

CHANGES IN PERSONNEL

It is gratifying, indeed, to be able to report but one change in the personnel of the staff; that is, the substitution of Miss Huebner as bacteriologist for Esther Tyrrell. Dr. Litman, who appeared as junior physician in the previous report, was simply engaged when either the superintendent or the assistant was away.

BUILDINGS AND IMPROVEMENTS

The greenhouse which had been so long upon the grounds has finally been erected and enough saving made in doing so to erect a cottage for our head carpenter. Both of these are completed and occupied. We have also been enabled to build a six-stall garage which was very much needed. Additional equipment in the way of another unit in the engine room was another improvement which was needed, as we had nothing to fall back on in case of accident or breakdown. During the year we have laid new floors in all of the old wards, have polished many of the old floors and redressed them, and are at the present time about to install a new curtain and stage settings in the recreation hall. We have erected, through the generosity of the patients and employes, a receiving radio set which is in operation.

NEEDS OF THE INSTITUTION

Appropriations are needed for clearing land, grounds and fencing, \$9,000.00; nurses' home, \$55,000.00; children's cottage, \$50,000.00; occupational therapy building, \$20,000.00; cottage for superintendent, \$12,000.00; addition to engineer's cottage, \$800.00; new power plant, \$172,800.00; house and barn for new farm, \$3,000.00; machine shed and blacksmith shop, \$3,000.00; garage, \$1,500.00; improvements to recreation hall, \$5,000.00; enlarging laundry, \$4,200.00; additional water supply, \$10,000.00; electrical distribution cables, \$700.00; laundry equipment, \$12,000.00; machine shop equipment, \$1,500.00; and repairs and betterments, \$10,000.00.

Respectfully submitted,

P. M. HALL,
Superintendent.

HOSPITAL FOR CRIPPLED CHILDREN, ST. PAUL

Carl C. Chatterton, M. D.....	Surgeon-in-Chief
Wallace H. Cole, M. D.....	Assistant Surgeon-in-Chief
Elizabeth McGregor.....	Superintendent
Marie D. Hoppe.....	Assistant Superintendent
V. E. Heinecke.....	Steward

Institution opened in 1911

Capacity of institution.....	200
Area of grounds, acres.....	23
Acreage under cultivation.....	9
Value of lands and buildings.....	\$317,885.26
Value of personal property.....	\$27,738.21

Expenditures for year ended June 30, 1922:

Current expense.....	\$113,926.13
Repairs and replacements.....	\$2,805.44
Permanent improvements.....	\$77,845.84
Miscellaneous	\$8,375.46
Gross per capita cost, current expense.....	\$593.36
Net per capita cost, current expense.....	\$588.95
Number of officers and employes.....	102

REPORT OF THE SURGEON-IN-CHIEF

To the State Board of Control:

Minnesota, in the year 1897, was the first state in the Union to provide money for the establishment of an institution for the care of indigent crippled and deformed children. The initial appropriation was secured largely by the untiring efforts of Arthur J. Gillette, and little did he realize, with the small beginning, what the results even in a few years would be. Through his diplomacy, ability to secure best possible results, and with strong co-operation of the staff, the state, and many interested individuals, the institution now stands as a memorial to his effort to obtain for crippled children the best possible care to overcome their physical handicap.

MEDICAL SERVICE

The present medical and surgical staff is made up of 35 physicians and surgeons who represent the various specialties and give freely of their time to the institution.

The resident medical and surgical staff is composed of students from the University of Minnesota graduate and undergraduate schools. These students secure valuable training while at the institution and in turn do a great amount of routine work there. Many of the house staff have been most satisfactory and their work excellent, but usually their stay is so short that they have little chance to demonstrate the skill acquired. With the increased growth of the institution we would suggest that the Board of Control be given the authority to grant suitable remuneration for the establishment of a fellowship to secure a resident graduate who should reside in the institution for at least one year.

Only those who are in close connection with the institution can realize the great amount of good work done by the superintendent and nurses. The greater number of cases entering the hospital need the best of hygiene and capable nursing. During the past year more nurses have been employed than ever before, and we can but believe that the amount and character of the work shows greater proficiency than ever before.

