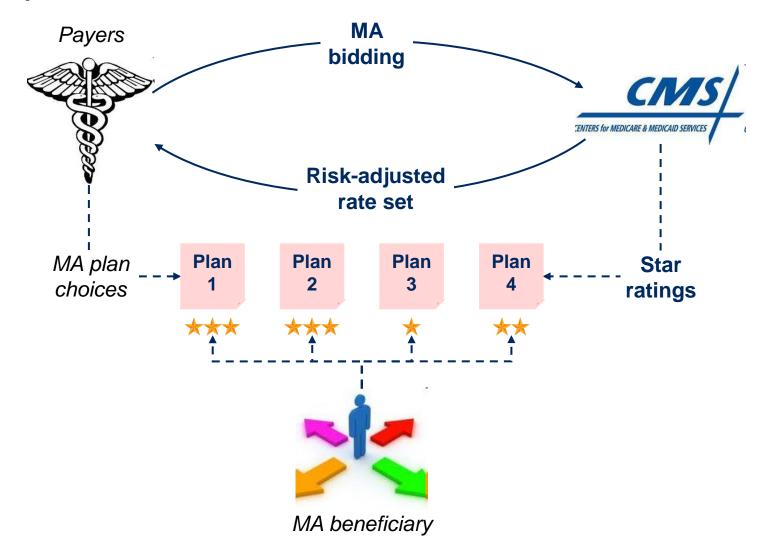


Source: AARP

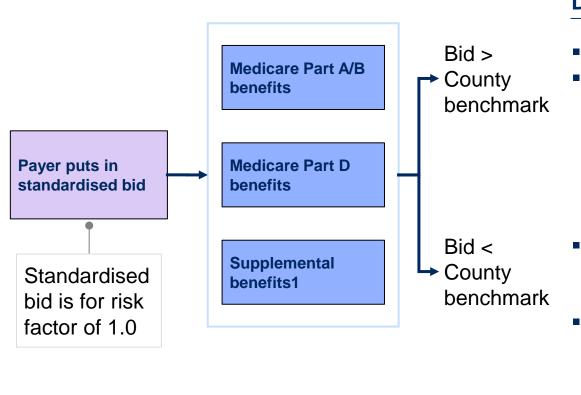
¹ Includes limited coverage for nursing homes, home-health-agency care, hospice care, inpatient psychiatric care, and blood transfusion

² Includes doctors' services (not routine physical exams), lab fees, medical equipment, and some prescription drugs

Overview of Medicare Advantage bidding, rate setting, and quality ratings processes



The mechanics of the bidding process



Description

- CMS pays the benchmark
- Difference between bid and benchmark is paid by the beneficiaries in terms of premiums
- CMS splits the savings with the plan (savings = benchmark ⊕ bid)
- 25% of the savings is retained by CMS; rest is "rebate" which can only be used to expand benefits or reduce enrollee costs/premiums

22

1 Examples include dental, vision

Source: CMS Web site; AHRQ Web site

The bidding mechanism has led to average MA fees which are consistently 12-14%¹ higher than traditional Medicare FFS costs

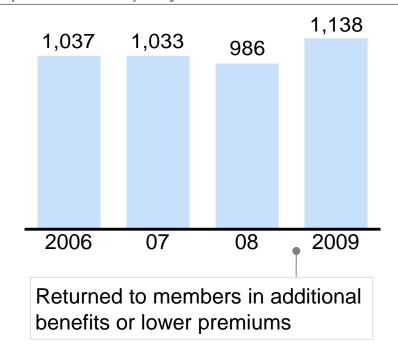
Current bidding methodology

- County-level benchmarks based on prior year's MA county-payment rate, increased by projected national growth rate in per capita Medicare spending
 - Initial benchmarks set at a premium to Medicare FFS to attract private plans to the market
 - Rural areas receive higher payment to promote network growth
- If plan's bid is higher than benchmark, enrollees pay difference in the form of monthly premium
- If plan's bid is lower, plan receives 75% rebate, all of which must be returned to enrollee in the form of additional benefits or reduced premiums

Comparative reimbursement levels

Average extra payment per Medicare Advantage member versus traditional FFS Medicare

\$ per member per year



¹ Commonwealth Fund analysis suggests that MA costs may exceed traditional MA costs by only 4% when fully adjusted for risk (but note that MA schemes have an incentive to over-code for risk)

CMS payments are adjusted for risk using demographic data and predicted health status

Basics of risk adjustment

- CMS Hierarchical Condition Category (CMS-HCC) uses both demographics and beneficiaries' predicted health status to determine the risk factor
- Demographic parameters have less weight. Include
 - Age
 - Sex
 - Medicaid coverage
 - Disability eligibility status
 - Institutional status¹
- CMS-HCC uses a predictive model, 70 disease categories (long-term), and 3,100 diagnosis codes to determine the risk factor

Example of how risk adjustment works

Example: A 75-year old male who lives on his own in Douglas County and who was originally entitled to Medicaid then became eligible for Medicare due to disability. longterm conditions include diabetes with complications and

CHF	PMPM cost
Total county rate	\$691.7
County rescaling factor	1.0431
Rescaled county rate	\$721.5
Beneficiary risk score	
75-year old in community	0.57
Medicaid male, aged	0.18
 Originally disabled 	0.14
HCC:15 diabetes	0.39
HCC: 80 heart failure	0.41
 Disease-interaction factor 	0.25
Total beneficiary risk- adjustment score	1.97
Net risk-adjusted payment	\$1,421.5

¹ Refers to whether a person has been diagnosed and approved as eligible for long term care services (e.g. residential care)

The CMS-HCC risk adjustment method aims to eliminate the shortcomings of previous methods

Objectives of the CMS-HCC model

 Promote fair payments to MCOs that reward efficiency and care for the chronically ill by redirecting money to them and away from the MCOs that cherry pick the healthy patient population

Variables used in the CMS-HCC model

- Demographic factors: Age, sex, working status, Medicaid coverage, disability eligibility status, and institutional status
- Predicted health status based on diagnoses that appear in Medicare claims the prior year
- For new enrollees who did not have 12 months of Part B eligibility in the preceding calendar year, rates are based on age, sex, Medicaid status, and original reason for Medicare entitlement (disability or age); not on diagnoses

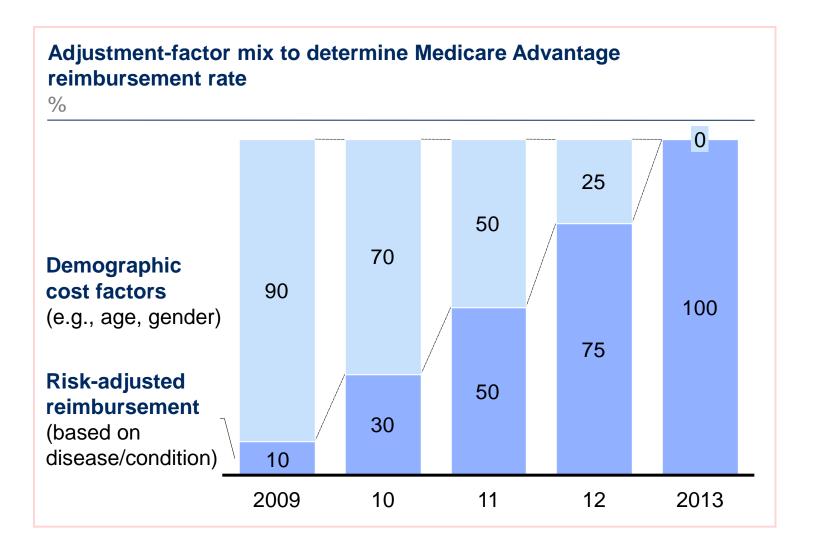
CMS auditing process

- CMS conducts coding, not clinical audits
 - CMS requires that the physician has established the diagnosis in the medical record and the coders have recorded in compliance with ICD-9-CM rules
 - Clinical verification via diagnosis tests will not be required

Shortcomings of previous models used

- Capitation payments tied to FFS, set against the average per capita cost (AAPCC)
 - Research showed that Medicare program enrollees were healthier than FFS enrollees and AAPCC did not account for the favourable selection
- PIP-DCG model as a health-based payment adjuster
 - Relied only on illnesses that resulted in inpatient admissions not accounting for MCOs that reduce admissions, which may end up with lower payments
- DCG-HCC model precursor to today's model
 - Burdensome data-collection need
 - Tended to "underpredict" for the most expensive/often hospitalised beneficiaries

From 2009 to 2013, the MA risk adjustment method transitioned from a demographic to a disease basis



Source: CMS; team analysis

Risk-adjusted MA capitation rates can results in very high individual rates

ESTIMATES SIMPLIFIED EXAMPLE

Example calculation of monthly capitation rate for MA plan, based on beneficiary risks, 2006

Example: 70-year-old female with diabetes with renal manifestation (not renal failure), CHF, and major depression; considered disabled, though not originally disabled; not on Medicaid; living in the community in Autauga, AL

Health risk factor		Health risk model rate			
	Female, 70 years DM with renal CHF Depression DM and CHF	0.773 0.764 0.417 0.431 0.253	→	Part A rate Part B rate Rescaling factor Total factor	342.11 367.22 1.0493399 2.638
	Total factor	2.638		Total	\$1,952.42

Demographic model rate 342.11 Part A rate × Part A factor 0.7 Part B rate 367.22 × Part B factor 0.85 \$551.62

Total

2006 monthly payment

75% of \$1,952.42 + 25% of \$551.62 = Total monthly blend payment of **\$1,602.22**

Annual capitation rates can easily exceed \$20k/beneficiary

CMS assigns a star rating to each MA payer to help consumers make informed decisions

Criteria/measures that serve input ...

