

DESCRIPTIONS OF HEALTH CARE SYSTEMS: DENMARK, FRANCE, GERMANY, THE NETHERLANDS, SWEDEN, AND THE UNITED KINGDOM

FEBRUARY 2008

The Danish Health Care System

Karsten Vrangbaek

Associate Professor, Department of Political Science, University of Copenhagen

Who is covered?

Coverage is universal and compulsory. All those registered as resident in Denmark are entitled to health care that is largely free at the point of use.

What is covered?

Services: The publicly-financed health system covers all primary and specialist (hospital) services based on medical assessment of need.

Cost-sharing: There are relatively few cost-sharing arrangements for publicly-covered services. Cost-sharing applies to dental care for those aged 18 and over (co-insurance of 35% to 60% of the cost of treatment), outpatient drugs and corrective lenses. An individual's annual outpatient drug expenditure is reimbursed at the following levels: below DKK 465 (\$90) – no reimbursement (50% reimbursement for children); DKK 465-1125 (\$90-217) – 50% reimbursement; DKK 1125-2645 (\$217-511) – 75% reimbursement; above DKK 2645 (\$511) – 85% reimbursement (MISSOC 2007). In 2005, out-of-pocket payments, including cost-sharing, accounted for about 14% of total health expenditure (World Health Organization 2007).

Safety nets: Chronically ill patients with a permanently high use of drugs can apply for full reimbursement of drug expenditure above an annual ceiling of DKK 3410 (\$658). People with very low income and those who are dying can also apply for financial assistance, and the reimbursement rate may be increased for some very expensive drugs. Complementary private health insurance provided by a not-for-profit organization reimburses cost-sharing for pharmaceuticals, dental care, physiotherapy and corrective lenses. In 1999 it covered about 30% of the population. Coverage is relatively evenly distributed across social classes.

How is the health system financed?

Publicly-financed health care: A major administrative reform in 2007 gave the central government responsibility for financing health care. Health care is now mainly financed through a centrally-collected tax set at 8% of taxable income and earmarked for health. The new proportionate earmarked tax replaces a mixture of progressive central income taxes and proportionate regional income and property taxes. The central government allocates this revenue to five regions (80%) and 98 municipalities (20%) using a risk-adjusted capitation formula and some activity-based payment. Public expenditure accounted for around 82% of total health expenditure in 2005 (World Health Organization 2007).

Private health insurance: Around 30% of the population purchase complementary private health insurance covering statutory cost sharing from the not-for-profit organization 'Danmark.' Supplemental private health insurance provided by for-profit companies offers access to care in private hospitals in Denmark and abroad. It covers around 5% of the population and is mainly purchased by employers as a fringe benefit for employees. In 2005, private health insurance accounted for 1.6% of total health expenditure (World Health Organization 2007).

How is the delivery system organized?

Government: The five regions are responsible for providing hospital care and own and run hospitals and prenatal care centers. The regions also finance general practitioners, specialists, physiotherapists, dentists and pharmaceuticals. The 98 municipalities are responsible for nursing homes, home nurses, health visitors, municipal dentists (children's dentists and home dental services for physically and/or mentally disabled people), school health services, home help and the treatment of alcoholics and drug addicts. Professionals involved in delivering these services are paid a salary. *Physicians*: Self-employed general practitioners act as gatekeepers to secondary care and are paid via a combination of capitation (30%) and fee-for-service. Hospital physicians are employed by the regions and paid a salary. Non-hospital based specialists are paid on a fee-for-service basis.

Hospitals: Almost all hospitals are publicly owned (99% of hospital beds are public). They are paid partly via fixed budgets determined through soft contracts with the regions and partly on a fee for service basis.

What is being done to ensure quality of care?

A comprehensive standards-based program for assessing quality is currently being implemented. The program is systemic in scope, aiming to incorporate all health care delivery organizations and including both organizational and clinical standards. Organizations are assessed on their ability to improve standards in processes and outcomes. The core of the assessment program is a system of regular accreditation based on annual self-assessment and external evaluation (every third year) by a professional accreditation body. The self-assessment involves reporting of performance against national input, process and outcome standards, which allows comparison over time and between organizations. The external evaluation begins with the self assessment and goes on to assess status for quality development. Some quality data is already being published on the Internet (www.sundhedskvalitet.dk) to facilitate patient choice of hospital and encourage hospitals to raise standards.

What is being done to improve efficiency?

In the last few years, many national and regional initiatives have aimed to improve efficiency, with a particular focus on hospitals. For example, Denmark has been at the forefront of efforts to reduce average lengths of stay and to shift care from inpatient to outpatient settings. The administrative reforms of 2007 aimed to enhance the coordination of service delivery and to benefit from economies of scale by centralizing some functions and enabling the closure of small hospitals. The reforms lowered the number of regions from 14 to five, and the number of municipalities from 275 to 98. The introduction of a Danish DRG (diagnosis-related groups) system in the late 1990s has facilitated various partially-activity-based payment schemes (for example, for patients crossing county borders) and benchmarking exercises. The national Ministry of Health also publishes regular hospital productivity rankings.

How are costs controlled?

Annual negotiations between the central government and the regions and municipalities result in agreement on the economic framework for the health sector, including levels of taxation and expenditure. The negotiations contribute to control of public spending on health by instituting a national budget cap for the health sector. They also form the basis for resource allocation from the central government. At the regional and municipal level, various management tools are used to control expenditure, in particular contracts and agreements between hospitals and the regions, and ongoing monitoring of expenditure development. Policies to control pharmaceutical expenditure include generic substitution by doctors and/or pharmacists, prescribing guidelines and systematic assessment of prescribing behavior. Health technology assessment (HTA) is now an integral part of the health system, with assessments carried out at central, regional and local levels.

References

MISSOC (2007). Social protection in the Member States of the European Union, of the European Economic Area and in Switzerland: situation on 1 January 2007,

http://ec.europa.eu/employment_social/spsi/missoc_tables_en.htm#table20 7 accessed on 18 December 2007. Brussels, European Commission.