DENTAL SERVICE

A paid resident dentist has been a new procedure in the institution with extreme satisfaction. This service should be continued and adequate funds provided to cover the expense. The service should not be limited to institution patients but extend to the out patient department as well.

PHYSIOTHERAPY AND OCCUPATIONAL THERAPY

The institution is indeed fortunate in securing most capable workers as heads of this department. The department has the past year been of the most satisfactory nature, and what has been accomplished can but be the beginning of a work that serves in the institution and extends to the home as well. Every encouragement should be given the faithful workers, and ample appropriation should be made to secure the enlargement of this valuable type of treatment.

SOCIAL SERVICE AND OUT-PATIENT CARE

The State Board of Health during the past year has transferred the department of follow-up work of anterior poliomye-

litis cases to the Hospital for Crippled Children. The head of this department has rendered excellent service, making many calls throughout the state, meeting many county nurses and visiting cases with home physicians. This department is extremely important, and should be enlarged to make it possible to visit all cases several times each year. Specially trained nurses should inspect home conditions and co-operate with home physicians, county nurses and Red Cross societies throughout the state, to be sure that cases are receiving adequate treatment and advice.

TRAINING SCHOOL FOR NURSES

During the past year the institution has offered a training in orthopedic surgery and pediatrics for both graduate and undergraduate nurses. The object of the course is to care for the graduates of the small surgical hospitals that do not offer training in these branches, and who wish to perfect themselves in special lines. The graduates thus far have only praise for the course offered. The advantage of a teaching department to the patients is all-apparent, and we at the hospital are making every effort to make the school of such quality that our graduates will have good average knowledge of orthopedic and pediatric care as carried on in institutions of similar nature. The school is as yet only in its infancy and should receive strong support from the Board of Control as well as other interested agencies throughout the state.

NEEDS OF THE INSTITUTION

At the present time patients are discharged from the hospital as soon as surgical cure or improvement is complete. A separate school near the present hospital in which special education and training in trades could be taught physically handicapped children, would be of untold value. The child should remain a resident of this institution until such time as he has mastered certain lines of work and is self-supporting.

The proposed Michael Dowling Memorial to be given by bankers and editors of Minnesota has as its special object the education and training of crippled children. The gift could well be used by the state institution in accomplishing in detail all that the late Michael Dowling could have wished. Its influence would be state-wide, and its location upon our present

grounds would be of great value to the present hospital, and the hospital, in turn, of untold value to the school. We hope that the State Board of Control will secure the memorial and guarantee its support and permanence.

CONCLUSION

We wish to thank the members of the medical, surgical and dental staffs for their good will to the institution, their extreme loyalty to the unfortunates in it, and for the large amount of special and routine work done. Without the present loyalty and co-operation of the staff we can but feel the institution could not enjoy its present success. We desire especially to thank Dr. Wallace Cole for many valuable suggestions and for the large amount of time spent in the institution.

We must praise the untiring efforts of the superintendent to secure the best for the many crippled children under her charge.

Thanks must be given to the various departments of the institution for their loyalty to the staff and the undivided attention given each case, making it possible to secure the results that have been obtained. Co-operation and enjoyment of service among the several departments has been the rule at the institution, and this has been an important factor in carrying on the great amount of routine work faithfully and well.

I wish to thank the members of the State Board of Control for their guiding influence and co-operation.

Respectfully submitted,

CARL C. CHATTERTON,
Surgeon-in-Chief.

REPORT OF THE SUPERINTENDENT

To the State Board of Control:

I submit herewith the biennial report of the Hospital for Indigent Crippled and Deformed Children for the period ended June 30, 1922.

POPULATION

The large increase in population during the biennial, with a waiting list of 200, indicates that we are much in need of more

room. This can be provided for by the addition of the proposed fourth unit, the Dowling Memorial for school purposes, and cottages for the convalescent up-patients.

