traction is certain. Neither divulsion alone, nor simple urethrotomy, is capable of effecting this with any certainty. It requires a combination of these two methods to accomplish the desired result. My first dilating urethrotome was constructed for the purpose of meeting these necessary requirements. The results of the use of this, and other instruments involving the same principles, which were reported to your Society in February, 1872, have, as far as could be ascertained, proved permanent. The six cases then cited have each been carefully re-examined, within the last year, by myself and others, without being able to detect a trace of Stricture. One case, that of J. C. (operated on for five Strictures, between December, 1871, and March, 1872), was re-examined, at a meeting of the Medical Library and Journal Association of New York, in June, 1874 (more than two years after the final operation), by a committee of surgeons, consisting of Professor Alfred C. Post, Drs. Miner and De Forrest Woodruff, of New York, who reported complete absence of even a trace of Stricture.

Since my report of the above-mentioned cases to your Society, I have operated on a very large number of Strictures, with various instruments, but chiefly, and latterly almost solely, (except in Strictures at the meatus) with the dilating urethrotomes. One hundred cases of urethral Strictures, comprising two hundred and three operations, upon two hundred and fifty-eight Strictures, have been carefully collated, from my books of daily record, by my assistant, Dr. J. Fuhs, and subjected to a subsequent critical revision by myself.

The careful tabular analysis of these cases, which is presented with this paper, embraces the following points: I. Age of patient. 2. Cause of Stricture. 3. Locality and size. 4. Number in each case. 5. Normal calibre of urethra. 6. Complicating diseases or conditions at date of operation. 7. Symptoms at date of operation. 8. Accidents following operation. 9. Results of operation, as determined by a subsequent re-examination with the full-sized bulbous sound, at periods varying from three weeks to three years. 10. Re-

sults as shown by continued relief from all symptoms, where no instrumental re-examination has been practicable. Not to absorb too much of the valuable time of this Society, I will only allude now to a few points of greatest importance in connection with the facts which are developed by this summary:

Ist. It will be found that out of the 258 Strictures, 52 were in the first quarter inch of the urethra; 63 in the following inch, viz., from $\frac{1}{4}$ to $1\frac{1}{4}$; 48 from $1\frac{1}{4}$ to $2\frac{1}{4}$; 48 from $2\frac{1}{4}$ to $3\frac{1}{4}$; 19 from $3\frac{1}{4}$ to $4\frac{1}{4}$; 14 from $4\frac{1}{4}$ to $5\frac{1}{4}$; 8 from $5\frac{1}{4}$ to $6\frac{1}{4}$; 6 from $6\frac{1}{4}$ to $7\frac{1}{4}$.

Authorities claim that the great majority of urethral Strictures is found in the vicinity of the bulbo-membranous junction, and cite various possible causes for their frequency in this locality.

By the above statement it will be seen that they occur, as would naturally be expected, in greatest frequency where the inflammation begins the earliest, and rages the hottest, and gradually diminish in frequency in the deeper portions of the canal.

2d. The normal calibre of the urethra is shown for 100 cases in the following table:

22	Mm.	circumference	in	1	136	Mm. circu	ımferen	ce in	I
	"		"				"	"	
	"	"	"	I	38	u		"	6
30	- "	"	*	18	40	"	"	"	I
31	"	"	"	25	Not			"	
32	"		"						_
33	"		"					Total 1	00
34	"		"						

Thus, it will be seen that in ninety-six carefully measured cases, the *average* normal calibre was 31.84; but omitting the case of child of ten years, whose urethral calibre was 22mm., the average for the remaining cases is nearly 32mm.

3d. Of the accidents following operations: Hæmorrhage in four cases; prostatic abscess in three cases; curvature of penis during erection in three cases; urethritis in two cases;

diphtheritic deposit on wound in three cases; urethral fever in seven cases; retention in one case.