The French Health Care System Isabelle Durand-Zaleski

Professor of Medicine, University of Paris XII

Who is covered?

Coverage is universal. All residents are entitled to publicly-financed health care. Following the introduction of *Couverture Maladie Universelle* (CMU) in 2000, the state finances coverage for residents not eligible for coverage by the public health insurance scheme (0.4% of the population). The state also finances health services for illegal residents (*L'Aide Médicale d'Etat*; AME).

What is covered?

Services: The public health insurance scheme covers hospital care, ambulatory care and prescription drugs. It provides minimal coverage of outpatient eye and dental care.

Cost-sharing: Cost-sharing is widely applied to publicly-financed health services and drugs and takes three forms: co-insurance, co-payments, and extra billing.

Co-insurance rates are applied to all health services and drugs listed in the publicly-financed benefits package. Co-insurance rates vary depending on:

- the type of care: hospital care (20% plus a daily co-payment of €16/\$23), doctor visits (30%), dental care (30%)
- the type of patient: patients suffering from chronic conditions and poorer patients are exempt from cost sharing
- the effectiveness of the prescription drug: 0% for highly effective drugs, 35%, 65% and 100% for drugs of limited therapeutic value
- whether or not patients comply with the recently-implemented gatekeeping system (*médecin referent*): visits to the gatekeeping general practitioner (GP) are subject to a 30% co-insurance rate, while visits to other GPs are subject to a 50% co-insurance rate; the difference between the two rates cannot be reimbursed by complementary private health insurance (see below).

In addition to cost-sharing through co-insurance, which can be fully reimbursed by complementary private health insurance, the following non-reimbursable co-payments will apply from 2008, up to an annual ceiling of $\mathfrak{S0}$ (\$72): \mathfrak{A} per doctor visit (\$1.50), $\mathfrak{O}.50$ (\$0.75) per prescription drug, $\mathfrak{E2}$ (\$3) per ambulance journey and $\mathfrak{E18}$ (\$26) for expensive treatment.

Reimbursement by the publicly-financed health insurance scheme is based on a reference price. Doctors and dentists may charge above this reference price (extra billing) based on their level of professional experience. The difference between the reference price and the extra billed amount must be paid by the patient and may or may not be covered by complementary private health insurance.

Safety nets: Exemptions from co-insurance apply to people receiving invalidity and work injury benefits, people with specific chronic illnesses and people with low income. Hospital co-insurance only applies for the first 31 days in hospital and some surgical interventions are exempt. Children and people with low income are exempt from paying non-reimbursable copayments. Complementary private health insurance covers statutory costsharing (the share of health care costs not reimbursed by the health insurance scheme). It only applies to health services and prescription drugs listed in the publicly-financed benefits package. Most people obtain complementary private coverage through their employer. Since 2000, people with low income are entitled to free complementary private cover (CMU-C) and free eye and dental care; in addition, they cannot be extra billed by doctors. Complementary private health insurance covers over 92% of the population. In 2005 out-of-pocket payments and private health insurance accounted for 7.4% and 12.8% of total health expenditure respectively (World Health Organization 2007).

How is the health system financed?

Publicly-financed health care: The public health insurance scheme is financed by employer and employee payroll taxes (43%); a national income tax (*contribution sociale generalisée*; 33%) created in 1990 to broaden the revenue base for social security; revenue from taxes levied on tobacco and alcohol (8%); state subsidies (2%); and transfers from other branches of social security (8%). CMU is mainly financed by the state through an earmarked tax on tobacco and through a 2.5% tax on the revenue of complementary private health insurers. There is no ceiling on employer (12.8%) and employee (0.75%) contributions, which are collected by a national social security agency. Public expenditure accounted for 79.1% of total expenditure on health in 2005 (World Health Organization 2007).

Government: The public health insurance funds are managed by a board of representatives, with equal representation from employers and employees (trades unions). Every year parliament sets a (soft) ceiling for the rate of expenditure growth in the public health insurance scheme for the following year (ONDAM¹). In 2004 a new law created two new associations, the National Union of Health Insurance Funds (UNCAM²) and the National Union of voluntary health insurers (UNOCAM³), incorporating all public health insurance funds and private health insurers respectively. The law also gave the public health insurance funds responsibility for defining the benefits package and setting price and cost-sharing levels.

Private health insurance: Complementary private health insurance reimburses statutory cost-sharing. It is mainly provided by not-for-profit employment-based mutual associations (*mutuelles*), which cover 87% to 90% of the population. It only covers those services that are already covered by the public health insurance scheme. There is some evidence to show that the quality of coverage purchased (in other words, the extent of reimbursement) varies by income group. Since 2000, people with low income (unemployed people, people with low income and people receiving single parent subsidies) and their dependants have been entitled to obtain complementary private cover at little to no cost (CMU-C). CMU-C covers

about two million people via a voucher which can be used to obtain cover from a variety of insurers, although most choose to obtain cover from the public health insurance scheme. More recently, for-profit commercial insurers have begun offering coverage for services not included in the public benefits package. For example, the company AXA offered a plan giving faster access to renowned specialists, but this was outlawed by the physicians' association and parliament.

How is the delivery system organized?

Health insurance funds: Public health insurance funds are statutory entities and membership is based on occupation, so there is no competition between them. There is limited competition among mutual associations providing complementary private health insurance, but as they are employment-based, most employees usually only have a choice of one or two *mutuelles*. There is no system of risk adjustment among *mutuelles*, even though there is inadvertent risk selection based on occupation.

Physicians (*non-hospital based physicians*): The 2004 health financing reform law introduced a voluntary gatekeeping system for adults (aged 16 years and over) known as *médecin traitant*. There are strong financial incentives to encourage gatekeeping. Physicians are self-employed and paid on a fee-for-service basis. The cost per visit is slightly higher for specialists (€23; \$33) than for GPs (€22; \$32) and is based on negotiation between the government, the public insurance scheme and the medical unions. Depending on the total duration of their medical studies, physicians may charge above this level. There is no limit to what physicians may charge, but medical associations recommend tact in determining fee levels.

