

RESULTS OF OPERATION.

2 m'ths after operation	1 case.	At 3½ in.	2d operation.	Cure.
2 " " " "	1 case.	At meatus.	2d operation.	Great relief.
2 " " " "	1 case.	At 5½ in.	2d operation.	Cure. Remains well for 2½ years.
1 month " "	1 case.			
1 " " " "	1 case.	At meatus.	2d operation.	Great relief.
1 " " " "	1 case.	At meatus.	2d operation.	Cure. Remains well for 2½ years.
1 " " " "	1 case.			
Time not noted	2 cases.	1. At meatus.	3d operation.	Relief.
Total 15 cases.				
Out of the 15 cases of re-contraction, 9 were at the meatus alone.				
" " " "	Return of symptoms.	Secondary operation.	Cure.	6
" " " "	Return of symptoms.	" "	Relief.	
" " " "	No symptoms.	Well when last heard from		5
" " " "	Return of symptoms.	No secondary operation		3
" " " "	No return of symptoms			1

CHAPTER XVII.

CONCLUSION.

THE points which are claimed to have been established by my observations are:

1. That the urethra is an *individuality*, and hence to obtain the true normal calibre of any urethra, it must be measured, or estimated, independently of any other.
2. That the meatus urinarius is worthless as a guide to the normal urethral calibre, and that its abnormal contraction is the cause of the pouch-like dilatation of the urethra behind it, known as the *fossa navicularis*.
3. That Stricture is a relative term. Hence its extent must always be estimated by comparison with the previously ascertained normal calibre of the urethra under consideration.
4. That the slightest *abnormal* contraction of the urethra, at any point, constitutes a Stricture.
5. That a Stricture, in this sense, is always a point of friction, the legitimate tendency of which is to produce inflammation; and hence the slightest appreciable Stricture may become worthy of consideration. That serious trouble often results from Strictures which but slightly contract the calibre of the urethra and which do not markedly interfere with the passage of urine; and that among such troubles *spasmodic Stricture*, simulating true organic Stricture in every respect, is often caused by such slight contractions.
6. That Stricture is *a* cause though not the *only* cause of gleet; and is, when present, always a cause of its persistence.
7. That true Stricture always embraces the entire circumference of the urethra at *some* point.

8. That complete division of Stricture at *any* point results in the *immediate disappearance* of the Stricture.

9. That separation of the sundered ends of the Stricture, suitably maintained until the healing of the wound, prevents the return of the Stricture, and finally results in the complete absorption of the stricture-tissue.

10. That Stricture is, *as a rule*, an inflammatory product, and that any acute or chronic inflammation may produce it.

11. That Stricture is often present as a result of inflammation caused by *lithiasis, masturbation, or urethral laceration*, (by gravel, etc.) though usually the sequel of a gonorrhœa.

12. That Stricture occurs most frequently in the anterior portion of the canal; and with increasing frequency when approaching the meatus where a gonorrhœal inflammation begins the earliest, rages the hottest, and lasts the longest.

From authorities and their followers who have hitherto denied the possibility of radical cure of urethral Stricture, I anticipate continued denial, until they shall have conscientiously and exactly carried out the plans and procedures through which my success has been attained, and have had the opportunity of testing the results by years of observation as I have done. In the meantime others, distinguished as teachers of surgery, and recognized as independent, honest and capable observers, like Professor Pease, Professor Brown and Dr Mastin, will aid me in educating the general profession up to the point of departing so far from established doctrines as to give the rational treatment of Stricture a fair trial. This effected, I believe the day will not be far distant when close Stricture will be esteemed a surgical opprobrium, and the continuous treatment by dilatation, except under rare and peculiar circumstances, will be relegated to physicians or to the patient, and this only as a temporary expedient to be practiced until competent surgical aid is attainable.

I am prepared to assert that such results as I have recorded, are not exceptional and may be attained by any surgeon who

will provide himself with the necessary instruments for the performance of dilating urethrotomy, and use them in accordance with the plans and principles previously enforced and *with the exercise of such judgment and skill as are considered essential to success in any other operation of like importance.*

NEW YORK, JULY 1ST, 1878.

