

京都市立病院泌尿器科における3年間(1987~1989年)の入院患者および手術統計

京都市立病院泌尿器科(副院長:小松洋輔)

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CLINICAL STATISTICS OF THE PATIENTS ADMITTED TO THE DEPARTMENT OF UROLOGY, KYOTO CITY HOSPITAL

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A statistic survey was made on the patients, diseases and operations experienced at the Urological ward of Kyoto City Hospital between 1987~1989.

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Key words: Clinical statistics, Inpatients, Kyoto City Hospital

緒 言

1987年1月から1989年12月までの間に入院した患者を対象とした。疾患分類および手術術式の記載方法は前回と同様である¹⁾。

成績ならびに注釈

I. 入院患者数 (Table 1)

1989年には著しく減少した。尿路結石患者の減少に加えて、医師の新旧交代、病院改築に伴う仮設外来棟での診療など悪い条件が重なった。

II. 疾患別統計

1 腫瘍ならびに関連疾患 (Table 2)

尿管の fibroepithelial polyp は腎盂尿管移行部にヒトデの触手状に発生したものであった。精巣成熟奇形腫は成人例で約2年後に後腹膜腔に転移し大きな腫瘤を形成した。骨盤脂肪腫症は手術を行わずに経過観察中である。

2. 尿路性器奇形 (Table 3)

Hydronephrosis of lower moiety in incomplete duplex systems は下半腎所属尿管の尿管合流部直前での狭窄によるものである。

3. 尿路結石と関連疾患 (Table 4)

4. 内分泌疾患 (Table 5)

副甲状腺腺腫は生化学型である。副腎腺腫は非機能性であった。hypergonadotropic hypogonadism は micropenis があり、肉眼的に精巣はなく組織学的に痕跡的に精巣組織を認め、rudimentary testis syndrome²⁾ である可能性がある。真性半陰陽は核型 46, XY で、右卵巢、左精巣の lateral type であった。

5. 炎症および感染 (Table 6)

Allergic ureteritis は acetoaminophen の長期連用によると考えられる症例である。emphysematous cystitis は非糖尿病患者で家族性アミロイド性多発性神経障害の患者にみられた。

6. 特異性炎症 (Table 7)

陰茎梅毒は陰茎癌の疑いで紹介をうけた。

7 閉塞および停滞 (Table 8)

8. 陰嚢内疾患 (Table 9)

9. 損傷と関連疾患 (Table 10)

10. 女性泌尿器疾患 (Table 11)

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Table 1. Age and Sex Distribution

Years	1987			1988			1989		
	M	F	T (%)	M	F	T (%)	M	F	T (%)
0~9	36	3	39 (11.9)	23	7	30 (9.7)	26	7	33 (12.8)
10~19	19	8	27 (8.2)	7	4	11 (3.5)	3	2	5 (1.9)
20~29	5	5	10 (3.0)	8	6	14 (4.5)	8	1	9 (3.5)
30~39	20	6	26 (7.9)	10	7	17 (5.5)	6	3	9 (3.5)
40~49	27	14	41 (12.5)	15	7	22 (7.1)	18	6	24 (9.3)
50~59	31	9	40 (12.2)	38	27	65 (21.0)	23	7	30 (11.6)
60~69	42	11	53 (16.2)	37	12	49 (15.9)	42	12	54 (20.9)
70~79	60	11	71 (21.6)	64	18	82 (26.5)	61	10	71 (27.5)
80~89	15	6	21 (6.4)	15	4	19 (6.1)	16	5	21 (8.1)
90~	—	—	—	—	—	—	1	1	2 (0.8)
total	255	73	328	217	92	309	204	54	258