Hospitals: Two-thirds of hospital beds are in government-owned or not-forprofit hospitals. The remainder are in private for-profit clinics. All university hospitals are public. Hospital physicians in public or not-forprofit facilities are salaried. Since 1968, hospital physicians have been permitted to see private patients in public hospitals, an anachronism originally intended to attract the most prestigious doctors to public hospitals, and one that has survived countless attempts to abolish it. From 2008, all hospitals and clinics will be reimbursed via the DRG-like prospective payment system (the original DRG scheme was only to be fully implemented by 2012). Public and not-for-profit hospitals benefit from

¹ Objectif National de Dépenses d'Assurance Maladie.

² Union Nationale des Caisses d'Assurance Maladie.

³ Union Nationale des Organismes Complémentaires d'Assurance Maladie.

additional non activity-based grants to compensate them for research and teaching (up to an additional 13% of the budget) and for providing emergency services and organ harvesting and transplantation (on average an additional 10-11% of a hospital's budget).

What is being done to ensure quality of care?

An accreditation system is used to monitor the quality of care in hospitals and clinics. The quality of ambulatory care rests on a system of professional practice appraisal. Both systems are mandatory, under the responsibility of the national health authority (HAS) created in 2004. Hospitals must be accredited every four years by a team of experts. The accreditation criteria and reports are publicly available via the HAS website (www.has-sante.fr). Every fifth year, physicians are required by law to undergo an external assessment of their practice in the form of an audit. For hospital physicians, the practice audit can be performed as part of the accreditation process. For physicians in ambulatory practice, the audit is organized by an independent body approved by HAS (usually a medical society representing a particular specialty). Dentists and midwives will soon have to undergo a similar process.

What is being done to improve efficiency?

Improving efficiency is the major challenge facing the public health insurance funds, which are currently working on structural and procedural changes. Structural changes involve the creation of a national computerized system of medical records to limit duplication of tests, over-prescribing and adverse drug side effects, and to facilitate the implementation of prospective payment for all hospitals and clinics from 2008. Procedural changes on the supply side mainly focus on two issues: the reorganization of inputs (for example, by transferring some physician tasks to nurses or other professionals) and improved coordination of care (particularly for patients with chronic illnesses). On the demand side, the main health insurance scheme is experimenting with patient education and hotlines. From 2008 it will also transfer some drugs to over-the-counter status.

How are costs controlled?

Cost control is a key issue in the French health system, as the health insurance scheme has faced large deficits for the last 20 years. More recently the deficit has fallen, from l0-12 billion per year in 2003 (\$14-17 billion) to an expected 6 billion in 2007 (\$8.6 billion). This may be attributed to the following changes, which have taken place in the last two years:

- a reduction in the number of acute hospital beds
- limits on the number of drugs reimbursed; around 600 drugs have been removed from public reimbursement in the last few years
- an increase in generic prescribing and the use of over the counter drugs
- the introduction of a voluntary gatekeeping system in primary care
- protocols for the management of chronic conditions
- from 2008, new co-payments for prescription drugs, doctor visits and ambulance transport will not be reimbursable by complementary private health insurance

At the same time, there has been an increase in the number of medical students admitted to university due to an expected shortage of doctors in the coming decade. Public funding has also had to increase to accommodate a rise in the fee schedule, since GPs are now considered as specialists and their cost per visit has risen from $\notin 20$ (\$29) to $\notin 22$ (\$32).

References

The German Health Care System Reinhard Busse, M.D. M.P.H. Professor of Health Care Management Berlin University of Technology & Charité – University Medicine Berlin

Who is covered?

Public ("social") health insurance (SHI) is compulsory for people earning up to around €48,000 per year, including dependents who are included in the insurance. This applies to around 75% of the population. Individuals with earnings above €48,000 per year (around 20% of the population) are currently not required to be covered. If they wish, they can remain in the publicly-financed scheme on a voluntary basis (and 75% of them do), they can purchase private health insurance, or they can theoretically be uninsured. The publicly-financed scheme covers about 88% of the population. In total, 10% of the population are covered by private health insurance, with civil servants and self-employed being the largest groups (both of which are excluded from SHI). Less than 1% of the population has no insurance coverage. From 2009, health insurance will be mandatory, depending on previous insurance and/or job status either in the social or in the private health insurance scheme.

What is covered?

Services: The SHI benefits package covers preventive services; inpatient and outpatient hospital care; physician services; mental health care; dental care; prescription drugs; medical aids; rehabilitation; and sick leave compensation. Since 1995, long-term care is covered by a separate insurance scheme, which is mandatory for the whole population.

Cost-sharing: Traditionally, the SHI scheme has imposed few cost-sharing provisions (mainly for pharmaceuticals and dental care). However, in 2004 co-payments were introduced for visits by adults aged 18 years and older to physicians and dentists (el0 each for the first visit per quarter or subsequent visits without referral); other co-payments were made more uniform: \oiint to

€10 per pack of outpatient medications (except if the price is at least 30% below the so-called reference price, i.e. the maximum reimbursable amount for drugs of equivalent effectiveness, which is the case for more than 12,000 drugs), €10 per inpatient day (up to 28 days per year), and €5 to €10 for prescribed medical aids. For dental prostheses, patients receive a lump sum which on average covers 50% of costs. In total, out-of-pocket payments accounted for 13.8% of total health expenditure in 2005.

Safety Nets: Cost-sharing is generally limited to 2% of household income. For additional family members, part of the household income is excluded from this calculation. For the chronically ill, the cost-sharing limit is 1%. A directive sets out the conditions for qualifying as chronically ill; since 2008 it is also necessary to demonstrate that the person has received counselling on screening measures prior to the illness.