In a small proportion of cases hæmorrhage has been quite profuse; not during or immediately following the operative procedure, but coming on after urination, or more commonly, during erection. Especially from the latter cause, it is sometimes sudden, and copious, but readily controlled. The fact that hæmorrhage, of any moment, ever occurs (although in the one hundred cases cited there were only four), leads me to use, and to advise, such precautionary measures, in all cases, as will give complete security against harm from this accident. My usual plan is to have an intelligent attendant instructed to watch the patient during sleep (when erections are most likely to occur), and to make prompt pressure of the penis at the incised locality. This is usually sufficient to arrest the flow. Applications of ice are also of value for the



same purpose. In some cases I have found it necessary to introduce a tube into the urethra, making pressure upon it by means of a light bandage, and to have it retained until the hæmorrhagic tendency has passed.

An ordinary endoscopic tube answers well in such cases. Division of Strictures, at or near the meatus, is most likely to be followed by hæmorrhage. Here a shorter tube will suffice. When the bleeding is from the vicinity of the meatus, it results from the division of a small artery near the frenum. When in the deeper portions of the urethra, it arises, probably, from incision into the trabecular spaces. In either case, the danger of recurrence is not entirely over before the fourth or fifth day.

4th. Slight urethral fever has followed the operation but seven times. Six times, when for Stricture in the curved portion of the urethra; once only, when the operations were

in the pendulous portion of the organ, and this occurred in a malarious subject. This leads me to remark, that, in my experience, operations confined to the pendulous urethra, are as a rule, never followed by constitutional disturbance, even when six or seven Strictures are divided at the same sitting. But, to insure this result, no instrument, not even a sound for exploratory purposes, should be passed into the bladder, during, or immediately subsequent to the operation.

5th. Three operations were followed by prostatic abscess. In one of these cases, the patient, who was a physician, sailed for the West Indies in about a week after the operation (which was for a single Stricture near the meatus), and reported trouble of the prostate coming on soon after, he meanwhile, using a sound himself, to prevent recontraction, and each time passing the instrument through the prostatic urethra.

In the second case the patient, who was accompanied by his physician, left my care three days after operation, and one week after reaching home (during which a sound was passed into the bladder every day or two), the prostatic trouble came on, which ended in abscess. In the third case, the patient, who had been operated on for five Strictures, of a very dense character, passed from my observation immediately after the operation. Prostatic trouble came on insidiously during the next ten days, while the sound was being occasionally passed to prevent recontraction. I will not criticise, nor attempt to explain, the causes which led to the prostatic trouble in these cases. I recognize the fact, that the simple introduction of a sound, through the deep urethra, even with the utmost skill and care, may, of itself, give rise to an irritation which may terminate in abscess of the prostate. But I will state that no such accident has befallen any case which has remained under my own personal care until healing of the wound has taken place.

6th. Curvature of the penis downward followed in three cases where numerous Strictures were divided, but this trouble occurring during erections was unattended with pain

and passed off entirely within from two to six months after the operation, in two cases. In one case, at the end of a year, there was slight curvature, but it gave no trouble, and subse-

quently disappeared.

7th. Urethritis in two cases; one followed an operation at the meatus, being set up by forcible use of a tube, by the patient, to prevent recontraction. It lasted acutely for three weeks, and was followed by a gleet, lasting four months, which finally ceased after a second operation, required by the recontraction which had taken place. The third followed an operation upon four Strictures, and occurred within a week. This was complicated by the presence of a diphtheritic deposit, upon the wound, near the meatus, probably resulting from a similar action in the wound of the deeper portions of the canal.

8th. Diphtheritic deposit occurred upon the wound, in two other cases, lasting, under treatment by iron and quinine generally, and applications of the strong acetic acid locally, about two weeks, and was followed, in both instances, by a recontraction of the Stricture.

Thirty-one cases were re-examined, and found cured, no recontraction having taken place.

TABLE.

Time after operation.	No. of Cases.	No. of Strictures.	Time after operation.	No. of Cases.	No. of Strictures.
3 years	ī	4	5 months	I	7
21 "	I 2	7 8	4 "	4	15
1½ year	3	14	21/2 "	Ĭ	10
1 year	4	7 2	2 " I month	4	II
o "	I	I I	3 weeks	Î	5
8 "	I	I	2 "	I	I
7 "	2	10		37	128

In thirty-one cases none of the Strictures had recontracted. In six cases most of them had been absorbed, while some remained.

RESULTS IN 100 CASES.