Table 2. Tumors and Related Disorder

	1987	1988	1989
Parathyroid gland			
Adenoma	1	—	—
Hyperplasia	—	1	—
Adrenal gland			
Adrenocortical adenoma	—	1	—
Kidney and Ureter			
Renal cell carcinoma	6	11	9
Angiomyolipoma	—	1	—
Renal pelvic and/or ureteral carcinoma	6	4	—
Fibroepithelial polyp of ureter	—	1	—
Pseudorenal tumor	—	1	—
Bladder			
Carcinoma	42	42	55
Urethra			
Carcinoma	1	—	3
Prostate			
BPH	31	39	40
Carcinoma	23	17	20
Penis			
Carcinoma	—	3	—
Testis and Tunics			
Seminoma	2	2	1
Non-seminomatous carcinoma	1	4	2
Mature teratoma	1	—	—
Non-Hodgkin's lymphoma	—	2	—
Unclassified testicular tumor	1	1	—
Liposarcoma of spermatic cord	—	—	1
Intrascrotal lipoma	—	—	1
Pelvis			
Pelvic lipomatosis	—	1	—

Table 3. Congenital Disorders

	1987	1988	1989
Kidney			
Hydronephrosis			
UPJ stenosis	1	5	—
Lower moiety in incomplete duplex systems	—	1	—
Simple cyst	2	2	3
Ureter			
Ureterocele of upper moiety in complete duplex systems	—	2	—
Ectopic opening ureter of upper moiety in complete duplex systems	—	1	1
Vesicoureteral reflux	2	6	3
Retrocaval ureter	1	—	—
Megaureter	1	—	—
Urethra			
Hypospadias	8	6	2
Chordee without hypospadias	—	—	1
Urethral diverticulum	—	—	1

	1987	1988	1989
Penis			
Phimosis	8	5	8
Testis			
Cryptorchidism	12	8	11
Monorchism	—	—	2

Table 4. Calculous and Related Disorder

	1987	1988	1989
Kidney and/or Ureter	49	47	16
Calyceal diverticulum	1	—	—
Bladder	4	8	2
Urethra	2	—	1
distal RTA	2	2	—
Hyperthyroidism	1	—	—

Table 5. Endocrine Diseases

	1987	1988	1989
Panhypopituitarism due to suprasellar tumor	2	—	—
Hypogonadotropic hypogonadism	1	1	—
Hypergonadotropic hypogonadism	—	—	1
Hyperparathyroidism	1	1	—
Adrenal carcinoma recurrence	1	—	—
Adrenal adenoma	—	1	—
S/O Pheochromocytoma	—	1	—
Congenital adrenal hyperplasia	4	3	5
Delayed puberty	1	1	1
True hermaphroditism	1	—	—
Anorchia	1	—	—

Table 6. Inflammation and Infection

	1987	1988	1989
Acute pyelonephritis	13	9	5
Acute lobar nephronia	—	1	—
Renal abscess	1	—	—
Xanthogranulomatous pyelonephritis	—	1	—
Regional ureteritis	1	1	—
Allergic ureteritis	1	1	—
Acute cystitis	—	2	—
Allergic cystitis (Tranilast)	1	—	—
Emphysematous cystitis	—	—	1
Balanitis	—	1	—
Acute prostatitis	7	4	6
Prostatic abscess	1	—	—
Acute epididymitis	2	5	2
Fournier's gangrene	—	1	—
Infectious hydrocele	—	1	—
Urinary mycosis	—	1	—
Chyluria	1	—	—
Foreignbody granuloma	—	—	1

Table 7. Specific Inflammation

	1987	1988	1989
Kidney, Ureter tuberculosis	1	—	1
Penile syphilis	1	—	1

Table 8. Obstruction and Stasis

	1987	1988	1989
Bladder neck contracture	3	2	3
Bladder diverticulum	—	1	2
Neurogenic bladder	1	—	1

Table 9. Disorders of Scrotal Contents

	1987	1988	1989
Hydrocele testis	8	2	4
Infectious hydrocele testis	—	1	—
Hydrocele of spermatic cord	3	—	—
Spermatocele	4	—	1
Epididymal cyst	1	1	—
Cyst in cavum testis	1	—	—
Granuloma of spermatic cord	1	—	—
Scrotal cyst	—	1	—