How is the health system financed?

Publicly-Financed Scheme (SHI): The SHI scheme is operated by over 200 competing health insurance funds (sickness funds; SFs): autonomous, not-for-profit, non-governmental bodies regulated by law. The scheme is funded by compulsory contributions based on wages up to a limit of around €43,000 per year. For 2008, the average insured employee (or pensioner) contributes almost 8% of the gross wage, while the employer (or the pension fund) adds another 7% on top of the gross wage, so the combined maximum contribution is around €40 per month. This includes dependents (non-earning spouses and children) who are covered through the primary SF member. Unemployed people contribute in proportion to their unemployment entitlements, but for long-term unemployed people with a fixed low entitlement (so-called "Hartz IV"), the government employment

agency pays a fixed per capita premium. Currently, SFs are free to set their own contribution rates for all other insured. Beginning in 2009, a uniform contribution rate will be set by the government and, although SFs will continue to collect contributions, all contributions will be centrally pooled by a new national health fund, which will allocate resources to each SF based on an improved risk-adjusted capitation formula. This formula will, in addition to age and sex, take morbidity from 80 chronic and/or serious illnesses into account, i.e. SFs will receive considerably more for patients with cancer, AIDS or cystic fibrosis than for "ordinary" insured. In 2009, SFs may charge an additional nominal premium if the received resources are insufficient. In 2005, public sources of finance accounted for 77.2% of total health expenditure.

Private health insurance (PHI): Private health insurance plays a substitutive role in covering the two groups excluded from SHI (civil servants, who are refunded parts of their health care costs by their employer, and the self-employed), as well as high earners who choose to opt out of the publicly-financed scheme. All pay a risk-related premium, with separate premiums paid for dependents; the risk is assessed upon entry only, though as contracts are based on life-time underwriting. Substitutive private health insurance is regulated by the government to ensure that the insured do not face massively increasing premiums by age and that they are not overburdened by premiums if their income decreases. Starting in 2009, private insurers offering substitutive cover will be required to take part in a risk adjustment scheme (separate from SHI) to be able to offer insurance for persons with ill health who could otherwise not afford a risk-related premium. PHI also plays a mixed complementary and supplementary role, adding certain minor benefits to the SHI basket, providing access to better amenities, such as single/double rooms, and covering some co-payments, especially for dental care. In 2005, PHI accounted for 9.1% of total health expenditure.

How is the delivery system organised?

Physicians: General practitioners have no formal gatekeeper function. However, in 2004 SFs were required to offer their members the option to enroll in a "family physician care model" which provides a bonus for complying with gatekeeping rules. Ambulatory care in all specialities is mainly delivered by physicians working in solo practices, although polyclinic-type ambulatory care centres with employed physicians have been allowed since 2004. Physicians in the outpatient sector are paid by a mixture of fees per time period and per medical procedure. SFs annually negotiate with the regional associations of physicians to determine aggregate payments, which ensures cost control.

Hospitals: Hospitals are mainly non-profit, both public (about half of all beds) and private (around one-third of all beds). The private, for-profit segment has been growing over the last years (around one-sixth of all beds), mainly through takeovers of public hospitals. Independent of ownership, hospitals are principally staffed by salaried doctors. Senior doctors may also treat privately-insured patients on a fee-for-service basis. Doctors in hospitals are typically not allowed to treat outpatients. Exceptions have been made if necessary care cannot be provided on an outpatient basis by specialists in private practice. Since 2004, hospitals may also provide certain highly specialized services on an outpatient basis. Inpatient care is paid through a system of diagnosis-related groups (DRG) per admission, currently based on around 1,100 DRG categories. The system was introduced in 2004 and is revised annually to take new technologies, changes in treatment patterns, and associated costs into account.

Individuals have free choice of ambulatory care physicians and, if referred to inpatient care, of hospitals.

Disease Management Programs (DMPs): Legislation in 2002 created DMPs for chronic illnesses in order to give the SFs an incentive to care for chronically ill patients. DMPs currently exist for diabetes types 1 and 2, breast cancer, coronary heart disease, asthma and chronic obstructive lung disease. DMP participants are accounted separately in the risk-adjusted reallocation mechanism between SFs, i.e. they generally receive higher percapita allocations than for non-DMP participants. Through that mechanism, SFs with higher shares of DMP patients receive higher compensation. There are currently 14,000 regional DMPs with 3.8 million enrolled patients (as of late 2007).

Government: The German government delegates regulation to the selfgoverning corporatist bodies of both the SFs and the medical providers' associations. The most important body is the Federal Joint Committee, created in 2004 to increase efficacy and compliance; it replaced several sectoral committees. However, more purchasing powers are also given directly to the individual SFs, e.g. to contract providers directly, to negotiate rebates with pharmaceutical companies or to procure medical aids.

What is being done to ensure quality of care?

Quality of care is addressed through a range of measures: *Structural quality* is addressed by the requirement to have a quality management system for all providers, the obligation for continuous medical education for all physicians, and health technology assessment for drugs and procedures (for which the Institute for Quality and Efficiency, IQWiG, was founded in 2004), while hospital accreditation is voluntary. Minimum volume requirements were introduced for a number of complex procedures (e.g. transplantations), thereby requiring hospitals to provide this number in order to be reimbursed. *Process and partly outcome quality* is addressed through the mandatory quality reporting system for all 1800+ acute care hospitals. Under this system, more than 150 indicators are measured for 30 indications covering about one-sixth of all inpatients in Germany. Hospitals receive an individual feedback. Since 2007, around 30 indicators are made public in annual, mandatory hospital quality reports.

What is being done to improve efficiency?