SCHOOL DEPARTMENT

We have added a number of small rooms to the school department, and have increased our teaching staff by one. We have also had an increase in the number of volunteer workers. Our school work is now under inspection by the Department of Education. We give the State Board examinations, beginning with the seventh grade, and a broad and comprehensive curriculum is in force. The importance of the library and its place in the hospital can not be overestimated. Attention is given to the religious instruction of Catholic, Protestant and Jewish children, and clergymen and teachers from the various denominations have been most generous in meeting our needs.

INDUSTRIAL DEPARTMENT

The work of the institution is primarily constructive, physically, morally and intellectually. Prevention is the keynote of all progressive agencies. However, at the present time, and probably for some time to come, existing conditions will need to be met and physical infirmities dealt with. It is our object to surround the patient with an environment approaching as near as possible that of a normal child, and to instill into each one that feeling of self-respect that will enable him to refrain from becoming a public charge after his deformity has been corrected. This is largely accomplished through the industrial department, where each child has the opportunity to develop his special talent.

THE LATE DR. GILLETTE

During the biennial period the children had the opportunity to show their love and gratitude toward Dr. Gillette by making articles for a Christmas sale and using the money thus obtained toward paying for his portrait. In his death the crippled and deformed lost more than a personal friend, but due to his constructive foresight, the work of the State Hospital will be carried on through the organization perfected by him, and it is fortunate for the state of Minnesota that the present monument to Doctor

Gillette will be enlarged by the devotion and untiring efforts of the present staff who give of their time, knowledge and skill with no thought of reward or remuneration.

BUILDINGS AND IMPROVEMENTS

The second floor of the third unit has been completed and equipped with rooms for student nurses and the ground floor of this unit has been made into a very complete dispensary and office for the social service department.

The old dispensary has been converted into rooms for the industrial department.

The schoolroom at the end of Ward 2 has been converted into an additional ward, the stairway has been removed, and toilet, bath and linen closet put in this space, with a work and supply room for the library on the second floor.

An additional classroom has been provided for schoolroom off Ward 8 by the removal of the stairway to the superintendent's apartment.

New windows have been placed in the solaria.

Screens have been renewed and repaired.

Floors in Wards 7 and 8 have been repaired.

Extensive exterior and interior painting has been done.

The new service building under construction will provide a model system of kitchen, diet kitchen, dining rooms, bakery, root cellar, steward's office, storage rooms and rooms for women employees. This building will be ready within a few weeks.

The staff doctors' and superintendent's office has been fitted out, decorated suitably, and Doctor Gillette's portrait hung. All medical records are filed in this room and are easily accessible for reference.

Formal gardens have been laid out and planted, shrubbery and trees planted, and grading done. Playgrounds have been prepared and fitted out with equipment bought with the Christmas fund. Drainage has been provided, sidewalks and porches added. We are at work leveling the boulevard. The garden this year is very promising. The greenhouse has been profitably used this year.

NEEDS OF THE INSTITUTION

Appropriations are recommended for improving grounds, \$4,000.00; addition to main building, \$95,000.00; barn, \$3,000.00; addition to power house and laundry, \$32,000.00; extension of tunnels, \$5,000.00; engine and generator, \$7,000.00; hot water heater, \$550.00; rain water disposal system, \$500.00; laboratory and operating equipment, \$4,000.00; library, \$500.00; laundry equipment, \$1,850.00; repairs and betterments, \$15,000.00; instruction and amusement, \$5,000.00; special appliances for patients, \$10,000.00; care of blind babies, \$4,000.00; and poliomyelitis after-care, \$10,000.00.

CONCLUSION

It is with pleasure that I acknowledge the faithful service of my co-workers in the hospital. We are indebted to the State Board of Control for their continued interest and support.

Respectfully submitted,

ELIZABETH MCGREGOR,
Superintendent.