- CMS assists beneficiaries to make the "best choice" by providing them with star ratings for each plan
- Star ratings are determined using following data inputs
 - CMS data on quality and member satisfaction
 - Medicare HEDIS scores
 - CAHPS (Consumer Assessment of Health Care Providers and Systems)¹
 - HOS (health of seniors)
- Individual measures are also adjusted for patient characteristics

... to the CMS star ratings



- Each MA plan is assigned a star rating based on its respective scores on the input criteria.
 5 stars represent the highest quality plan
- Average star rating for the MA plans is 3.27
- FFS plans are likely to be missing data and hence typically do not have star ratings

Source: CMS Web site; AHRQ Web site

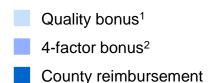
¹ Standardised surveys of patients' experiences with ambulatory and facility-level care

Quality star ratings are also used to determine reimbursement bonuses for MA plans



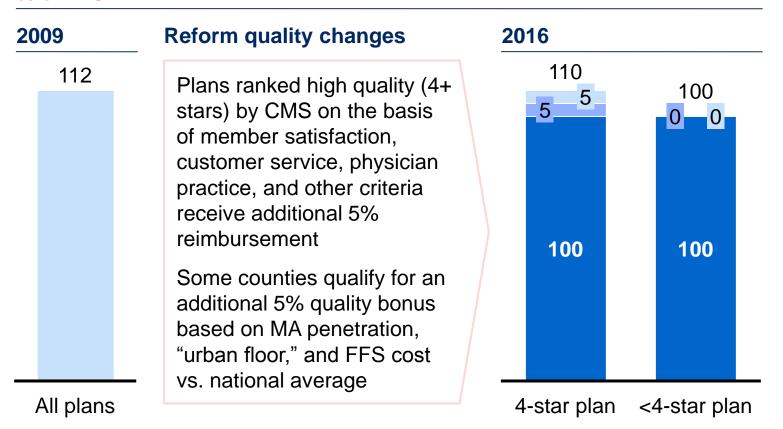
- Plans in qualifying counties will also have an opportunity to receive double bonus
 - "Qualifying counties" have 25% or more MA penetration and have an FFS rate lower than the national FFS per capita rate
- High performers will also get rebates, CMS to provide additional benefits (e.g., a
 4.5-star plan will receive 70% rebate compared with only 50% for a 3-star plan)

The value of the quality rating will increase incrementally to 2016



MA plan reimbursement levels for an example county

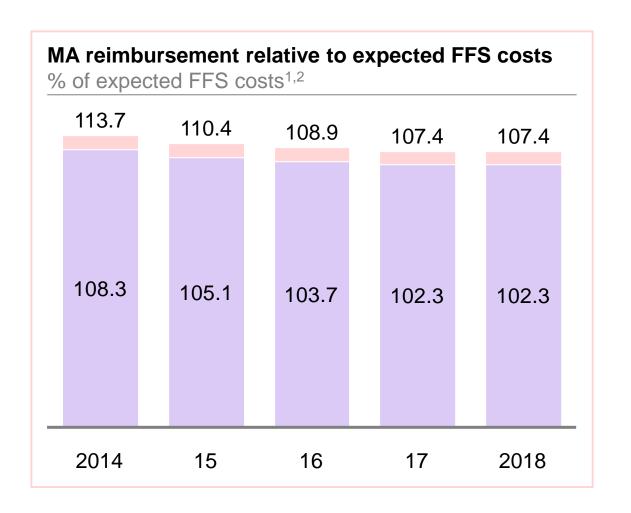
% of FFS



¹ Quality bonus given for plans awarded 4+ CMS stars (stars based on member satisfaction, customer service, physician, member practice, etc.)

^{2 4-}factor bonus criteria: (1) 4-star plan; (2) MA penetration 25%+ in county; (3) designated urban-floor county in 2004; (4) lower than national avg. FFS cost Note: "Urban floor" is a Medicare Advantage capitation payment premium for enrollees living in urban areas of >250,000 population.

CMS expects a gradual transition towards greater cost-parity between MA and traditional FFS Medicare



¹ MA enrollment estimated per county based on team analysis

² Based on continued CMS assumption at the time of rate setting that Congress will override SGR-mandated physician-fee reductions

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- Knappschaft
- Other ACO innovation models

CareFirst patient centred medical home (PCMH): Summary (1/2)

1 Context

- CareFirst is a large, non-profit health insurer covering 3.4 million people in the mid-Atlantic region of Maryland, DC and NV
- The patient-centred medical home (PCMH) model and the related wellness-rewarding insurance plan for consumers, Healthy Blue
 was introduced in 2011 and is open to all CareFirst members but the operational focus is on patients with multiple and/or complex long term conditions and those at high risk of developing complex long term conditions
- The PCMH model was introduced in order "to bend the curve" in growth of health care costs in the long term. It aims to provide a framework and incentives for group practices of GPs to take responsibility for the total health care costs of their registered patients

2 Population and services

- CareFirst serves a general population of 3.4m with a \$5.6bn spend in 2010
- The PCMH model focused on two risk-stratified patient cohorts:
 - People with multiple or complex long-term conditions (8% of population)
 - People at risk of developing long term conditions (20% of the population)

3 Payment structure

- Payment includes elements of capitation (indicative budget), FFS and incentives
- PCMHs receive an indicative capitated budget which is the basis from which to measure gains/losses, based on:
 - Expected costs defined by individual patient-level claims history for last 2yrs
 - Patient risk score (the Illness Burden algorithm)
 - Market trend (inflation)
- PCMHs are paid FFS (including fees for IC activities¹) but the FFS rate varies by performance

4 Gain/loss sharing

- FFS rates can vary by up to 90% (typically 20-60%) according to:
 - Panel size optimal is defined as ≥3,000 patients
 - Size and duration of savings achieved (vs indicative budget)
 - Quality score
 - Full compliance with programme requirements
- Stop-loss protection covers 80% of total patient costs when these exceed \$75,000 per patient per year

5 Contractual framework

- Contracts can be terminated with three months' notice
- Indicative budget is calculated annually
- Patient attribution is recalculated monthly
- Outcome Incentive Awards are defined set annually but measure performance over a longer term, with highest premiums only available for providers generating savings every year for three years

¹ Including creating a care plan (\$200) and care plan maintenance (\$100)

CareFirst patient centred medical home (PCMH): Summary (2/2)

6 Insurer landscape

- CareFirst is the insurer, though the PCMH manages the indicative budget
- GP participation is voluntary but those enrolling most meet requirements to receive participation fee (12% premium on FFS rates)
- Patient allocation to PCMH:
 - Patient is offered a free choice of GP/PCMH
 - If no choice is made (30% of members do not have a designated GP), attribution is automated based on GP seen most often in previous 24m (updated monthly)
 - If a patient changes GP, they shift PCMH automatically

7 Care delivery models

- Each PCMH is clinician-led, consisting of 5-19 GPs, which is considered the optimal size for:
 - Joint accountability
 - Sharing knowledge and experience
 - Sufficient scale to justify investment in care coordination resources
 - Confidence in quality scoring (dilution of random variation)
- Virtual (i.e. not co-located)
 PCMHs permitted
- PCMHs expected to provide a tailored care plan (template provided), overseen by GP, Care Coordinator and community care team, for patients in risk bands 2 and 3

8 Transition

- PCMH and related 'Healthy Blue' product (for consumers) were introduced in early 2011
- This program is the first phase of a multi-year project to identify and address the root causes of suboptimal care quality and cost growth
- CareFirst has stated that it plans to further develop consumer incentives and potentially introduce episodebased payments for selected care pathways

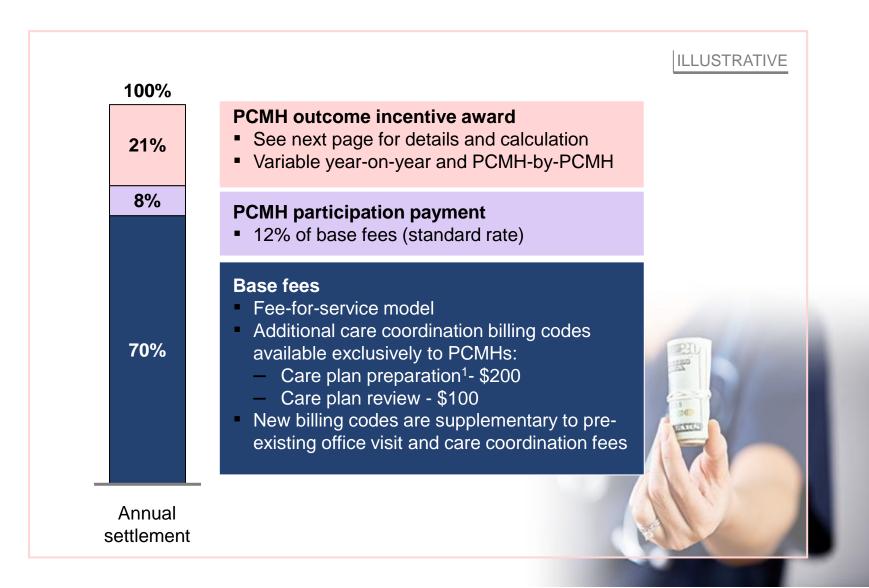
9 Enablers

- Integrated, longitudinal patient record containing information from all care settings and providers and available to the PCMH
- Incentives and engagement for patients
- Joint accountability at PCMH level

10 Impact

- 4.2% reduction in per capita total health care costs (versus expected) for PCMHs participating for ≥6 months
- \$40m savings in 2011 (first operational year)

Overall payment structure for a CareFirst PCMH



¹ Standard templates are available for all common long term conditions and common co-morbidity profiles, which the GP tailors to the individual patient SOURCE: PCMH Program: Program description and guidelines, CareFirst, 2011

The Outcome Incentive Award (OIA) is dependent on 4 elements: preconditions met, savings level, quality score and size/sustainability modifiers

Translating OIAs to \$ income:

Outcome Incentive Award points translate to the % premium on the basic fee-for-service rate: e.g. 7 OIA points equate to a 7% premium.

Example Outcome Incentive Award structure for a Band 1 PCMH in Year 1

Percentage point fee increase								
		Savings le	vel				Ш	
		10%	8%	6%	4%	2%		
	80	67	53	40	27	13		
Quality score	60	56	45	34	23	11		
	40	46	37	28	18	9		
J	20	36	29	22	14	7		

Savings level

- Actual costs of care expected costs of care
- Expected costs of care calculated at patient level based on historic claims adjusted for:
 - Illness burden score
 - Time in/out of PCMH
 - Regional market trend (inflation factor)¹
- Savings flow across years

Quality score (out of 100)

- Engagement and care planning (30 pts)
- AHRQ-defined appropriate use metrics (20 pts)
- Effectiveness –HEDIS process/outcomes indicators for long term conditions (20 pts)
- Patient access and satisfaction scores (20 pts)
- Structural capabilities e.g. NCQA PCMH certification; EMR; e-prescribing (10 pts)

Pre-requisites

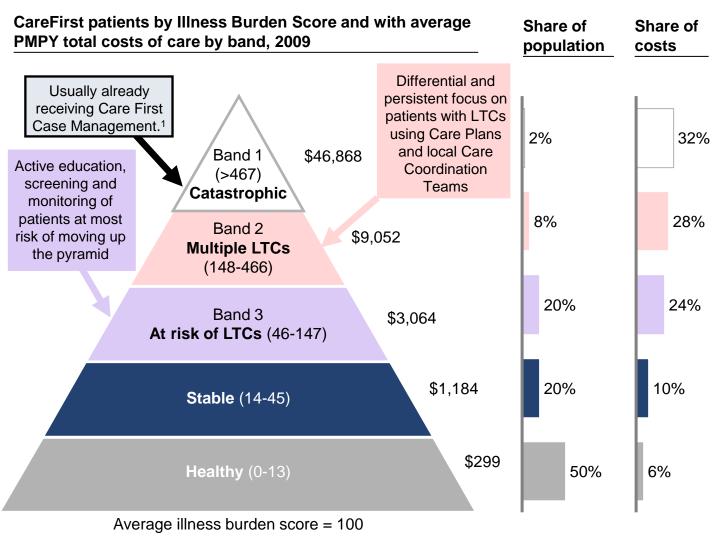
- Minimum score of 15/30 on engagement and care planning:
 - Scheduling time with eligible patients (15%)
 - % of eligible patients seen within time limits (40%)
 - Quality of care plan (15%)
 - Care coordination (15%)
 - Active follow-up (15%)
- Savings achieved vs indicative budget (expected costs of care)

Modifiers

- Size of patient panel fee increases with patient panel sizes:
 - Band1: ≥3,000
 - Band 2: 2,000 2,999
 - Band 3: 1,000 1,999
 - Band 4: ≤999
- Sustainability fee increases for each year of sustained savings:
 - Year 1
 - Year 2
 - Year 3

¹ Bending of cost curve only occurs when the weight of PCMHs achieving savings is sufficient to impact the regional market trend

