### CHAPTER SIX

### Escape from the Corporation 1900–1930

IN 1900, before physicians had successfully consolidated their authority, medicine was still a beleaguered profession. Or so many of its practitioners saw themselves—beleaguered by unscientific sectarians and quacks who preyed on the credulous sick; by druggists who plagiarized their prescriptions and gave free medical advice to customers; by too many of their own profession, turned out in profusion by medical schools; by hospitals that stole patients from them and denied them admitting privileges; and by public dispensaries and health departments that offered medical services to many people who doctors believed could afford to pay.

Over the next three decades, as these afflictions subsided, physicians became uneasy about various other organizations that potentially threatened their autonomy. Private practitioners wanted to keep their relations with patients unmediated by any corporation. They worried about companies that employed doctors to furnish medical care to their workers. Widespread adoption of this form of "contract practice," physicians feared, might engulf many of them in medical programs of poor

quality, respected neither by labor nor management. In some areas, employers paid profit-making firms to provide medical services to their workers, and the firms in turn contracted with doctors to give treatment at low rates. These commercial intermediaries were especially distasteful to the medical profession. Some fraternal societies and employee associations paid contract doctors to provide cut-rate medical services to their members. And general practitioners were concerned, too, about the threat of competition from growing numbers of specialists and the rise of private clinics that were often controlled by a few powerful surgeons or internists.

Reformers, however, viewed these organized health services, particularly the private multispecialty clinics, as harbingers of a new order in medical care. The virtues of "cooperative teamwork" and "group medicine," they believed, would soon become apparent to all. Individualism in medical care had had its day, and now the development of technology and specialization would require the same coordinated organization in medicine that was emerging throughout the society.

These expectations were hardly unreasonable, but they proved to be wrong. As occasionally happens, the inevitable did not take place, at least not on schedule: The solo practitioner did not rapidly become extinct. Instead of expanding, organized health services were relegated to the sidelines of the medical system. And therein lies a puzzle: Why did such plausible judgments about the advantages of organization and the demands of technology and specialization prove incorrect?

The aborted development of organized alternatives to the solo practice of medicine and the individual, fee-for-service purchase of medical services also poses some larger questions about the relationship of medical care to the state and the capitalist economy. Government and the modern corporation offer two alternatives for coordinated organization; conceivably, either might have become the basis for an integrated system. In the previous chapter, I described how public health came to exclude therapeutic services. But why did doctors escape from the corporation? How do we explain the distinctive economic organization of American medicine as it emerged in the twentieth century?

# PROFESSIONAL RESISTANCE TO CORPORATE CONTROL

### Company Doctors and Medical Companies

The dislike of physicians for "socialized medicine" is well known, but their distaste for corporate capitalism in medical practice was equally strong. They had no more desire to be dominated by private corporations than by agencies of government, and consequently resisted the two forms in which business corporations threatened to move into medical services—the provision of treatment for their own employees through "company doctors" and the marketing of services to the public.

Medical services for workers were quite limited in the nineteenth Medical services for workers were quite limited in the nineteenth century. The first to appoint company doctors were railroad and mining companies; one railroad began to employ physicians in 1860, but such arrangements became more common after the Civil War. In the 1880s, as accident rates rose in industry, steel makers and other manufacturers adopted the practice too. In this early period, the role of the company doctor was confined mainly to the surgical repair of victims of industrial accidents. Industrial medicine primarily involved the treatment of occupational injuries, not occupational diseases.<sup>1</sup>

The evolution of industrial medicine then followed a path that reflected developments in both medicine and industrial relations. In the early 1900s, while the surgical treatment of accidents remained paramount, industrial doctors began to conduct periodic as well as preemployment health examinations and became more concerned with the health supervision of workers. With the adoption of state workmen's compensation laws around 1910, industrial medicine also became increasingly involved in preventive medical engineering of the workplace. The rise of industrial hygiene and medical engineering were part of the same current that produced the theories of scientific management of Frederick Taylor. Both stressed the use of professional expertise in the analysis and design of the production process. Still later, in the 1930s and 1940s, as management became more preoccupied with problems of human relations and personnel motivation, industrial doctors devoted increasing attention to alcoholism and mental illness.

Employers had a practical interest in using medical services for recruiting and selecting workers, maintaining their capacity and motivation to work, keeping down liability and insurance costs, and gaining good will from their employees and the public. But they did not want to pay for medical services or the hidden costs of disease that their workers or the community would otherwise bear. The response of em-

ployers to these competing interests changed significantly between 1890 and 1920 as medicine became more effective, political protest and reform demanded a response to high rates of industrial injury, and employers themselves came to share the popular belief in the usefulness of medical knowledge. As of the 1890s, medical facilities at a plant might typically consist of a few kits in the hands of foremen. By the 1920s, organized medical departments with full-time physicians were common in the larger companies. Even then, however, employers spent relatively little on medical care, and the little they spent went mainly for health examinations and plant engineering. But there was a "deviant" group of industries and firms that became extensively involved in financing and sometimes managing medical services. Before considering why most companies avoided responsibility for medical care, it will be useful to examine these exceptions.

pany as an expert witness in damage suits. In several states, courts ruled suits. The function of the railway surgeon was to make a record of the funds terminated all benefits if an employee attempted to sue. forceable, except when the worker accepted relief from a fund. Eight that a worker's agreement not to sue a company for an injury was uneninjury as well as to treat it, and the surgeon often represented the combut also by the interest of companies in protecting themselves from lawworkers. The employment of surgeons and the establishment of relief pay for medical expenses and provide some minimal support to disabled To treat the huge toll in injuries—some to passengers and pedestrians funds were motivated not only by the special hazards of railroad work, the railroads established claims departments and relief associations to to set up organized services under full-time chief surgeons. In the 1880s, they moved into the unsettled areas of the West, they found it necessary practitioners along their routes to treat accident cases. However, as tional associations. In their early days, railroad lines retained private geons.3 Railway surgery was a specialty with its own journals and naas well as workers-there were more than six thousand railway suremployees was injured and one out of every 399 was killed on the job. than one million railroad workers; in the year ending June 30, 1900, the Interstate Commerce Commission reported that one out of every 28 ployee medical programs. By the turn of the century, there were more The railroads were the leading industry to develop extensive em-

For the mining and lumber industries, as well as for the railroads, special geographical conditions were the principal reason for extensive company involvement in medical care. In the isolated areas where mining and lumbering companies conducted operations, physicians were generally unavailable. To induce doctors to move to these poor and

sparsely settled regions, the companies had to guarantee them a salary, usually out of mandatory deductions from workers' wages.<sup>5</sup> As one might expect, company medical programs were much less common in urban areas.

Employee medical programs were also started in some companies as part of a more general movement in American business known as "welfare capitalism." To build up their workers' loyalty and "Americanism," employers provided a broad range of welfare services, including schools, housing, and social and religious programs, and even token representation in decision-making. The advocates of corporate paternalism wanted not only to instill the proper attitudes in workers, but also to spin an elaborate web of affiliations binding them to their companies. Unions might thereby be prevented from gaining a foothold.<sup>6</sup> Medical care functioned as an element in this strategy of control.

These various considerations—legal liability, geographical isolation, paternalism—influenced the extent and distribution of industrial contract practice. By the first decades of the twentieth century, company medical services could be found in the mining and lumbering camps of the Pacific states, the mining industry of the Rocky Mountains, and the coal fields of the Midwest and Appalachia as well as the mill towns of the Carolinas and Georgia and the nation's railroad industry. In 1930 these programs covered an estimated 540,000 workers in mining and lumbering and approximately 530,000 railway employees, plus a large though undetermined number of dependents.<sup>7</sup>

Before 1900 the industrial surgeon's home or office often served as an infirmary. But around the turn of the century, many of the railroads and other companies built their own hospitals and clinics. Generally only the larger firms owned and operated their own facilities; most arranged for treatment through independent physicians and hospitals for a flat rate per worker per month. The form of organization also seems to have depended on the degree of isolation from preexisting medical resources (the less developed the area, the greater the company's need to set up its own system) and legal considerations (under workmen's compensation laws in some states, firms could minimize medical costs and compensation awards by hiring physicians directly instead of paying for them through a state fund). But whether providing services in its own facilities or through independent physicians, the company usually controlled the choice of the doctor.