Besides the measures to increase quality listed above, a set of other measures addresses efficiency more directly. All drugs, both patented and generic, have been subject to reference prices since 2004, unless they can demonstrate a clear added medical benefit. From 2008, IQWiG will explicitly evaluate the cost-effectiveness of drugs, thereby adding pressure on pharmaceutical prices. As mentioned, all hospitals are reimbursed through DRGs, so hospitals are paid the same for the same type of patient. As DRGs weights are calculated based on average costs, this puts enormous pressure on less efficient hospitals.

How are costs controlled?

In line with placing more emphasis on quality and efficiency, the previously imposed, relatively crude, but successful cost-containment measures (especially sector-wide budgets for ambulatory physicians, hospital budgets, collective prescription caps for physicians on a regional basis) are carefully revised. The prescription cap, which complemented the reference prices for pharmaceuticals, was lifted in 2001, initially leading to an unprecedented increase in spending on pharmaceuticals by the SFs. Then, prescription caps with individual liabilities were introduced. More recently negotiated rebates between SFs and pharmaceutical manufacturers and incentives to lower prices below the reference prices are the major instruments. Hospital budgets are being phased out between 2005 and 2008, while per-case DRGs become the main instrument to reimburse inpatient care. From 2009, the fixed budgets for ambulatory care will be replaced by more flexible budgets that take population morbidity into account.

The Dutch Health Care System Niek Klazinga Professor of Social Medicine Academic Medical Centre, University of Amsterdam

Who is covered?

Since January 1, 2006, all residents or those paying income tax in the Netherlands are required to purchase health insurance coverage⁴. Coverage is statutory under the Health Insurance Act (Zorgverzekeringswet; ZVW) but provided by private health insurers and regulated under private law. The uninsured proportion of the population is estimated to be 1.5%, a figure that is likely to rise further (Maarse 2007). Asylum seekers are covered by the government and several mechanisms are in place to reimburse the health care costs of illegal immigrants unable to pay for care. New legislation regarding the health care costs of illegal immigrants is being debated in parliament.

Prior to 2006, people with earnings above approximately 30,000 (\$43,130) per year and their dependants (around 35% of the population) were excluded from statutory coverage provided by public sickness funds and could purchase coverage from private health insurers. This form of substitutive private health insurance⁵ was regulated by the government to ensure older people and people in poor health had adequate access to health care and to compensate the publicly-financed health insurance scheme for covering a disproportionate amount of high risk individuals. Over time, growing dissatisfaction with the dual system of public and private coverage led to the reforms of 2006.

What is covered?

Services: Insurers are legally required to provide a standard benefits package covering the following: medical care, including care by general practitioners (GPs), hospitals and midwives; hospitalization; dental care (up

to the age of 18; coverage from age 18 is confined to specialist dental care and dentures); medical aids; medicines; maternity care; ambulance and patient transport services; paramedical care (limited physiotherapy/remedial therapy, speech therapy, occupational therapy and dietary advice). Insurers may decide by whom and how this care is delivered, which gives the insured a choice of policies based on quality and costs. In addition to the standard benefits package, all citizens are covered by the statutory Exceptional Medical Expenses Act (AWBZ) scheme for a wide range of chronic and mental health care services such as home care and care in nursing homes. Most people also purchase complementary private health insurance for services not covered by the standard benefits package, although insurers are not required to accept applications for private health insurance.

Cost-sharing: The insured pay a flat-rate premium (set by insurers) to their private health insurer. Everyone with the same policy pays the same premium. In 2006 an insured person was eligible for a refund of 255 (\$367) if they incurred no health care costs. If they incurred costs of less than 255, they would receive the difference at the end of the year. This 'no claims bonus' system was abolished in 2007, following a change of government, and has been replaced by a system of deductibles. Every insured person aged 18 and over must now pay the first 150 (\$216) of any health care costs in a given year (with some services excluded from this general rule). Out-of-pocket payments as a proportion of total health expenditure are around 8% (Statistics Netherlands 2007; World Health Organization 2007).

Safety nets: Children are exempt from cost-sharing. The government provides 'health care allowances' for low income citizens if the average flat-rate premium exceeds 5% of their household income.

⁴ The exceptions are those with conscientious objections and members of the armed forces on active service.

⁵ Substitutive private health insurance covers people excluded from the publiclyfinanced health insurance scheme.

How is the health system financed?

Statutory health insurance: The statutory health insurance system (ZVW) is financed by a mixture of income-related contributions and premiums paid by the insured. The income-related contribution is set at 6.5% of the first \notin 30,000 (\$43,130) of annual taxable income. Employers must reimburse their employees for this contribution and employees must pay tax on this reimbursement. For those who do not have an employer and do not receive unemployment benefits, the income-related contribution is 4.4%. The contribution of self-employed people is individually assessed by the Tax Department. Contributions are collected centrally and distributed among insurers based on a risk-adjusted capitation formula. In 2006 the average annual premium was \notin ,050 (\$1513). The government pays for the premiums of children up to the age of 18. In 2005 public sources of finance accounted for 65.7% of total health expenditure (World Health Organization 2007). In 2006 this proportion had risen to around 78% (Statistics Netherlands 2007).

Private health insurance: Substitutive private health insurance was abolished in 2006. Most of the population purchase a mixture of complementary and supplementary private health insurance from the same health insurers who provide statutory coverage. This has given rise to concerns about the potential for risk selection, as the premiums and products of voluntary coverage are not regulated. In 2005, private health insurance accounted for 20.1% of total health expenditure (World Health Organization 2007). In 2006 this proportion had fallen to about 7% (Statistics Netherlands 2007).

How is the delivery system organized?

Health insurance funds: Insurers are private and governed by private law. They are permitted to have for-profit status. They must be registered with the Supervisory Board for Health Insurance (CTZ) to enable supervision of the services they provide under the Health Insurance Act and to qualify for payments from the risk equalization fund. The insured have free choice of insurer and insurers must accept every resident in their coverage area (although most already operate nationally). A system of risk equalization/adjustment is used to prevent direct or indirect risk selection by insurers. *Physicians*: Physicians practice directly or indirectly under contracts negotiated with private health insurers. GPs receive a capitation payment for each patient on their practice list and a fee per consultation. Additional budgets can be negotiated for extra services, practice nurses, complex location etc. Experiments with pay-for-performance for quality in primary and hospital care are underway. Most specialists are hospital based. Two-thirds of hospital-based specialists are self-employed, organized in partnerships and paid on a capped fee-for-service basis. The remainder are salaried. Future payments will increasingly be related to activity through the Dutch version of DRGs known as Diagnosis Treatment Combinations (DTCs).

