

tifying the grounds. We hope to be able to continue this from year to year until the whole grounds are thus treated. The removal of the barn buildings from their present site we are confidently looking forward to as the greatest single improvement that could be made at the institution. We are hoping that the necessary appropriations can be made soon. The cottage for the engineer authorized by the last legislature is being built.

NEEDS OF INSTITUTION

Appropriations are requested for: Clearing lands, grounds and fencing, \$4,000.00; children's cottage, \$40,000.00; nurses' home, \$60,000.00; superintendent's cottage, \$12,000.00; farm buildings, \$10,000.00; electric cables, \$1,500.00; X-ray equipment, \$1,000.00; repairs, \$10,000.00.

Respectfully submitted

P. M. HALL, M. D.,

Superintendent.

HOSPITAL FOR CRIPPLED CHILDREN, ST. PAUL

Carl C. Chatterton, M. D.....	Surgeon-in-Chief
Wallace H. Cole, M. D.....	Assistant Suregon-in-Chief
Elizabeth McGregor.....	Superintendent
Grace Jones, D. D. S.....	Dentist
V. E. Heinecke.....	Steward

Institution opened in 1911

Capacity of institution.....	270
Area of grounds, acres.....	23
Acreage under cultivation.....	6
Value of lands and buildings.....	\$376,136.03
Value of personal property.....	\$47,489.71

Expenditures for year ended June 30, 1924:

Current expense.....	\$140,330.19
Repairs and replacements.....	\$2,691.57
Permanant improvements.....	\$58,202.28
Miscellaneous	\$11,789.00
Gross per capita cost, current expense.....	\$701.65
Net per capita cost, current expense.....	\$703.90
Number of officers and employes.....	107

REPORT OF THE SURGEON-IN-CHIEF

To the State Board of Control:

The past two years in the United States have been gigantic years in the new interest of properly caring for crippled children, not only through the state, but also through societies, fraternal bodies, civic clubs and private endowments. This interest must be dear to the residents of Minnesota, who can with just pride point out that their state was the first in the Union to provide money for the establishment of an institution for the care of indigent crippled children. Largely through the untiring efforts of the late Dr. Arthur J. Gillette was the initial fund secured, and little did he realize the outcome of such a small beginning. The present institution, greater by far than any expectation of the founder, is a memorial to his efforts to obtain for crippled children the best possible care to overcome their physical handicaps.

The new interest in the care of crippled children has only stimulated public knowledge in the accomplishments of such institutions, and now we have, because of this, more patients in the institution, a larger out-patient department, and more outside interests than ever before. So far no special effort has been used to secure patients for the institution, and at the present time there are many indigent cripples in Minnesota who have no knowledge of where or how to secure treatment for their various deformities. If all the indigent crippled children would make application to the state for care, and such requests were granted, we feel that at least four more institutions of our present capacity would be necessary to provide good care.

MEDICAL SERVICE

So far in the history of the State Hospital for Crippled Children, no staff physician has received compensation for work in or out of the institution. In spite of this, it is possible to obtain physicians trained in special lines of medicine and surgery to give freely of their time in the care of children suffering from numerous conditions treated by the various specialties. Co-operation and loyalty of the staff to the institution have been one of the keynotes of the success of the work done in this institution. All of the various specialties of medicine are represented. Many of the staff members serve only two months of the year, while others are on call during the entire year.

I wish especially to thank Dr. Wallace Cole, Dr. Albert Flagstad and Dr. William VonderWeyer for the many hours freely given to the institution, their co-operation and many valuable suggestions.

We deeply regret the loss of Dr. Warren A. Dennis and Dr. Haldor Sneve, who, until their death, were loyal and extremely competent members of the staff, having held positions since the beginning of the institution.

The resident staff is composed of four graduate and undergraduate men of the University of Minnesota. The resident staff secure training and in turn do a very great amount of routine work. The efforts of the men during the past two years have been most praiseworthy, not only for their endeavor and co-operation, but for the demonstration of ability that they have obtained through years of study before coming to the institution.

DENTAL SERVICE

The paying of a resident dentist has been most satisfactory and a large amount of work has been done to the satisfaction of the medical staff. We endorse this work as one of the most valuable services that can be rendered the child while in the institution.