As a result, the system of payroll deductions for company doctors was frequently unpopular among workers, many of whom would have preferred to go to a practitioner of their own choosing. In cases of industrial injury, where medical evaluations determined compensation awards,

they naturally distrusted doctors paid by the company. Unions continually pressed for the substitution of cash benefits for company medicine. The American Federation of Labor opposed as "paternalistic" all forms of compulsory medical care through employers.

a position with a manufacturing company was to earn the contempt of the early decades of the century.9 played a prominent role in exposing dangerous working conditions in his colleagues," wrote Alice Hamilton, a physician and toxicologist who with suspicion by the profession. "For a surgeon or physician to accept pervision. Doctors who worked for companies were generally regarded program instead concentrate on periodic examinations and health sututed an unethical invasion of private practice. His successor at Sears cago Medical Society had excluded him from membership on the had been company doctor at Sears, Roebuck resigned because the Chiother and drive down the price of their labor. In 1908 the physician who tion because it enabled companies to get doctors to bid against each insisted that the company drop services and suggested that its medical grounds that his services to employees' families at reduced rates constitice in remote areas, they regarded it elsewhere as a form of exploita-Though medical societies recognized the necessity of contract prac-

a hospital.11 Industrial medicine of this type proved to be acceptable tween the AMA and industrial physicians.12 to the medical profession, though there continued to be tensions be were seriously ill were generally referred to private practitioners or to sanitary conditions, and encourage hygienic practices. Workers who were to treat work injuries, examine job applicants, supervise company doctors. Still, in most industrial medical programs, the main functions vided such limited services, while two thirds had facilities staffed by that 110 had no more than first-aid equipment; but by 1926 only 34 proof some kind. Ten years earlier, a similar survey of 375 plants had found employees, reported that three fourths provided free medical services confined to treatment to keep the employee on the job. "If too ill to erally received limited medical care. A study of ninety plants in New side of the mining, lumber, railway, and textile industries, workers genuted to the reluctance of employers to expand medical services. Out-In 1926 a national survey of 407 plants, nearly all with more than 300 continue at his job he was sent home and advised to call his physician."10 England in 1921 found that in the "great majority," medical service was The opposition of the medical profession to contract practice contrib-

The limited development of company medicine is inseparable from the broader pattern of limited corporate involvement in the welfare of American workers. Corporate paternalism probably reached its

decline. When businesses cut back, employee welfare programs were among the first things to go. With Social Security, the New Deal shifted height during the 1920s, but during the Depression it went into a steep centives and discipline.13 abandonment of company-controlled services as a strategy of work ingaining and the accommodation of unions in heavy industry meant the ernment. Also, the enactment of legal protections for collective barthe primary locus of responsibility for social welfare to the federal gov-

go to physicians and hospitals of their own choice and freed the medical Unlike company medicine, health insurance would enable workers to the 1940s through collective bargaining and group health insurance. volvement in health care protected professional sovereignty. Industrial profession from the threat of direct control by the large corporations. domain of private medical practice. medicine, like school health services and health centers, kept out of the Like the constricted boundaries of public health, limited corporate in-The next step in providing medical care to workers would come in

services to the public, was known as the "corporate practice" of mediif they employed licensed physicians, on the grounds that a corporation emergence of profit-making medical care corporations in most jurisdicdecisions shortly after the turn of the century effectively precluded the cine, and it developed on an even more limited scale. A series of legal could not be licensed to practice and that commercialism in medicine tions could not engage in the commercial practice of medicine, even tions. Between 1905 and 1917, courts in several states ruled that corporaof a fuss. Respectable opinion did not favor "commercialism" in mediof the argument should have carried them.14 Yet no one made much ment of company doctors nor to for-profit hospitals, where the logic rigorous legal reasoning. They were not applied to the employviolated "sound public policy." These decisions were not models of The other form of business involvement in medical care, the sale of

allowed profit-oriented firms, the growing economic power of the medations." These companies—only some of which actually owned hospitract out medical services for their workers to for-profit "hospital associlaws encouraged employers in the timber and mining industries to con-Washington and Oregon, peculiarities in the workmen's compensation ical profession would have limited their development. In the states of associations used their own physicians, but in time they subcontracted tals—provided medical and hospital care for a fixed sum per worker. Though started by doctors, they later fell under lay control. At first, the The few exceptions to this pattern suggest that even if the courts had

> cal and other related services without a medical license.15 a Hospital Association Act that permitted corporations to provide mediing, and railways to include other subscribers. In 1917 Oregon passed work to doctors in private practice, whom they paid on a fee-for-service basis. They also expanded from their original base in lumbering, min-

tions because they guaranteed payment for low-income patients. controls, but doctors continued to do business with the hospital associarelatively powerless individual consumers, was unhappy about these professional autonomy. The medical profession, used to dealing with countervailing power in the medical market and limited the doctors fusing to pay prices they deemed excessive. In short, they acted as a reviewed the length of hospital stays. They restricted medical fees, redealt directly with physicians and exercised some control over them. They required second opinions before authorizing major surgery and These hospital associations, unlike later commercial health insurers,

ported the doctors. Confronted by a declining share of the market, the the physicians' actions constituted restraint of trade, the courts supsary procedures. And when the associations asked the courts to rule that to prevent the hospital associations from effectively restricting unnecesvice. In addition, by withholding medical records, the doctors were able antagonizing subscribers and losing business to Oregon Physicians Sera statewide program, Oregon Physicians Service, that offered prepaid function in the face of a professional boycott. though they survived, they were not able to maintain their original their costs only by withholding compensation from patients, thereby imbursement. Consequently, the hospital associations could control forcing patients to pay medical bills and apply to the companies for retors refused to deal directly with the commercial hospital associations, services without regulating medical decision making. Thereafter, docical society changed its strategy. In place of its county plans, it set up upon the associations for guarantee of payment, so in the 1940s the med measures were unsuccessful in drawing away physicians who depended ciation that made "a direct profit from the fees." Nonetheless, these cil of the Oregon State Medical Society, following AMA policy, ruled expel doctors connected with the profit-making firms. In 1936 the Counwhen this initial effort proved unsuccessful it began to censure and own plan to compete with the commercial hospital associations, but began to act like insurers rather than providers of medical service. Alhospital associations abandoned their cost-control procedures and that it was unprofessional for a doctor to be employed by a hospital asso-In 1932 the largest county medical society in Oregon established its

have impeded profit-making medical care companies even if the courts Other factors besides professional opposition probably also would

mies of scale in medical care, in contrast to other industries where access to community hospitals, there appear to be only limited econoany price advantage over solo practitioners. As long as physicians have they would not easily have found other ways to cut costs and achieve had allowed them. Once blocked from regulating medical decisions, from reorganizing the production process and substituting lower-paid tion, medical licensing laws would have prevented profit-oriented firms large-scale enterprises have replaced independent craftsmen. In addiemployment. The self-employed often impose on themselves hours and nization sacrifices some of the economic advantages of selfparamedical workers for physicians. At the same time, corporate orgaanyone else. The individual entrepreneur, as John Kenneth Galbraith working conditions that would be considered oppressive if imposed by and it seems improbable that, as professional workers, they could have other small businessmen, have been prone to this "self-exploitation," labor force since his labor force consists of himself." Physicians, like remarks, is "almost wholly free, as the organization is not, to exploit his been exploited as successfully by corporations as they were by them-

#### Consumers' Clubs

fits as well as regulating production. Though the guilds died out, fraterthe early 1900s, some eight million Americans belonged to fraternal orders, which, consequently, affected an estimated 25 to 30 percent of volved in providing life insurance and aiding the sick and disabled; by America, fraternal orders and benefit societies became extensively intook up many of their beneficiary functions. In nineteenth-century nal orders, mutual benefit societies, employee associations, and unions workers and their bosses sometimes belonged to the same order and developed friendships outside of both the family and the workplace. American families.<sup>17</sup> Some of these societies bordered quite closely on The membership of many fraternal orders cut across social classes; life insurance companies; others were significant as settings where men The medieval guilds, like modern corporations, provided social bene-

at times the same local lodge.18 nal societies offered; and they began, particularly in the 1890s and after, conducted examinations required for the life insurance that the fratertypically between \$1 and \$2 per member per year. Members could physicians at what the doctors regarded to be unconscionably low rates, to accept contracts to care for the lodge membership. The societies paid Doctors came into contact with lodges for two reasons. They often

> themselves organized private "clubs" to attract patients at bargain some practitioners were so anxious to build up a clientele that they World War, many physicians often still needed lodge contracts, and generally unwilling to take such work. But between the 1890s and First could wring out a meager livelihood. The more successful doctors were or two. From a lodge with three or four hundred members, a physician sometimes get medical coverage for dependents for an additional dollar

nish free medical services."23 members, the orders "ever keep to the forefront the fact that they furalmost as rampant as it is in the East Side of New York City."21 In Buffa-California.22 According to a Pennsylvania doctor, in seeking out new to be providing medical care in Pennsylvania, Michigan, Illinois, and practice covered 150,000 people. Fraternal orders were also reported tions of every city in the state are free from it. In other sections it is and in the small towns the lodge doctor is almost unknown. Some secof the Jews in Providence had contract doctors, and in some industrial who came from the same town or region in Eastern Europe. According lo, New York, a local medical committee estimated in 1911 that lodge areas, the proportion was as high as 50 percent. "In the rural districts to a 1909 survey by a Rhode Island doctor, George S. Mathews, one third with small benefit societies providing prepaid medical care for Jews and medical care.<sup>20</sup> The Lower East Side of New York City was teeming in cases of sickness, these fraternal organizations furnished both income tions. While most other insurance plans typically paid only cash benefits health insurance funds," mostly branches of larger fraternal organiza-A 1914 survey in New York City found "literally thousands of petty Lodge practice was especially common in immigrant communities.