Cures. Re-examined. No recontraction	31	cases
Cure. Patient perfectly well when last heard from. No re-	52	"
Perfect relief for a length of time. Return of symptoms. Re-examination. Stricture found to have recontracted		"
Perfect relief for a length of time. Return of symptoms. No re-examination	5	"
Relief of most symptoms. Some remaining. Patient still under treatment		"
Partial relief	7 7 7 7	" case.

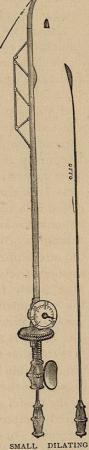
It will be seen from these statistics that the results of treatment justify in the completest manner all that has been heretofore claimed by me for the method. In point of gravity it will be seen that cutting operations for the division of Stricture in the pendulous portion of the urethra (where the great majority of Strictures are found), compare most favorably with all other modes of treating Stricture, and cannot be considered as exposing the patient to more peril or inconvenience than simple gradual dilatation by means of graduated soft bougies or sounds. In regard to the advantages of operations as quoted, they are manifold, to the patient as well as to the surgeon. They are comparatively painless, except near the meatus, and speedily performed, involving at most but a few days loss of time (often not even a day, where the Stricture is single and recent). The after treatment consists only of separation of the wound throughout its extent by the easy passage of a full-sized steel sound daily, or every other day, until healing is complete. If by this time no other Stricture is discovered, the patient may be dismissed as cured. Sometimes, however, after the division of a single Stricture other bands of larger calibre in the vicinity, which had been so stretched during the operation that they eluded detection, may be found. But this will always be ascertained within the few days which suffice for the tissues to recover from the dilatation consequent upon the operation. In such cases these bands must be divided in the same manner as the first. Absolute division of all bands which in the least contract the canal is necessary for complete immunity from after trouble. Failure in obtaining perfect freedom in the passage of a full-sized bulb is due to the imperfection of the means used, and not to any fault in the method.

In certain long-standing, dense, fibrous Strictures, I have sometimes experienced great difficulty in effecting their thorough division, and this is especially the case in regard to Strictures caused by masturbation, or by traumatism. I have occasionally had to use several different kinds of cutting and dilating instruments before the desired object was effected. No one instrument can ever be depended on to succeed, completely, in all cases. In ordinary Strictures what I term my improved dilating urethrotome, will be found the most easy of management, and is, as a rule, thoroughly effective. It is constructed with a dilating apparatus, and when closed is in size equal to about 20 of the French scale. Upon its superior aspect, a blade, guarded at the top, is slid down through a groove to the end of the shaft, (after the manner of the urethrotome of M. Maisonneuve,) possibly nicking the smaller Strictures in its passage. The screw at the handle is then slowly turned until the hand on the dial indicates that the instrument is dilated up to two or three millimetres beyond the previously ascertained normal calibre of the canal. The blade is then slowly withdrawn, cutting through all the Strictures on the superior wall of the urethra. The strain of the dilatation falling almost solely on the Strictures, they are thus made the most salient points, receiving the anterior edge of the blade, while the normal portions of the canal are protected completely, or nearly so, by the guard on the top of the knife. In this way the division of the Strictures is accomplished with the least possible injury to the mucous membrane covering the sound portions of the urethra. The instrument is then withdrawn, and an examination for results is instituted with a full-sized bulb. If any fibres of Stricture are then detected, the operation must be repeated, at the

contracted point, until perfect freedom to the passage of the bulb is secured.

For a second operation, I not unfrequently use one of my

earlier urethrotomes,* which cut only at a single predetermined point, and the blades of which are not protected by a guard. In all these instruments the incisions are comparatively slight. The tension to which the Strictures are subjected renders them thin, and brings them into condition to be completely severed by an incision of the least possible depth. Cutting always upon the superior wall of the urethra and in the median line, hæmorrhage is usually slight, and ceases almost immediately. In all cases of Stricture, at or near the meatus, I am accustomed to make the division on the inferior wall of the canal, and very thoroughly, with a straight bulb-pointed bistoury. The utmost freedom to the passage of the bulbous sound must here be insisted on, and not a single trace of contraction left uncut. The after-treatment of this class of Strictures requires much more care to prevent recontraction than those in the deeper parts of the urethra. Every possible means must be used, such as rest, cold water applications, etc., to prevent inflammation; otherwise a recontraction is liable to occur. The very least return of obstruction is often sufficient to prevent the cessation of the gleet or of the reflex troubles, for the cure of which this operation is usually performed.



