# The Boston Medical and Surgical Journal

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## The Massachusetts Medical Society.

### THE ANNUAL DISCOURSE.\*

Note.—At an adjourned meeting of The Massachusetts Medical Society, held Oct. 3, 1860, it was Resolved, "That The Massachusetts Medical Society hereby declares that it does not consider itself as having endorsed or censured the opinions in former published Annual Discourses, nor will it hold itself responsible for any opinions or sentiments advanced in any future similar discourses."

Resolved, "That the Committee on Publications be directed to print a statement to that effect at the commencement of each Annual Discourse which may hereafter be published."

#### THE INTERNATIONAL MIND IN MEDICINE.

BY KENDALL EMERSON, M.D., WORCESTER, MASS.

Garrison's account of the life of Hippocrates informs us that he was born at Cos, studied at Athens, and spent much time in travel and practice among the cities of Thrace, Thessaly and Macedonia. Not content with the limitation of one environment, he sought the great centers of learning and civilization in that early epoch, and in the period of the Eighteenth Olympiad such journeyings were the full equivalent of the modern physician's postgraduate work abroad. Hence we may infer that the Father of Medicine himself felt his mind reaching forth for foreign contacts, realizing fully the derivation of the word education, a drawing out of the intellect by the attractive force of other greater intellects.

\*Delivered before the Massachusetts Medical Society, June 13,

The physician is an intelligent traveler, for by his training he is specially fitted to sift the grist that comes to his mental mill and to winnow the good grain from the chaff. Not only is this true of his ability to judge medical matters but of his capacity to appraise other phases of strange civilizations as well. This quality is well exemplified in the writings of such keen observers of men and manners as Dr. David Livingston, Sir Frederick Treves or the inimitable Rabelais of an earlier period.

Formerly it was a tradition that the American medical student must complete his training in the clinics of the Old World. With the amazing improvement in our own educational facilities this worthy tradition no longer maintains. Standards of American medical training have forged ahead until our clinics are becoming world centers replacing those of Vienna and Berlin. A recent letter from an American surgeon studying in Vienna states that he has learned nothing new and that on the whole the local work compares unfavorably with our own in point of thoroughness in preparation and technique in execution. In these undoubted facts there lies a source of self-congratulation, and yet, withal, a menace lest we be led into an attitude of smugness and complacency which may work havor with our breadth of medical vision and tend to limit rather than expand our mental outlook in dealing with the world-wide subject of health. The great leaders of our profession in America have been the keenest

exponents of the international mind in meditoday we are profiting from the splendid structure which has been built upon the solid foundation of their contact with the medical thought and the medical masters of all countries.

Can we ever forget that it was the inspiration of two Boston physicians, received during a period of travel and study in the British Isles, which led to the founding of our Massaon hospital development in America which may be traced directly to the inspiration of these two practical idealists, James Jackson and John C. Warren?

Successful achievement brings with it an increased burden of responsibility. It is our duty, therefore, from time to time, to examine our present record, to determine how we are bearing the load and what plans are making to enable us to carry on with success in the years ahead.

From very early times it has been recognized that health is a community, not an individual. of this fact, rules which have been carried out when we reflect that our quota doubtless these attempts. only practical means of protection and had its sanitation. use when the world was composed of isolated and self-sufficient, small communities. As comthe cutting off of imports. of transportation and communication. principle of the embargo slowly gave way before the theory of prevention at the source. Then followed the splendid stream of commissions for the study of local disease, sent out by the more advanced governments of the civil-there are admittedly many in Europe, have ized world, the rapid development of health their encouraging side. For such elaborate recognition of the essential necessity for co-similar organization in other countries where operation between the health services of all practical accomplishment has been achieved as governments throughout the world.