Number of case.	Age of Patient.	Cause and Date of.	Number of Strictures.	Locality of Stricture.	Size of Stricture.	Norm. Calibre of Urethra.	Condition at Date of Operation.	Complications.	Number of Operations.	Accidents after Operation.	Result.	Re-examination.	Remarks.
162	Gon. 43 years previously, several attacks since.	3	Meat, 28 2 in. 2½ in.	28 30 30	34 30 30	Frequent micturition every 30 minutes. Pain after urination.	Spasmodic Strict. at 6 inches. False passage.	2	1	Chill	Divided Stricture at Meat, only. Immediately after operation urinated once in 10 hours, habitually once in 6 hrs. No pain after micturition. Relief for 4 mos. Recontraction to 29; 2d operation, immediate relief. Cure of gleet. Curvature of Penis cured in 1½ months. Immediate cure of frequency of micturition and of pain.		Had been treated for deep Stricture by other surgeons.
232	Gon. 7 yrs. previous; several times since.	3	2½ in. 3 in. 3½ in.	19 34 34	34 37 34	Gleet for seven years.		4	1	Curvature of Penis.			
325	Gon. 2 years previous.	3	Meatus, 25 2½ in. 3¼ in.	25 30 30	34 30 30	Frequent micturition. Pain when urine is retained. Erections imperfect.		1	1	Urethrit. dipht'ic. deposit at Meat	Cure of frequent micturition and pain. Erections perfect.		
437	Masturbation.	4	Meatus, 1 in. 3 in. 3½ in.	30 34 34	38 38 38	Frequent micturition during day and night. Pain in back and hypogastrium. "Scald-urine with plug" in urethra.	Erections imperfect. Purulent Scald-urine with spermatozoa	1	1				

533	Gon. 12 years previously.	3	Meatus for 1 in. 4 in.	24 34	36 34	Urinates every ¼ to ½ hour. Throbbing pain along urethra; constant pain along back and over pubes. Discharge off and on for over a year.	Purulent urine.	1	1		Immediate relief to frequent and painful micturition and pain. Entire cure in one month.	3 years and 4 mos. after operation. No recontraction.	
629	Masturbation.	1	Meat, 2 in. 2½ in.	20 30	28 34	Urinates 4 to 5 times at night. Pain in perineum and testes; mucus extruded with pain after urinating.	Seminal emissions frequent.	1	1	Retention of urine.	Cure immediate.	3 years after, no recontraction.	
7	No History.	2	2 in. 2½ in.	30 30	34 30	Gleet four years.	Throbbing in testicles. Spasmodic contraction of penis. Pains in thighs and legs. Urine muddy.	1	1		Cure		
851	Masturbation. Gon. 29 years previously.	1	½ in.	24	36	Frequent and difficult micturition and at night.		1	1		Cure in two weeks.		
926	Masturbation. Gon. 5 years previously and every year since.	3	Meat, 2½ in. 3¼ in.	21 14 14	32 14 14	Gleet. Painful micturition and erections. Frequent urination.	Frequent seminal emissions and imperfect erections.	5	5	Curvature of Penis 4 months.	Great improvement.		Curvature lasting four mos, resulting in great measure from loss of erectile power present before operation.

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10		Masturbation.	3	Meatus. 2½ in. 3 in.	21 32 24 24	32	Pain over pubes and in testicles. Great despondency. Frequent urination.	Frequent seminal emissions.	1	1 Hemorrhage easily controlled.	Cure	10 mos. after. No recontraction.	
11	47	Gon. 27 years ago.	3	Meatus. 3 in. 4 in.	36	36	Intense pain at coitus. Constant pain in thighs and perineum, robbing him of sleep.		1		Much improved.....		
12	25	Gon. 12 years ago and several times since.	4	Meatus. 2½ in. 3 in. 4 in. 4½ in.	28 32 24 28 32	32	Gleet 4 years. Pains in testes. Follicular ulceration of urethra.	Perineal abscess.	2		Cure	3 years after. No recontraction.	
13	37	Masturbation. Gon. 10 years before, and several times since.	1	Meatus. ¼ in.	23 38	38	Frequent seminal emissions; premature ejaculation; soreness along urethra.		2		Cure of urethral trouble. Relief to seminal trouble.		