Table 10. Injuries and Related Disorders

	1987	1988	1989
Renal contusion	—	1	—
Renal laceration (follow up)	1	—	—
Spontaneous rupture of renal pelvis	—	—	1
Ureteral injury during TUL	1	—	—
Ureteral injury during placement of aortobilateral femoral graft	—	—	1
Ureteral stricture due to invasion of carcinoma of other organ (stomach, rectum and uterus)	—	1	3
Ureteral stricture after TUL	1	—	—
Ureteral stricture (unknown origin)	—	—	1
Ureterovaginal fistula after radical hysterectomy	1	—	—
Bladder invasion of sigmoid colon carcinoma	1	—	—
Bladder metastasis of gastric carcinoma	1	—	—
Bladder bleeding	—	—	1
Vesicosigmoid fistula due to sigmoid diverticulitis	—	—	1
Urethral stricture	5	6	6
Posterior urethral stricture after pelvic fracture	—	1	—
Urethral bleeding	1	—	1
Testicular rupture	—	—	1
After vasectomy	1	—	—
Abdominal incisional hernia	1	—	—

Table 11. Female Urologic Disorders

	1987	1988	1989
Cystocele	1	2	—
Urethral prolapse	3	1	2
Caruncle	4	3	3
Urethral hemangioma	—	1	—
Skene's duct cyst	1	2	1
Paraurethral abscess	1	—	—
Urinary retention	1	5	2
Urinary incontinence	1	—	—
Inflammatory labial fusion	—	1	1

Table 12. Renal Failure

	1987	1988	1989
Chronic	15	17	11
Acute	1	—	—

Table 13. Circulatory Disturbance

	1987	1988	1989
Renal A-V malformation	—	1	—
Renal artery stenosis with non-functioning kidney	—	—	1
Testicular torsion	—	1	—
Varicocele testis	4	3	—

Table 14. Hematuria and Hemospermia

	1987	1988	1989
Idiopathic renal hematuria	14	3	3
Hemospermia	—	—	1

Table 15. Miscellaneous

	1987	1988	1989
Glomerulonephritis	1	3	—
Albuminuria	—	1	—
Meningitis	—	1	—
Inguinal hernia	1	—	—
Cervical carcinoma	1	—	—
Crohn's disease	1	—	—
Acute hepatitis	—	—	1
Typhoid fever	—	—	1
Hemolytic anemia	—	—	1
Familial amyloid neuropathy	—	—	1

Table 16. Operation for Tumors and Related Disorders

	1987	1988	1989
Parathyroid adenoma	1	—	—
Parathyroid hyperplasia	—	1	—
Parathyroidectomy	1	1	—
Adrenocortical adenoma	—	1	—
Thoracoabdominal adrenalectomy	—	1	—
Renal cell carcinoma			
Radical nephrectomy	4	7	4
Radical nephrectomy and inferior venacavotomy with resection of tumor thrombus	—	1	—
Renal pelvic and/or ureteral carcinoma			
Nephroureterectomy with resection of bladder cuff	5	3	—
Partial ureterectomy and ureterovesicostomy	1	—	—
Fibroepithelial polyp of ureter			
Partial ureterectomy and pyeloplasty	—	1	—
Bladder carcinoma			
TUR-Bt	22	24	35
TUC	—	2	—
Simple cystectomy and ileal conduit	—	—	1
Female radical cystectomy and ileal conduit	2	1	2
Female radical cystectomy and Indiana pouch	—	—	1
Radical cystectomy and ileal conduit	2	2	1
Radical cystectomy and ileocystoplasty (Camey)	1	—	—
Radical cystourethrectomy and Kock's pouch	1	—	—
Radical cystourethrectomy and ileal conduit	—	—	1
Radical cystourethrectomy and Indiana pouch	—	—	1
Ileal conduit only	—	—	1
PNS	2	1	—
Urethral carcinoma			
Penectomy	—	—	1
TUR	1	—	2

	1987	1988	1989
BPH			
TUR-P	18	18	28
TUI	—	11	3
Retropubic subcapsular prostatectomy	7	4	5
Prostatic carcinoma			
Radical retropubic prostatectomy	2	—	1
Retropubic simple prostatectomy	—	1	—
TUR-P	2	—	2
Castration	6	6	8
Penile carcinoma			
Partial penectomy and sentinel node biopsy	—	2	—
Testicular tumor			
High inguinal orchiectomy	4	8	2
Retroperitoneal lymph node dissection	1	2	1
Enucleation of tumor	1	—	—
Intrascrotal tumor			
Resection	—	1	2