workers had indicated they wanted to see him; this doctor had fifteen to thirty-five office calls a day, plus two or three house calls.24 doctor called at the factory to take down names from a slate on which nized by the workers—one with 700, the other with 400 members. The work and shop organizations. In one factory, there were two clubs orgavate clubs organized by doctors; lodge and fraternal organizations; and larger club paid a doctor \$2.25 per member per year. Every day the In Providence, Mathews found three types of contract practice: pri

are much greater abuses than the lodge doctor . . ." On the other hand, or else become a free hospital patient . . .the hospital and dispensary good as that received in regular practice among the lower classes . . . this same poor man uninsured would contract a medical bill never paid, that "there is nothing unethical in it . . . the remuneration is nearly as Doctors who favored contract practice, Mathews reported, argued

most doctors opposed lodge practice as unethical and unfair to the profession. They cited incidents such as the following:

meeting underbid one the other [sic]. One volunteered his services at \$2 a neither bid was accepted but a non-bidder was given the job at \$2.25 head. The other dropped his price to \$1.75. The first bidder then acceded to his price to include medicine and minor surgery. To the vast credit of the lodge this price with medicines furnished. This occasioned a drop in bidder No. 2 in [T]wo members in good standing in the State Medical Society openly in lodge

contract work for two fraternal orders to give it up; though three accedcounty medical society had called upon the seven doctors performing societies refused membership to any doctor who contracted with a inous competition" it "invariably" introduced.™ Many county medical practice, objecting to the unlimited service for limited pay and the "rued, the other four refused and were expelled from the society. $^{\rm gr}$ lodge. From Norristown, Pennsylvania, a doctor reported that the The AMA could see "no economic excuse or justification" for lodge

took the job because in that way I was sure of being able to pay the him only \$2 a year for a single member and \$3 or \$4 for a family, "I benefit society in the early 1900s, recalled that although the society paid Samuel Silverberg, a retired New York doctor who worked for a Jewish were often obliged to take such work as a way of breaking into practice. rent for my office. On my own I took in very little. . . . Despite professional opposition, young doctors just out of training

and in that way you could build up a practice. But it was hard, lots of Grand Concourse, I gave up the society."28 running up and down tenement stairs. When I moved my office to the "The society member would recommend the doctor to his friends,

a sufficient amount to cover his expenses." But over the next decades as yet nothing better to offer to the young man who is in need of earning cians' Protective League of New York in 1913, "is at present impossible of the free dispensary. Doctors could not be found to work on the old the declining supply of physicians reduced the availability of cheap pro-First because it is too well established, and secondly because we have pensive, fee-for-service plans. terms, and the fraternal groups did not have the resources for more exfessional labor and remedied the problem of lodge practice as it did that "To abolish this mode of contract practice," a doctor told the Physi-

grams and facilities. In San Francisco, as early as 1852, La Société Franas did a German Benevolent Society in the city three years later. A cençaise de Bienfaisance Mutuelle constructed a hospital for its members, A few voluntary associations built relatively enduring medical pro-

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cian. Another survey in 1930 by the National Bureau of Economic Reciations in 1916 showed that only 17 percent regularly employed a physi through mutual aid associations and trade union funds was negligisearch concluded that the number of people who obtained medical care that year went for medical care. A survey of employee mutual aid assobut only about 1 percent of the \$97 million they paid out in benefits 179 fraternal associations with 7.7 million "benefit" members in 1914, in providing medical care in the United States. Nationally, there were rule. Neither fraternal nor employee groups became centrally involved were others across the country-were more the exception than the tury later they were still operating. But these instances—and there

organization had not yet been successfully projected as an ideal for medical care; it was, at first, only an expedient. seen as appropriate and necessary only for the working class. Collective industrial and lodge practice—the earliest forms of prepayment—were their own choice, as they think they get better service." Originally, to pay for their own private doctor, "preferring to have physicians of physicians. In Norristown, about half the lodge members were reported bers tended not to employ lodge doctors. They had their own private tions that provided medical benefits, the branches with wealthier mem illnesses, they'd go to another doctor." In national fraternal organizabut some said, 'A society doctor? What can he know?' For more serious very pleasant. Most society members treated their doctor with respect not. Some patients took advantage of the system and it wasn't always reputation. Dr. Silverberg recalled, "Some doctors were devoted, many The medical care provided by the benefit societies had only a mixed

## The Origins and Limits of Private Group Practice

managers and technical assistants, in a new and more elaborate division ployees. And so group practice, though under the control of members enterprise and became its owners, while other doctors were their emof labor. Typically, some doctors brought capital as well as labor to the it gathered physicians into a single organization, often with business changed the relations of physicians to each other. Unlike lodge practice, power of physicians in relation to their clients. But group practice in the mode of payment. Nor did they reflect any reduced economic panies or lodges, private clinics did not necessarily involve any change entered medical care. Unless combined with contract practice for commedicine"—represented another form in which corporate organization Private group practices—also called "private group clinics" or "group

of the profession, introduced a type of hierarchical, profit-making organization into medical practice.

clinics, and its development discloses some of the underlying forces that atively extending them in new operations. In addition to other work, ingly specialized in surgery, adopting the newest techniques and cremiles south of Minneapolis. Like their father, the two brothers increaspractice in Rochester, Minnesota, a small town in the cornfields ninety Mayo joined their father in building up a large and flourishing general brought about the earliest groups. In the 1880s William and Charles ic. Though in many ways unique, it was the prototype for other private dreds of operations a year; by the turn of the century, about three thourespect. By the 1890s, when their father retired, they were doing huningly low mortality rates attracted both patients and professional dius of their practice. Their reputation for skill, invention, and exceedwestern Railroad, which played an important part in widening the ra-William Mayo became a district surgeon for the Chicago and Northand assistants who could relieve them of the nonsurgical phases of the ment of a young assistant surgeon in 1903, the Mayos chose "partners niques, such as blood tests, X-rays, and bacteriological examinations. As added several younger doctors who were adept in new diagnostic techneighboring practitioner to join them, and over the next ten years they tific developments. In 1892 they invited a respected, fifty-year-old be able to travel to the East and to Europe to keep up with new sciennew partners, they decided to expand partly because they wanted to sand. Forced to choose between limiting their practice or bringing in sattle, "was to pick from the procession of patients passing before them enterprise. "The primary function of the diagnosticians," writes Clapedous scientific advances in diagnosis and the distinctive needs of the The specialization in diagnostic techniques reflected both the tremenpractice, while they kept the operating entirely in their own hands." Helen Clapesattle explains in her history of the clinic, until the appointthose whom the Mayo brothers as surgeons could benefit." In 1904 the of pathology in medical practice rather than strictly for teaching and that permitted him to do an analysis quickly enough to report to the following year, Wilson worked out a method for staining fresh tissues bacteriology laboratories at the Minnesota State Board of Health. The Mayos hired Dr. Louis B. Wilson, previously assistant director of the breakthroughs in the emergence of clinical pathology—that is, the use Mayos while an operation was in progress. This was one of the key The point of origin for group practice in America was the Mayo Clin-

Diagnostic work and research gradually became as important as sur-

gery. By 1914, when the clinic opened its own building, there were seventeen doctors on the Mayos' permanent diagnostic staff as well as eleven clinical assistants, and in the 1920s, with the growing emphasis on preventive health examinations, the diagnostic services at the Mayo Clinic reached parity with surgery. The clinic also developed into a center of graduate medical education, augmenting its influence in the profession. In 1897 the Mayos began to bring in interns. Many practicing doctors also came to observe the Mayos at work, and they independently organized a Surgeons' Club to conduct what today would be described as courses in continuing education. In 1915, having accumulated a large fortune, the Mayos gave \$1.5 million to endow the Mayo Foundation for Medical Education and Research, which later became affiliated with the University of Minnesota as a graduate medical school.