Hospitals: Most hospitals are private non-profit organizations. Hospital budgets are developed using a formula that pays a fixed amount per bed, patient volume and number of licensed specialists, in addition to other factors. Additional funds are provided for capital investment, although hospitals are increasingly encouraged to obtain capital via the private market. From 2000, for several years payments to hospitals were rated according to performance on a number of accessibility indicators. Hospitals that produced fewer inpatient days than agreed with health insurers were paid less, a measure designed to reduce waiting lists. A new system of payment for specific products (DTCs) is currently being implemented. Ten percent all hospital services are now reimbursed on the basis of DTCs (up to 100% of all services in some hospitals). In the future, it is expected that most care will be reimbursed using DTCs, although there is still considerable debate about the desired speed of further liberalization of the hospital market (for example, through giving hospitals greater freedom in negotiating the price and quality of DTCs).

What is being done to ensure quality of care?

At the health system level, quality of care is ensured through legislation regarding professional performance, quality in health care institutions, patient rights and health technologies. A national inspectorate for health is responsible for monitoring and other activities. Most quality assurance is carried out by health care providers in close cooperation with patient and consumer organizations and insurers. Mechanisms to ensure quality in the care provided by individual professionals involve re-registration/re-validation for specialists based on compulsory continuous medical

education; regular on-site peer assessments organized by professional bodies; profession-owned clinical guidelines, indicators and peer review. The main methods used to ensure quality in institutions include accreditation and certification; compulsory and voluntary performance assessment based on indicators; and national quality improvement programs based on the breakthrough method (Sneller Beter). Patient experiences are systematically assessed and, since 2007, a national center has been working with validated measurement instruments comparable to the CAHPS approach in the United States. The center also generates publicly-available information for consumer choice.

What is being done to improve efficiency?

The main approach to improving efficiency in the Dutch health system rests on regulated competition between insurers combined with central steering on performance and transparency about outcomes via the use of performance indicators. This is complemented by provider payment reforms involving a general shift from a budget-oriented reimbursement system to a performance-related approach (for example, the introduction of DTCs mentioned above). In addition, various local and national programs aim to improve health care logistics and/or initiate 'business process reengineering'. At a national level, health technology assessment (HTA) is used to enhance value for money by informing decision making about reimbursement and encouraging appropriate use of health technologies. At the local level, several mechanisms are used to ensure appropriate prescribing.

How are costs controlled?

The new Health Insurance Act aims to increase competition between private health insurers and providers to control costs and increase quality, but it is still too early to say whether these aims have been met. Increasingly, costs are expected to be controlled by the new DTC system in which hospitals must compete on price for specific services.

References

Maarse, H. (2007). "Health reform - one year after implementation, available at <u>http://www.hpm.org/survey/nl/a9/1</u>, accessed 9 January 2008." <u>Health Policy Monitor</u> **May**.

Statistics Netherlands (2007).

The Swedish Health Care System Anders Anell Associate Professor Institute of Economic Research, School of Economics and Management, Lund University

Who is covered?

Coverage is universal. All residents are entitled to publicly-financed health care.

What is covered?

Services: The publicly-financed health system covers: public health and preventive services; inpatient and outpatient hospital care; primary health care; inpatient and outpatient prescription drugs; mental health care; dental care for children and young people; rehabilitation services; disability support services; patient transport support services; home care; and nursing home care. Possibilities for residents to choose primary care provider and hospital vary by county council.

Cost-sharing: Cost-sharing arrangements exist for most publicly-financed services. Patients pay SEK 100-150 (about \$15-23) per visit to a primary care doctor, SEK 200-300 (\$30-46) for a visit to a specialist or to access emergency care and up to SEK 80 (\$12) per day in hospital (MISSOC 2007). For outpatient pharmaceuticals, patients pay the entire cost up to SEK 900 per year (\$137), while costs above this are subsidized at different rates (50%, 75%, 90% and 100%) depending on the level of out of pocket expenditure. Out-of-pocket payments accounted for 13.9% of total health expenditure in 2005 (World Health Organization 2007).

Safety nets: The maximum amount to be paid out-of-pocket for publiclyfinanced care in a 12-month period is SEK 900 (\$137) for health services and SEK 1,800 (\$274) for outpatient pharmaceuticals. Children are exempt from cost-sharing for health services. An annual maximum of SEK 1,800 (\$274) for pharmaceuticals applies to children belonging to the same family. Limited subsidies are available for adult dental care.

How is the health system financed?

The publicly-financed system: Public funding for health care mainly comes from central and local taxation. County councils and municipalities have the right to levy proportional income taxes on their residents. The central government provides funding for prescription drug subsidies. It also provides financial support to county councils and municipalities through grants allocated using a risk-adjusted capitation formula. One-off central government grants focus on specific problem areas such as geographical inequalities in access to health care. County councils provide funding for mental health care, primary care and specialist services in hospitals. Municipalities provide funding for home care, home services and nursing home care. Local income taxes account for 70% of county council and municipality budgets; the remainder comes from central government grants and user charges. Overall, public funding accounted for 85% of total health expenditure in 2005 (World Health Organization 2007).

Private health insurance: About 2.5% of the population is covered by supplemental private health insurance, which provides faster access to care and access to care in the private sector. In 2005 private health insurance accounted for less than 1% of total expenditure on health (World Health Organization 2007).

How is the delivery system organized?