Risk adjustments and exclusions



LTC = long term condition

- 1. This group includes patients suffering from end-stage, complex cancers and renal disease, major trauma or neonatal intensive care.
- 2. Ongoing 20% is designed to keep GPs actively engaged in the care coordination for their sickest patients SOURCE: Patient-centred Medical Home Program: Program description and guidelines, CareFirst, 2011

Uses of the Illness Burden of Score:

- Input to algorithm predicting 'expected costs of care' from which savings are calculated
- Identifies patients in need of a 'Care Plan'
 – completion of which forms part of the engagement and quality score of the PCMH
- Score recalculated monthly and shared with PCMH to identify patients in need of anticipatory, coordinated care

Exclusions:

 Stop loss protection for PMPY costs >\$75,000 plus 20% (>\$75,000)²

The monthly indicative budget report shows expected versus actual costs

ILLUSTRATIVE (SCREEN SHOT)

Mary Sm One Patient Thru D			XYZ Family Practice Group All Attributed Patients One Year (3000+ Member			C. M. C. C.	
-		+ Credits*		Debits (Care Expenses)		+ Credits	
Debits (Care Expenses)							
Debit: Mary Smith		Credits: Mary Smith		Debit: All Members		Credit: All Members	
Primary Care Visit 1/4/10 Vaccination 1/4/11 Pharmacy Fill 1/7/10 ER Visit 2/4/10 ER Treatment 2/4/10 Opthalmologist Specialist Visit 3/6/10 Orthopedic Specialist Visit 4/22/10 Pharmacy Fill 4/10/10 Physical Therapy 4/25/10 Physical Therapy 5/5/10 Pharmacy Fill 7/10/10 Primary Care Visit 8/4/10 Dermatologist Specialist Visit 8/22/10 Pathology Test 8/23/10 Dermatologist Specialist Visit 9/12/10 Cardiology Specialist Visit 9/22/10 Outpatient Hospital Bill 10/15/10	\$ 257 \$ 120 \$ 22 \$ 22 \$ 120 \$ 50 \$ 300 \$ 50	January February March April May June July August September October November December	\$ 210 \$ 210	Primary Care Inpatient Outpatient Physician Specialist Ancillary Rx	\$ 734,697 \$2,868,750 \$ 3,378,119 \$2,478,438 \$ 1,307,620 \$ 2,141,786	Mary Smith John Doe Jane Richards Bob Jones Steve Patel It is possible into all 3000	
Total Debits:	\$3,646	Total Credits:	\$2,520	Total Debits:	\$12,909,409	Total Credits:	\$13,600,00
		,	Amount a	bove (below) b	A COLUMN TO THE REAL PROPERTY OF THE PERTY O	\$ (690,5 5-	91) 1%

Mechanisms to mitigate volatility

Panel size

- Optimal Medical Panel size is encouraged by:
 - Minimum 5 full-time GP requirement
 - Maximum size of 19 GPs if larger, GPs are advised to break up into groups of 5-15 GPs
 - Solo-GP or small practices are can create critical mass by merging into Virtual Panels, formed as voluntary associations by contract
 - Incentives are tiered to reward larger patient rosters, with maximum rewards for PCMHs with ≥3,000 patients¹
- Stop loss clause protects PCMH from shock claims payer absorbs 80% of costs when PMPY costs >\$75,000

Member attribution

- Members are attributed to GPs on the basis of member choice or – if no choice made - GP visits in previous 24 months (in a tie situation, the patient is allocated to the GP visited most recently)
- Member attribution is re-calculated monthly (over the previous 24 months) and patients may move from one PCMH based on their activity (if they have not specified a preferred GP)
- PCMH indicative budgets are revised monthly to reflect patient movements

¹ Panels of ≥3,000 patients are preferred because this achieves actuarial credibility where changes in costs are most likely to reflect actual change and not random variation.

Accountability and distribution of incentives

Who is accountable

- Each PCMH forms a Medical Panel or Virtual Medical Panel (multi-site) of 5–19 GPs accountable for a roster of CareFirst members
- Eligible GPs must be full-time: Family Practice, Adult Internal Medicine, General Practice, Paediatrics, Geriatrics, Doctors of Osteopathy or Nurse Practitioners
- Panel size is designed to create a credible cohort of CareFirst patients but small enough to ensure each GP is visible and has a meaningful impact

How are they accountable?

- The PCMH is paid an enhanced FFS determined by matrix position of (a) savings achieved relative to expected costs and (b) composite quality score, and size/sustainability modifiers, provided two pre-conditions are met:
 - Total costs of care for patient panel are below target
 - Patient engagement score of 15/30 is achieved
- Payer retains accountability if costs exceed expectations

How are incentives distributed?

- The PCMH may elect to pass on part of the Outcome Incentive Award to the Care Coordination Team
- PCMHs are encouraged to develop care pathways with acute and specialist providers which may in future form the basis for bundled, episode-based payments

Guiding principles for 'Healthy Blue' patient plan

Core principles of the Healthy Blue program for members:

Health risk appraisal

 Annual baseline health risk appraisal linked to financial rewards for behavioural change and achievement of healthy lifestyle targets

Access to primary care

 No co-payments, deductibles or other cost barriers to primary care services including screening, preventative health services and medicines for the management of long term conditions

Sustained primary care relationships

 Members receive meaningful incentives to form strong, sustained relationships with a single GP of their choice: currently ~30% of CareFirst members do not have a designated GP

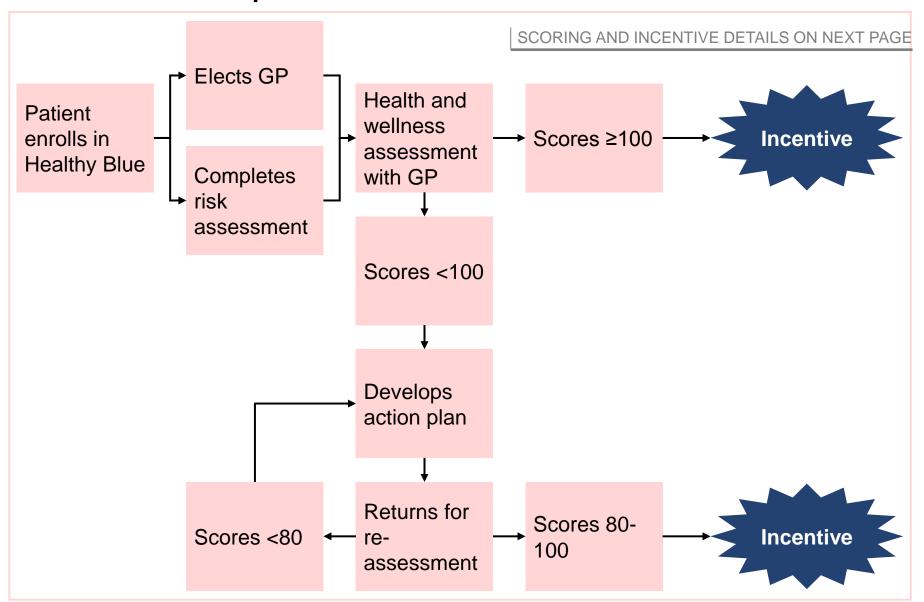
Compliance with Care Plan

 Financial incentives for people with long term conditions to follow Care Plans developed by their GP and to take steps to reduce their health risks: e.g. through waiving co-payments for specialist services for those meeting compliance targets

Complete benefit plan

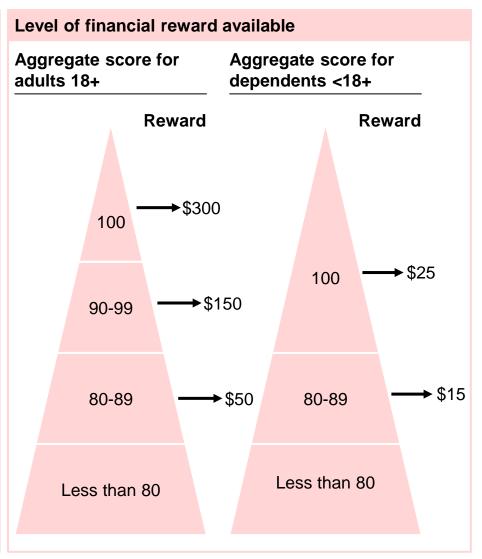
 Benefit plans is comprehensive and no savings should be achieved by curtailing or creating holes in coverage that inhibit implementation of the Care Plan, e.g. mental health, prescriptions

Patient incentive process



Patient incentives – scoring and rewards

Patient behaviour change so	oring syste	m
Health factor	Adult 18+	Child <18
Smoking status	30 points	N/A
Hypertension		
Less than 120/80	20 points	N/A
Less than 140/90	10 points	N/A
Influenza immunization	20 points	60 points
Cholesterol		
 Acceptable LDL cholesterol per guidelines 	15 points	N/A
LDL less than <160	5 points	N/A
Obesity (BMI)		
 Adult: Between 19 and 25 Child: within Acceptable ranges based on age and gender 	15 points	40 points
Adult: Between 26 and 30Child: Reduced weight by 5%	5 points	20 points
Potential Aggregate Score	100 points	100 points



Note: Priorities among effective clinical preventive services: Results of a systematic review and analysis Michael V. Maclosek, Ashley B. Coffield, Nichol M. Edwards, Thomas J. Flottemesch, Michael J. Goodman, Leif I. Solberg

American Journal of Preventive Medicine - July 2006 (Vol. 31, Issue 1, Pages 52-61

CareFirst – re-cap of core elements

Medical Care Panels	 GPs should organise into Medical Care Panels (the panel is the "Medical Home") of at least 5-15 GPs to share experience and to create patient cohorts of sufficient size to justify investment in care coordination resources and to create confidence in composite quality scoring
Patient assignment to Medical Care Panel	 CareFirst members will be assigned by Medical Care Panels based on patient choice or prior 2 years claims history if no active choice of GP has been made If the patient has not designated a GP and has not visited a GP in 2 years no attribution will be made
Patient risk stratification	 Individual patients are assigned an Illness Burden score (see previous page) using a Diagnostic Cost Grouper and these are aggregated to provide a cohort pyramid at Medical Home level
Indicative global capitation budget	 An indicative "global capitation" budget is calculated for each Medical Home based on the claims history of the patients in the panel multiplied by the overall medical trend factor As patients incur costs through the year, these are debited from the indicative budget
Referral management	 CareFirst provides Medical Homes with information on specialist service costs and quality Medical Homes are expected to create their own specialist networks and partners, to agree care pathways and, in time, these are expected to form the basis for bundled payments reimbursement systems
Care Plans and Care Teams	 GPs should create Care Plans for all patients in Band 2 and some in Band 3 (see page 7) using tailored templates covering diabetes, asthma, COPD, CAD, CHF, hypertension, neck & back pain, osteoarthritis and childhood obesi Local Care Coordinators/Care Coordination Teams will be assigned to each Medical Home to support Care Plans
Electronic Health Records	 CareFirst will maintain a single, longitudinal electronic Member Health Record containing information from all care settings and providers and available to the Medical Home
Quality measurement	 Quality measurement and scoring is based on 5 categories: (1) Engagement with patients in need of Care Plans, (2) Appropriate use of services (ER, admissions, readmissions, diagnostics), (3) Effectiveness of care (HEDIS), (4) Patient access to primary care services, (5) Structural capabilities
Incentives	 Outcome Incentive Awards available to Medical Homes based on savings achieved (compared to indicative budget) and completion of all program requirements
Participation rules	 GP participation in the PCMH model is voluntary but those enrolling in the program are required to follow the regulations and processes set out in the program in order to be eligible for the participation fee