Originally, the Mayos' practice was strictly proprietary. They retained control even after other doctors joined them. Those taken into the partnership participated only in the income, not the ownership. However, in two stages beginning in 1919, the Mayos gave up ownership and converted the clinic into a nonprofit organization. In 1923 all former partners, including the Mayos, became salaried staff. Nonetheless, the Mayos still retained control; only as they withdrew from practice in the following decade did power pass to committees of physicians on the permanent staff. By 1929 the Mayo Clinic had become a huge organization: 386 physicians and dentists (211 permanent staff, 175 fellows) and 895 laboratory technicians, nurses, and other workers. The clinic had 288 examining rooms, 21 laboratories, and was housed in a fifteenstory building.<sup>34</sup>

From Rochester, the admirers of the Mayo Clinic spread out across the country. A young doctor who worked as an assistant at the clinic from 1906 to 1909, Donald Guthrie, founded the Guthrie Clinic in Sayre, Pennsylvania, in 1910. In the summer of 1908, a general practitioner from Topeka, Kansas, Charles F. Menninger, returned home from the Mayo Clinic. Sitting at the family dining table with his three boys—Karl, Edwin, and Will—he is said to have declared, "I have been to the Mayos and I have seen a great thing. You boys are going to be doctors and we are going to have a clinic like that right here in Topeka." During World War I, the experience of the medical corps impressed many young doctors with the value of coordinated medical groups, and in the years immediately afterward many new groups were formed.

Data on the growth of group practice are unfortunately incomplete because the earliest surveys were conducted around 1930. An AMA survey conducted in 1932 found that, of existing groups, eighteen had been founded prior to 1912; in that year another nine were established. The

a median size of between five and six physicians.<sup>36</sup> In another survey 1918 to 1920. As of 1932 the AMA found about 300 group practices with period from 1914 to 1920 saw a high rate of growth, with a peak from crepancy is probably explained by differences in definition and method put the median number of doctors in such groups at eleven.37 This disphysicians. On the basis of a study of fifty-five of these clinics, Rorem private group clinics in the United States, involving about 1,500 to 2,000 published in 1932, C. Rufus Rorem estimated that there were about 150

graphical patterns are important clues to the forces that produced the population of over half a million. Clinics in the East were rare.39 other hand, only 4 percent of the groups were located in cities with a group clinics. The AMA survey found half of the groups in cities with Middle and Far West and their concentration in small cities. These geoless than 25,000 people and two thirds in cities of under 50,000. On the The two surveys agreed on the predominance of the clinics in the

demand there for specialized services, mainly surgery and diagnostic me in 1975 that the clinics grew up in the West because they met the who founded the Palo Alto Clinic in Palo Alto, California, suggested to zations develop first and most rapidly in urban areas. But this may have of large and venerable voluntary hospitals in the West, particularly in examinations. In the East, such services were provided by the estabbeen a case of the advantages of backwardness. The late Russell Lee, smaller place, would patronize a group."40 and outpatient facilities provided medical care "for many who, in a did not have the same motive for forming groups; the available hospita that in large cities with ample hospitals and laboratory services, doctors ment of proprietary clinics.39 Similarly, the 1933 AMA study pointed out small cities, created an opportunity in the early 1900s for the developlished voluntary hospitals and their affiliated physicians. The absence These findings contradict the usual expectation that complex organi-

of group medicine, William Mayo once remarked "if we were we did without any initial design. Though they were often called the "fathers" practice as an experiment in social reform."41 The Mayos expanded ideological reasons. They did not, as Rorem observed, "regard group The doctors originally involved in the clinics did not found them for

\*Rorem defined group clinics as groups of physicians, representing two or more specialties, who engaged in "cooperative and contiguous" practice, shared responsibility for patients, pooled their income, and employed a business manager. The AMA, however, rejected many of these qualifications in its definition, which included groups that did not pool income and represented only a single specialty. Rorem located clinics through the association of clinic managers, which probably led him to overlook many clinics too small to have a manager. The AMA located clinics through its network of county medical societies. ties and consequently seems to have picked up many smaller ones

> a "cooperative science" and "individualism in medicine" could no lonvate practice we have not developed organization."43 progress in pure and applied science, plus organization," Davis wrote ordination. "Modern industry is the result of specialization, based upor many specialists directly, and the result was inefficiency and lack of coof doctors were still general practitioners. Families were calling or the specialists' advice; no longer was this so, even though the majority the family doctor. It used to be that the family physician interpreted ward he wrote of group practice as a remedy for the disappearance of ger continue. 12 In 1915, the reformer Michael Davis visited the Mayo not know it." Yet by 1910 he was saying that medical care had become "In modern medicine we have developed specialization . . . but in pri Clinic; like Menninger, he saw the future, and it worked. Soon after-

tion?"45 nosis, may make necessary some such cooperative plan as these groups sota who accused them of underselling and publicity seeking. The AMA "Does it mean that the family physician is being replaced by a corporathat the rise of group practice inevitably posed to general practitioners, instances forced to do so in self-defensel" And then it asked the question seeing the advantages and are forming other groups—perhaps in some ment? What of the physicians outside the group? Some evidently are are intended to provide. But what of the outcome of this new development of modern medicine, and especially of scientific laboratory diag-In an editorial in 1921, the association's Journal noted, "The developpact and rarely missed an opportunity to point out its disadvantages never condemned group practice outright, but it worried about its imrates. Even the Mayos were bitterly criticized by colleagues in Minneed.4 They often complained that the groups cut fees below prevailing tended to be "definitely antagonistic, even belligerent," Rorem reportties where doctors had formed group practices, the solo practitioners Many doctors, however, were hostile to group practice, In communi-

organizational structure: a clinic organization comprising the medical ship, or a corporation.46 poration. This split made possible a division of earnings that reflected equipment. The clinic then leased the facilities from the property corpractitioners and a property corporation that owned the plant and were not all legally organized as corporations. Many had created a dual The clinic itself might be organized as a sole proprietorship, a partner the partners' varying contributions of labor and capital to the venture. Although they were profit-making organizations, group practices

ture. Many of them began when a successful surgeon or internist built Legal arrangements aside, the early clinics had a definite class struc-

groups." In other cases, doctors who referred patients to each other and up an organization around his practice; these were called "one-man owning physicians to be forty-six, while the employed doctors' median employees, who received a wage. Rorem found the median age of the into two classes: owners, who shared in the partnership or stock, and ied in the distribution of power, the physicians in groups generally fell to add doctors to take care of additional work. 47 But though clinics varperhaps shared contiguous offices formalized their relations and began ers with many patients who had "passed through the weary years of vate clinics, Rexwald Brown, a doctor in group practice in Santa Barbathem.48 In 1923 in an unusually graphic analysis of the workings of priowners; pathologists, radiologists, and dentists were rarely among age was thirty-four. Surgeons and internists predominated among the and something of relaxation." Tensions with the younger staff were small financial returns" and looked forward "to a lightening of their ra, California, described the older men as typically successful practitioncommon, as Brown explained with evident bias: loads, a better service to their patients, opportunity for needed study

eral practice as a background. Many of them have been trained in hospitals devoted to special phases of disease. . . . Too much perhaps they expect the world gles, trials and hardships of building up a practice, and the slow yearly increase to recognize them as having arrived in achievement. They know not the strug-The younger men enter the group with little or none of the realities of gen-

are on salary, and the group at its beginning has no material assets other than the group practice grows in volume. The younger physicians, be it understood, ble . . . the practices of the older men, their years of contact with patients, their the equipment furnished by the older physicians. The real assets  $\dots$  are intangi Thus, the stage is set for the attitudes of mind which become apparent as

good. His patients are numerous, and as he is well trained and skilful, his results who are insisting on the younger men answering night calls and handling other exacting but essential routine matters of practice. He labors under the thought older men, who are finding time for medical conventions and vacations, and tainments and value to the group. He becomes restless, rather critical of the win admirers. . . . He feels his compensation is not commensurate with his atsuccesses, reputations . . . that he is being exploited... It is not long before the young specialist becomes cognizant that he is making

since he had become "an integral part in the success of the group." The unwise for the older doctors simply to fire the unhappy young man, clinic to continue in its old form. For as Brown explained, it would be The young doctor's sense that he was exploited made it difficult for the remedy, he suggested, was to give the younger man a share in the part-

