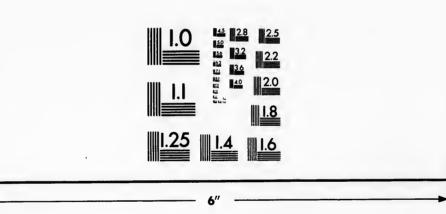


IMAGE EVALUATION TEST TARGET (MT-3)



Photographic Sciences Corporation

23 WEST MAIN STREET WEBSTER, N.Y. 14580 (716) 872-4503 STATE OF THE PROPERTY OF THE PARTY OF THE PA

128 123 123

CIHM/ICMH Microfiche Series. CIHM/ICMH Collection de microfiches.



Canadian Institute for Historical Microreproductions / Institut canadian de microreproductions historiques





Technical and Bibliographic Notes/Notes techniques et bibliographiques

1:	2×	16X	20X		24X		28X		32X	
				1						
Comm						26X		30X		
Tight binding may cause shadows or distortion along interior margin/ La reliure serrée peut causer de l'ombre ou de la distorsion le long de la marge intérieure Blank leaves added during restoration may appear within the text. Whenever possible, these have been omitted from filming/ Il se peut que certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont pas été filmées.					Only edition available/ Seule édition disponible Pages wholly or partially obscured by errata slips, tissues, etc., have been refilmed to ensure the best possible image/ Les pages totalement ou partiellement obscurcies par un feuillet d'errata, une pelura etc., ont été filmées à nouveau de façon à obtenir la meilleure image possible.					
Relié a	with other mate vec d'autres doc	cuments	eartian		Compre	s suppleme and du met	ériel sup		re	
	ed plates and/o es et/ou illustra	r illustrations/ tions en couleur				of print va inégale de		sion		
		r than blue or blac autre que bleue ou		V	Showth Transpa					
	ed maps/ géographiques	en couleur				letached/ létachées				
	title missing/ de couverture	manque		$\overline{\checkmark}$		liscoloured lécolorées,				
	restored and/o rture restaurée e					estored an estaurées				
	damaged/ rture endommag	jée				lamaged/ indommag	ées			
	ed covers/ rture de couleur					d pages/ le couleur				
original cop copy which which may reproduction	y available for fi may be bibliogr alter any of the n, or which may	iming. Features of aphically unique,	this	qu'il de c poin une mod	lui a été et exemp t de vue image re lification	possible de la possib	le se prod ont peut- hique, qu ou qui pe éthode n	curer. Les être uniq ii peuven uvent exi	détails ues du t modifiai ger une	
The Institute	has attempted	to obtain the bes	t	L'Ins	stitut a m	nicrofilmé l	e meilleu	ir exempl	aire	

The copy filmed here has been reproduced thanks to the generosity of:

Medical Library McGill University Montreal

iar

.

The images appearing here are the best quality possible considering the condition and legibility of the original copy and in keeping with the filming contract specifications.

Original copies in printed paper covers are filmed beginning with the front cover and ending on the last page with a printed or illustrated impression, or the back cover when appropriate. All other original copies are filmed beginning on the first page with a printed or illustrated impression, and ending on the last page with a printed or illustrated impression.

The last recorded frame on each microfiche shall contain the symbol → (meaning "CONTINUED"), or the symbol ▼ (meaning "END"), whichever applies.

Maps, plates, charts, etc., may be filmed at different reduction ratios. Those too large to be entirely included in one exposure are filmed beginning in the upper left hand corner, left to right and top to bottom, as many frames as required. The following diagrams illustrate the method:

L'exemplaire filmé fut reproduit grâce à la générosité de:

Medical Library McGill University Montreal

Les images suivantes ont été reproduites avec le plus grand soin, compte tenu de la condition et de la netteté de l'exemplaire filmé, et en conformité avec les conditions du contrat de filmage.

Les exemplaires originaux dont la couverture en papier est imprimée sont filmés en commençant par le premier plat et en terminant soit par la dernière page qui comporte une empreinte d'impression ou d'illustration, soit par le second plat, seion le cas. Tous les sutres exemplaires originaux sont filmés en commençant par la première page qui comporte une empreinte d'impression ou d'illustration et en terminant par la dernière page qui comporte une telle empreinte.

Un des symboles suivants apparaîtra sur la dernière image de chaque microfiche, selon le cas: le symbole → signifie "A SUIVRE", le symbole ▼ signifie "FIN".

Les cartes, planches, tableaux, etc., peuvent être filmés à des taux de réduction différents.