It is beyond the scope of this paper to enter cine; their university has been the world; and into an historical study of the development of these health services or to detail their international growth. To every physician with an outlook on things beyond the confines of his immediate practice such study will prove one of absorbing interest. Not the least striking phase of public health development is its amazingly rapid extension from the limited field of contagious diseases, and its profound invasion chusetts General Hospital in this city? And almost daily of new arenas of activity in the is it possible to estimate the far-reaching effect sphere of preventive and community medicine. This has been a simultaneous growth in all civilized nations, though it is not presumptuous for us to claim rather more than our fair share in hastening the progress of its develop-There are several reasons why this should be the case. For years America has been the annual host of hundreds of thousands of strangers from every country of the globe, whose health immediately became a source of solicitude on our part. When it is realized that probably not over ten per cent. of any nation is highly adapted physically and mentally for pioneer life, it is evident that in the interest. The Hebraic law lays down rules of problem of immigration alone our health serpublic health which indicate keen appreciation vice encountered a colossal task, particularly without change for thousands of years, to the springs chiefly from the other 90 per cent. inestimable benefit of a very sturdily developed and that the principle of selection at the source Now and again in past centuries such has never been applied. Furthermore, America scourges as the plague in London or a virulent has possessed the means and the energy for inroad of Asiatic cholera have aroused govern-development more fully than less favored naments to make feeble efforts toward the pro- tions where overcrowding, poverty and ignotection of the community's welfare. Lack of rance render progress far more difficult. One knowledge as to the cause of disease and proper finds throughout the countries of Eastern preventive methods brought scant success to Europe a surprising elaboration of paper plans The embargo furnished the for serving the public in matters of health and One often looks in vain for the practical realization of those plans. country under the direction of a most able merce increased and nations slowly took on minister of health, an idealist and a scholar, relations of economic interdependence a pro- I found a completely formulated plan for the longed embargo often carried with it depres- care of the nation's tubercular patients, includsion in business and even actual suffering from ing preventoria, instructional classes, clinics, Then came the sanatoria and hospitals for the hopelessly adnineteenth century with its miracles in the field vanced cases. Geographically, the country was Yet when an effort was The admirably covered. small community no longer existed. Action in made to see the scheme in action the pathetic the remotest corner of the globe had its reac-ifact was brought out too clearly that the fight tion throughout the world. Soon ministries of was being waged on paper only and that far health sprang up in many countries, and the too large an appropriation for that alone was being spent on maintaining a perfectly running central bureau, while practically no assistance reached the unfortunate victims of the disease. But even such instances as this, of which

departments in those governments and the early plans give evidence of close familiarity with well. The medical libraries of these countries tions.

of extraordinary alertness for foreign contacts indicating the incidence of epidemics in all rial. Though, through national poverty,

In remote Lemberg, a city which we think of international contacts. as almost a frontier post, Dr. Groer, year before last, organized in his children's hospital have we kept pace with our duty in this essenthe first training school for nurses on the Con- tial development? The answer cannot fail to tinent which gives a three-year course of grad-|fill us with a fair measure of satisfaction. known in Europe, a nurse comparable in her the conquest of yellow fever through the sacriattainment to those educated in our American fice of American martyrs to scientific research. toward the nursing problem. Since that time States. organized there under the direction of American nurses. This is a little known bit of American enterprise in international medicine for which Miss Alice Fitzgerald of the League of Red Cross Societies and Miss Helen Scott Hay of the American Red Cross should receive far more credit than has been their reward up to the present.

are well stocked with literature embracing the doyen of the University Medical School, has by best thought in medical advance throughout a most magnificent effort established a remarkthe world; the first question always asked the ably complete municipal morgue, with autopsy visitor in the days immediately following the rooms, amphitheatres and medico-legal museum war was how best and most quickly to reëstab- vastly superior to any city plant I have seen lish exchanges with current American publica- in this country or abroad. During the German occupation of Roumania, the Teutonic Furthermore, many examples may be cited medical officers were so impressed by the efficiency of this plant that they themselves added among nations often thought of as retarded or several autopsy tables and made it a center of reactionary. A case in point was observed in medico-legal scientific research. To be sure, the new Republic of Poland. A few months fortune has favored the good doctor in his after the signing of peace I saw on the wall work, for, if I recollect aright, he told me that of the new and excellently installed public there were no less than three deaths per day health laboratory a map of the world, on which by criminal violence in the little city of Buchawere pinned the familiar little colored flags rest, which furnished him ample clinical mate-

In 1919 I saw Professor X at work in his the laboratory lacked in many of the humblest physiological laboratory at the University of details of equipment, the director's mind was Tomsk, tucked away in the very heart of devalready reasserting its international instincts, astated and riotous Siberia. Though stripped and one could see at a glance what epidemics of most of his apparatus by Bolshevik ruthlesswere, at the moment, afflicting Singapore, Mos- ness he showed us much excellent work in progcow or Havana. A visit to this same labora- ress made possible by cunning improvisation. tory a year later disclosed amazing progress in Among other experiments I recall a dog with the development of the laboratory facilities. gastric fistula from which the Professor was The director was at that time manufacturing demonstrating and pursuing his researches. It standard typhoid vaccine on a large scale at is not necessary to multiply scattered incidents a price so many times cheaper than it could of this nature to demonstrate that one must be made at the Paris Pasteur Institute that he look beyond the great world famous clinics to had captured the international market in East-|realize the extent to which medical knowledge ern Europe and was shipping vaccine to all is universal knowledge, and to appreciate the the countries from the Baltic to the Black Sea. ripeness of the field for spreading still further