HOSPITAL FOR CRIPPLED CHILDREN

Classification	Year Ended June 30, 1922			Year Ended June 30, 1921		
	Male	Female	Total	Male	Female	Total
POPULATION						
In institution at beginning of year..	94	94	188	59	66	125
Admitted	75	86	161	97	70	167
Transferred from out-patient department	38	39	77	46	43	89
Total under care.....	207	219	426	202	179	381
Died	2	3	5	5	1	6
Transferred to out-patient department	108	110	218	103	84	187
In institution at end of year.....	97	106	203	94	94	188
Average population	96	96	192	77	81	158
Admitted as out-patients.....	39	27	67	28	26	54
AGE GROUP						
Under 1 year.....	3	7	10	3	1	4
1 year	6	2	8	7	4	11
2 years	10	8	18	5	6	11
3 years	12	15	27	9	5	14
4 years	12	13	25	1	1	2
5 to 7 years.....	7	18	25	24	17	41
8 to 10 years.....	20	17	37	28	16	44
11 to 13 years.....	16	23	39	28	23	51
14 to 16 years.....	12	10	22	14	16	30
17 to 20 years.....	7	.....	7	5	7	12
21 years and over.....	.....	.....	.....	1	.....	1
Total admissions	105	113	218	125	96	221
NATIVITY						
United States	102	110	212	124	94	218
Bohemia .....	.....	.....	.....	.....	1	1
Canada	1	.....	1	1	.....	1
Poland	1	1	2	.....	1	1
Russia	1	2	3	.....	.....	.....
Total foreign born.....	3	3	6	1	2	3
Total admissions	105	113	218	125	96	221
PARENTAGE						
Native parentage	60	47	107	101	71	172
Mixed parentage	5	.....	5	.....	.....	.....
Foreign parentage	40	66	106	24	25	49
Total admissions	105	113	218	125	96	221
CONDITION ON TRANSFER TO OUT-PATIENT DE- PARTMENT						
Cured	29	24	53	20	19	39
Improved	70	77	147	78	62	130
Unimproved	6	7	13	.....	8	8
Untreated	3	2	5	5	5	10
Total	108	110	218	103	84	187

HOSPITAL FOR CRIPPLED CHILDREN—(Continued)

Classification	Year Ended June 30, 1922			Year Ended June 30, 1921		
	Male	Female	Total	Male	Female	Total
DURATION OF STAY OF PATIENTS TRANSFERRED TO OUT-PATIENT DEPARTMENT						
Less than 3 months.....	30	26	56	50	32	82
3 to 5 months.....	50	35	85	32	21	53
6 to 12 months.....	24	30	54	13	19	32
1 year but less than 2.....	2	7	9	4	6	10
2 years but less than 3.....	2	8	10	2	2	4
3 years or more.....		4	4	2	4	6
Total	108	110	218	103	84	187

TABLE OPERATIONS FROM JULY 1, 1920, TO JUNE 30, 1922

Tonsillectomy and adenoidectomy.....	135	Tendo achilles lengthened, adduc-	
Mastoid	3	tors and hamstrings divided for	
Appendectomy	3	deformities due to cerebral spastic	
Harelip	2	paralysis	4
Cleft palate	12	Osteotomy of tibia for deformity	
Forcible correction of congenital		due to tuberculosis.....	1
dislocation of hip.....	20	Currettement of tibia for de-	
Forcible correction of congenital		formity due to old osteomyelitis.....	4
dislocation of hips.....	12	Currettement of humerus for de-	
Forcible correction of flexion of		formity due to osteomyelitis.....	3
knee due to tuberculosis.....	6	Currettement of femur for de-	
Gant operation of deformity of hip	6	formity due to acute septic in-	
Forcible correction of deformity of		fection	3
hip due to tuberculosis.....	10	Currettement of femur for de-	
Forcible correction of congenital		formity due to osteomyelitis.....	11
club foot	11	Osteotomy of tibia for deformity	
Forcible correction of congenital		due to rickets.....	3
club feet	15	Osteoclasis of tibia for deformity	
Forcible correction of congenital		due to rickets	12
deformity of foot and knee.....	1	Cystoscopic examination	2
Circumcision	2	Amputation for congenital de-	
Removal of cyst.....	1	formity of foot	1
Tenotomy of rectus muscle (eye).....	3	Manipulation of dislocation of hip	
Herniotomy	1	due to anterior poliomyelitis.....	2
Subtrochanteric osteotomy of		Operation of hips and feet, ma-	
femur	6	nipulation of knees for deformity	
Manipulation of neck deformity		due to anterior poliomyelitis.....	5
due to arthritis	1	Operation of feet for deformity	
Manipulation of hip deformity due		due to anterior poliomyelitis.....	13
to osteomyelitis	1	Pseudo arthroplasty for deformity	
Manipulation of hip deformity due		of hips due to arthritis.....	1
to Von Perthes disease.....	1	Manipulation of hips, knees and	
Subcondylar osteotomy of right		ankles deformity due to arthritis	3
femur	1	Manipulation of hips deformity	
Osteotomy of tibia deformity due		due to acute septic infection.....	1
to osteomyelitis	1	Osteotomy of femur deformity due	
Correction of congenital torticollis	5	to osteomyelitis	1
Subcutaneous tenotomy of tendo		Removal portion of tumor for	
achilles for deformity of foot due	2	diagnosis	1
to cerebral spastic paralysis.....		Exploratory incision sinus.....	1
Subcutaneous anatomy of tendo		Incision and drainage hip joint.....	1
achilles for deformity of foot due		Currettement of sinuses due to	
to cerebral spastic paralysis.....	10	lues	2
Subcutaneous tenotomy of adduc-		Loosening of contracted scar.....	3
tor and tendo achilles for de-		Skin graft	2
formity due to cerebral spastic		Manipulation of femur and tibia	
paralysis	8	deformity due to osteomalacia.....	5
Tendo achilles and inner ham-		Manipulation of tibia for de-	
strings lengthened deformities		formity due to rickets.....	8
due to cerebral spastic paralysis	2	Laminectomy	1