HOUSE STAFF

The vast amount of work carried on by the superintendent can only be appreciated by those in close connection or acquainted with the routine necessary in similar institutions. Only through the ability, diplomacy and co-operation of Elizabeth McGregor, superintendent, has the institution prospered to its present position, and through her planning, interest and knowledge of hospital matters are the present departments kept at full efficiency. The institution is indeed fortunate in having at its head one so competent, having the entire interest of the institution at heart.

Only through the medium of good nursing can such results show as follow in this report. Nurses feel the joy of service when working among children, and many extra hours are given freely for the comfort and pleasure of those in the institution. The careful observation and the close co-operation of the corps of nurses make work a pleasure to the medical and surgical staff, and results in a greater number of instances depend upon the nursing staff alone.

PHYSIOTHERAPY AND OCCUPATIONAL THERAPY

This branch of treatment is extremely necessary for the success of results in this type of hospital. The new building will be of great benefit to the Department of Occupational Therapy and every encouragement, with ample appropriation, should be given them. Many valuable suggestions in treatment of individual cases have come from this department, and the entire staff appreciates the effort, co-operation and valuable suggestions.

SOCIAL SERVICE AND OUT-PATIENT CARE

The institution has received aid through local Red Cross societies and county nurses in many instances. One worker has been employed during the past two years with excellent results. This department should be greatly improved. Especially should more investigation be made concerning the financial standing of many of the prospects who expect to come to the institution, and

we feel that it should be definitely decided that without question the patient is indigent before admission is secured. Enough field workers should be maintained so that at least two visits a year could be the rule upon discharge of patients. I earnestly request that this department receive such appropriation so that it will be possible to properly watch over our discharged patients and also aid us in the study of home surroundings, and financial ability of the prospective patients.

TRAINING SCHOOL FOR NURSES

The school, now three years old, has been very successful in bringing capable women as nurses to the hospital, and, in turn, in giving them training in orthopedic surgery and pediatrics. In many instances they are unable to obtain such training in their own hospital. Many of the small hospitals in Minnesota and nearby states are sending a sufficient number of nurses to assure competent nursing in the institution, and insure success in the training school.

NEEDS OF THE INSTITUTION

We especially wish to call the attention of the Board of Control to the fact that the Minnesota State Hospital for Indigent Crippled and Deformed Children has been inspected each year by the American College of Surgeons, and since that time we are very proud that the institution has been classified by the American College of Surgeons as a Class A hospital.

The new equipment and added room will be of great value to the attending staff. It will now be possible for several physicians to work each morning, while with the old equipment and only one operating room, this was impossible.

CONCLUSION

As Chief-of-Staff, it has been a pleasure to hear of the cooperation enjoyed by all the various members of the medical and nursing staff. I can but thank the members of each for the support that has made the operation of the institution possible.

The extreme interest and guiding judgment of the Board of Control has been most helpful.

Respectfully submitted

C. C. CHATTERTON,
Chief-of-Staff.

REPORT OF THE SUPERINTENDENT

To the State Board of Control:

I respectfully submit herewith the biennial report for Minnesota State Hospital for Indigent Crippled and Deformed Children for period ended June 30, 1924.

POPULATION

The average attendance during this period has increased. The waiting list averages about 200. The opening of the new unit to the east of our present building will increase our present capacity and the release of our present school room, when the Dowling Memorial Hall is finished, will also give us space for more beds.

EDUCATIONAL WORK

The work in the school department is functioning in a very satisfactory way. It has been necessary to abandon for the present the kindergarten and regular kindergarten work on account of the large number of children from the primary through high school subjects. We have five regular teachers and a number of volunteers. The school work has been inspected by the Department of Public Instruction, who also co-operated in every way in the re-educational work. The library has grown steadily and is used by all children in the hospital. Catholic, Protestant and Jewish children have received instruction regularly, and classes are prepared for confirmation each year.

BUILDING AND IMPROVEMENTS

The addition to the power house and laundry has been completed during this period and new high pressure boilers adequate to care for our present plant have been installed and are now in good working order. A dry room tumbler and two presses have been added to our laundry equipment. The service building has been completed. The plaster walls on the first floor have been painted and the necessary varnishing done to the woodwork. Repairs necessary have been made to the tile roof, drain spouts, screens and storm windows. The new unit to the east will provide rooms for post-operative and pre-operative cases, dangerously sick and dying children, added space for physiotherapy, porch for heliotherapy, a dentist's room, operating rooms and X-ray room on first floor and additional facilities for carrying on the

surgical work with the increased number of patients. Second floor to the rear will provide rooms for supervisors and the ground floor will provide lecture room for students, morgue, autopsy, a laboratory, drug room, storage space for storm windows and screens, a janitor's room and trunk room. The tunnel connected with various parts of the building provides necessary space for pipes as well as space for service trucks. The Dowling Memorial Hall, provided by contributions from the State Bankers Association and State Editors Association, with the added appropriation of the state, will provide a model school building, where not only the academic subjects of grades and high schools will be offered, but also a science and special vocational training to meet the need of children who are old enough for training, physically able, and of normal mentality.

