

TMU-Research Center of Urology and Kidney Monthly Meeting

Times: 2023/12/26(Tuesday) 11:00-12:00

Google meet link: https://meet.google.com/dsz-cdre-qsp

Meeting Chairperson: Kuan-Yu Hung

Participant:

【TMUH 】Ming-Che Liu、Yao-Chou Tsai、Shauh-Der Yeh、Chien-Chih Wu、Hsiao-Yu Lin、Jeng-Cheng Wu、Ching-Hsin Chang、Wei-Chieh Chen、Fang-Yu Ku、 Shih-Hsiu Lo、Te-Chao Fang、Hsi-Hsien Chen、Yen-Chung Lin、Yueh-Lin Wu、Chih-Chin Kao、Ching-Yi Chen、Shu-Ching Yeh、TING-EN TAI

【WFH】Yu-Ching Wen、Liang-Ming Lee、Ke-Hsun Lin、Yung-Wei Lin、Chi-Hao Hsiao、Syuan-Hao Syu、Chung-Howe Lai、Chih-Chen Hsu、Tso-Hsiao Chen、Yuh-Mou Sue、Chung-Yi Cheng、Chung-Te Liu、Yun-Hong Yang、Ming-Che Lee、Cho-Hsing Chung

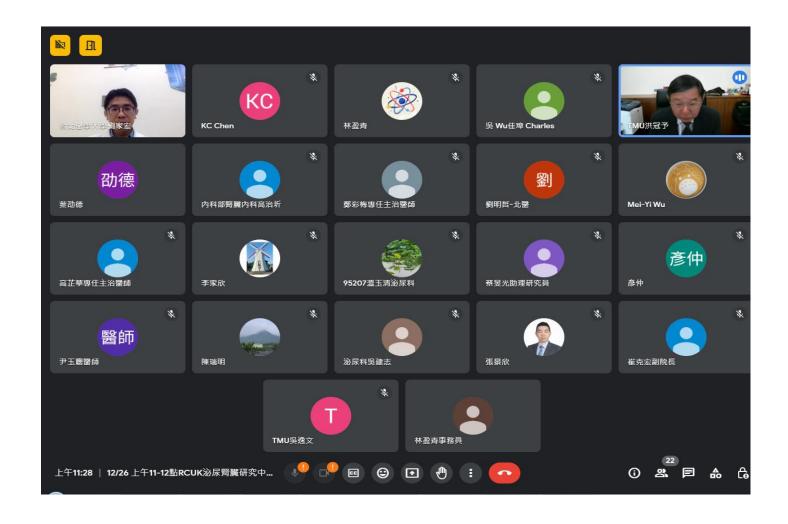
【SHH】Mai-Szu Wu、Chia-Chang Wu、Chia-Hung Liu、Yi-Te Chiang、Kai-Yi Tzou、Wei-Tang Kao、Su-Wei Hu、Wen-Ling Wu、Mei-Yi Wu、Lie-Yee Hung、Cai-Mei Zheng、I-Jen Chiu、Yu-Wei Chen、Chia-Te Liao、Cheng-Hsien Chen、Hui-Wen Chiu、Po-Han Yu、I-Wen Wu、Tze-Wah Kao、Kuan-Hung Lin

【SKMH】Yung-Ho Hsu、Chu-Lin Chou

Chief: Mai-Szu Wu (President, TMU) \ Yen-Hua Huang (Dean, Research and Development, TMU) \ Chih-Cheng Hsu (Professor, NHRI) \ Ke-Hung Tsui (Vice President, SHH) \ Shing-Hwa Lu

Agenda: 1. Urinary and Kidney Cancer Team

2. Kidney Transplant Team





泌尿腎臟癌症團隊

主題: Allium URS(Ureteral Stent) and experience sharing

報告人:劉家宏醫師 112.12.26

泌尿腎臟癌症團隊成員



腺冠州



THE REAL PROPERTY.



温表源





林雍健



国 新 安



江怡省



高傳統



MiV to

團隊開會的照片





泌尿腎臟癌症團隊

主題: Allium URS(Ureteral Stent) and experience sharing

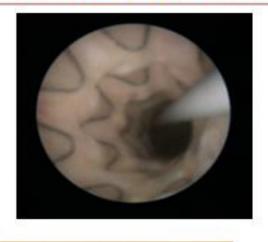
> 報告人:劉家宏 醫師 112.12.26

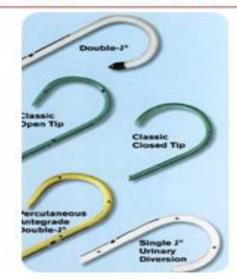


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Allium URS(Ureteral Stent) vs. Double J







- Patency
- 24, 27 & 30Fr

Brief at Ureteral Stents:



- Self-expand Metallic Stent with Nitinol
- Full cover with Co-polymer (Elast Eon ®)
- Radiopaque
- Anchor(URS-A & URS-R)
- MIT device

Ureteral Stents(URS)



Stent with Anchor



Stent without Anchor



Elast Eon®

- Biocompatibility & Biostability
- Silicone + Polyurethane
- Reduce stone formation & encrustation
- Long term implanted material- FDA approved



Intended Use



- Indicated for use in malignant or benign ureteral occlusions necessitating long-term or chronic ureteral stenting
- Uretero-intestinal anastomotic strictures
- Iatrogenic benign strictures of the ureter

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Contraindication



- o under 18
- Has an active urinary tract infection (increased WBC count, fever, chills etc)
- Has a Hematuria that has not been previously evaluated and treated
- o Cannot tolerate any form of antibiotic treatment
- Is receiving any anticoagulation therapy patients should stop it at least a week before stent insertion
- Has a history of allergy to iodine preparations