> of the overhead and then allowed to keep the collections for its services. 49 mental structure, in which each department would be assessed its share maintain some central control; he also recommended creating a departnership, while creating an executive committee of senior partners to

culty of maintaining hierarchical control over the employed physicians could not be indefinitely kept in the position of a wage earner. The diffito a conference of clinic managers after his report appeared, Rorem worker, always has the alternative of individual practice, should he prein its study of medical groups that there was "powerful resistance" to cited as a reason for their low growth internal differences among doc-Groups sometimes broke up over these economic conflicts. In a speech tended to weaken the power of capital over labor in group practice. fer it to any form of association in his work."51 And he often did. industrializing medical practice. "The physician, unlike the industrial tors about their relative economic value to the group. 50 The AMA noted Such changes effectively recognized that the employed physician

a limited niche in the twentieth century's first decades ual physicians can now obtain access to these without the necessity of expanded to meet the demand. "A much larger percentage of individready been recognized. Later in the twenties, hospitals and laboratories may have been due to the lag in development of laboratory and hospital rise of complex organizations in medical practice, but they found only developments reduce the incentive to form groups in order to obtain perhaps excessive development of specialization has also made availfacilities in middle-sized cities after the need for those services had alpractice seems to have slowed down. The rapid growth after the war the expectations that specialization and technology would lead to the access to equipment and consultations."51 The private clinics fulfilled able a wide choice of specialists for consultation in most cities. These forming a group," the 1933 AMA analysis of group practice claimed. "A After the spurt in growth following World War I, the spread of group

#### CAPITALISM AND THE DOCTORS

### Why No Corporate Enterprise in Medical Carer

wanted to prevent the emergence of any intermediary or third party because they wanted to preserve their autonomy, but also because they Doctors opposed corporate enterprise in medical practice not only

code of ethics adopted in 1934, for a physician to permit "a direct profit" of medicine. It was "unprofessional," the AMA stated in a section of its that might keep for itself the profits potentially available in the practice groups for making a profit off of the work of other doctors. The AMA cine and the welfare of the people, and is against sound public policy."53 with the profession at large, is harmful alike to the profession of medito be made from his work. The making of a profit from medical work other words, physicians must be allowed to earn whatever income the quently, by implication, that if medicine required any capital that docthe full return on physicians' labor had to go to physicians, and consecians' labor. The AMA was saying, in short, that there must be no capita opposed any one else, such as an investor, making a return from physifrom their work. Nor did it reprimand the physician owners of medical Not that the AMA believed it was wrong for doctors to make a profit "is beneath the dignity of professional practice, is unfair competition tis by the community, instead of by investors looking for a profit. In tors themselves could not provide, it would have to be contributed graformation in medical care (other than what doctors accumulated), that capital contributed by the community might yield to them.

otherwise occur. As the economist Stephen Marglin argues, "By mediatcontrols that typically prevail in industrial capitalism. One function of aside much more for expanding and improving plant and equipment ing between producer and consumer, the capitalist organization sets make possible a much higher rate of capital accumulation than would sion and tribute extortion has come to be known as 'racketeering.'" an actual service is performed by facilitating action and providing inforabstract a profit from the interflow of commodities and cash. Sometimes intervene in business relations between buyers and sellers in order to a small part of the business acumen of present society," stated its Buwas wary that a similar process might take place in medical care. "Not dependent on the enterprise to secure work and a livelihood. The AMA skilled labor, as Marxists contend—the individual producer becomes greater effort and discipline from workers and substituting cheaper unthrough the division of labor, as Adam Smith argued, or by exacting producer and the market—whether by virtue of superior efficiency lation."54 Once the organization successfully inserts itself between the than individuals would if they could control the pace of capital accumuthe hierarchical organization of work in the capitalist enterprise is to mation to one or both parties." But in its most undesirable form, "such in trureau of Medical Economics, "is expended in seeking an opportunity to Anxious to avoid this sort of "intrusion" into medical care, the AMA Physicians did not want to be subjected to the kind of hierarchical

cited the slogan of some French physicians—"no third party"—as a worthy example and declared, "Where physicians become employees and permit their services to be peddled as commodities, the medical services usually deteriorate, and the public which purchases such services is injured."55

The doctors objected not only to private enterprise but to any middleman coming between them and their patients, whether that third party was a company, a fraternal lodge or union, or any other organization. In 1911, one Pennsylvania doctor remarked of lodge practice that "the physician is being exploited for the benefit of the middleman; his services are purchased at wholesale and sold at retail." The AMA objected also to nonprofit institutions deriving a profit from medical service, even though the profit might be used for "other 'philanthropic' purposes to the glory of the institution and its administrators."

unlike factories. The doctor's cultural authority and strategic position asked: Why did doctors succeed? The answer, I believe, lies in the inquired some of the group's capital given a share in the partnership because they had the alternative of intheir competitive appeal.) The younger physicians generally had to be loyalties, the failure to provide a personal doctor could have limited physician's patients. (Though the group practice might have rotated paif he were equally competent, might not succeed in holding the first tients, and skill and experience. To substitute another physician, even the process of serving patients. They acquired reputations, devoted pabeginning, but the younger doctors accumulated a kind of capital in practices faced in dealing with their discontented young physicians. in the production of medical care create a distinctive base of power.\* hospital or clinic. In this respect, hospitals and clinics are fundamentally lation with their physicians even when medical care takes place in a source that the ordinary worker lacked. Patients develop a personal rethat prevailed in the early twentieth century. The physician had a reducer and consumer in medical care under the economic conditions ability of corporate enterprise to insert itself successfully between proand the extraction of a profit from their labor, the question may be dividual practice and, by virtue of their relations with patients, had actients among employed doctors to prevent the formation of individual The older doctors might have brought capital to the enterprise in the he might take his patients with him. This was the problem the group If, as often happened in group practice, the doctor threatened to leave, Since other groups also wanted to avoid hierarchical subordination

<sup>\*</sup>On the concepts of cultural authority and strategic position, see the Introduction.

A key consideration here is that the costs of going into individual practice were not inordinately high. Solo practice would have been much less attractive if physicians had no access to community

The hospital itself also did not stand between the doctors and the market. On the contrary, the doctors came to stand between the hospital tal and its market. This was the source of doctors' control of hospitals, as hospitals increasingly depended on payment by patients rather than on bequests and donations. As I indicated in Chapter 4, the hospitals needed the doctors to keep their beds occupied. In this context, as in needed the physicians' authority with patients and their strategic position in the system represented a resource that gave them power in the thore.

By the 1920s, corporate organization was generally confined to the pharmaceuticals, hospital equipment, and other industries on the periphery of medical care. Wherever physicians were directly involved—in medical practice, hospital care, and medical education—corporate enterprise was limited. This had not always been so. Profit-making medical schools and hospitals were quite common in 1900, yet both were soon in decline. My argument here is that the profession's success in establishing its sovereignty in medical care depended on the banishment of profit-making businesses from medical education and hospitals as well as from medical practice itself.

profitable. The proprietary schools could not raise tuition high enough entific and clinical training, first adopted at a few universities and then ally all proprietary, became nonprofit. Longer and more expensive scition required. I have already discussed how medical schools, once virtucould not attract the capital investment that a full-scale scientific educato make a profit because students would not have been willing to pay required of other schools by licensing laws, made medical education unit impossible to obtain them. "So long as medical schools are conducted investment. Subsidies were inescapable, but proprietary schools found that much; a medical career then would not have returned so large an as private ventures for the benefit of a few physicians and surgeons who stantial endowments.58 This was true elsewhere. In the 1890s, Jefferson nating the "fee system" was Harvard Medical School able to attract subnot to endow them," President Eliot of Harvard wrote. Only after elimihave united to form a corporation or a faculty, the community ought fund, but had no success because of public awareness that the faculty Medical College in Philadelphia tried to raise money for a building took a profit. In 1894 William Potter, one of Philadelphia's wealthiest Proprietary schools did not threaten to dominate physicians, but they

businessmen, was added to the board of trustees, and he at once insisted that Jefferson reorganize as a nonprofit corporation, which it did the following year. As a result, Jefferson was able to attract contributions and emerged as one of the few old medical colleges to survive independently of a university, though only by dropping its profit-making status.<sup>59</sup>

The transition to nonprofit organization in medical schools was the outcome of a long struggle over the licensing laws between medical societies and commercial schools. The proprietary schools had resisted the imposition of heavy licensing requirements, but they lost out as the medical profession grew in political strength and cultural authority. The reasons for their decline are bound up in the reasons for the rise of the profession—the growing ability of physicians to assert their collective interests over the more parochial interests of the physicians who profited from the commercial colleges.

In some ways, the hospital presents a striking contrast to the medical school. In the nineteenth century, while medical education was profitable and conducted as a commercial enterprise, hospital care was unprofitable and conducted as a charity. Around the turn of the century, medical education became unprofitable, while hospital care turned profitable. But in the end, the hospitals remained largely nonprofit too.