The bank at the east end of our grounds has been graded and planted. The low space in the back has been about half filled. Playgrounds have been improved and additional equipment furnished. A tennis court for the employes has been built. Additional planting has been done and roads repaired.

CONTRIBUTIONS

During the past two years the interest of the public in the institution has been shown in so many ways that it is with pleasure that I make the following announcements:

The St. Paul Daily News Christmas funds have amounted to over \$1,800.00. The employes of the legislature during the last session made the gift of \$170.50 to be used for recreational equipment. Different individuals have contributed in small amounts up to \$30.00. The employes of the State Capitol have given a Christmas party every year, with a present to each individual child and \$120.00 in cash during the past year. Women's clubs throughout the state have sent in boxes of playthings, clothing, and in some cases money to be used for the amusement and entertainment of the children. The Symphony committee gave tickets to the Children's Symphony and furnished cars for transportation. School children sent boxes of wild flowers. Clubs, Sunday Schools and individuals have sent fruit, candy, clothing, playthings, flowers, plants, shrubbery for the grounds and ice cream. A wonderful radio set was given at Christmas time by the St. Paul Electric Company and installed and kept in repair

by the Tri-State Telephone Company. We have three loud speakers, one in each bed patient ward, and we are able to get stations from New York to Texas. We also have crystal sets. Musical organizations have furnished programs of entertainment. We average a band concert once a month, which is contributed. Cars are furnished the children who are able to go riding. The State Fair board furnished tickets to the State Fair. Women from various organizations, anxious to help, come out here once or twice a week and spend from four to six hours mending. The value of this interest cannot be overestimated, not only to the patients for whom all this is done, but in the reaction upon those who contribute.

NEEDS OF INSTITUTION

Appropriations are requested for: Improving grounds, \$2,000.00; completion east wing, \$10,000.00; school building, additional, \$35,000.00; nurses' home, \$60,000.00; employes' home, \$36,000.00; cottages for convalescent patients \$60,000.00; power plant improvements, \$12,500.00; water and sewerage systems, \$2,000.00; furniture and furnishings, \$6,000.00; laundry equipment, \$6,000.00; laboratory and operating equipment, \$4,000.00; library, \$500.00; repairs, \$10,000.00; instruction and amusement, \$4,000.00; special appliances for patients, \$14,000.00; care of indigent blind babies, \$4,000.00; poliomyelitis aftercare, \$8,000.00.

CONCLUSION

I wish to express my gratitude and appreciation of the co-operation and efficient service rendered by the staff and employes of this hospital; to the members of the surgical and medical staff, and to the State Board of Control, who, through their wise counsel, support and co-operation have been so helpful in putting the work of this hospital in the front rank and keeping it there.

Respectfully submitted,

ELIZABETH MCGREGOR,
Superintendent.