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Alzira/Ribera, Valencia: Summary (1/2)

1 Context

- In 1997, the national government (in Spain) passed legislation allowing privately-owned entities to take on health management and administration for publicly-funded health services
- In 1999, the regional health authority in Valencia, created the first tender for delivery of health services for the district of Alzira/Ribera (populations of 240,000), with the aim providing private financing for a hospital (there was no hospital within the region previously). This was won by a consortium called UTE (Unión Temporal de Empresas)
- The program was based on the principles of decentralization, integrated primary and acute care, and provider competition, and was funded via a capitation-based budget

2 Population and services

- UTE is responsible for a general population of 240,000 people in the Alzira/Ribera district
- Initially, UTE covered hospital care only, but primary care was added in 2003, and now covers all health services except:
 - Ex-hospital prescribing
 - Appliances/prostheses
 - Oxygen therapy
 - Medical transport
- Since 1999, the Alzira model has been rolled out in 4 further districts in Valencia. covering ~650,000 people, and 2 districts in Madrid

3 Payment structure

- UTE receives annual capitated budget (€603/capita in 2010), set by Valencia MoH
- Annual increases set by:
 - CPI index 1999-2003
 - Regional health inflation applied since 20031
- UTE provides care and:
 - Pays HRG tariff for care delivered by other providers (patient has free choice of provider)
 - Receives 80% of HRG tariff for out-of-area patients treated²
- Quality is monitored by the Comisionado3

4 Gain/loss sharing

- UTE is responsible for the full downside risk of overspend
- Gains are limited to a maximum profit margin of 7.5% (excess must be returned to the Ministry of Health)
- In practice, UTE reinvests most profits and margins rarely exceed 1-2%

5 Contractual framework

- The initial contract term was 10 years; the contract was renegotiated in 2003 and extended for a further 15 years (to 2018)
- Renegotiated terms included:
 - Inflationary index changed from CPI to regional health spend
 - Coverage extended to all health services (to prevent cost shifting)
- UTE invested €68m in a new hospital which will revert to Ministry of Health ownership at end of full contract term (building and equipment)

Ribera health department 11 presentation (June 9, 2008);

¹ Regional health inflation index considerably higher than CPI 2 Provision introduced to discourage over-supply

³ The Comisionado is appointed by the MoH but based in the hospital and tasked with monitoring quality, with the power to impose sanctions SOURCE: Euro Observer, Health Policy Bulletin, 12(1), 2010; King's Fund case study; Adeslas presentation (April 7, 2008);

Alzira/Ribera, Valencia: Summary (2/2)

6 Insurer landscape

- UTE is a consortium made up of:
 - Adeslas (51%) the largest private health insurer in Spain
 - Ribera Salud (45%) a local building society
 - Lubasa (4%) the building contractor

7 Care delivery models

- The GP acts as gate-keeper, for secondary care referrals, though patients have a free choice of acute provider (money follows the patient)
- A specialist physician is assigned to each primary care centre to implement clinical guidelines and pathways with GPs and advise on ways to reduce referrals
- The contract has led to the expansion of diagnostics and OP services in primary care settings, and integrated care pathways across all settings of care

8 Transition

- The Alzira/Ribera model evolved in stages (as outlined on previous page) but with a long-term view from the outset (initial contract duration 10 years) to make the PFI element viable (€68m new hospital)
- Since Alzira in 1999, the model has been rolled out to 5 of 21 districts in Valencia:
 - Torrevieja in 2003
 - Denia in 2004
 - Manises in 2006
 - Crevillent in 2007
- It has also been implemented in two districts in Madrid:
 - Valdemoro in 2005
 - Torrejon in 2009

9 Enablers

- Managerial responsibility and empowerment of providers
- Use of performance-based incentives
- Partnership with experienced (private) company that is well-suited to financing and managing large-scale projects and development of central IT system including patient records

10 Impact

- 25% reduction in costs in districts with outsourced management (sustained over three years)
- 76% increase in hospital productivity (comparison of operating theatre utilisation over one year)
- 91% patient satisfaction rates (reported annually)

Poor health system performance prompted Valencia to promote integrated care, patient choice, and bring in the private sector

Deficiencies in the Spanish health system before 1999

Budget deficit

- Public finance deficits the budget did not cover middle-term and long-term needs:
 - Despite a political promise to build a hospital in Alzira in 1982, there was insufficient funding

Quality lower than government's expectations

 Insufficient medical care for chronically ill population

Inefficient use of public resources

 Lack of efficiency, flexibility, and participation of medical staff in hospital management (Abril Commission, 1991)

Key enablers

- Process of regionalization and decentralization completed¹
- Aligned political situation²
- Changes in legal framework allowing involvement of private sector³

Transformation process in the Valencia region since 1999

- Integrated acute and ambulatory sectors
- Introduced capitation financing system in all 21 health districts of the region
- Allowed competition between health districts by introducing free hospital choice and cross-regional invoicing system
- Outsourced health system management in five out of 21 health districts to private consortia
- Early signs of success, e.g.:
 - Health districts with privatised health systems had lower costs, higher productivity, more flexibility, and superior operational efficiency
 - Satisfaction with performance quality

Specific motivations for change

- Improve quality and efficiency of public healthcare
- Limit public spending on healthcare

Principles of the new approach

- Management decentralization
- Integration of different healthcare sectors
- Competition between health districts
- 1 Political process where responsibility for publicly-funded health system was devolved to regional governments (Comunidades Autónomas)
- 2 Same political party governing both national and regional government (Partido Popular)
- 3 Major legislation changes (1994, 1997, and 2003) allowed the private sector to deliver public health services as long as they remain free and provide universal and integrated care

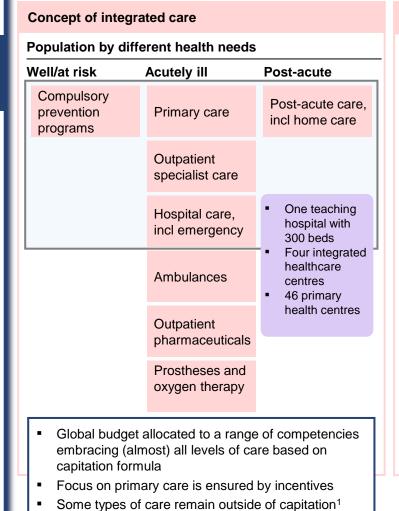
Risk is transferred to providers through capitation financing, creating strong incentives for management in primary care

Provider structural archetypes

Ownership

Competition

Degree of management autonomy



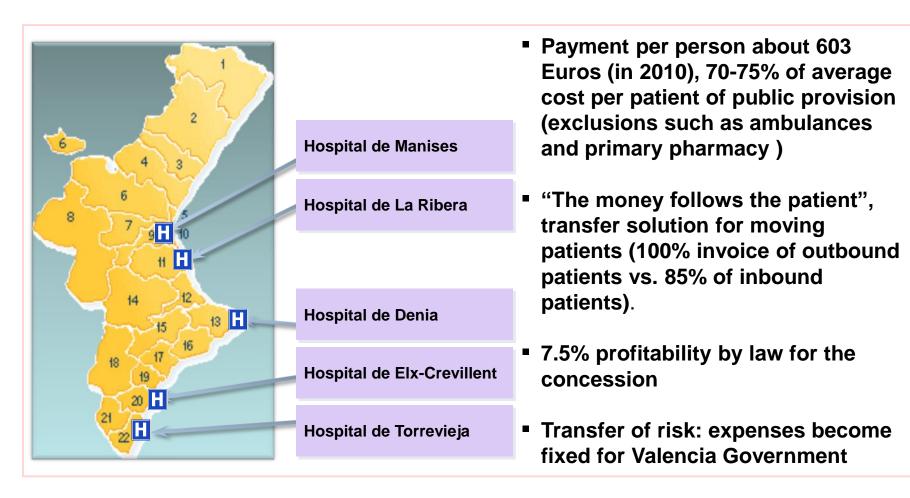
Policies implemented to facilitate medical integration

- Medical link: Designation of a consultant physician to each health centre, working with the same patients as the GP – his role is to implement clinical guidelines with the local GPs, resolve medical problems in the health centres, and reduce the number of inappropriate hospital referrals
- Integrated primary care centres: Expansion of some health centres with on-site X-ray services, accident and emergency departments, and medical specialist outpatient clinics to bring medical services closer to patients
- Integrated medical care pathways: To streamline the management of health problems from primary prevention to palliative care, including acute care, rehabilitation, and long-term care
- Integrated information systems: Implementation of a fully integrated computerised medical history system, including nursing and medical notes, tests and imaging, and allowing interaction between medical and administrative areas
- New working methods are required to facilitate truly integrated delivery of healthcare services
- Integrated patient medical dossiers as main enabler

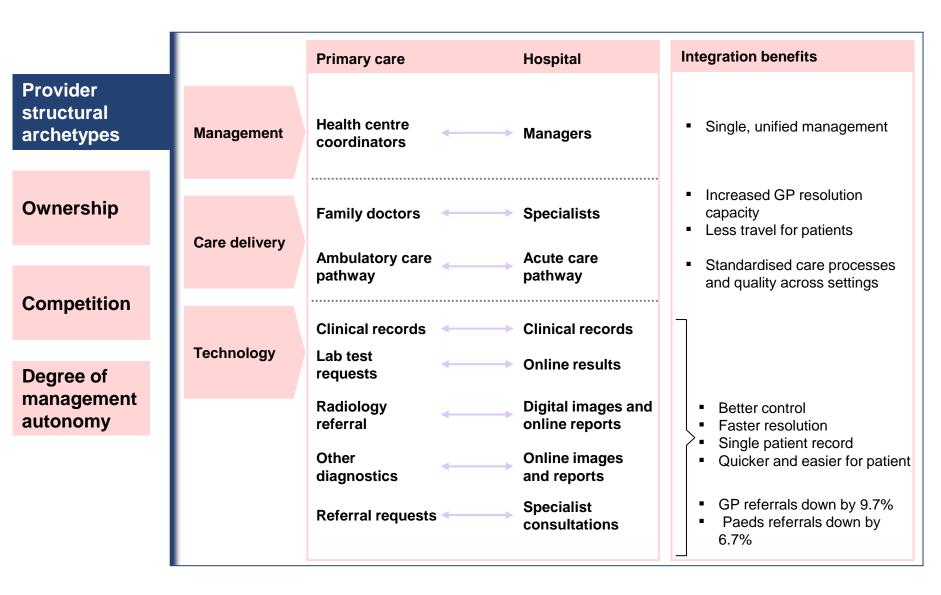
SOURCE: Observatory, 2009

¹ See above: ex-hospital prescribing, ambulance and medical transport, prostheses/appliances and oxygen therapy

Key features of the Management Concession Model in Health Districts of the Valencia region



Integration of service providers supports resolution in primary care



Valencia region demonstrates smart use of limited competition between regions and hospitals

Provider structural archetypes

Ownership

Competition

Degree of management autonomy

Before transition – reduced overall access to healthcare

 Citizens in Valencia could not access different healthcare delivery units within the region, only those where they were registered