And now turning to our own record, how far uated instruction modelled along American is only necessary to allude to the historic lines and turning out a product hitherto un-achievements in our fight against malaria or to training schools. Only by thorough knowledge Perhaps through the glory thus honorably won of the value of the American standard by an Mr. Rockefeller was largely inspired to make open-minded study of our results could this possible further victories. In 1909 he organphysician have developed the faith to struggle ized and financed a Sanitary Commission to against the reactionary Continental attitude study hookworm disease in our Southern Wickliffe Rose, gathering statistics the presence of so many able American trained during the preliminary investigation, demonnurses in Eastern Europe has vastly aided in strated that the malady, far from being localallaying prejudice, and at the moment three ized, was a world problem belting the earth additional nurses' training schools have been for a strip 30 degrees on either side of the equator and including a region inhabited by upward of a billion people. No sooner had means been devised for the correction of our own small fraction of the problem than ministries of health in many lands sought help and counsel from the "International Health Commission," which grew out of the original Sani-And witness into what tary Commission. In Bucharest, Dr. Minovici, former president | varied fields of international medicine the of the International Medico-Legal Society and Rockefeller Foundation has since penetrated:

the pneumonic plage in China, tuberculosis in France, and lately the establishment of a modern medical school in Peking for the spread through trained native physicians of scientific medical knowledge. Two elements have been essential to the development of this great benefaction: money and men. The former was the more readily secured. The men with breadth of outlook sufficient to visualize the significance to world welfare of this enterprise were hard to find. The commission consists of physicians and business men with international interests and minds trained to look upon the world as a unit and not an aggregation of unrelated parts. But beyond the commissioners still lies the difficulty of getting men of proper training to carry on the details of the work in foreign countries. So a school has been established to care for this need, where physicians receive the necessary executive education and mental broadening to assume the complicated duties involved in prosecuting campaigns in other lands.

The Great War furnished an extraordinary opportunity for the development of the international viewpoint among the rather provincial population of these United States. Medically this development manifested itself in the remarkable expansion of the American Red Cross. It took the mind of an international financier correctly to grasp the significance of the opportunity. When Henry P. Davison took hold of the situation and announced that he needed one hundred million dollars to carry on, the executive council very nearly suffered from syncope. His was the only mind that foresaw the expenditure not of one but of three or four hundred millions were we to perform our international medical obligations in satisfactory fashion.

Save by those intimately concerned with the administration of the American Red Cross during and after the war its actual rôle as an international medical clearing house is scantily appreciated. The practical value of its supplies to the sorely pressed allies before our own entrance into the struggle is known only to those of us who were there to see what added suffering overtakes an army when its surgical a single broad-minded American to popularize dressings run low. Unless there are men in this room who were with the American Red health through the League of Red Cross Socie-Cross in Italy during the Austrian invasion of ties. 1917, none can realize the tremendous service Cross seized the opportunity to enter with enthusiasm into research work covering the problems of war medicine, for the alleviation, so by the sinister conditions of modern warfare.

It is characteristic of the greatness of Mr. Davison's mind that he could grasp and read so clearly the true significance of this vast international organization for the promotion of health. To be sure, it was a wartime measure, but did it not have an equally important rôle to play in times of peace? Had not the nations learned that it was time to combine in the eternal conflict against the forces of accident and disease? And so was born the League of Red Cross Societies, a permanent international clearing house for the promotion of the health of the world. The many difficulties that have surrounded this organization in its early development cannot dim the high idealism of its conception nor lessen the great service it has already rendered, though they will slow down its full fruition for a time. The International Committee of Red Cross Societies at Geneva has shown lack of understanding sympathy and cooperation. The League of Nations has established a Department of Health of its own to take on a rôle which was to have been assumed by the League of Red Cross Societies. And so jealousies and the pettinesses of humanity are delaying the development of one of the really great ideas which the war has produced.