14			4	Meatus. 3½ in. 3 in. 2½ in.	32 36 32 34 34	36	Gleet. Frequent micturition.		1		Cure		
15	36	Urethritis.	4	2 in. 3 in. 4 in. 4½ in.	24 36	36	Gleet	acute gonorrhœa of 4 months standing.	2	Smart hemorrhage. Curvature of Penis.	Cure		Operation during acute inflammatory condition, resulting in prompt relief of this condition, which had existed for 4 mos. previously. Final complete disappearance of the incurvation and cure.
16		No history.	2	Meatus. 3 in.	23 34 28	34	Gleet for one year.		1		Cure		
17	26	Gonorrhœa.	3	Meatus. ½ in. 2½ in.	39 34 28 33	34	Discharge without exposure. Painful and frequent micturition (every ½ hour); pain in penis and testicles.	Chron. hydroch (double)	1	Epididymitis.	Cure		
18	54	Gon. 30 years previously.	3	Meatus. ¼ in. 2 in.	27 34 27 27	34	Constant burning pain at neck of bladder and along urethra. Frequent painful micturition. Has had retention.	Cut for stone 1 yr. previously with no relief; bladder double	1		No relief. Meatus only divided.		Trouble subsequently found to be dependent upon pyelitis.
19	37	Gon. 14 years previously, and several times since.	2	Meatus. 2 in.	34	34	Gleet		1		Cure	9 months after no recontraction. 3 years after continues well.	

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20	39	Gon. 19 years previously, and several times since.	2	Meatus. 1 in.	33	33	Frequent micturition. Pricking and numbness in anus and legs.	Loss of sexual desire.	1	Not heard from.	Operated on for another surgeon who took charge of him.
21		Gon.	3 bands } 1 1/2 to 3 1/2 in.	34	34	34	Gleet.....	.....	1	.....	Cure.....	.....	.....
22		Masturbation.	2	Meatus. 2 1/4 in.	32	34	Seminal weakness.....	.....	1	.....	Relieved, but not permanently.	3 years after. No recontraction.	.....
23	45	Gon. 20 years previously, and gleet occasionally since.	4	Meatus. 1 1/4 in. 2 1/4 in. 4 in.	30 30 30	34	Pain at penis after urinating. Attacks of frequent urination. Pains in thighs and hips.	.....	1	.....	Cure.....	.....	.....
24	23	No venereal.	3	1/2 in. 3 in. 4 in.	24 25 25	34	Frequent micturition (every 1/2 hour). Pains in hypogastrium, thighs and down legs.	.....	1	.....	Cure.....	.....	Re-examined 7 mos. No recontraction. 3 years after continues well!

25	50	.....	5	Meatus. 1 1/2 in. 2 1/2 in. 4 in. 6 1/2 in. 1 to 4 inches.	34	34	Retention of urine.	Perineal fistulae and abscess.	1	Slight chill.	Immediate relief.....	5 months later. The combined operation was done (external and internal) but one fistula is open. Well 3 years after.
26		Gon. 7 years.	3	1 to 4 inches.	25 34	34	Imperfect erections and premature discharge.	.....	1	.....	Relief and final cure.....	.....
27		.....	1	Meatus.	38	38	.....	.....	1	.....	Cure.....	3 years after. No recontraction.
28	33	Gon. 12 years and 6 mos. previously.	4	Meatus. 3/4 in. 2 in. 2 1/2 in. 1 1/4 in.	25 25 27 23	36	Gleet. Urinating every 1/2 hour. Vesical tenesmus.	1	Immediate relief. Urinated in 6 or 8 hours.	Return of vesical tenes. Division of Stricture incomplete. Patient to return for thorough dissection.
29	34	Gon. 18, 4 and 3 years previously.	2	1 1/4 in.	25 32	32	Gleet recurring without cause.	Vesical catarrh. General debility.	1	Urethritis.	Cure. Relief of nervous symptoms.	4 mos. after, no recontraction. Patient to return for 32 bulb. 2 yrs. 9 mos. after, remains well.	
30	23	Gon. 6 mos. before.	1	Meatus.	24 32	32	Gleet.....	Indefinite, uneasy sensations in canal.	1	Relief to nervous sensations in two weeks. Cure of gleet.
31		Gon 2	5	Meatus. 1 1/4 in. 2 1/4 in. 2 1/2 in. 4 in.	27 27	38	Gleet. Pain at meatus.	4	Diphtheritic deposit on wound.	Cure.....	2 years after operation. No recontraction.

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32	29	Gon. 14 mos. previously.	2	From Meatus 1/2 in. 3 in.	33 25 30		Gleet; prostatic irritation; nervous feeling in groin, perineum and over pubes.		1		Improved but lost sight of.	7 months after slight retraction at meatus detected by 32 f. bulb	
33	35	Gon. repeated	2	at Meatus 2 in.	26 33 28		Gleet of several years standing.		1		Cure	One year after operation continued well.	
34	42	Gon. 23 and 16 years previously.	2	Meatus. 2 1/2 in.	28 32 30		Cystitis, gleet. Pains in loins and back.	Cystitis. Residual urine.	1		Cure of Strictures and cystitis. Disappearance of gleet and reflex pains.	19 months after operating no retraction.	
35		Gon. 15 years previously.	4	Meatus. 2 1/2 in. 3 in. 4 in.	26 32 25 25		Gleet. Oozing from prostate after stool. Uneasy sensation in inguinal region. Pain in back and groin.		2		Cure of Strictures of prostatic and reflex troubles. Disappearance of gleet.	.....