SMALL DILATIN

^{*} The dilating urethrotomes are known to the makers (Messrs. Tiemann & Co., No. 67 Chatham Street, and Messrs. Otto & Sons, 64 Chatham Street), as Nos. 1. 2, 3, 4, in the order of their invention—Nos. 1 and 2 dilating and cutting at a single predetermined point, while Nos. 3 and 4 dilate the entire canal. Each has

As a means of avoiding inflammatory action after operations upon the penis, I am in the habit of insisting upon a constant application of cold water by means of a small Indiarubber tube, arranged so as to encircle the penis, and through



which water of any desired temperature is carried by syphonic action.* The healing process is thus facilitated; painful erections (which sometimes follow operations upon the pendulous urethra), are allayed, and the chances of urethritis avoided. By proper arrangement of the vessels containing the water the patient can use the cold water coil while in bed, or when sitting, or the water bottles may be so arranged in an upper and a lower pocket, that the patient may, if necessary, even walk

advantages which cannot be combined in the other, but either one will answer in all cases of single Stricture. When several Strictures are present, especially if close together, the latter numbers are to be preferred. No. 4 has the advantage of being adapted to any Stricture in the straight urethra without distending the curved portion of the canal.

about and attend to pressing business without removing it.

* The apparatus which I have designated the "Cold Water Coil" is formed of a line of the small-sized India-rubber tubing of one-sixteenth of an inch calibre, and six or seven yards in length. At the middle portion this tubing is coiled upon itself, so that, by half a dozen turns or more, it presents sufficient capacity to loosely encircle the entire penis or scrotum.

This coil, with the length of tubing proceeding from it forms an apparatus through which, on placing one extremity of the tubing in a bowl or tumbler of ice water, exhausting its contained air (by suction, or by drawing the tube through the finger), a syphonic current is established through the coil. The discharge pipe being placed on a lower plane than the water supply, the current may be kept up until the vessel is emptied.

The rapidity of the flow can be regulated either by raising or lowering the end of either tube, which is the simpler plan, but the more convenient one is by a tapering, double silver tube, attached to the discharge pipe, a sponge being fitted to the inner tube. This sponge, when the inner tube is pushed down into the smaller end of the outer tube, becomes compressed, and gradually obstructs the flow of water, until not a drop will exude. This contrivance may be regulated so that either a free stream can pass, or that the single drops shall follow each other, more or less rapidly, with the regularity and precision of a time-piece.

The above directions refer entirely to operations within the pendulous urethra. Surgical operations in the curved portion of the canal demand rest in bed, until the

healing process is complete.

In none of the cases above reported has any dilatation been attempted after the healing of the wound made during the operation. The use of sounds subsequent to the operations, is simply to separate the cut surfaces, and not for purposes of dilatation, and their use is discontinued as soon as a full-sized bulb can be passed through and beyond the previous site of Stricture, and withdrawn without a trace of blood accompanying or following the use of the instrument.

Recontraction of Stricture, after operation, is simply due to incomplete division, and this will, as a rule, be detected within one week, or at most two weeks, by which time stricture tissue distended-not divided-will sufficiently recontract to become readily recognizable by the full-sized bulb. If, then, no Stricture can be recognized, the cure of the difficulty may be considered complete, and no further treatment, will be required.

Strictures of a calibre of less than 16 or 18 of the French scale (7 or 9 of the English), require enlargement by gradual dilatation with soft bougies when this is well borne, if not, by divulsion, or by the urethrotome of M. SOLID SOUND SHORT Maisonneuve. After having been brought,

by any one of the methods above referred to, up to a capacity permitting the passage of the dilating urethrotome, complete division of the Strictures by means of this instrument may be readily effected.