Table 17. Operations for Congenital Disorders

Hydronephrosis			
UPJ stenosis			
Pyeloplasty (Anderson-Hynes)	1	5	—
Lower moiety in incomplete duplex system			
Pyeloureterostomy	—	1	—
Simple renal cysts			
Percutaneous puncture, aspiration and injection of ethanol	2	3	3
Ureterocele of upper moiety in complete duplex systems			
Pyeloureterostomy, upper ureterectomy and ureterovesicostomy of lower ureter	—	2	—
Ureterocelelectomy	1	—	—
Ectopic opening ureter of upper moiety in complete duplex systems			
Heminephroureterectomy and ureterovesicostomy	—	—	1
Retrocaval ureter			
Ureteroureterostomy	1	—	—
Megaureter			
Ureteroileoceococystoplasty	1	—	—
VUR			
Ureterovesicostomy (Cohen)	2	6	3
Hypospadias			
One stage repair	3	2	—
Two Stage repair	2	—	—
Phalloplasty	1	—	—
Urethroplasty	1	1	—
Closure of fistula	1	2	2
Chordee without hypospadias			
One stage repair	—	—	1
Urethral diverticulum			
Resection	—	—	1
Parameatal cyst			
Uncapping of cyst	2	—	—
Phimosis			
Circumcision	—	—	1
Dorsal incision	8	5	7
Cryptorchidism			
Orchidopexy	12	8	11
Monorchism			
Exploration	—	—	2

Table 18. Operations for Stones

	1987	1988	1989
Renal stone			
PNL	3	8	5
PNS	—	1	—
Ureteral stone			
Ureterolithotomy	3	1	1
PNS	—	1	2
PNL	3	2	—
TUL	15	6	—
Bladder stone			
Litholapaxy	1	8	2
Cystolithotomy	3	—	—
Urethral stone			
Lithotripsy	1	—	—

Table 19. Operations for Endocrine Diseases

Panhypopituitarism due to suprasellar tumor			
Testicular biopsy	2	—	—
Hypogonadotropic hypogonadism			
Testicular biopsy	—	1	—
Hypergonadotropic hypogonadism			
Exploration	—	—	1
Hyperparathyroidism			
Parathyroidectomy	1	1	—
Adrenal adenoma			
Adrenalectomy	—	1	—
Congenital adrenal hyperplasia			
Reduction clitoroplasty	2	2	1
Reconstruction of external genitalia	—	1	1
Vaginoplasty	3	2	2
Incision of urogenital sinus	—	—	1
Delayed puberty			
Testicular biopsy	1	—	—
True hermaphroditism			
Exploration	1	—	—

Table 20. Operations for Inflammation and Infection

Xanthogranulomatous pyelonephritis			
Nephrectomy	—	1	—
Allergic ureteritis			
Partial ureterectomy and ureteroureterostomy	—	1	—
Partial ureterectomy and renal autotransplantation	1	—	—
Epididymitis			
Epididymectomy	1	—	—
Foreignbody granuloma			
Resection of granuloma	—	—	1

Table 21. Operations for Specific Inflammation

Penile syphilis			
Penile biopsy	1	—	1

Table 22. Operations for Obstruction and Stasis

Bladder neck contracture			
TUI	2	—	1
TUR-BN	1	1	1
YV-plasty of bladder neck	—	1	1
Bladder diverticulum			
Diverticulectomy	—	1	1

Table 23. Operations for Disorders of Scrotal Contents

	1987	1988	1989
Hydrocele testis			
Hydrocele of spermatic cord			
Hydrocelectomy	9	2	4
Sclerosing therapy with Tetracycline	2	—	—
Infectious hydrocele testis			
Orchiectomy	—	1	—
Cyst in cavum testis			
Resection	1	—	—
Spermatocele			
Spermatocelectomy	3	—	1
Sclerosing therapy with Tetracycline	1	—	—
Epididymal cyst			
Resection of cyst	1	1	—
Granuloma of spermatic cord			
Resection	1	—	—
Scrotal cyst			
Resection	—	1	—