36	28	Laceration of urethra caused by being thrown out of a carriage 8 years previously.	3	Meatus. 3 in. 5 1/2 in.	26 34 12		Imperfect erections for last 5 and 6 years. Pain in back and loins.		2	2	Chills	Cure of his troubles for two mos. Return of some of his troubles. Recontraction of deep Stricture. Division of it.	5 months after first operation. No recontraction of anterior Strictures. Recontractions to 21 f. of Strict. at 5 1/2 in.	Deep Stricture divided by external incision 7 ys. previously by Dr. Taylor, of Cleveland, Ohio. Second operation 2 years after, continues well.
37	39	Gon. 22 and 17 years previously.	5	Meatus. 3 bands from 2 1/2 to 3 in.	24 30 26		Incontinence of urine. Pain in hips and thighs. Occasional attacks of retention urine. Great physical debility and mental demoralization.	Residual urine. General health very bad. Deep spasmodic Stricture.	3	2	slight chills on day of operation 2 chills 3 days later, after introduction of instrument 1 chill on 5th day after operation from the same cause.	Perfect relief of his troubles for about one month. Intervals of micturition from 4 to 6 hours. Return of frequent urination; recontraction of meatus to 24 f. Division. Cure.	2 1/2 years after perfectly well.	13 years previously patient was operated on for supposed deep Strict. without relief, and since then frequent unsuccessful attempts at catheterism had been made. Frequent attacks of retention urine before present operation, relieved at night by involuntary enuresis.
38	47	Gon. 17.	1	1 inch from Meatus.	27	38	Frequent micturition. Severe hypogastric pains.	Occasional attacks of retention of urine.	2		Cure	Re-examined 6 months. No recontraction.	Treated for supposed deep Stricture by other surgeons.	

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39	34	Gon.	1	Meatus.	24	34	Gleet	Syphilis.	1	Cure	2 years after operation. No recontraction.	
40	36	Gon. 16 and 7 years previously.	5	Meatus. 1 in. 2 1/4 in. 3 in. 4 1/2 in.	30 28 28 32	34	Painful micturition. Drawing sensation behind scrotum, at thigh and groin. Burning sensation in rectum and rectal tenesmus.	Enlarged prostate.	3	1 chill.	Cure of his troubles. Recontraction twice at meatus, causing a temporary return of his symptoms. After 3d operation disappearance of all his symptoms.	1 year after last operation. No recontraction.	
41	24	Gon. 4 and 1 1/2 years previously.	3	Meatus. 3 in. 3 1/2 in.	24 36 33	36	Gleet	Syphilis.	2	Cure	2 1/2 years after, remains well of Stricture. Has tertiary syphilis.	

42	47	Gon. 23 years previously.	7	Meatus. 4 bands in pendulous part 2 bands in membranous part	24 24 28 12	38	Painful and frequent micturition. Most of urine escapes through fistulous openings.	3 urethral fistulae. Kidney disease.	1	2 chills. Suppression of urine lasting one day.	Cure	15 months after operation. No recontraction. No fistulae.	Operated on by perineal sec. 2d yr. previously by Dr. Agnew of Phil. Present operation consisted in a div. of deep Strict. by external and bands by internal urethrotomy (comb'd operation). Nearly 2 yrs. after (Oct. '77) recontraction to 28 at rin. with swelling in perineum. Operation with disappearance and great relief. Jan. 1878 2 yrs. after operation a fistula rec'd while run down from malaria.
43	35	Gon. 15 years previously.	5	Meatus. 2 in. 2 1/2 in. 3 1/2 in. 2 bands at 4 in.	15 23 24	32	Painful and frequent micturition. Dribbling. Nervous feeling in testicles.	Long pro-puce.	1	Diphtheritic deposit at meatus.	Much improved. Relief of troubles for about one month. Recontraction at meatus with return of some difficulty in micturition.	.....	Circumcision was performed, besides urethrotomy.
44	31	Gon. 8 and 4 years previously.	1	1/2 in.	24 30	30	Gleet	Spasmodic deep Stricture.	2	Temporary improvement. Cure.	6 months after operation. No recontraction. deep Stricture by other surgeons.	