	Re-ezamination.					
	Besults,	Relief from all trouble. Recontraction. Second, operation. Relief up to date.	Immediate relief, following operation. Recurrence of symptoms reported. No re-examination.	Cure in six weeks	Immediate relief Cure of reflex symptoms.	Immediate relief and cure in onc month.
	Accidents after Operation.					
	Number of Operations.	67	H		61	- W
	Complications.	Cystitis, small calculus in bladder.	Gleet	Gleet	Retention re- peated by gravel.	Heet. Cystudis. Enlarged Epi-dymis.
	Condition at date of Operation.	24-38 Frequent and painful mictu- Cystitis, small rition. Pain in penis, calculus in scrotum, perineum, abbladder. Urine puru ent	28 34 Gleet. Pain in urethra, Gleet. 28 scrotum, thighs, knees, legs, feet, groins. Painful movements of the testicles.	22 31 Gleet,	Frequent micturition. Pain Retention in urethra, perineum. serotum and bilgilis Trine animicart and mixed.	29 32 Gleet. Lumbar and peri-Gleet. 29 turition. Frequent mic-luiss dym
1	Norm. Calib. of Urethra-	38	34	31		61
	Size of Strictures.	A STATE OF THE PARTY OF THE PAR		22	20 31 24 28	29
	Locality of Stricture.	ş in.	4 in. 2 in. 24 in.	Meat.	3 in.	Meat - 29 24 in. 29
	Number of Strictures.	7	က		က	
	Cause and date of	60 Congenital con- traction.	2 38 Gonorrhoea fifteen years ago. Several times since. Last at tack four years	ago. 32 Gonorrhœa ten vears ago.	54 Gonorrhea twen- ty eight and eight years ago.	68 Gonorrhoea forty- seven and forty years previous- ly.
jj.	. Age.	09	88		54	89
11	Number of Case.		2	ന	4	10

RESULTS OF OPERATION IN

664 Gonorrhoza several 1 in. 29 34 Gleet. 1 in. 29 34 Gleet for five years. 1 in. 29 34 Gleet for five years. 1 in. 29 34 Gleet for five years. 1 in. 19 1 in. 20 3 Gleet for five years previous. 1 in. 20 3 Gleet for five years 1 in. 20 3 Gleet for five years previous. 1 in. 20 3 Gleet for five years previous. 1 in. 20 3 Gleet for five years previous. 1 in. 20 3 Gleet for five years previous. 1 in. 20 3 Gleet for five years previous. 1 in. 20 3 Gleet for five years previous. 1 in. 20 3 Gleet for five years previous. 1 in. 20 3 Gleet for five years previous. 1 in. 20 3 Gleet for five years previous. 1 in. 20 3 Gleet for five years previous. 1 in. 20 3 Gleet for five years previous. 1 in. 20 3 Gleet for five years previous. 1 in. 20 3 Gleet for five years previous. 1 in. 20 3 Gleet for five years previous. 1 in. 20 3 Gleet for five years previous. 1 in. 20 3 Gleet for five years previous. 1 in. 20 4 in. 20 4 in. 20 4 in. 20 5 Gleet for five years previous. 1 in. 20 5 Merchian for five for five years previous. 1 in. 20 5 Merchian for five for f			JUDICE	D CAS.	LS OF	UKEIN	INAL	SIRICIU	KE.	10
1 in. 29 34 Gleet for five years	Thirteen months after operation no recontraction.	One month after operation no recontraction.	Three months after last oper- ation. No re-	contraction. Perfectly well One year after operation No	recontraction.				One year after operation. No	Sexual power perfect.
1 in. 29 34 Gleet for five years Gleet 1 1 1 1 1 1 1 1	Cure, complete in two weeks	Cure in two weeks. Perfectly well one month after operation.	Cure		Slight gleety discharge remaining ten days after operation. Not since heard from.		Granular spots disappeared after	operation. Painful erections still persist. Immediate relief of pain in perineum, hip and back.	Cure	
1 in. 29 34 Gleet for five years							1			
	-	_							-	
	Gleet.	Cleet	Enlarged pro state.	Gleet	Gleet		Painful erec	tions. Redunden prepuce	cision. Imperfect er ections.	
	(Gleet,	Gleet for five years.	Frequent and painful micturition. Pain in perincum	Gleet. Irritation in urethra	Frequent micturition. Gleet		Granular spots in urethra.	Painful erections. Pain in perineum, left hip over the region of left kidney.		
	34	55.5	E .	32	37			34	31	
	25	ń	n. 20 n. 15 n. 15	. 20	1. 28 1. 28	1.33	23.58	1 26	92	
	. in .	ii †	33.11	Meat	4 ir 1 in 14 in	14. 6. 4. 4. 4. 4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	4½ ii. 5½ ii. Meat.	3 in 22 in	Meat	
6 54 Gonorrhoea several times during the last ten years. 8 27 Gonorrhoea several years previous. 9 24 Gonorrhoea ——— 10 30 Gonorrhoea four years previous. 11 37 Gonorrhoea mine years ago. 12 — Gonorrhoea twelve years previous. 13 46 Gonorrhoea twelve years previous.		-	က	-			-	21	-	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	64 Gonorrhea	defines during the last ten years.	27 Gonorrhea seven years previous.	24 Gonorrhæa	30 Gonorrhæa four years previous.		37 Gouorrhœa nine	years ago Gonorrhæa twelve years previous.	16 Gonorrhæatwenty years previous.	
	9 1		20	6	10		H	12	13	