Although many proprietary hospitals were established around 1900, they were generally small and never accounted for a large proportion of total hospital capacity. In 1910, according to one estimate, proprietary hospitals represented 56 percent of the total number of hospitals, but they declined to 36 percent by 1928, 27 percent ten years later, and a mere 18 percent by 1946. In hospital beds, they accounted for only 6 percent of the total in 1934 and just 2.8 percent a decade later. 61

Profit-making hospitals were generally converted to nonprofit corporations by the physicians who owned them. Originally, proprietary hospitals were a means of defending professional autonomy; many were founded in response to closed-staff organization at other institutions. The AMA reported in 1929 that doctors who ran hospitals for profit found the hospital itself "a losing proposition"; the advantage for the doctor was that the hospital "enables him to take care of a larger number of patients in a given time." Physicians' interest in maintaining proprietary hospitals waned, however, as community hospitals opened their staffs to wider membership and doctors found they were able to have the public provide the capital for hospitals and maximize their incomes through their professional fees.

Various other considerations also persuaded doctors to yield title to most of the hospitals. Professional authority is, in some respects, a functional equivalent of property ownership. It gives physicians substantial control over the operation of hospitals and other medical institutions

without encumbering them with the risks of investment. In addition, the charitable origins of the hospital left voluntary institutions with a variety of legal privileges, such as exemptions from taxes and charitable immunity from malpractice liability. These privileges put the profitmaking hospital at a competitive disadvantage.

Some doctors—the proprietors of commercial medical schools, hospitals, and clinics—rnight have gained by profit-making organization. But the profession as a whole would have lost some of its independence and its control over the market. Corporate capitalism was kept out of medicine partly because of the support that courts, legislatures, unions, and the public gave to the ideal of a free profession; partly because of the absence of any decisive competitive advantage of corporate organization in medical practice at this stage of development (prior to the rise of third-party health insurance); and partly because of the economic power over organizations possessed by doctors as a result of their direct relation to patients. But the exclusion of the corporation from medical care, like the exclusion of the state, helped maintain the collective autonomy of the profession and reflected its general success in asserting its collective interests over the interests of individual physicians.

### Professionalism and the Division of Labor

The primacy of the profession, particularly its success in resisting corporate domination, contributed to the development of a distinctive division of labor in medical care. In industry, despite the resistance of artisans, the dictates of the market broke up the work of skilled craftsmen into low-skill—and consequently cheaper—labor. In medicine, physicians maintained the integrity of their craft and control of the division of labor. While medicine itself became highly specialized, the division of labor among physicians was negotiated by doctors themselves instead of being hierarchically imposed upon them by owners, managers, or engineers. And professional interests and ideals decisively influenced the increasingly complex division of labor between physicians and the occupations that emerged with the growth of modern hospitals, clinics, and laboratories.

Doctors did not simply want to maintain a "monopoly of competence." They wanted to be able to use hospitals and laboratories without being their employees, and consequently, they needed technical assistants who would be sufficiently competent to carry on in their absence and yet not threaten their authority. The solution to this problem—how to maintain autonomy, yet not lose control—had three elements: first, the use of doctors in training (interns and residents) in the operation

of hospitals; second, the encouragement of a kind of responsible professionalism among the higher ranks of subordinate health workers; and third, the employment in these auxiliary roles of women who, though professionally trained, would not challenge the authority or economic position of the doctor.

1937; the anesthesiologists the following year. 62 of salary. The radiologists and hospitals reached an understanding in were also successfully demanding that hospitals pay them by fee instead subordinates. Moreover, by the late 1930s, the hospital-based specialties cians ultimately prevailed and other medical personnel became their in these fields to meet the demand. But in these and other areas, physinonphysicians were sometimes originally in charge of X-ray units. In Nurses became strongly established as anesthetists before the 1920s, and omy from hospitals. Although specialized training might be required maintain their primacy over the new occupations as well as their autonadvanced fields, such as clinical pathology and radiology, wanted to prises, the physicians removed the danger that the organization and new kinds of work that were created? In deterring profit-making enterthe early stages of development, there were too few doctors trained Rosemary Stevens points out, that the specialists had to be physicians to perform laboratory tests, X-rays, and anesthesia, it was not clear, as professional occupations. Doctors who specialized in technologically the boundaries of competence and authority of emerging technical and profits of medical work would be controlled by managers and investors. question in medicine: Who would control and make money from the But in the new division of medical labor, there were uncertainties about The growth of technology and organization raised a new and difficult

The development of clinical laboratories offers a particularly graphic illustration of professional control of the division of labor. As late as 1890, most laboratory procedures used in medical care were performed by a doctor with a microscope and slides working in his home or office. Over the next decade, the number of tests and complexity of equipment began to increase significantly. Laboratories became complex organizations, operated by health departments, hospitals, and independent companies. The tests themselves, it became apparent, could be performed by specialists who were not physicians. But could these new specialists also interpret the tests to patients? And could they manage laboratories?

The laboratory industry was divided primarily between hospital and commercial laboratories. As of 1923, according to an AMA survey, about 48 percent of hospitals had laboratories. Commercial laboratories, often operated by businessmen or chemists rather than doctors, were fewer

in number; a survey in 1925 indicated that they represented about 14 percent of the total number of laboratories. Despite possible economies of scale, these outside laboratories continued to perform a small share of the tests over the next several decades. As William White has shown, the hospital standardization program of the American College of Surgeons played a critical part in ensuring that laboratories developed mainly in hospitals under the control of pathologists. The college's standards for certification required hospitals to have a laboratory and to place a physician, preferably a pathologist, in charge. Contracts with outside laboratories were not considered satisfactory. By giving the pathologists a monopoly on laboratory tests in the hospital, the surgeons evidently intended to subsidize less profitable procedures pathologists performed, such as autopsies. Originally a small franchise, hospital laboratories became extremely lucrative for the pathologists as tests in

grades it certified, to have two years of college and a year's working cians, began operating a system for certifying laboratory personnel them power over other laboratory workers. In 1929 the recently formed sonally recommended by a physician. Six years later, the educational experience and to pass a written examination; they also had to be per-Their program required medical technologists, the higher of the two American Society of Clinical Pathologists, made up exclusively of physi gist."64 Since pathologists controlled the labor market for technicians. except in so far as it is self-evident in the report, or advise physicians circumstances, on their own initiative, render written or oral diagnoses times under the supervision of a qualified physician and shall under no standard was raised to a college degree. The code of ethics stipulated of personnel of technologists, which would have reduced their flexibility in the use for certification. The pathologists opposed any government licensing dently without the supervision of a qualified physician or clinical patholoand others in the treatment of disease, or operate a laboratory indepenthat registered technicians and technologists "shall agree to work at all laboratory workers had a strong incentive to meet the requirements The pathologists' control of the laboratory business naturally gave

Thus professionalism did not mean the same thing for these paramedical workers as it did for physicians. Professionalism in this instance was not primarily an effort to monopolize a sphere of competence; subordinate professional institutions were developed under the aegis of physicians. The pathologists encouraged the development of a responsible professionalism among technologists to upgrade the qual-

ity of their work force and to free themselves from supervisory responsibilities.

and to the full technological resources of the medical system. scribe drugs. Only physicians had access simultaneously to the market but they were often limited in their access to hospitals and right to preteopaths and chiropractors also had unmediated access to the market, dentists and optometrists remained independent practitioners. And os similar issues: The traditional midwife was a competitor; her successor, neurial role. The conflicts between obstetricians and midwives involved themselves were able to occupy this strategic position, preventing those rations from standing between its members and the market; doctors cians. Not only did the medical profession succeed in preventing corpostruggle with other health care occupations such as laboratory technieconomic advantage of standing between the rest and the market." "engaged in a constant struggle as to which of them should secure the the nurse-midwife, was not. Of course, not all groups were so restricted, like laboratory technologists from assuming a competitive entrepre-Twentieth-century American physicians were engaged in a similar Craft guilds in the sixteenth century, George Unwin writes, were

Within medicine itself, the division of labor between specialists and general practitioners was also a point of conflict. When specialists claimed that various techniques and procedures required their skills, general practitioners often found themselves damned in the same breath as nonphysicians. The obstetricians who argued that midwives were inadequately prepared to handle deliveries frequently said the same of GPs.<sup>66</sup> Hence two different conflicts were often taking place on the same terrain. The specialists sought to achieve ascendancy over the nonphysician specialists in their areas—obstetricians over midwives, ophthalmologists over optometrists, anesthesiologists over nurse anesthetists, and so on. And they also sought to impress upon the general practitioner the limit of his abilities.

The outcome of these two conflicts, as of 1930, was very different. The nonphysician specialists were subordinated to the doctors' authority, usually permitted neither to practice independently of the doctor nor to interpret the results of tests or X-rays directly to patients. Nurses and technicians had no chance of working their way into positions as physicians. On the other hand, the general practitioners resisted any attempt to grant specialists exclusive privileges over some kinds of medical work, or to limit their opportunities for specialty training and career development.

