FIVE YEARS' EXPERIENCE WITH THE COLD-BATH TREATMENT OF TYPHOID FEVER.

BY WILLIAM OSLER, M.D.,

Professor of Medicine in the Johns Hopkins University, Baltimore.

During the first year of the hospital service, typhoid fever was treated symptomatically. number of severe cases admitted was unusually large, and there were eight deaths among thirtythree patients—a percentage of 24.2. For the past five years, ending May 15th, 1895, systematic hydrotherapy has been used-the method of Brand, with certain minor modifications. first Report (Vol. IV.) the plan was given; but I may repeat here that each patient receives a tub-bath of twenty minutes at 70° every third hour, when the rectal temperature is at or above 102.5°. Frictions are applied in the bath, and a warm drink or a stimulant is given afterwards. In a large proportion of the cases no other treatment is employed. If the pulse is feeble whisky is given, and strychnia. The diet is either wholly milk or in part broths, and egg albumen. It may be noted that all the cases come under my immediate care, or, in my absence, that of Dr. Thayer, the Associate in Medicine.

In estimating the value of any plan of treatment, it is important that all circumstances should be taken into account. In the previous report I dealt with the statistics as so many patients admitted, of whom so many died; and this, I think, should be done in all institutions—give the total number of cases of each disease treated to a conclusion, and the number of deaths, irrespective altogether of the length of stay in the hospital, or the condition on admission. General hospitals are everywhere liable to be repositories of the more severe or troublesome cases, and in typhoid fever, more particularly of protracted cases in which serious symptoms have developed late in disease. A high rate of mortality in any given acute disease may be an indication of a special usefulness of the institution. As already given, the general statistics of the hospital in typhoid fever are: Cases admitted during the giv years anding

see admitted during the	DIA	years	Guan	5	
May 15th, 1895 .		•			389
Number of deaths .					34
Percentage of mortality					8.7

2

Cases	admitted	before	the	int	roduc	tion	of	
h	ydrothera	ъру .			•			33
Nu	mber of d	leaths .						8
Per	centage o	f morta	lity					24.2
Cases	admitted	since t	he i	ntrod	luctio	n of h	y -	
d	rotherapy	7					•	356
Nu	mber of d	eaths .						26
Per	centage o	f morts	lity					7.3
	er of case		•					299
Nu	mber of d	eaths in	n th	e bat	hed c	ases		20
Per	centage o	f morta	lity	in th	e bath	ed ca	ses	6.6
The	percent	age 7.3	rep	resei	nts th	ne to	tal	mor-
tality	during th	ie past	five	year	rs; bu	ıt as	it	does
not re	present t	he mort	ality	of t	he ca	ses tr	eate	d by
	- therapy, t							
	is. Man							
systen	natic carr	ying ou	t of	the	plan,	amon	g w	hich
	llowing a						-	
т.				, -	•			_

In the first place, a number of cases are admitted in the second week, and even in the third week, with a falling thermometer, and the fever constantly below 102.5°. Cases, too, are admitted early, which have low temperatures and mild symptoms throughout. Brand and others urge that these should also be bathed; but in a large proportion of all such cases, this seems superfluous. There are exceptions, however,—cases in which the fever is low on admission, and even remains low for a week or ten days, to be followed by active and threatening symptoms. Nos. XXII and XXIX of the fatal cases were of this kind, and in both one could not but regret that the baths had not been used from the outset. In the very mild cases, seen more frequently in private than in hospital practice, the baths are unnecessary. Last year we admitted an unusually large number of such mild cases.

In the second place patients are admitted late in the disease, and are too ill to bathe. A patient brought in at the end of the third week, with high fever, rapid, feeble pulse, meteorism, and diarrhœa, stands, I believe, a much better chance, with careful sponging, to reduce the fever, than