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45		Masturbation. Gon.	1	Meatus.	31	34	Frequent seminal emissions.		2		Cure	Remained well for one year, then had another gon.	
46		Gon. 8 years previously.	1	Meatus.	14	31	Gleet for 4 years	Spasmodic deep Stricture.	1		Cure. Recontraction and return of trouble 1 year after. 2d operation and relief immediate.		Had been treated for deep Stricture by other surgeons.
47	19		1	Meatus.	23	30	Frequent and painful micturition for twelve years.	Stone in bladder.	1		Cure		
48		10 mos. previously had gon.	2	Meatus.	23	35	Gleet		1		Lost sight of.		
49		Gon.	3	Meatus.	23	34	Tenesmus and pain over pubes, penis and perineum.	Cystitis.	1	Chills severe.	Recontraction. Recovery from cystitis. Postponing 2d operation, continues treatment by dilatation on his own account.		Stricture at 6 in. divided by Maisonneuve urethrotome.

50	70	Denies Gon.	4	Meatus.	18	34	Can pass urine only through catheter. Pain in penis. Much pus and blood in urine. Passes his urine every half an hour.	Cystitis.	1		Cure since improvement. Passed his urine without catheter, about one in 2 hours, 1 1/4 months after operation.			
51	35	Gon. 13 years previously.	1	Meatus.	32	35	Gleet		1		Cure of gleet	2 years after No recontraction.	Deep Stricture repeatedly divided by other surgeons by external and internal incision, with short and inconsiderable relief.	
52	30	Gon. 2 1/2 years previously.	1	Meatus.	27	34	Gleet. Frequent involuntary seminal discharges. Pain in groins around rectum. Drabbling after urination.	Long prepuce.	1		Cure perfect	2 years after operation. No recontraction. Cure perfect.	Circumcision performed. No recontraction. ed also.	
53		Gon.	1	Meatus.	22	34	Micturition every half an hour and very painful.	Cystitis.	1		Much improved.		Perineal sect. performed by other surgeon Jan., 1876, to relieve cystitis. External wound not healed.	
54	15	Masturbation.	1	Meatus.	12	26	Occasional nocturnal incontinence. Seminal emissions every night.	Epileptic attacks.	3		Temporary relief of headache and epileptic attacks. Return of trouble.			

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55	52	Gon. 5 and 2 years ago.	3	Meatus: 2 1/4 in. 3 1/2 in.	27 36	Irritability of bladder.			1	Chill.	Relief of all symptoms. Not heard from since.		
56	Gon.		1	Meatus.	24 36	Gleet 1 year. Treated for supposed deep Stricture by other surgeons.	Spasmodic Stricture at 5 1/2 inch.		1		Cure of gleet and spasmodic Stricture.		Treated for supposed deep Stricture by other surgeons.
57	37	Gon. 17 years previously, and several times since.	2	1 in. 3 1/2 in.	25 35	Gleet for 10 years. Frequent micturition. Dribbling after micturition. Pain in perineum.	Enlarged prostate. Residual urine slight.		1		Cure	1 year and 10 months after operation no recontraction.	
58	27	Masturbation.	4	Meatus: 1/4 in. 2 1/4 in. 3 1/2 in.	27 33	Frequent seminal emissions.			1		Cure	2 years after operation no recontraction. Perfectly relieved from all trouble.	

59	34	Masturbation Gon. 3 years previously.	1	Meatus to 1/4 in.	23 33	Imperfect erection. Premature emissions with pain about sphincter ani. Burning in urethra. Treated for deep Strict. by other surgeons.			1		Cure	1 yr. and 9 mos. after operation. No recontraction.	Treated for supposed deep Stricture by other surgeons.
60	25	Gon. 5 years previously.	4	1/4 in. 1/2 in. 1 in. 3 in.	26 33	Gleet			2	Painful erections	Discharge disappeared shortly after operation. Dissipation caused a fresh discharge 4 months after operation with recontraction of 2 Strictures at Meatus and 3 inches. Re-division.	No re-examination.	
61	32	Gon. one year previously.	2	Meatus. 2 1/2 in.	24 33	Gleet			1		Cure	5 months after operation. No recontraction.	
62	40	Gon. 7 years	1	1 in.	23 35	Pain in perineum. Gleet.	Enlarged prostate. Residual urine.		1		Cure. Pain disappeared after operation.		
63			1	4 1/2 in.	30 34	Frequent micturition.	Spasmodic deep Stricture.		1		Greatly improved		Treated for supposed deep Stricture.
64	23	Gon. 10 mos. previously.	3	Meatus. 1 in. 2 1/2 in.	15 36	Gleet			1		Cure		