Government: The three levels of government (central government, county councils and municipalities) are all involved in health care. The central government determines the health system's overall objectives and regulation, while local governments determine how services are to be delivered based on local conditions and priorities. As a result, the organization of the delivery system varies at the local level.

Primary care: Organization of primary care varies across county councils. Most health centers are owned and operated by county councils, and general practitioners and other staff are salaried employees. Traditionally, health centers have been responsible for providing primary care to residents within a geographical area. This model is being replaced, with increased possibilities for residents to choose their provider and physician. Primary care has no formal gatekeeping function. Residents may choose to go directly to hospitals or to private specialists contracted by county councils. Increasingly, residents are encouraged to visit their primary care provider first. Higher co-payments for specialist visits are used to support such behavior. Payment of public primary care providers is largely based on capitation, topped up with fee-for-service and/or target payments. The number of private primary care providers and ambulatory specialists working under a public contract is increasing; in some county councils about half of primary care physicians are private. Fee-for-service arrangements with cost and volume contracts is more common for payment of private providers, in particular for ambulatory specialists.

Hospitals: Almost all hospitals are owned and operated by the county councils. There are no private wings in public hospitals. Hospitals have traditionally had large outpatient departments, reflecting low levels of investment in primary care. For tertiary care the county councils collaborate in the six regions with at least one university hospital. Private hospitals mainly specialize in elective surgery and work under contract with county councils. Physicians and other hospital staff are salaried employees. Payment of hospitals is usually based on DRGs (diagnosis-related groups) combined with global budgets.

What is being done to ensure quality of care?

At the national level, the Swedish Council on Technology Assessment in Health Care (SBU) and the National Board of Health and Social Welfare support local governments by preparing systematic reviews of evidence and guidance for priority setting respectively.

At the local and clinical level, medical quality registers managed by specialist organizations play an increasingly important role in assessing new treatment options and providing a basis for comparison across providers. Transparency has increased and some registers are now at least partly available to the public. Since 2006, performance indicators applied to county councils and, to some extent, providers are systematically applied by the county councils in collaboration with the National Board of Health and Welfare. Further improvements in the transparency of national quality assessment include setting up a register of drug use.

Concern for patient safety has been growing. The five most important areas with potential for improvement are: unsafe drug use, particularly among older people; hospital hygiene; falls; routines to control for fully avoidable patient risks; and communication between health care staff and between staff and patients.

What is being done to improve efficiency?

Several initiatives are being implemented to improve general access to health services and to treatment. According to an agreement between the county councils and the central government, all non-acute patients should be able to see a primary care physician within seven days, visit a specialist within 90 days of referral by a GP and obtain treatment within 90 days of the prescription of treatment by a specialist. Most county councils struggle with longer waiting times for at least some patients and services (particularly for elective surgery). If patients are required to wait more than 90 days, they can choose an alternative provider with assistance from their county council.

In primary care, residents in several counties are encouraged to choose a provider based on their own assessment of access and quality, with money following the patient. A parallel policy is to increase the number of private primary care providers and encourage general competition for registration by residents. At the same time, however, there is a call for closer collaboration between primary care providers, hospitals and nursing home care, particularly where care of older people is concerned. There are similar calls for increased integration of health and social services for mental health patients.

How are costs controlled?

County councils and municipalities are required by law to set annual budgets for their activities and to balance these budgets. In the past, the central government has introduced temporary financial penalties (by lowering its grant) for local governments that raised their local income tax rate above a specified level. For prescription drugs, the county councils and the central government agree on subsidies to the county councils for a period of five years. The national Pharmaceutical Benefits Board (Läkemedelsförmånsnämnden; LFN) engages in value-based pricing of prescription drugs, determining reimbursement based on an assessment of health needs and cost-effectiveness.

At the local level, costs are controlled by the fact that most health care providers are owned and operated by the county councils and municipalities. Most private providers work under contract with county councils. Financing of health services through global budgets and contracts and paying staff a salary also contributes to cost control. Although several hospitals are paid on a DRG basis, payments usually fall once a specified volume of activity has been reached, which limits hospitals' incentives to increase activity. Primary care services are mainly paid for via capitation or global budgets, with minimal use of fee-for-service arrangements. In several county councils, primary care providers are financially responsible for prescribing costs, which creates incentives to control pharmaceutical expenditure.

References

MISSOC (2007). Social protection in the Member States of the European Union, of the European Economic Area and in Switzerland: situation on 1 January 2007,

http://ec.europa.eu/employment_social/spsi/missoc_tables_en.htm#table20 7 accessed on 18 December 2007. Brussels, European Commission.

The UK Health Care System Sean Boyle Senior Research Fellow LSE Health and Social Care, London School of Economics and Political Science

Who is covered?

Coverage is universal. All those 'ordinarily resident' in the United Kingdom are entitled to health care that is largely free at the point of use.

What is covered?

Services: Publicly-funded coverage: the National Health Service (NHS) covers preventative services; inpatient and outpatient (ambulatory) hospital (specialist) care; physician (general practitioner) services; inpatient and outpatient drugs; dental care; mental health care; learning disabilities; and rehabilitation.

Cost-sharing: There are relatively few cost-sharing arrangements for publicly-covered services. Drugs prescribed by general practitioners are subject to a co-payment (£6.85 per prescription; \$13.79), but about 88% of prescriptions are exempt from charges (Department of Health 2007). Dentistry services are subject to co-payments of up to about £200 per year (about \$400), although there is difficulty in obtaining NHS dental services in some areas. Out-of-pocket payments accounted for 11.9% of total expenditure on health in 2005 (World Health Organization 2007).

Safety nets: Most costs are met from the public purse. There are measures in place to alleviate costs where these may have an undue impact on certain patient groups. The following are exempt from prescription drug copayments: children under the age of 16 years and those in full-time education aged 16, 17 or 18; people aged 60 years or over; people with low income; pregnant women and those having had a baby in the last 12 months; and people with certain medical conditions and disabilities. There are discounts through pre-payment certificates for people who use a large amount of prescription drugs. Transport costs to and from provider sites are also covered for people with low income.