Table 24. Operations for Injuries and Related Disorders

Ureteral injury during TUL			
Ureteroplasty using appendix	1	—	—
Ureteral stricture after TUL			
Ureterovesicostomy with psoas hitch	1	—	—
Ureteral stricture due to invasion of carcinoma of other organ (stomach, rectum and uterus)			
PNS	—	1	3
Ureteral stricture (unknown origin)			
PNS	—	—	1
Ureterovaginal fistula after radical hysterectomy			
Ureterovesicostomy	1	—	—
Vesicosigmoid fistula due to sigmoid colon diverticulitis			
Closure of fistula	—	—	1
Urethral stricture			
Internal urethrotomy	3	2	5
End to end anastomosis	—	—	1
Bougienage	1	1	—
Posterior urethral stricture after pelvic fracture			
Posterior urethroplasty	—	1	—
Testicular rupture			
Suture of albuginea	—	—	1
After vasectomy			
Vasovasostomy	1	—	—
Abdominal incisional hernia			
Repair using Marlex mesh	1	—	—

Table 25. Operations for Female Urologic Disorders

Cystocele			
Anterior colporrhaphy	1	2	—
Urethral prolapse			
Resection	3	1	2
Caruncle			
Resection	3	2	3
Urethral hemangioma			
Resection	—	1	—
Skene's duct cyst			
Malsupialization	—	2	1
Paraurethral abscess			
Malsupialization	1	—	—

	1987	1988	1989
Urinary incontinence			
Endoscopic bladder neck suspension (Stamey)	1	—	—
Inflammatory labial fusion			
Ablation	—	1	1

Table 26. Operation for Chronic Renal Failure

A-V Fistula formation	10	11	7
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Table 27. Operations for Circulatory Disturbance

Testicular torsion			
Orchiectomy	—	1	—
Varicocele testis			
High ligation	4	3	—

Table 28. Operations for Miscellaneous Disorders

Glomerulonephritis			
Renal biopsy (US guided)	—	3	—
Open renal biopsy	1	—	—
Inguinal hernia			
Herniorrhaphy	1	—	—

Inflammatory labial fusion は小陰唇の癒着で小児と老人にみられた。

11. 腎不全 (Table 12)
12. 循環障害 (Table 13)

A-V malformation は angiomatous malformation である。

13. 血尿と血精液症 (Table 14)
14. その他の疾患 (Table 15)

腸チフスは急性前立腺炎の疑いで入院中に尿中にチフス菌が検出された。

Ⅲ. 手術統計

1. 腫瘍に対する手術 (Table 16)

膀胱全摘後の尿路変更術として貯留式の Kock's pouch, Indiana pouch および排尿式の Camey 法を行った。

2. 尿路性器奇形に対する手術 (Table 17)

重複腎盂尿管に伴う奇形に対して、上下の腎盂あるいは尿管に腎盂尿管吻合を行った。両側性巨大尿管には回盲部膀胱形成術で対処した。

3. 尿路結石に対する手術 (Table 18)

ESWL の保険適用に伴って尿路結石に対する内視鏡手術までもが減少した。

4. 内分泌疾患に対する手術 (Table 19)

先天性副腎皮質過形成における外生殖器形成術を他院で受けたが、形態が醜いために修復術を行った症例が2例ある。

5. 炎症に対する手術 (Table 20)

Allergic ureteritis による尿管狭窄に対しては上部尿管を約 10 cm 切除する必要があったので、患側腎は自家腎移植とした。

6. 特異的炎症に対する手術 (Table 21)

7 閉塞および停滞に対する手術 (Table 22)

膀胱頸部の Y-V 形成術は膀胱憩室に対する手術と同時にを行った。

8. 陰嚢内疾患に対する手術 (Table 23)

9. 損傷および関連疾患に対する手術 (Table 24)

TUL の術中に上部尿管を損傷し、6 cm の尿管欠損を生じた症例において、有茎性の虫垂を代用尿管に用いて成功した²⁾

10. 女性泌尿器疾患に対する手術 (Table 25)

Endoscopic bladder neck suspension を行ったのは尿失禁に対して6年前に Marshall-Marchetti-Krantz operation を行い再発した症例である。

11. Blood access の手術 (Table 26)

12. 循環障害に対する手術 (Table 27)

13. その他の手術 (Table 28)

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