HOSPITAL FOR CRIPPLED CHILDREN—(Concluded)

TABLE OPERATIONS FROM JULY 1, 1920, TO JUNE 30, 1922—(Concluded)

Reduction of dislocated shoulder..	4	Osteotomy of humerus deformity due to injury.....	1
Laryngoscopic examination	1	Removal tuberculous gland of arm	1
Operation of knee deformity due to pollomyelitis	1	Exploratory incision knee joint...	2
Manipulation of feet for deformity due to anterior pollomyelitis...	4	Currettement of sinus.....	1
Operation of foot for deformity due to anterior pollomyelitis...	69	Receding of scar due to osteomyelitis	1
Amputation congenital hammer toe	1	Resection of temporal maxillary joint	1
Bone graft for ununited fracture..	2	Osteotomy of tibia due to adolescent rickets	1
Reduction of fracture	5	Osteoclasia for deformity of tibia due to osteomalacia.....	2
Manipulation of hip deformity due to arthritis	2	Resection of knee joint for flexion and subluxation deformity.....	1
Manipulation of hips deformity due to epiphyseal separation....	2		

PLASTER PARIS DRESSINGS AND CASINGS FROM JULY 1, 1920, TO JUNE 30, 1922

Plaster foot splints.....	46	Jacket models	66
Hip spicas	283	Leg casts	383
Foot casts	215	Body casts	50
Double hip spicas.....	53	Elbow casts	13
Hand splints	15	Leg casts	102
Leg splints	95	Model for arm and hand brace...	1
Model for leather cuffs.....	84	Plaster bed	1

LABORATORY AND X-RAY WORK FROM JULY 1, 1920, TO JUNE 30, 1922

Urinalysis	5,176	Von pirquets	389
Nose cultures	503	Throat cultures	529
Smallpox vaccinations	272	Wassermanns	420
Manteau tests	142	Schick tests	394
Diphtheria prophylactic	8	X-Rays	335

BRACES AND APPLIANCES FROM JULY 1, 1920, TO JUNE 30, 1922

Shoes built up and repaired.....	295	Arches in shoes.....	18
Insoles	3	Braces recovered	230
Braces repaired	321	New jackets	68
Jackets repaired	63	New back braces.....	13
Back brace with jury mast.....	3	Leather hip, spica and leg brace..	1
Metal tongues	3	Leather anklets	15
Leather knee braces.....	9	Leg braces	197
Ankle braces	40	Knee braces	6
Arm brace	1	Cork soles	20
Jacket with jury mast.....	1	Shoulder support	1
Anterior heels	16		