The world has progressed but a little way along the road of unselfish combination for the common good. Dr. Januzewski, former Commissioner of Public Health in Poland, in a vigorous article in the International Journal of Public Health, deplores the lack of earnest consideration of the problems of health in the Treaty of Versailles. If the war was fought to make men's lot happier why did not the nations appreciate more clearly that international agreements must include specific action calling for world standards of public health? Advanced thinking this, yet when one reflects on the complicated social problems taken up and settled in the Versailles Treaty it is somewhat extraordinary that the paramount prob-lem of the nations' health should be dismissed in one short paragraph, urging the members of the League to make international arrangements to the end of preventing or combating disease. This serves to make it still more significant that it was left to the inspiration of the great principle of international public

It is a great temptation to enter more deeply rendered both morally and materially by our into the details of the slow awakening of interorganization and its important share in avert-national consciousness in the field of medicine, ing complete disaster along the Piave. And in to chant the praises of the medical missionary addition to its practical efficiency the Red in his lonely and consecrated effort to spread the gospel of health throughout the world, to sing again the immortal epic of the Canal Zone, or tell the story of that picturesque chain of far as might be, of the human agony caused child welfare clinics organized, by American doctors and nurses, and extending along the

Eastern front from the Baltic to the Aegean Sea in that vast stretch of devastated territory where childhood is having such a desperate toward matters of public health. struggle for existence.

Greater interest attaches to a survey of practical work which is being accomplished on international lines, but this fact does not belittle the importance of many other elements, such as the international congresses of physicians and surgeons, which serve so effectively as distributing centers of modern medical knowledge. Of such gatherings, perhaps, none has greater significance than the rather prosaic meeting at Paris, in 1920, of a congress to consider medical nomenclature. This was the third meeting of its kind, the first being held in 1900, under the imposing title of "The First International Commission for the Decennial Review of Nosologic Nomenclature." As long ago as 1839 Dr. William Farr, English Registrar General for the Department of Vital Statistics, wrote: "The nomenclature is of as much importance in this department of inquiry as weights and measures in the physical sciences, and should be settled without delay." Dr. Farr's own classification held almost unchanged until Bertillon greatly improved upon it in 1886. But not till 1900 was the importance of an international nomenclature fully recognized and action taken by the representatives of most of the civilized countries of the world.

I cannot refrain from expressing deep satisfaction at the plan of the American College of Surgeons for a visit to our South American neighbors next winter. Too little is known by us of the splendid work being done in other parts of our own hemisphere by men of the widest experience and keenest medical vision.

In this intentionally brief and superficial survey of the growth of international relations in the field of medicine, it cannot fail to be a source of gratification to observe the preëminence of America's leadership. Without vainglory it is fair to recognize in this fact another evidence that in the soul of America there is a profound yearning to make the world a better place in which to live and to enhance the happiness of its inhabitants. After a close study of the medical situation in foreign lands, however, I am unwilling to admit that we possess an idealism that is unusual or that differs to any marked degree from that of the medical faculty of other countries. The difference lies far more in our capacity for translating that idealism into action. Here, again, our resources are so vastly greater that we must not assume too much credit for the fact. We can afford to try experiments on an expensive scale impossible to the impoverished health departments abroad. The extraordinary cooperation found numerical variation; everywhere on the part of government and doctors alike in all countries where that coopera- ing cervical ribs;

tion has been sought indicates the breadth of vision that seems to be the natural state of mind

In conclusion let us put the question plainly, "Are we as individuals in touch with this vast international movement in medicine?" Last winter I was called hastily to give an address in a thriving town, not far from Boston, in an effort to persuade the taxpayers to continue the salary of a Public Health Nurse. Even the local doctors, it was reported, were lukewarm toward the proposition. Is it not a bit deplorable that in our Old Bay State reactionary tendencies must still be fought when Poland, Czecho-Slovakia, and the New Kingdom of the Yugo-Slavs, are clamoring for more, and still more, Public Health Nurses? Shall we. who have taught these countries to appreciate her value, now repudiate this new Angel of Mercy in our own communities? When we accept the dignified title of Doctor of Medicine we formally accept the noblesse oblige which it implies. Our full obligation is discharged only when in matters of the public health we cultivate the broadest vision and take our place as leaders in the effort to teach humanity that man's physical well-being is not an individual matter, but a problem of the Community, the State, the Nation, and the World.

### Original Article.

CONGENITAL ANATOMICAL DEFECTS OF THE SPINE AND RIBS.

BY JAMES WARREN SEVER, M.D., BOSTON,

[From the Orthopedic Department of the Children's Hospital.]

To those of us who possess a backbone, the following study, or report, may prove of interest, as giving evidence of the fact that such an anatomical asset is subject to great changes, distortions and serious defects in development.

The past few years I have been greatly interested in selecting from several thousand x-ray plates at the Children's Hospital those for study which showed any portion of the spine or sacrum. As a result of this study, I have found a large number of cases which showed anatomical defects of congenital origin of the ribs and vertebrae of a greater or less degree. It is with the idea of putting on record such a large number of most interesting cases that this report is presented.

For purposes of convenience and clearness, the report will be divided as much as possible into the following sections:

I.—Theories of ossification; development and

II.—Defects of the cervical vertebrae includ-