After transition – free choice of hospital

- "Money follows the patient" – access to all facilities in own or other health districts
- Alzira Hospital results 10%-20% of patients come from surrounding health districts

Incentives for providers to facilitate competition

- Profit of an individual hospital correlates to the choice of each patient to visit that hospital:
 - For treatment of a patient outside of the own health district cash-in amounting to 85% of HRG
 - If a patient from the own health district visits an universal hospital or any health centre outside – cashout amounting to 100% of HRG

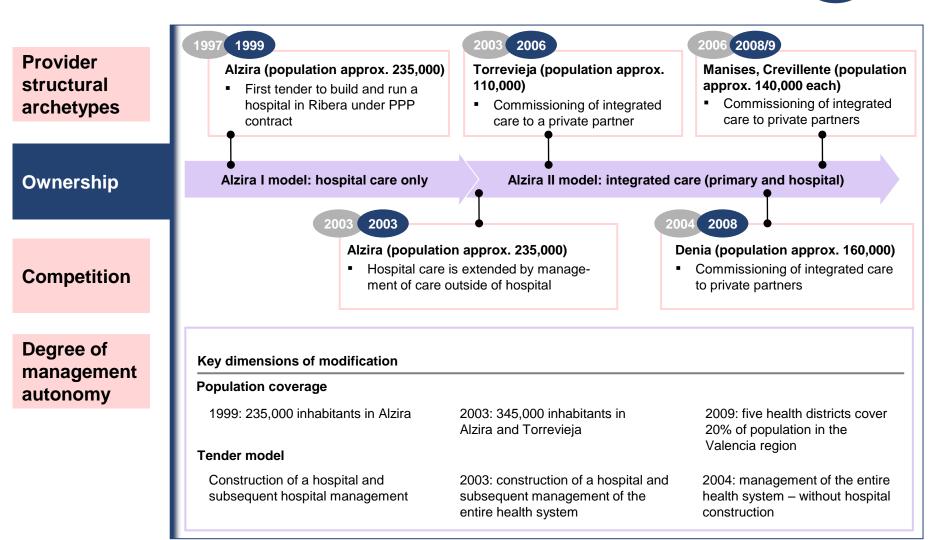
Enablers on the IT side

- Invoicing system introduced between health districts to pay for the transferred patients
- Swipe card concept each inhabitant gets a card for 10 years:
 - Tracking of all visits to medical facilities
 - Assignment of priority in a waiting list by triage nurse in a hospital
 - Updating and reviewing of patient record during consultation
 - Also used for drug prescription and dispensing

SOURCE: Ribera Salud 52

Valencia has sought to harness private sector capabilities in 5 of 21 subregions, offering 15-20 year concessions





Independent audit and management tools, such as regular inspections and balanced scorecards, ensure high quality of care

Provider structural archetypes

Ownership

Competition

Degree of management autonomy

Local government

Defines services to be covered and sets guidelines and controls in the public health system

Direct control

Inspection and control through the local government's commissioner (comisionado)

- Reports to Valencia's Minister of Health
- Works full time in a hospital
- Duties:
 - Manage the patient claim service
 - Manage propositions of patients from other health districts
 - Order patient transfers to other health districts
 - Control surveys
 - Obtain activity statistics
 - Monitor service quality

Targets set by the local government

- Defined in a bid
- Examples waiting time, total number of surgeries, surgery cancellation rate, etc.

Indirect

control

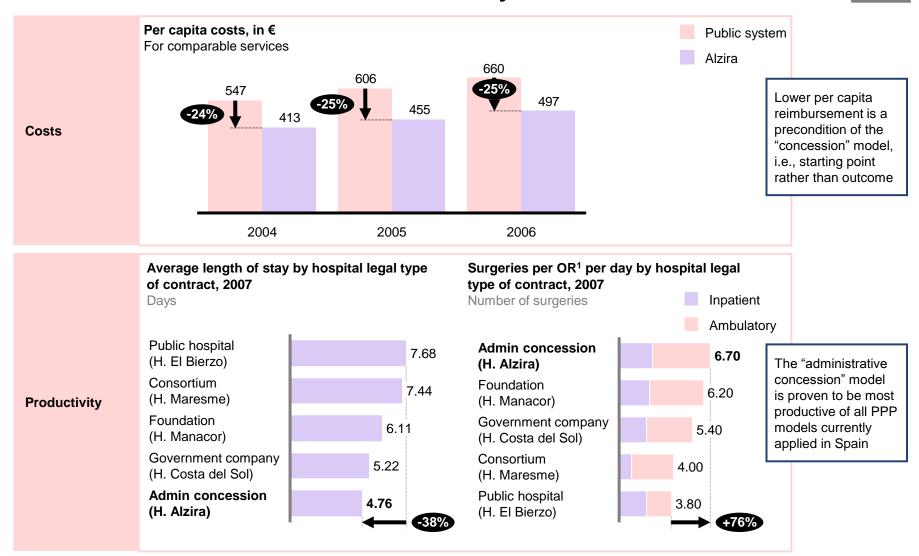
Balanced scorecard used as a monitoring tool

Provider

Committed to achieve government's targets

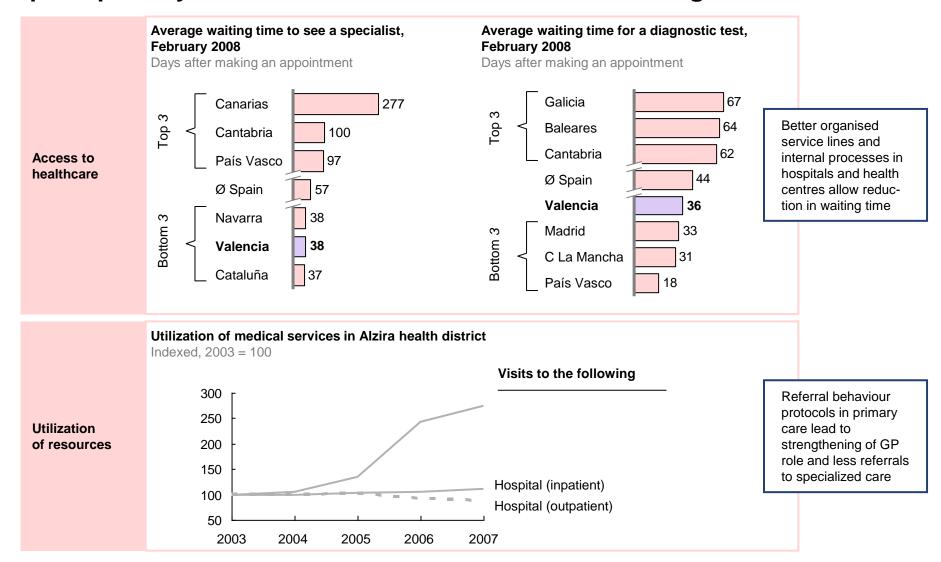
SOURCE: Ribera Salud 54

Cost savings have reached 25% and higher productivity is manifested in shorter ALOS and more efficient facility utilization



¹ Operating room

Waiting times have declined and are now among the lowest in Spain: primary care and the role of GPs have been strengthened



Contents

- Pioneer ACO (Beacon Health)
- Medicare Advantage (ChenMed, CareMore, KP)
- CareFirst patient-centred medical home (PCMH)
- Valencia (Alzira/Ribera Salud)
- Knappschaft
- Other ACO innovation models

Knappschaft: Summary (1/2)

1 Context

- Knappschaft's Prosper programme started in 1999, developed in response to legislative changes (in Germany) which provided a regulatory framework for integrated care contracts
- The aim is to improve patient outcomes and payer/provider financial performance by focusing on quality and efficiency
- The program covers ~250,000 patients enrolled across 8 networks served by 2,100 physicians and 19 hospital sites (~7,000 beds)

2 Population and services

- The 8 Prosper programs cover 10-65,000 people each and were developed in areas where the density of Knappschaft members and providers were highest
- Choice of the Prosper network offers patients all standard benefits plus defined clinical pathways within the network

3 Payment structure

- Sickness funds receive an individualised capitationbased payment for each enrollee, based on prospective risk profile (expected costs in following year for age/gender/morbidity)
- Quality of integrated care networks is monitored through KPIs, information transparency and peer pressure, but not explicitly linked to reimbursement

4 Gain/loss sharing

- Net extra-budgetary surplus delivered by each integrated care networks are shared between:
 - Integrated care networks
 - Knappschaft
 - Patients (bonus scheme)
- Network physicians compensated for their individual contributions to a network surplus

5 Contractual framework

- Official registering of participating physicians
- Participating physicians are obliged to:
 - Take part in annual carerelated trainings
 - Adhere to clinical pathways
 - Keep track of quality indicators
 - Use network practice software
- Incentives for patients:
 - Exemption from 10 Euro practice fee
 - No co-pay for first 10 days in a network hospital

Knappschaft: Summary (2/2)

6 Insurer landscape

 Knappschaft is 1 of 130 sickness funds in Germany but has its highest market shares in regions were mining was traditionally the main business

7 Care delivery models

- Flexible network model comprising hospitals, GPs, rehab facilities and socialmedical services forming a group around a hub Knappschaft hospital
- Clinical pathways and protocols co-developed by both levels of care
- Enhanced IT with focus on data transparency and security

8 Transition

- Programme started in 1999 responding to new legislation which provided a regulatory framework for integrated care contracts between provider organisations
- From 1999-2009, Prosper integrated care networks costs were measured compared to a pre-defined reference group (to measure savings delivered) which was successful for the first few years but created problems at/after 5 years (as reference group no longer as comparable)
- In 2009, reference control group replaced by prospective risk calculation

9 Enablers

- Unique situation that Knappschaft owns hospitals
- Very regional focus
- High market share in specific German regions as Knappschaft was traditionally the payer for miners
- Through experience with miners, Knappschaft and the Prosper network became experts for COPD and other mining-related diseases

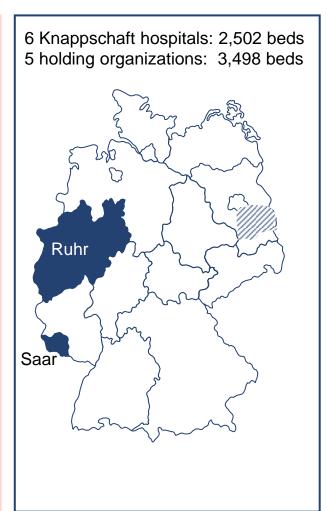
10 Impact

- 8-12% average savings for Prosper integrated care program compared to control group sustained over multiple years (7 years)
- 15% saving on drug spend

The first Knappschaft Prosper programmes were located in the Rurh region



	People insured # registrations	_	Specialists ed Contracts signed
prosper Bottrop since 1999	~22,600	52	27
prosper Saar	~30,800	161	124
since 2001			
	45,000	101	110
proGesund Recklinghausen since 2002	~45,000	191	119
	22.500	404	100
prosper Gelsen- kirchen/Gladbeck since 2006	~22,500	184	163
prosper Lausitz since 2008	~5.000	45	50



Mechanisms of risk pooling between sickness funds have evolved over the last ten years Correlation between