Before the 1930s, there were no limits on the entry of general practi-

ships emphasizing a specialty; still others learned special techniques as and gradually restricted the cases they accepted. Others took internsicians first went into general practice, developed an interest in a field ous; there was no single path that could be easily monitored. Many phytioners into specialty practice. The routes to specialization were numerschools in 1910, according to Flexner, and by 1914 five were operated courses in New York, Chicago, or other cities in America or Europe. sistants to established practitioners. And some took short postgraduate junior attending physicians. Some received training while serving as astraining during residencies following their internships.67 by universities. At this time, only a few doctors received their specialty There were thirteen independent, mostly proprietary postgraduate

internship. World War I accentuated the sense that specialty practice proposed a standard of two years of graduate training in addition to the commercialism in graduate as in undergraduate education. In 1915 it mended that the AMA regulate postgraduate schools and drive out appointed by the AMA Council on Medical Education in 1913 recomlem by leaders in medical education and the specialties. A committee regulation in the practice of the specialties became identified as a probthalmologists, for example, 51 percent were rejected. After the war, the practice a specialty, the military found many unqualified. Of the ophneeded standards. In its examinations of physicians who claimed to of the influence of general practitioners in the AMA who wanted access training, but as Stevens points out, it had to move cautiously because AMA council announced it would concentrate on reform of graduate tion as a requirement for admitting privileges. ing as specialists, or to compel hospitals to employ the boards' certificacialty boards had no power to prevent uncertified doctors from practiconly developed on a general basis in the 1930s. And, even then, the spetification by specialty boards, therefore, grew up outside the AMA and to hospitals and opportunities for specialty training. 68 The system of cer-Soon after the Flexner report came out, the lack of any standards or

general practitioners in America were not guaranteed the role of GPs tiered system that emerged in England, where the specialists (consuland certification, American medicine did not develop the kind of two in America, the general practitioner did not stand between the special from a general practitioner. Since patients went directly to specialists in England, where patients could consult a specialist only by referral tants) acquired a monopoly on hospital positions. On the other hand, ist and the market. And, in the long run, this failure to gain a secure mediating role contributed to the breakdown of general practice And so, even after some order was introduced into specialty training

> and nurses' aides). came more hierarchically stratified than did medicine. The medical themselves into three (registered nurses, licensed practical nurses profession resisted any division into two classes; the nurses divided the subordinate occupations, such as nursing and laboratory work, beone level did not count toward qualification at the next. Moreover, from nurse or technologist to physician were negligible; experience at occupations, it was hierarchical and rigid. The possibilities of moving labor was only loosely regulated, but between physicians and other but sharp boundaries around it. Among physicians, the division of American medicine created fluid boundaries within the profession, The influence of professional sovereignty on the division of labor in

system of professional sovereignty. of the enterprise might have sought to take away from the workers control over the division of labor, which physicians retained through the himself competent to perform. As in other industries; the management have been free, for example, to do whatever procedures he considered cal control: The physician with limited graduate training might not babies. The firm might also have subjected its doctors to more hierarchipediatricians would have been the logical choice to take care of well obstetricians would always have been used in normal deliveries, or that that physicians insisted on retaining. It is not clear, for example, that tute the cheaper labor of ancillary workers for physicians in many areas greater flexibility in its use of personnel. It might have tried to substifirm (even if run by doctors) would have had an incentive to seek Had medical care become a corporate enterprise, the medical care

### The Economic Structure of American Medicine

of American medicine. sis, to contrast it with two other explanations of the political economy It may help, in bringing together the threads of the preceding analy-

cost of medical education; and special pricing practices—the sliding tion and the expectation that advice given by a doctor will be divorced characteristics, Arrow means those that depart from the standard dence of disease and in the efficacy of treatment." By special structural neth Arrow argues that the distinctive structural characteristics of medfrom self-interest; licensing restrictions and the high, heavily subsidized behavior, such as the bar against advertising and overt price competimodel of a competitive market: the ethical restrictions on physicians ical care can be explained as adaptations to "uncertainty in the inci-In perhaps the single most influential neoclassical treatment, Ken-

scale and the insistence of physicians on fee-for-service as against pre-

Arrow suggests that these various structural features are attempts to compensate for imperfections in the medical market. His point of departure is the concept of "market failure"; as he puts it: "[W]hen the market fails to achieve an optimal state, society will, to some extent at least, recognize the gap, and nonmarket social institutions will arise to bridge it." The medical care market fails to perform efficiently because patients cannot assess the value of treatment, nor obtain insurance that would compensate them for any imperfect outcome. "The value of information is frequently not known in any meaningful sense to the buyer; if, indeed, he knew enough to measure the value of information, he would know the information itself." Patients are utterly dependent on physicians in ways that buyers are not normally dependent on sellers. Consequently, according to Arrow, other safeguards, such as ethical restrictions on physicians' behavior and licensing restrictions on entry into the market, arise to protect patients."

Unfortunately, Arrow leaves unexplained the connection between the prevalence of uncertainty and the insistence of physicians on fee-for-service payment. Prepayment is itself an adaptation to uncertainty in the incidence of disease and the costs of treatment; if anything, the profession's opposition to contract practice (and later to health insurance, medical cooperatives, and other prepaid health plans) increased the burden of uncertainty that patients had to bear.

sion—in fact, by some of the features Arrow discusses, such as codes of cilities. Uncertainty has also been enhanced by the medical profesploy knowledgeable agents to choose among physicians and medical fastate or some collective agency, such as a fraternal society, it could emthe market is organized. If the purchaser of medical services were the difficulties. Uncertainty in medical care is partly a product of the way Of course, most uncertainty is not artificially manufactured. Uncerprofessional ethics that require doctors called in on consultations to gressive eras helped restore a belief in the legitimate complexity of of ordinary men. As I've argued earlier, the advance of science and deearly 1800s held that all that was useful in medicine was within the reach withhold from patients information that would discredit a colleague. preme Court decision in Dent v. West Virginia) favored the reinstitu medicine. An increased sense of uncertainty (as was evident in the Sucline of confidence in common sense between the Jacksonian and Protainty reflects more general cultural beliefs. Democratic thought in the tion of licensing at the end of the nineteenth century. This missing link in Arrow's argument is related to more fundamental

### Escape from the Corporation 1900-1930

against prepaid health plans. organized to change it—that barred advertising and price competition, lobbied for licensing laws, engaged in price discrimination, and fought no one more than the medical profession, and it was the profession that optimality. One has to ask: For whom did the market fail, and how did "society" make these adjustments? The competitive market was failing It is as if some inner dynamic were pushing the world toward Pareto the market fails, "society" will make adjustments. This is too abstract. structural features Arrow discusses have a history. He writes that when analysis; it requires an analysis that is both structural and historical. The that developed in America cannot be derived from a purely abstract were defeated. The particular alternative to the competitive market also have been adaptations to uncertainty, but they met resistance and tive practices adopted by the profession or enacted at its behest, would departures took. Other institutional arrangements, besides the restricpartures from the competitive market, it cannot explain the form the But while the growth of uncertainty may explain why there were de

Yet there is a still deeper problem. Arrow looks at the structure of the medical market as a rational adaptation to certain inherent characteristics of medical care; he attempts to explain the particulars of the system at a given moment in history in terms of universal features of medicine. There is the presumption that what is real is rational or, as the economists say, "optimal." (The sociological version of this fallacy is that what is structural must be functional.) The result is not so much to explain as to explain away the particular institutional structure medical care has assumed in the United States.

Recent Marxist interpretations maintain that the interests of corporate capitalism brought about the rise of scientific medicine. One account, E. Richard Brown's *Rockefeller Medicine Men*, argues that capitalists personally exercised control over the development of medicine through the foundations they established. In Brown's view, scientific medicine was consonant with the capitalist view of the world, while the more holistic orientations of homeopathy and herbal medicine were not. Scientific medicine, he writes, was "a tool developed by members of the medical profession and the corporate class to serve their perceived needs." The Rockefeller philanthropies favored scientific medicine because it helped "legitimize" the inequalities of capitalism by diverting attention from the social causes of disease; capitalists also had an interest in maintaining the health of their workers.<sup>70</sup>

