

persisted in the legs in spite of purgatives and diuretics, hot air baths and an exclusively milk diet. Pilocarpine was then administered hypodermically with the happiest results; the albumen decreased and œdema disappeared, and by the end of October he was quite convalescent. One cold rainy day he went out very imprudently and got wet and chilled, and indulged again in liquor. Acute symptoms set in, and then even jaborandi failed to afford any relief; the œdema gained ground, the quantity of urine gradually diminished, the albumen increased, and the tubecasts, which had formerly been granular and hyaline, became studded with fat globules. Uræmic symptoms at last set in; on December 11th, the total amount of urine passed in twenty-four hours was 8 oz. with a sp. gr. of 1040; the ordinary methods of treatment were ineffectual, and his condition became very grave. As a last resort I determined to try the nitro-glycerine treatment. Mr. Henry R. Gray prepared for me a one per cent. alcoholic solution, and on Dec. 12th I administered one minim of this solution in syr. tolut. every four hours; in three days, the dose was increased to two minims, and on December 16th the patient was much better, and passed 35 oz. of urine. On the 19th tinct. fer. mur. M xx. was added to each dose. The case was seen by Dr. R. P. Howard in consultation on the 26th, and the dose of nitro-glycerine solution was increased by one minim; by the 29th the œdema had so far decreased that the mixture was given less frequently. On New Year's day he got up and dressed, and dined with his family; that day he passed 49 oz. of urine. On January 10th the mixture was reduced to three doses daily, and on the 15th he was so much better that it was discontinued altogether, and a mixture of digitalis and iron substituted. The digitalis soon upset his stomach, so that on the 22nd I returned to the old mixture of nitro-glycerine and iron. The œdema, which every now and then came on afresh after some indiscreet exposure to cold, slowly disappeared as the urine increased in quantity, till on February 14th it was entirely away; that day he passed 100 oz. of urine. I then stopped the nitro-glycerine and continued the iron alone; but he grew rapidly weaker, on the 19th vomiting set in, on the 21st diarrhœa, the urine speedily diminished in quantity, and the albumen increased. On the 25th hiccough began; on March 3rd the urine become completely suppressed, and on the 6th

he died exhausted. Unfortunately a post mortem examination could not be obtained.

The first month was hopeless, and treatment only palliative. In carefully reviewing it, my opinion is that nitro-glycerine prolonged life for near two months. It increased markedly the quantity of urine passed daily; but although the *relative* amount of albumen was considerably reduced, the *absolute* amount was not much affected. The œdema and labored breathing were undoubtedly relieved by its use, and the pulse rendered softer and less corded. From the careful and daily study of this case, I am convinced that in certain conditions nitro-glycerine is a valuable remedy in the treatment of chronic Bright's disease, and may be administered with perfect safety and without unpleasant symptoms for a considerable length of time.

The following table shews at a glance the effect of this treatment upon the daily quantity of urine.

TABLE SHOWING THE AMOUNT OF URINE PASSED DAILY DURING THE NITRO-GLYCERINE TREATMENT.

1880		1881	
Dec. 11	Voided 8 oz. sp. gr. 1040	Jan. 1	Voided 49 oz.
" 12	Sol. Glonoin M i 4 q. h.	" 2	" 36 "
" 13	Voided 15 oz.	" 3	" 36 "
" 14	" 12½ oz.	" 4	" 24 "
" 15	" 15 "	" 5	" 24 "
" 16	Sol Glonoin M ii 4 q. h.	" 6	" 27 "
" 17	Voided 35 oz.	" 7	" 47 "
" 18	" 30 "	" 8	" 31 "
" 19	" 29 "	" 9	" 24 "
" 20	" 24 "	" 10	" 25 "
" 21	Sol. Glonoin. M ij		Mist. ter die
" 22	Tr. Fer. Mur. M. xx	" 11	Voided 27 oz.
" 23	4 q. h.	" 12	" 36 "
" 24	Voided 39 oz.	" 13	" 37 "
" 25	" 30 "	" 14	" 36 "
" 26	" 36 "	" 15	" 36 "
" 27	" 28 "		Stop Glon. mist.
" 28	" 23 "		and substitute
" 29	" 23 "		Tr. Digital M x
" 30	" 18 "		Tr. Fer. Mur.
" 31	Consultation with Dr. Howard		M xx
	Sol. Glonoin M iii		Glyc. ʒ i
	Tr. Fer. Mur. M xx		4 in die
	4 q. h.	" 16	Voided 38 oz.
" 27	Voided 18 oz.	" 17	" 36 "
" 28	" 18 "	" 18	" 45 "
" 29	" 21 "	" 19	" 39 "
" 30	Mist. 4 in die	" 20	" 42 "
" 31	Voided 21 oz.	" 21	" 36 "
	" 24 "	" 22	" 30 "
			Stop last mist
			and give
			Sol. Glon. M iij
			Tr. Fer. Mur. M
			xx ter die