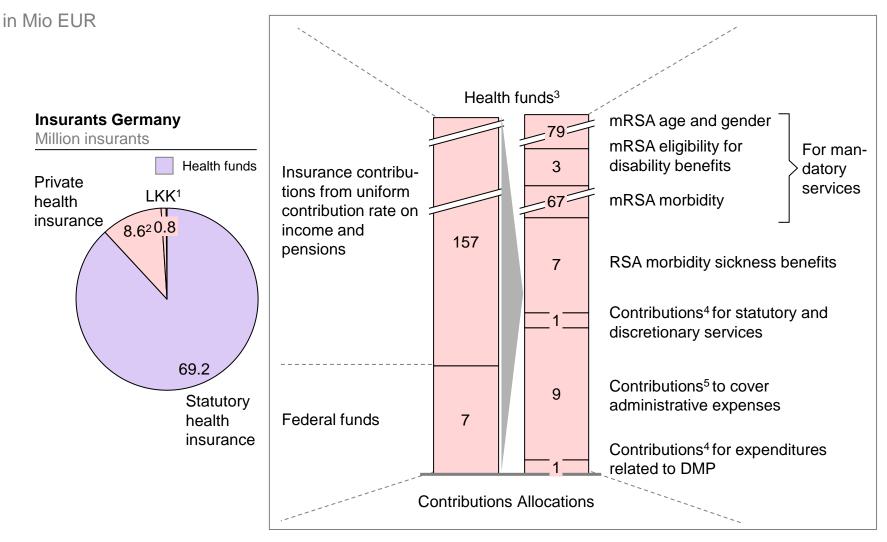
			allocation and costs ¹
1994	Introduction of the Risk Structure Equalization scheme (RSA)	 Risk is based on Age Gender Eligibility for sickness benefit Costs considered are all obligatory Payer payments 	7
2002	Additional differen- tiation for high cost insurants	 For insurants with health care costs above 40,000 Deutsche Marks the 60% of the amount above 40,000 Deutsche Marks is compensated by the funds 	
2003	Additional consideration of participation in Disease Management Programs (DMP)	 For insurants who enroll in a DMP, the morbidity risk is calculated separately, which results in much higher payments 	
2009	A new morbidity- adjusted equalization scheme was launched	 Risk now is based on Age Gender Eligibility for disability benefits Morbidity (based on 80 diseases) of previous year Costs considered are costs for mandatory services only (93 percent of total costs) Allocations for sickness benefits are calculated separately because they are were related to income than to morbidity 	25

¹ On single insurant basis. If you aggregate by age groups e.g., you will have a much higher R squared (which does not mean, that this is better, it is just another performance indicator). The correlation between allocation and cost is the correlation between predicted costs and real costs in the same year, measured as R squared. This describes the "goodness of fit" of the model.

allocation and coetc1

2009

The Risk Structure Equalization scheme (RSA) is used to allocate contribution sources to insurers



¹ Special health insurance for persons employed in agriculture

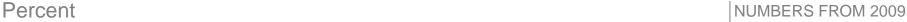
² Number from 2008

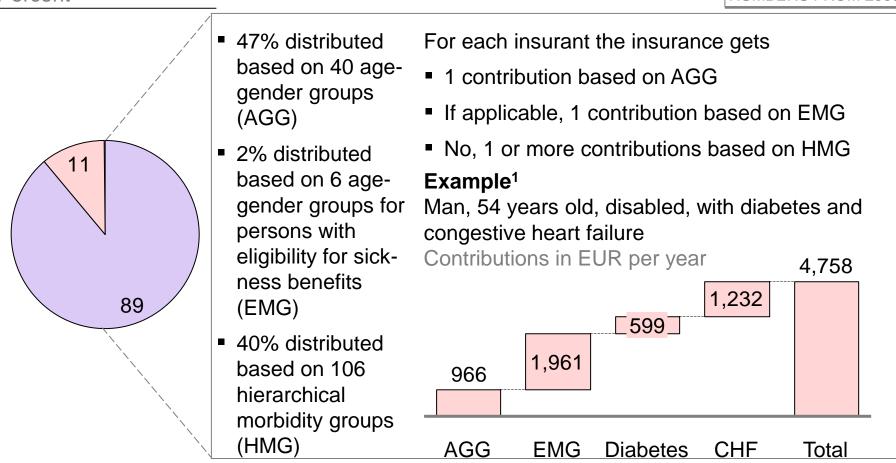
³ Result is negative in first year

⁴ Per capita 5 50 percent per capita, 50 percent related to RSA contributions

Since 2009, the most important part of the risk equalization mechanism is the morbidity-adjusted allocation for mandatory services

Health funds volume





¹ In addition, there are contributions of EUR 18 for statutory and discretionary services and EUR 195 for administrative costs

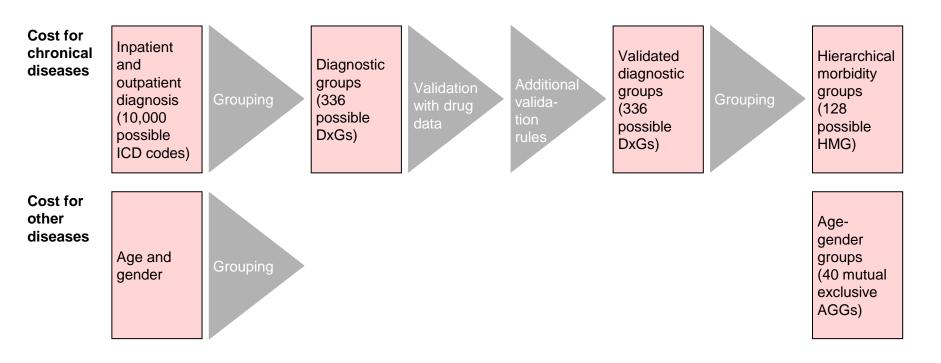
The morbidity adjustment mechanism originates in a model from DxCG and is developed continuously

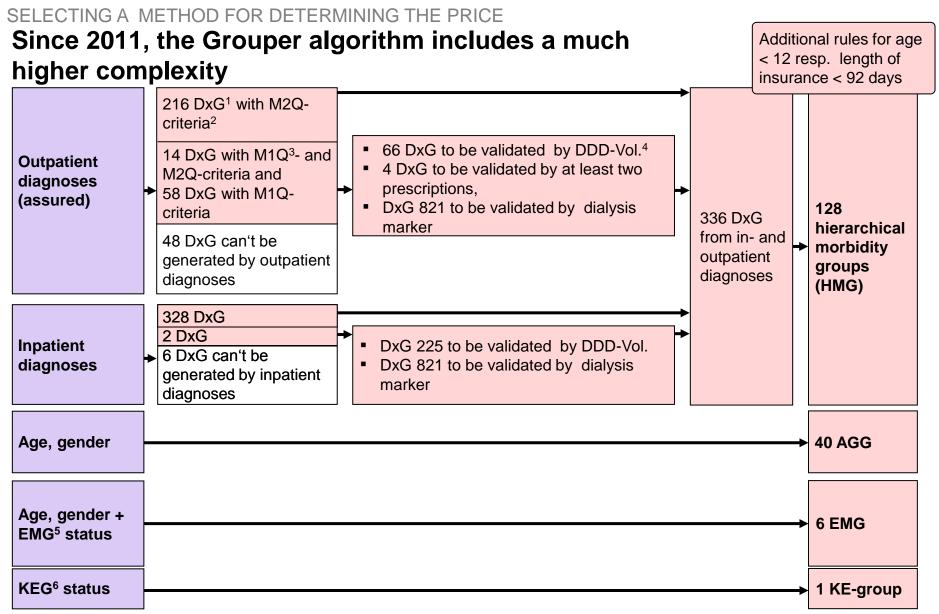
Model	RxGroups and IPHCC
Morbidity information considered	Inpatient diagnosis and medical treatment
Developed by	DxCG, Boston, US

German morbidity adjusted RSA
Inpatient diagnosis, outpatient diagnosis validated by medical treatment
Scientific advisory committee

Yearly adjustments based on experiences of BVA and suggestions of the insurances

The basic grouping algorithm uses diagnosis and prescribed drugs to assign morbidity groups





¹ Diagnostic Groups according to DxCG logic

² Corresponding disease has to be diagnosed in at least two quarters of the year

³ Diagnosis and at least one corresponding prescription in the same quarter 4 Prescripted drug volume in daily defined doses

⁵ Insurants who are eligible for sickness benefits 6 Insurants who pay first and than get partly reimbursement by the insurance

While other allocation groups are differentiated by age, this is not the case for HMG¹

Morbidity adjusted risk	allocation	scneme
-------------------------	------------	--------

EMG4

EMG5

EMG6

Age-gender-groups (AGG)

Eligibility for sickness benefits groups (EMG)

Hierarchical morbidity groups (HMG) KEG for insurants with partly reimbursement

Groups for insurants with right of sickness benefits (KG)

20 groups per gender		3 groups per gender		128 group	1 group	
female	age	female	age	HMG001	HIV/Aids	
AGG01	0	EMG1	bis 45	HMG002	sepsis/	
AGG02	1 - 5	EMG2	46 - 55		shock	
AGG03	6 - 12	EMG3	56 - 65	HMG003	Non viral infections	
AGG04	13 – 17				IIIIECIIOIIS	
_		_			•••	
male	age	male	age			

bis 45

46 - 55

56 - 65

1 group per

- year (age)
- gender
- EMR state

Groups for insurants who live outside Germany (AusAGG³)

20 groups analogous to AGG

0

1 - 5

6 - 12

13 - 17

AGG21

AGG22

AGG23

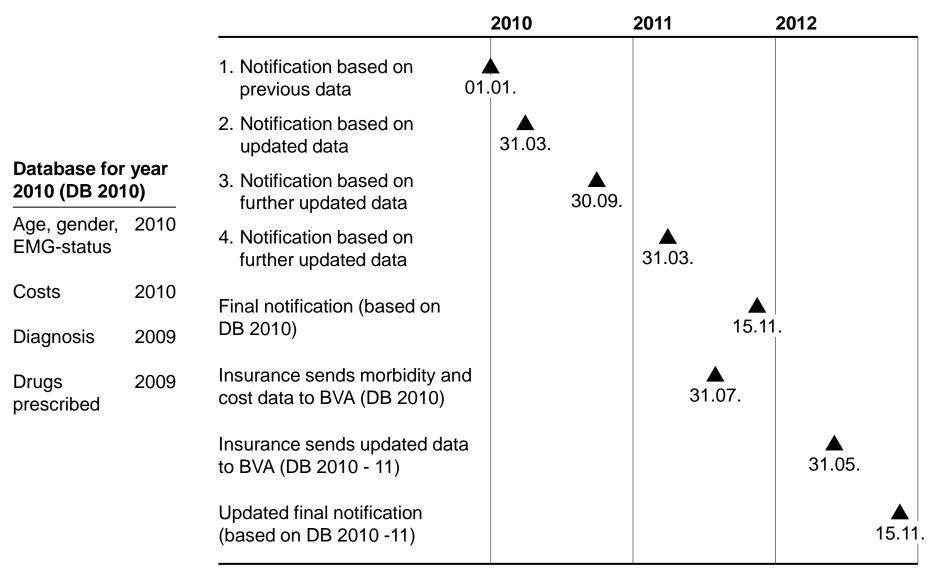
AGG24

¹ A few HMG are linked to age

² Only for age between 35 and 65

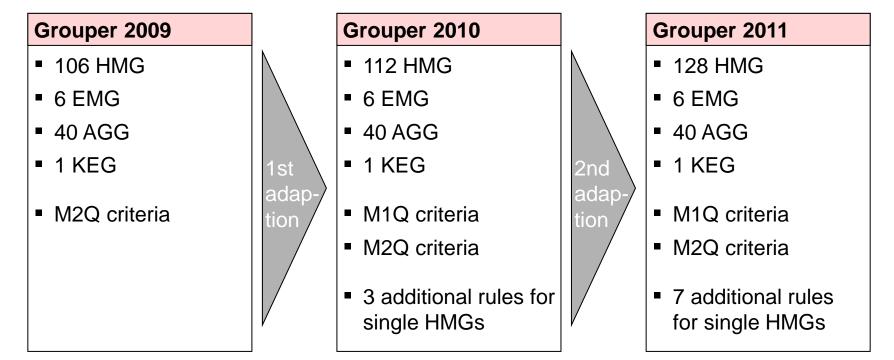
³ The medical data is not available for these insurants, so there is a separate calculation method

The allocation calculation process stretches over 2 years plus additional corrections in further years



There is a process of adaption which will last a couple of years

Grouper



Both adaptions led to changes for the HMGs considered. Some were eliminated, others now defined. The above numbers only reflect the net changes.