STATISTICAL TABLES—Continued.

Number of Case.

RESULTS OF OPERATION IN

ONE HU	INDRED	CASES	OF UI	RETHRA	L STRI	CTURE	e. 10g
1 e1	Remains perfectly well one year after years and three months operation no last operation.			Six months after last operation, no recontraction.	Recontraction at meatus, None of deep stric-	tures. Four mos after operation. No	Nine months after operation. No recontraction.
ricture	r wel	after six operation.	years				· ·
Deep stricture	rfectly iree n n.	n aft	r two		pə		sks
	ns pe and th	atraction	th afte maner remai		ıppear		vo wee
glee vided.	ure. Remains perfectly well two years and three months after last operation.	Recon	Relief, which after two years remains permanent. ire, which remains complete these rears of ferlost complete.	a de la composición dela composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición dela composición dela composición del composición dela comp	ge disa		hin tv
Cure of gleet. not divided. Cure	Cure. two y	Cure. Recontraction after six months. Second operation.	Relief, which after two years remains permanent. Cure, which remains complete through of particular complete.	Cure	Discharge disappeared	Jure	Cure within two weeks.
						2 Prostatic Cure abscess.	
			-	2 Chills		Pro	
1 2	67 6	4 67	- 7	. 2	67	23	
Gleet	Gleet		Gleet		Gleet		Gleet
1\$ in. 23 31 Gleet lasting one year Gleet 6 in. 24 30 Gleet		in. 31 in. 18 29 Painful and frequent micturition. Gleet.	4 in. 16 31 Irritability of vesical neck. Gleet in. 26 Gleet.	Frequent and painful micturition.	Chronic discharge from the Gleet., urethra.	Frequent and painful micturition.	Frequent micturition. Sense Gleet of foreign body just be- hind the meatus, causing great nervousness. Gleet,
ne yes		quent t.	resical	ainful	ge fro	ainful	ody ju tus, c mess.
cing o		inful and fred rition. Gleet.	y of	and p	ischar.	and po	gn bc e mea
et last	et	iful a	ritabilit. Gleet.	equent rition.	ronic di urethra	equent rition.	forei forei nd the eat ne
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2 4	64 66		0.1	10	4	က	-
20 25 Gonorrhœa three years previous, 21 25 Gonorrhea one and a half and one year previous.	22 20 Gonorrhœa. Masturbation.	24 50 Gonorrhea thirty and twenty-five	years previous.	26 40 Gonorrhœa twelve years previous.			29 40 Gonorrheea three years previous.
tonorrhoea the years previo fonorrhoea and a half one year vious.	22 20 Gonorrhœa. Maturbation.	prev œa went	years previo	oea t prev	27 35 Masturbation	28 17 Masturbation	onorrhæa thre years previous.
years years years and a one vious.	onorrhœa, turbation,	ears orrh nd t	orrh	orrh	turb	turb	orrh
Gon Gon ar ar	Gon	Gon	Gon	Gon	Mas	Mas	Gon
1 25	2 20	4 50	5 54	6 40	7 35	8 17	940
N N	64 6	1 0	- 21	61	64	12	67