How is the health system financed?

National Health Service (NHS): The NHS accounts for 86% of total health expenditure. It is mainly funded by general taxation (76%), but also by national insurance contributions (19%) and user charges (5%) (Department of Health 2006). Apart from the income the NHS receives for the provision of prescription drugs and dentistry services to the general population, there is some income from other fees and charges, particularly to private patients who use NHS services.

Private health insurance: A mix of for-profit and not-for-profit insurers provide supplementary private health insurance. Private insurance offers choice of specialists, avoidance of queues for elective surgery and higher standards of comfort and privacy than the NHS. It covers 12% of the population and accounted for 1% of total health expenditure in 2004.

Other: People also pay directly out-of-pocket for some services – for example, care in the private sector. Direct out-of-pocket payments account for over 90% of total private expenditure on health.

How is the delivery system organized?

Physicians: General practitioners (GPs) are usually the first point of contact for patients and act as gatekeepers for access to secondary care services. Most GPs are paid directly by primary care trusts (PCTs) through a combination of methods: salary, capitation and fee-for-service. The 2004 GP contract introduced a range of different local contracting possibilities as well as providing substantial financial incentives tied to achievement of clinical and other performance targets. Private providers of GP services set their own fee-for-service rates but are not generally reimbursed by the public system.

Hospitals: These are organized as NHS trusts directly responsible to the Department of Health. More recently, foundation trusts have been established as semi-autonomous, self-governing public trusts. Both contract with PCTs for the provision of services to local populations. Public funds have always been used to purchase some care from the private sector, but since 2003 some routine elective surgery has been procured for NHS patients from purpose-built treatment centers owned and staffed by private sector providers. Consultants (specialists) work mainly in NHS hospitals but may supplement their salary by treating private patients.

Government: Responsibility for health legislation and general policy matters rests with Parliament at Westminster. The NHS is administered by the NHS Executive and the Department of Health, and locally is provided through a series of contracts between commissioners of health care services (PCTs) and providers (hospital trusts, GPs, independent providers). PCTs control around 85% of the NHS budget (allocated to them based on a risk-adjusted capitation formula) and are responsible for ensuring the provision of primary and community services for their local populations. Recent policy developments include the introduction of patient choice of hospital and a move to the reimbursement of hospitals using a DRG-like activity-based funding system known as Payment by Results (PbR). PbR relates payment to the quantity and case mix of activity undertaken.

Private insurance funds: Private insurers provide their subscribers with health care at a range of private and NHS hospitals. Patients generally can choose from a number of health care providers.

What is being done to ensure quality of care?

Quality of care is a key focus of the NHS. A Department of Health objective in 2007 was to enhance the quality and safety of health and social care services. Quality issues are addressed in a range of ways including:

Regulatory bodies: A number of bodies monitor and assess the quality of health services provided by public and private providers. This involves regular assessment of all providers, investigation of individual providers where an issue has been drawn to the attention of the regulatory body, and consideration of key areas of provision in order to recommend best practice. The three bodies primarily responsible for regulation in England (the

Healthcare Commission, the Commission for Social Care Inspection and the Mental Health Act Commission) are due merge in 2008.

Targets: Targets have been set by the government for a range of variables that reflect the quality of care delivered. Some of these targets are monitored by the regulatory bodies mentioned above; others are monitored on a regular basis either by the Department of Health or its regional organizations (ten strategic health authorities).

National Service Frameworks (NSFs): Since 1998 the Department of Health has developed a set of NSFs intended to improve particular areas of care (for example, coronary, cancer, mental health, diabetes). These set national standards and identify key interventions for defined services or care groups. They are one of a range of measures used to raise quality and decrease variations in service.

Quality and Outcome Framework: This is a new framework for measuring the quality of care delivered by GPs. It was introduced as part of the new GP contract in 2004, which provided incentives for improving quality, and has been operating since 2005. GP practices are awarded points related to payments for how well the practice is organized, how patients view their experience at the surgery, whether extra services are offered, such as child health and maternity, and how well common chronic diseases such as asthma and diabetes are managed.

What is being done to improve efficiency?

Efficiency has always been a key focus of the NHS. The NHS seeks to improve efficiency in a range of ways including:

High-level efficiency targets: The government is committed to a program to achieve efficiency gains of £6.5 billion (\$13 billion) by March 2008 through a range of policies known as the Gershon Efficiency Programme. These include increasing front-line productivity, centralizing procurement to obtain more cost-effective deals, reductions in the costs of both NHS provider and central administration and increasing the efficiency of social care provision. Local NHS organizations are also set targets for efficiency savings.

Benchmarking: NHS organizations are benchmarked against the performance of their peers on a number of activity measures, including day case rates and lengths of stay for common operative procedures, readmission rates and NHS reference costs (costs of standard procedures known as Healthcare Resource Groups). The Healthcare Commission reviews the performance of NHS trusts against these measures in providing an overall assessment of NHS performance through the Annual NHS Health Check.

Institute for Innovation and Improvement: The Department of Health supports the development of better and more efficient ways of providing health care through the use of semi-autonomous bodies such as the Institute for Innovation and Improvement. The Institute helps the NHS to develop new ways of dealing with the introduction of new technology and changes to working practices, and helps to spread these throughout the NHS.

How are costs controlled?

The government sets the budget for the NHS on a three-year cycle. To control utilization and costs, the government sets a capped overall budget for PCTs. NHS trusts and PCTs are expected to achieve financial balance each year. The centralized administrative system tends to result in lower overhead costs. Other mechanisms that contribute to improved value for money include arrangements for the systematic appraisal of new technologies through the National Institute for Health and Clinical Excellence (NICE).

References

Department of Health (2006). Departmental Report 2006. London, Department of Health.

Department of Health (2007). Departmental Report 2007. London, Department of Health.