DENTAL WORK FROM JULY 1, 1920, TO JUNE 30, 1922

Number of patients.....	260	Number of amalgam fillings.....	590
Number of cement fillings.....	309	Number of porcelain fillings.....	53
Number of prophylaxes.....	321	Pyorrhea cases treated.....	5
Number of extractions.....	242		

FINANCIAL STATEMENT FOR THE BIENNIAL PERIOD ENDED JUNE 30, 1922

INSTITUTION	Balance Appropriations and Receipts	Received by Transfer	Disbursements	Disbursed by Transfer	Covered into State Treasury	Balance Carried Forward July 1, 1922		
						Current Expense	Specific Purposes	Trust Funds
Board of Control	\$173,938.24		\$170,412.30			\$3,525.94		
Anoka Asylum	\$513,522.43	\$8,496.46	\$416,177.32	\$31,915.56	\$39.27	\$43,501.86	\$21,550.85	\$8,834.03
Hastings Asylum	612,770.91	30,176.48	607,191.68		1.18	11,811.86	19,489.90	4,452.77
Wilmar Asylum	438,358.30		381,354.20	7,947.16	5.20	39,403.29	7,091.26	2,557.19
Fergus Falls Hospital	975,074.93	38,323.48	884,501.70			27,830.25	80,186.25	21,480.21
Rochester Hospital	836,484.18	60,379.58	823,715.53		26.42	9,213.10	51,131.52	12,777.19
St. Peter Hospital	905,837.49	76,489.28	853,016.87		.02	6,409.46	118,664.92	10,645.14
School for Feeble-Minded	1,284,167.56	25,518.23	1,128,891.77		6.76	1,908.64	3,097.85	2,869.63
School for Blind	171,006.55	6,780.43	169,909.72		.14	330.96	1,382.67	1,193.36
School for Deaf	266,463.41	31,591.96	285,148.38			7,499.30	76,685.50	8,258.29
State Public School	444,328.77	22,975.19	374,860.87			13,829.31	13,826.31	459.00
Training School for Boys	489,814.86	39,569.87	515,082.70		13.72	8,187.14	6,186.19	1,518.28
Home School for Girls	470,164.61	96,684.89	550,947.32		10.57	10,586.40	45,542.12	8,296.73
Reformatory (Men)	804,311.43	48,881.11	788,754.83		12.46	15,862.02	15,862.02	691.17
Reformatory for Women	163,687.73	8,438.32	147,258.98		16.45	37,190.49	255,207.56	64,086.99
Prison	8,502,110.95	6,200.18	8,151,816.97		9.12	47,272.90	27,381.27	425.09
Sanatorium for Consumptives	631,050.15	8,084.23	454,708.27			109,805.11	12,346.39	
Hospital for Crippled Children	339,149.42	33,005.90	344,346.86					
General and Miscellaneous	1,109,313.50		156,050.13	467,580.88	363,530.99			
Sub-totals	\$18,958,217.18	\$539,573.47	\$17,043,733.90	\$507,443.60	\$363,672.30	\$259,444.08	\$1,156,952.39	\$166,544.38
University and Stations	\$1,678,226.46	\$399,288.40	\$1,601,609.96	\$20,311.72		\$764.78	\$454,828.40	
Teachers Colleges	208,205.13	335,656.98	274,490.14	1,198.94	\$24,560.32	11,112.53	232,500.18	
Governmental Departments	234,310.29		187,251.77		138.49		46,920.03	
County Sanatoria	132,515.29	59,593.70	183,404.00				8,704.99	
State Fair	243,899.67	181,835.72	425,735.39					
General and Miscellaneous	291,819.44		2,850.94	288,757.72			210.78	
Sub-totals	\$2,788,976.28	\$976,374.80	\$2,675,342.20	\$310,208.38	\$24,698.81	\$11,877.31	\$743,164.38	
Totals All Institutions	\$21,921,131.70	\$1,515,948.27	\$19,889,488.40	\$817,711.98	\$388,371.11	\$274,847.33	\$1,900,116.77	\$166,544.38

STATE BOARD OF CONTROL