In addition there are further changes of the algorithm itself

There is a process of adaption which lasts a couple of years

Down payments

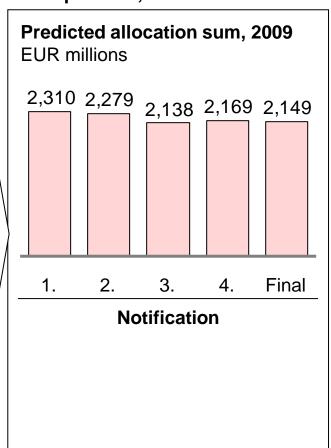
Requirement

- The final allocation sum is calculated 11 months after the allocation year
- To guarantee liquidity for the insurances down payments have to be made, which should be the same total amount as the (yet unknown) final payments

Process

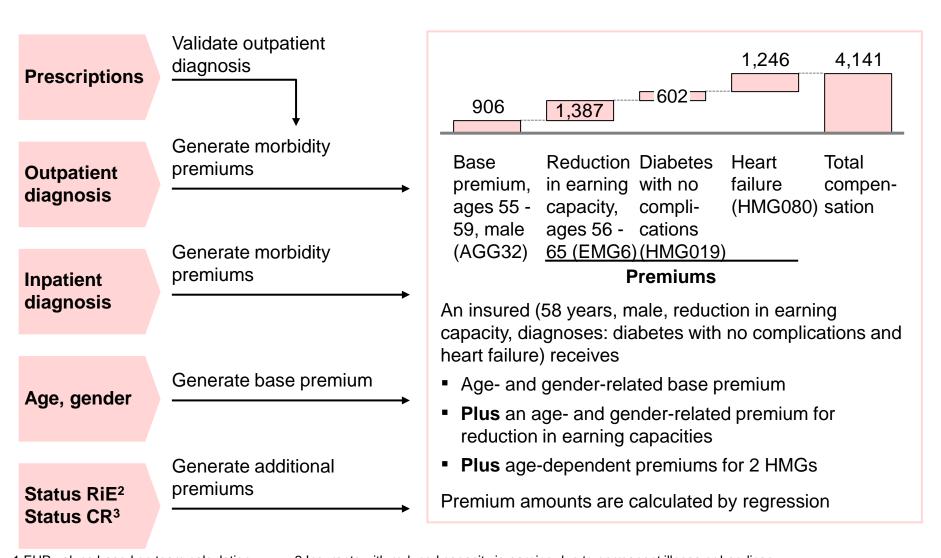
- The BVA (German independent federal agency for statutory insurances) establishes prediction models based on newest data
- These models calculate down payments per month
- The down payments fluctuate and there are still relevant differences to the final payment (2009)
- The prediction models are refined by the BVA in an ongoing process

Example 2009, client case



The algorithm is used to calculate the morbidity adjustment

ALGORITHM 2010



¹ EUR values based on team calculation 2 Insurants with reduced capacity in earning due to permanent illness or handicap

³ Insurants who first pay the bill and then get repayment by the insurance

The German legislator determined that there should be no more than 80 diseases considered within the RSA

German law

- Only a few details were fixed in German law conserving the morbidity adjustment
- One was the restriction on maximum 80 diseases to be considered
- These diseases should be "chronic with high costs" or "grave"

German federal agency for statutory insurances (BVA)

- The BVA first had to define the terms
 - "Disease"
 - "Chronic with high cost"
 - "Grave"
- Based on a representative sample of German insurants a list of diseases was fixed
- These diseases were then partly split in several HMGs, some of them represent different severities

Disease selection criteria

- "Disease" is based on a modified DxCG algorithm, which groups ICD-diagnosis-codes into 781 DxGroups
- "Chronic" means: 50% of the insurants with a disease (DxG) have it documented in at least 2 quarters of a year
- Disease (DxG) causes "high costs" if the standardised, windsorised, and annualised average costs of the affected insurants are above the 70th percentile of the cost distribution
- "Grave" means "high costs" plus hospitality rate > 5%
- The list of DxGroups is aggregated into a diseases list, which is reduced by plausibility proof

SOURCE: team analysis 72

Allocation amount per age/morbidity group is calculated by prospective regression

```
\begin{aligned} \text{Health costs, 2009} = & & W_{\text{AGG001}} \text{ x AGG001} + W_{\text{AGG002}} \text{ x AGG002} + \\ & + & W_{\text{EMG001}} \text{ x EMG}_{001} + W_{\text{EMG002}} \text{ x EMG}_{002} + \dots \\ & + & W_{\text{HMG001}} \text{ x HMG}_{001} + W_{\text{HMG002}} \text{ x HMG}_{002} + \dots \\ & + & W_{\text{KEG}} \text{ x KEG,} \\ & & \text{for each insurant, W = weight}^1 \end{aligned}
```

- The values of all AGG_i, EMG_i, HMG_i, KEG are 0 or 1
- One insurant
 - has 1 AGG_i with value 1,
 - can have maximum 1 EMG; with value 1
 - and no, 1 or more HMG; with value 1
- The health costs are annualised
- The diagnosis and drugs, which define the morbidity groups (HMG), are from 2008 (prospective method)
- Regression method is linear, weighted least square
- Groups with 0 or negative weights are eliminated and the regression is done again

1 Which gives the allocation amount

SOURCE: team analysis

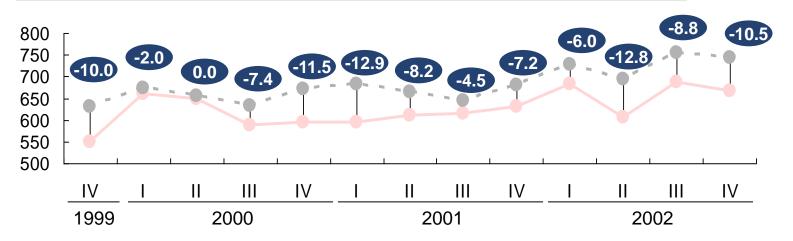
Costs of care have been consistently lower for Prosper integrated care networks compared to comparators

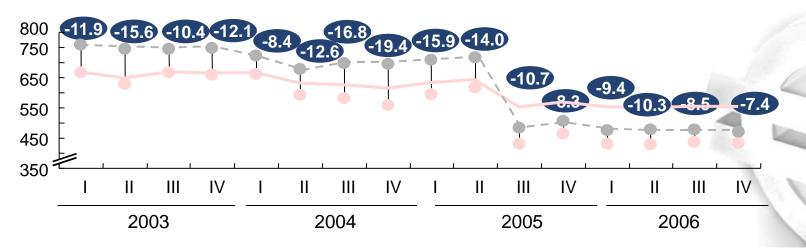
People insured in network

Percent

Network surplus for Prosper Bottrop compared to control group

Quarterly spend, € per person insured





Contents

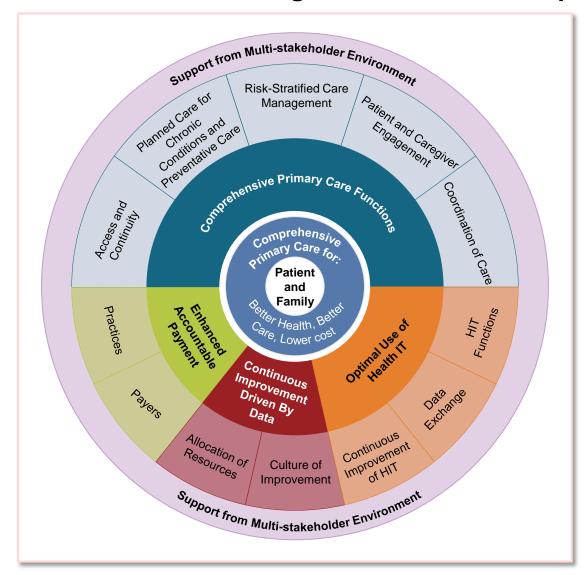
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ACO group delivery models use shared payments to incentivise improved coordination of care



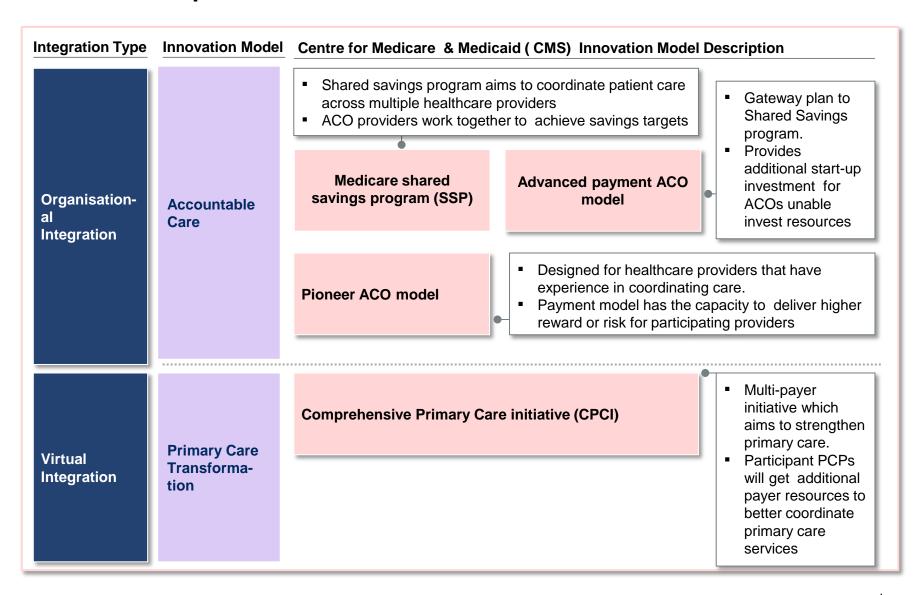
- Accountable Care Organisations (ACOs) are groups of healthcare professionals who come together to coordinate patient care
- ACO models aim to deliver seamless, coordinated care.
 ACO models include:
 - Medicare Shared Saving Program
 - Advanced Payment ACO Model
 - Pioneer ACO Model
- Participants are performance managed on 33 quality measures and key saving targets
- Providers are able to share achieved savings based on performance set financial savings

Comprehensive Primary Care Initiative is a multi-payer programme which aims to strengthen coordination of primary care