HOSPITAL FOR CRIPPLED CHILDREN

Classification	Year Ended June 30, 1924			Year Ended June 30, 1923		
	Male.	Female.	Total.	Male.	Female.	Total.
POPULATION						
In institution at beginning of year	102	93	195	97	106	203
Admitted	95	64	159	95	74	169
Transferred from out-patient department	53	65	118	87	45	82
Total under care	250	222	472	229	225	454
Discharged .....	.....	.....	.....	.....	.....	.....
Died	6	8	14	5	6	11
Transferred to out-patient department	145	117	262	122	124	246
In institution at end of year....	99	97	196	102	93	195
Average population	101	99	200	101	104	205
Admitted as out-patients.....	37	39	76	38	18	56
AGE GROUP						
Under 1 year.....	11	6	17	12	7	19
1 year	5	3	8	5	2	7
2 years	13	6	19	14	8	22
3 years	9	4	13	8	6	14
4 years	8	9	17	6	6	12
5 to 7 years.....	23	19	42	16	17	33
8 to 10 years.....	7	17	24	28	12	40
11 to 13 years.....	20	13	33	16	16	32
14 to 16 years.....	17	15	32	20	12	32
17 to 20 years.....	16	11	27	7	6	13
21 years and over.....	3	.....	3	1	.....	1
Total admissions	132	103	235	133	92	225
NATIVITY						
United States	128	98	226	133	92	225
Austria	1	1	2	.....	.....	.....
Canada .....	.....	1	1	.....	.....	.....
Germany	2	1	3	.....	.....	.....
Russia	1	1	2	.....	.....	.....
Sweden .....	.....	1	1	.....	.....	.....
Total admissions	132	103	235	133	92	225
PARENTAGE						
Native parentage	80	71	151	87	62	149
Mixed parentage	17	8	25	8	10	18
Foreign parentage	35	24	59	38	20	58
Total admissions	132	103	235	133	92	225
CONDITION ON TRANSFER TO OUT-PATIENT DEPARTMENT						
Cured	9	7	16	22	26	48
Improved	130	107	237	84	89	173
Unimproved	2	.....	2	9	4	13
Untreated	4	3	7	7	7	14
Totals	145	117	262	122	126	248
DURATION OF STAY OF PATIENTS						
Less than 3 months.....	45	28	73	45	43	88
3 to 5 months.....	26	17	53	21	27	48
6 to 12 months	47	38	85	84	84	68
1 year but less than 2.....	13	31	44	15	16	31
2 years but less than 3.....	6	8	14	6	4	10
3 years or more.....	4	3	7	6	8	14
Totals	151	125	276	127	132	257

HOSPITAL FOR CRIPPLED CHILDREN—Concluded

TABLE OPERATIONS FROM JULY 1, 1922, TO JUNE 30, 1924

Arthrodesis	18	Manipulation of hips for reduction.	31
Amputation of leg	4	Mastoid	1
Adenoidectomy	55	Osteotomy	45
Astraglectomy	30	Open operation of hip	2
Appendectomy	1	Plastic operation on feet	3
Blopsy	4	Plastic operation	3
Cleft palate	11	Paracentesis	4
Circumcision	1	Removal of cataract	3
Draining abscess	15	Removal of sequestrum	17
Dissecting scar tissue	3	Soutter operation	10
Exploratory incision	4	Skin graft	5
Herniotomy	3	Stripping of Os Calcis	10
Hibbs fusion of spine	1	Reducing fracture	2
Jones operation for slipping patella	1	Tenotomy	34
Lengthening internal rectus	2	Tonsillectomy and adenoidectomy	134
Manipulation for correction of deformity	71	Torticollis correction	1

BRACES AND APPLIANCES FROM JULY 1, 1922, TO JUNE 30, 1924

Back braces	32	Elastic stockings	4
Leather jackets	152	Leather spica	2
Leather boots	46	Shoe work repairs and changes	475
Leg braces	367	Braces repaired	1,170
Wolf collar	1	Jackets repaired	54

LABORATORY AND X-RAY WORK FROM JULY 1, 1922, TO JUNE 30, 1924

Urinalysis	5,798	Differential	1,686
Nose and throat cultures for Diphtheria	1,888	Stool examinations	46
Tests for virulent Diphtheria	12	Widal	5
Guinea pig inoculation	8	X-rays taken	2,364
Sputum examination	42	X-ray treatments given	132
Fus Serous (specimens for diagnosis)	14	Photographs taken	501
Tissue and bone for diagnosis	12	Glasses furnished	53
Nerve specimen for diagnosis	2	Dressings	27,596
Smears for diagnosis	12	Fertussis vaccine	371
Blood chemistry	230	Smallpox vaccine	1,108
Blood examinations:		Schlick test	908
Red		Toxin antitoxin	62
White		Manteau	236
Hemoglobin		Antitoxin for diphtheria	56
		Von Pirquet	510
		Typhoid vaccine	10

DENTAL WORK FROM JULY 1, 1922, TO JUNE 30, 1924

Number of patients treated	717	Number of extractions permanent teeth	64
Number of prophylaxes	1,094	Number of orthodontia cases	2
Number of pyorrhea treatments	27	Number of fillings	1,980
Number of extractions desiduous teeth	227		

MISCELLANEOUS FROM JULY 1, 1922, TO JUNE 30, 1924

Plaster dressings applied	1,207	Heliotherapy treatments	6,567
Plaster models made	431	Physiotherapy treatments	11,568

Control Board Biennial Report

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