Lorsque le document est trop grand pour être reproduit en un seul cliché, il est filmé à partir de l'angle supérieur gauche, de gauche à droite, et de haut en bas, en prenant le nombre d'images nécessaire. Les diagrammes suivants illustrent la méthode.

1	2	3		1
				2
				3
	1	2	3	
	4	5	6	

Two

adami, J. H.

TWO CASES OF COMPLETE

DOUBLE URETER.

BY

J. G. ADAMI, M.A. M.D.,

Professor of Pathology, McGill University, Pathologist to the Royal Victoria Hospital.

J. L. DAY, B.A.

Reprinted from the Montreal Medical Journal, April, 1894.

TWO CASES OF COMPLETE DOUBLE URETER.*

By J. G. ADAMI, M.A., M.D.

Professor of Pathology, MoGill University, Pathologist to the Royal Victoria Hospital,

J. L. DAY, B.A.

Although the condition of multiple ureters is one of comparatively frequent occurrence, it would seem that in nearly all the cases recorded of this abnormality fusion of the ureters, forming a single canal, had taken place before perforation of the bladder wall. The entrance into the bladder of accessory ureters by separate openings, is a condition which authorities on the subject are unanimous in regarding as extremely rare. Gangolphe² states that in his search of medical literature, he was able to find only two examples. His search must have been incomplete, for we have met with about a dozen recorded cases in all—sufficiently few, however, to merit that the two cases in hand be described.

Of these one was discovered in a recent autopsy at the Royal Victoria Hospital on the body of a man aged 65. The right kidney in this case was normal; the left exhibited more than one abnormality. There were two renal arteries. The upper of small size, was given off from the side of the aorta just above the level of the cocliac axis. This passed into the substance of the cortex³ of the upper part of the kidney upon its anterior and upper surface, and half way along its course gave off the left suprarenal artery. The main renal artery left the aorta at its normal point of origin, and divided into three branches, of which the lowest passed in front of the renal vein, and sub-divided into three branches.

The kidney presented two pelves. The ureter of the upper one, which was the smaller, passed down behind the vessels, and crossed in front of the inferior ureter. Half an inch before reaching the bladder wall the ureters became fused externally, but at the same time the canals remained distinct. It was not possible to pass a pin probe from one to the other, nor could fluid injected into one ureter be found to pass into

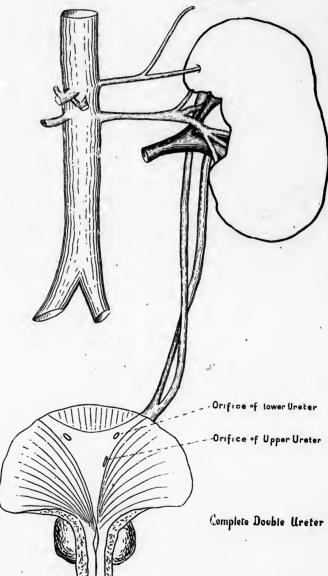
^{*} Read before the Montreal Medico-Chirurgical Society, February, 1894,

¹ Klebs Path. Anat. ii, page 678 (1876); Rokitansky Path. Anat. Syd. Soc. ii, p. 211; Foerster Path. Anat. p. 523 (1865).

² Lyon Médicale, No. 26, 1883.

³ An artery piercing the cortex is said to occur in 1 in 7 bodies examined.

Art. Suprarenal.



the other under any conditions. The ureter given off from the lower pelvis may be considered as the main duet, inasmuch as it was slightly larger, while its opening into the bladder was in the usual position, and corresponded to that of the single ureter of the right side. The superior and accessory ureter opened into the bladder by means of a small, but distinct, slit-like aperture, situated half an inch below, and to the inner side of the main orifice in the line between that and the urethral orifice.

The second case is a specimen obtained from a female body by Dr. Shepherd, of McGill University. This has, for many years, been in the Museum of the Medical college, and has never been recorded.

With the exception that the kidney here presents a more clearly lobulated appearance, and that there is no arterial abnormality, the case is almost identical with the preceding. The reduplication occurs only on the left side, there are two pelves, the upper being the smaller, the superior ureter crosses in front of the inferior, and its separate orifice is also along the edge of the Trigone, in front, and to the inner side of the main orifice, between that and the urethra.

It is a curious fact that in nearly all the recorded cases of this peculiarity it has occurred in the left side. The two cases just mentioned are on the left side; 'Tangl's' celebrated case, and Gangolphe's' likewise occurred on this side. Baum' has lately published a case in which it occurred on the right side. There may be no special significance to be attached to this left sided tendency, but still it appears to obtain.

¹ Virchow's Archiv. 118 (1889) p. 414.

² Loc. cit.

³ Archiv. of Gynœkol. 42, p. 339 (1892).