One must, I suppose, have a deep appreciation of the fragility of capitalism to imagine that it might have been threatened by the persistence of homeopathy. Some of the most enthusiastic believers in scientific

medicine, one needs to recall, were socialists, who were outraged by the failure to extend its benefits to the working class. No doubt the Rockefellers sought to gain public credit and good will by supporting research approved by medical authorities. But this no more proves that scientific medicine peculiarly benefited their interests than bequests to churches by the rich prove that Christianity peculiarly benefits millionaires. The legitimacy of capitalism rested on more ample foundations than the alleged ideological functions of medicine in focusing attention on bacteria rather than class interests. Compared to the beliefs in economic opportunity and religious and political freedom, medicine played an insignificant role in sustaining democratic capitalism in

employers did not wish to assume the costs of medical treatment nor ventive engineering and industrial hygiene rather than medical care; tions were concerned about health, they were interested mainly in preclose inspection. During the Progressive era, to the extent that corporatalists for compulsory health insurance. This argument cannot survive uses of medical care in industry, and the alleged support of liberal capi this point, Brown cites Rockefeller investments in medical research, the medical care rather than public health and prevention. In support of opposition.71 Much of the Rockefeller work did involve public health, employers were opposed to compulsory health insurance; the organizato offend private physicians by trespassing on their terrain. Almost all to its end that 'the fundamental aim of medical science ought to be not and Brown himself writes that Frederick Gates, who managed the tions that Brown mentions as supporting such proposals actually led the primarily the cure but primarily the prevention of disease.""29 Rockefeller philanthropies, "insisted from the beginning of his career Marxists frequently claim that capitalism encouraged an emphasis on

It is difficult to see why capitalism, as a system, would have benefited by favoring medical care over public health. Sanitary services were relatively inexpensive and undoubtedly a better investment than the services of physicians. To be sure, many companies resisted public health measures that would have increased their production costs or limited their markets. On the other hand, for equally self-interested reasons, life insurance companies actively stimulated public health measures. The expansion of trade, increasing coordination of economic activities, and complex needs of large businesses all created a demand for public health that industrial capitalism needed to satisfy. Moreover, reform movements, including the labor movement, were not simply spectators to developments cleverly engineered by capitalist foundations. The conflicting interests among businesses and between business and the

public had to be resolved by government. Employers were not always united, and they did not win every battle; they did not need to.

There is no doubt that capitalism encourages an attitude of rational calculation that affects public health and health care as it does every other realm of life. The conservative economist Joseph Schumpeter observed that "although the modern hospital is not as a rule operated for profit, it is nonetheless the product of capitalism not only . . . because the capitalist process supplies the means and the will, but much more fundamentally because capitalist rationality supplied the habits of mind that evolved the methods used in these hospitals." From William Petty to contemporary cost-benefit analysis, there have been attempts to apply the logic of rational calculation to medical care and public health. It is not possible to say that this inevitably favors medical rather than public health measures; quite often used such calculations to show that public health measures are rational social investments. The issue is not the use of equations but what goes into them.

how firmly it had seized the imagination even of its rivals. police. To see the rise of the profession as coercive is to underestimate to competence and understanding rather than the strong arm of the cultural authority rather than sheer power, on the success of its claims regular profession depended on belief rather than force, on its growing received protection as a religious denomination. The triumph of the able to secure separate licensing statutes, and the Christian Scientists how deeply its authority penetrated the beliefs of ordinary people and the century won legal authority. The osteopaths and chiropractors were of the late nineteenth century. They disappeared only after they were dissidents had to be brought in as partners in the licensing movement regular physicians tried to suppress the homeopaths and botanics, the cessful means of advancing the interests of the profession. Though the competing systems of medicine was only a minor and relatively unsuclicensed. Even the new forms of practice that emerged at the turn of lization of medical practice by regular physicians. The repression of free market, have emphasized—excessively, in my view—the monopo-The Marxists and, curiously enough, some right-wing advocates of the

Yet changes in the distribution of power did play a major part in the social transformation of American medicine, and here we have the first of five major structural changes delineated in the preceding pages. This was the emergence of an informal control system in medical practice resulting from the growth of specialization and hospitals. The need for referrals and hospital privileges brought about a shift from dependence on clients to dependence on colleagues and promoted a change in the

profession from a competitive to a corporate orientation. It gave impetus to strong professional organization and enabled physicians to assert their long-run collective interests over their short-run individual interests. It encouraged former rivals to put aside their differences and work together in behalf of licensing laws and other common political objectives. As professional bickering died down, the authority of the profession rose. The profession's mastery of itself was the precondition for its mastery of public sentiment.

Stronger collective organization and authority brought about the second major structural change, the control of labor markets in medical care. Licensing, of course, restricted the supply of doctors. The main function of medical licensing was not so much to exclude rival practitioners as to cut down on the number of regular physicians by making medical education unprofitable. For it was the licensing boards—and not primarily the Flexner report, as another familiar reading of history has it—that tightened the noose on commercial medical schools. Fewer graduates not only meant fewer practitioners competing with one another, but also cut off the supply of cheap professional labor for free dispensaries and contract practice. It gave physicians more control over the terms of their relationships with patients. And through certification programs and the encouragement of responsible professionalism among their subordinates, doctors secured the advantage of standing between other technical personnel and the market.

cine was tolerated, and much of the capital investment required for of hierarchy of the capitalist enterprise. No "commercialism" in medicreased.) Health departments, beginning with free laboratory diagnosis giving free care on the wards, but free service declined while the capi to private practitioners meant they were able to use the capital invested which they received the return. The opening of community hospitals large subsidies into the formation of physicians' human capital, on medical practice was socialized. The reform of medical schools brought stimulated the demand for medical services. Privately endowed and vate practitioners, found new disease in need of treatment and thereby programs, by performing diagnostic work and making referrals to pricosts they also did not have to bear. Health centers and school health for diphtheria, provided physicians various technical services whose tal invested in hospitals and the value of hospital appointments in tion on their fees. (Doctors originally paid for the use of hospitals by in hospital facilities by the public, at no charge and without any restriccal innovation later publicly supported medical research socialized the costs of techni Third, the profession secured a special dispensation from the burdens

### Escape from the Corporation 1900–1930

The elimination of countervailing power in medical care was a fourth element in the structural development of professional sovereignty. The state, corporations, and voluntary associations (such as fraternal societies) might have exercised countervailing power, but all were kept out of medical care, or on its margins. Their exclusion meant no organized buyers offset the market power of physicians. Doctors could then set prices according to what clients could pay. The absence of countervailing power was also a key to the political influence of the profession. As I noted in Chapter Three, those occupations that obtained licensing protection in the late nineteenth century had the advantage of not facing any organized buyers or employers who might have had an interest in preventing licensure from being imposed. Preserving that advantage gave physicians a clear field on many political issues strategically related to medical care.

The fifth development was the establishment of specific spheres of professional authority. Medical care came to be characterized by a series of internal boundaries demarcating the profession's domain. The vigilantly guarded border between public health and curative medical services was one example. In the hospital there was a split between two lines of authority, one professional, the other administrative. In the drug market there developed a division between ethical and over-the-counter drugs, the former available only by the authorization of a physician. The general absence of integrated organization and higher-level management in the medical system had the function of preserving the sovereign position of the profession. The various attempts to rationalize the organization of hospitals or of medical practice and public health foundered on the resistance of private interests. No program, policy, or plan was acceptable, even worth considering, unless it respected the professional sovereignty of physicians.

This pattern of structural accommodation to the interests of the profession was what confounded the early predictions that solo practice would be superseded because it was inefficient. With access to hospitals, physicians acquired the technological resources necessary for the practice of modern medicine without becoming part of an organization. Other institutions, such as health departments, performed diagnostic functions for them. These complementary relations allowed physicians to escape the pressures that might have forced them to accept organizational controls. Private medicine was sustained by the willingness of public institutions to assume part of its cost.

This was no devious trick of the profession. It was a political decision made in the hope of preserving the personal relations between doctor and patient. Now, it may be said that many Americans had no such rela-

tions with physicians—quite so, and they had little influence in the decisions. But, perhaps more important, what Americans saw of bureaucratic organization in medical care—the public dispensary, the company clinic—was not encouraging.

By the 1920s, the medical profession had successfully resolved the most difficult problems confronting it as late as 1900. It had put aside long-standing sectarian quarrels and won stronger licensing laws; turned hospitals, drug manufacturers, and public health from threats to its position into bulwarks of support; and checked the entry into health services of corporations and mutual societies. It had succeeded in controlling the development of technology, organizational forms, and the division of labor. In short, it had helped shape the medical system so that its structure supported professional sovereignty instead of undermining it.

Over the next few decades, the advent of antibiotics and other advances gave physicians increased mastery of disease and confirmed confidence in their judgment and skill. The chief threat to the sovereignty of the profession was the result of this success. So valuable did medical care appear that to withhold it seemed deeply unjust. Yet as the felt need for medical care rose, so did its cost, beyond what many families could afford. Some agency to spread the cost was unavoidable. It would have to be a third party, and yet this was exactly what physicians feared. The struggle of the profession to maintain its autonomy then became a campaign of resistance not only to programs of reform but also to the very expectations and hopes that the progress of medicine was constantly arousing. To continue to escape the corporation and the state meant preserving a system that was at war with itself.

### BOOK TWO

# THE STRUGGLE FOR MEDICAL CARE

Doctors, the State, and the Coming of the Corporation