- Comprehensive Primary Care Initiative (CPCI) is a multi-payer initiative that aims to help primary care practices (PCPs) deliver:
 - High quality ,
 - Better Coordinated
 - Patient Centred Care
- Participant primary care practices were given resources to better coordinate care to ensure they
 - Delivered preventative care
 - Managed care for patients with high health needs
 - Ensure access to care
 - Engage patients & carers
- Working closely with commercial and state insurance plans,
 Medicare offered bonuses to primary care doctors who better coordinated care

Each of the CMS delivery models uses varying degrees integration to facilitate improved care coordination





Medicare Shared Savings Program



Context & Goal

- In 2010, President Obama signed the Affordable Care Act (ACA) in order to make healthcare affordable & accessible
- A key part of the Act required CMS to establish a Medicare Shared Saving programme by January 2012
- Using Accountable Care Organisations ¹ as the main vehicle of delivery, the Shared Saving programme (SSP) aimed to:
 - Reduce fragmentation of Medicare healthcare services by improving coordination of care
 - Promote increased patient accountability for Medicare fee-forservice beneficiaries
 - Encourage investment into the redesigning care processes and enhance quality and efficiency of service delivery

Measurement of success

- ACOs will be performance managed on quality measures and good financial performance. 33 quality indicators are arranged in 4 domains3
 - Patient / Care Giver Experience
 - Care Coordination/ Patient Safety
 - Preventative Health
 - At Risk Population e.g. Diabetes, Cardiac Ischemic Disease
- Providers can receive between 50 to 60 % of shared savings, depending on the type of risk model adopted (one way vs. two way)
- Financial savings will have to be demonstrated if:
 - Assigned population expenditures are below established benchmarks and expenditure exceed minimum savings rates

Payment Mechanisms

- ACO service providers are eligible to receive up to 50 to 60% of shared savings targets, on condition that they:
 - Successfully satisfy quality performance standards, and
 - Reduce healthcare expenditure
- Providers participating in the SSP programme receive traditional Medicare fee-for-service payment

Facts about uptake

- December 2011 32 ACOs
- July 2012 –90 ACOs
- January 2013 100+ ACOs

Participation criteria

- ACOs should have a clear coordination process across care
- ACOs should be willing to become accountable for the quality, cost and overall care of Medicare beneficiaries
- Provider eligibility is restricted to
 - ACO professionals operating in group practice arrangements
 - Network of practices /ACO professionals I
 - Partnerships/ joint vent. between hospitals & ACO profess.
 - Hospitals employing ACO professionals

Facts about impact

- Average ACO start-up investment and four-year operating costs is estimated to be \$451 million
- Net federal ACO savings are estimated to be \$370 million by 2015

Note: 1. Accountable Care Organizations refer to a group of physicians, hospitals and other suppliers of services that will work together to provide Coordinate care to Medicare beneficiaries 2. Each domain will receive equal weighting at 25%



Advance Payment Accountable Care Organisation Model



Context & Goal

- The Shared Savings Programme was developed by the CMS to improve co-ordination of care delivery
- Estimations predict the start-up investment costs for participating ACOs could reach \$157 mil¹
- During the consultation process, some providers expressed concerns about the lack of ready access to capital to invest in enhancing delivery
- The Advance Payment model will facilitate participation in the Shared Savings Program by providing additional start-up resources to smaller ACOs
- The budgeted \$170 million will go towards :
 - Installation or upgrade of information technology systems
 - Workforce expansion to meet increased level of demand

Measurement of success

- Spend plans were submitted upon application and approved by the CMS Innovation Centre
- The plans therefore create a set of pre-agreed standards which must be adhered to, including:
 - Cost of procurement, activities and hiring
 - Feasible time-frame for these costs within the first 18 months of the agreement
 - Outline of how investments will aid in financial and population care management
 - Outline of how investments will build upon existing experience and infrastructure

Payment Mechanisms

- The initiative utilises a three-part payment model :
 - An upfront fixed payment
 - An upfront variable payment based on the historical number of beneficiaries
 - A monthly payment based on the size of the ACO/ historical number of beneficiaries
- CMS will recoup these payments from participating ACOs' shared savings

Facts about uptake

- April 2012- 5 ACOs
- July 2012- 20 ACOs
- January 2013- 35 ACOs

Participation criteria

- Eligibility criteria:
 - Total annual revenue less than \$50 million AND inpatient facilities only
 - Total annual revenue less than \$80 million AND all inpatient facilities provided by critical access hospitals or Medicare lowvolume rural hospitals
 - Entry into the Shared Savings Programme in April/July 2012
- Exclusion criteria:
 - ACO is co-owned with a health plan

Facts about impact

The payment model should facilitate small rural and physician-based organisations participating in the Shared Savings Programme

Note: 1. The estimated range is \$29-157mil for the anticipated range of 50-270 ACOs. Annual on-going costs for the 4-year program are estimated at \$63-342 million



Pioneer Accountable Care Organisations Model Program



Context & Goal

- The CMS Innovation Centre was created by the 2010 Affordable Care Act as means test new models of healthcare payment
- The Pioneer ACO model was launched as a separate & distinct program from Medicare Shared Saving Programme & other ACO initiatives
- More specifically the Pioneer model was/has:
 - Designed for providers with experience in operating in ACO or similar arrangements, and therefore
 - Higher levels of shared savings and losses in comparison with Medicare SSP
 - Capacity to transition from fee-for-service to capitation financing models of providers meet savings target

Measurement of success

- Pioneer participants are performance managed on the same quality measures as the Medicare SSP.- 33 quality indicators are arranged across 4 domains3
 - Patient / Care Giver Experience
 - Care Coordination/ Patient Safety
 - Preventative Health
 - At Risk Population e.g. Diabetes, Cardiac Ischemic Disease
- Financial savings will have to be demonstrated if:
 - Assigned population expenditures are below established benchmarks and expenditure exceed minimum savings rates

Payment Mechanisms

- The Pioneer model payments arrangements result in higher levels of reward and risk for participating provider
- ACOs that have shown savings over during this time, are eligible to move to a population-based payment model
- Population based payment is paid to ACO on a per beneficiary per month

Facts about uptake

- December 2011 32 ACOs
- July 2012 –90 ACOs
- January 2013 100+ ACOs

Participation criteria

- Provider eligibility is restricted to:
 - ACO professionals operating in group practice arrangements
 - Network of practices /ACO professionals I
 - Partnerships/ joint vent. between hospitals & ACO profess.
 - Hospitals employing ACO professionals
- Participants have to demonstrate that they have 15k beneficiaries
- Pioneer ACOs had to demonstrate at least 50% its primary care providers adopted Electronic Records once enrolled

Facts about impact

- Average ACO start-up investment and four-year operating costs is estimated to be \$451 million
- Net federal ACO savings are estimated to be \$370 million by 2015

Note: 1. Shared savings targets are determined using CMS patient expenditure peer groups

PAYMENT DESIGN & EVALUATION



Comprehensive Primary Care Initiative



Context & Goal

- Primary Care Transformation is a key objective outlined in the Affordable care Act
- Improvements in primary care delivery have historically been hampered by fragmentation within the sector
- The CPC Initiative aims to achieve better integration and co-ordination of patient care by using a collaborative approach between private and public healthcare payers
- Key incentives include:
 - Resources to aid in the co-ordination of care for their Medicare patients
 - Bonus payments to physicians demonstrating better care for patients insured in both commercial and State health plans

Measurement of success

- Milestones for end of year 2013 were included in the terms and conditions upon application. These included:
 - Detailed care management plans for patients identified as being high-risk
 - 24/7 access to a clinician with real-time access to patients' medical records
 - The provision of quarterly reports detailing at least one quality and one utilisation measure from a pre-approved list
 - The identification of a priority condition, test or decision that would benefit from shared-decision making and make a decision aid available to appropriate patients
 - Meet the Stage 1 requirements of Meaningful Use, Medicare's electronic health record incentive program
- Failure to comply may result in termination from the project

Payment Mechanisms

- The initiative utilises a two-part payment model :
- Monthly care management fees for Medicare beneficiaries: \$20 per beneficiary/per month in the first two years, reducing to \$15 in years 3 and 4.1
- Shared savings in Medicare FFS: After two years all participants will be invited to share in a portion of total Medicare savings

Facts about uptake

- October 2011 Initiative announced
- August 2012 500 participating primary care practices announced after selection process
- August 2013 497 primary care practices representing:
 - 2,347 providers and 315,000 Medicare beneficiaries

Participation criteria

- Markets selected required an array of different payers, strong willingness to participate and geographical diversity²
- States were excluded if there were already part of the Multi-payer Advanced Primary Care Practice demonstration
- Practices were selected upon numerous considerations including :
 - Agreement to provide the extended package of services
 - Use of healthcare information technology
 - Ability to demonstrate recognition of advanced models of primary care delivery

Facts about impact

- Substantial savings are expected from the initiative, as implicated by the shared savings scheme
- The impact is currently unknown although the CMS claims the results of the 4year programme will inform future approaches to transforming primary care

Note: 1. Payments are risk-adjusted and range from \$8-\$40. Payments stated represent the expected monthly average.

2. Locations chosen were: Arkansas, Colorado, New Jersey, Oregon and specified regions in New York, Ohio/Kentucky, Oklahoma

SOURCE: CMS website, CPCI factsheet; CPCI FAQ page, CPC Practice Solicitation

Abbreviations guide

AAPCC AGG	against average per capita cost (US) age gender group (Germany)	HCC HEDIS	hierarchical condition category (US) Health Care Effectiveness Data and Information
ACO AHRQ	Accountable Care Organization (US) Agency for Healthcare Research and	HHS	Set (US) Health and Human Services (US)
	Quality (US)	HIE	Health Information Exchange (US)
BBC	Bangor Beacon Community (US)	HIT	health information technology
BP	blood pressure	HMO	health maintenance organization
BVA	Federal Agency for Statutory Insurance	HOS	health of seniors (US)
	(Germany)	HRG	Healthcare Resource Group (aka DRG)
CAD	coronary artery disease	IP	Inpatient
CAHPS	Consumer Assessment of Health Care	KEG	particular insurance status (Germany)
	Providers and Systems (US)	KPI	key performance indicator
CHF	congestive heart failure	LTC	long term care
CMS	Centers for Medicare & Medicaid Services	MA	Medicare Advantage (US)
	(US)	MCO	managed-care organization (US)
COPD	chronic obstructive pulmonary disease	MSR	Minimum Savings Rate (US)
CPCI	Comprehensive Primary Care Initiative (US)	NCQA	National Committee for Quality Assurance (US)
CPI	consumer price index	ONC	Office of the National Coordinator (US)
DCG	diagnostic cost group	OP	outpatient
DxG	diagnostic group	PCMH	Patient Centered Medical Home (US)
DM	diabetes mellitus	PCP	Primary Care Physician (US)
DMP	disease management programme	PI	performance improvement
ED	Emergency Department	PPO	preferred-provider organization (US)
EHR/EMR	electronic health/medical record	PPP	public private partnership
EMG	particular insurance status (Germany)	PMPM	per member per month (US)
FFS	fee-for-service	PMPY	per member per year (US)
FQHC	Federally Qualified Health Center (US)	RSA	risk equalisation scheme (Germany)
GP	General Practitioner	UTE	consortium (Spain)
HbA1c	glycated haemoglobin (used as a measure of diabetes control)		