- Pain/discomfort, bleeding, urinary frequency or urgency, stent misplacement or migration, stent obstruction by tissue or stone, infection, sepsis, allergic reaction to the nickel-titanium alloy
- Mild Hematuria is possibly to occur and related to device insertion, particularly during the first few days after insertion

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RELATED STUDIES



JOURNAL OF ENDOUPIOLOGY Volume 26, Number 11, November 2012 © Mary Ann Liebert, Inc. Pp. 1523–1527 DOI: 10.1089/end.2012.0279

2022-2023 IF:2.619

A New Self-Expanding, Large-Caliber Ureteral Stent: Results of a Multicenter Experience

Boaz Moskovitz, M.D., Sarel Halachmi, M.D., and Ofer Nativ, M.D.

The study aim was to evaluate the safety and the efficacy of a new self-expanding, large caliber ureteral stent (Allium).

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RELATED STUDIES





2022-2023 IF:7.641

New Technology and Techniques

Efficacy and Safety of Complete Intraureteral Stent Placement versus Conventional Stent Placement in Relieving Ureteral Stent Related Symptoms: A Randomized, Prospective, Single Blind, **Multicenter Clinical Trial**

Takashi Yoshida,* Takaaki Inoue, Makoto Taguchi, Tomoaki Matsuzaki, Takashi Murota, Hidefumi Kinoshita and Tadashi Matsuda

The study compared the efficacy and safety of complete and conventional stent placement to relieve ureteralstent related symptoms.

RELATED STUDIES



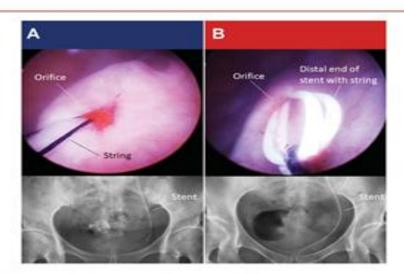
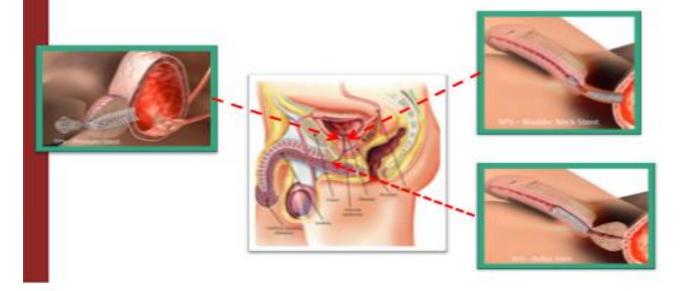


Fig. 1. Cystoscopy and plain radiography images of complete intraureteral (A) and conventional (B) stent placement.

Deployment position-demo graphics



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腎移植團隊

報告人:尹玉聰醫師 指導老師:吳美儀主任

112.12.26

1

Background



- Individuals with solid organ transplantation are more prone to develop tuberculosis (TB) due to long-term immunocompromised status
- Overall incidence of Tuberculosis in transplant recipients is 20-74 times higher than in the general population
- high risk of atypical presentation, extrapulmonary disease (16%) and disseminated TB (33%)
- Drug-drug interaction between anti-TB treatment and immunosuppressive may associated with graft rejection
- Rate of TB in transplant recipients is highly linked to endemicity of M. tuberculosis infection

Sumbacca Dict al. Bur Respir J 2012; 40: 990-1015 (a TSNET consensus statement Singh N, et al. Clin Infect Dis 1998; 27: 1265-77

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Annual Tuberculosis incidence in Taiwan





Study Flow Chart





Patients who underwent organ transplantation were identified via the NHI databaset during 2009-2018 using procedure code as follows: heart transplant (68035A, 68035B), lung transplant (68037A, 68037B, 68047B), liver transplant (75020A, 75020B), kidney transplant (76020A, 76020B), pancreas transplant (75418B).



Subsequent TB infections cases were identified by medical orders with TBrelated ICD-9 code (010-018) or ICD-10 code (A15-A19), All TB were newly infected and had no medical recorders with TB medical orders



Exclusion criteria

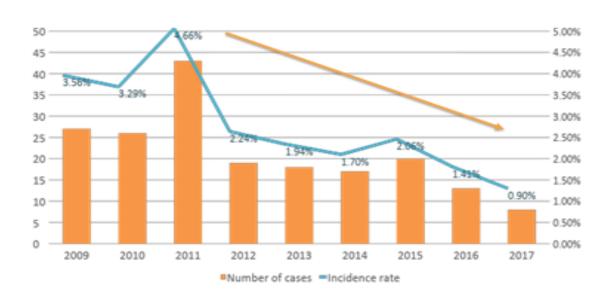
- patient infected with Tuberculosis before 2008 (n = 176)
- age < 18 yrs

End of follow = TB infection, death, end of the study

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Incidence rate of TB among transplant recipients by year of transplantation





Tuberculosis as a risk factor for mortality among transplants



Variable	All Transplants (N=7685, death=1627)		
	TB, Time Dependent	2.529	(1.943, 3.291)
Sex; Male	1.190	(1.067,1.327)	0.0018
Age Group; ref: 18-34			
35-49	1.347	(1.073, 1.690)	0.0102
50-64	1.860	(1.495, 2.314)	<.0001
64+	2.618	(2.003, 3.421)	<.0001
Comorbidities			
Stroke	1.280	(1.088, 1.506)	0.0029
Heart Failure	1.573	(1.372, 1.804)	<.0001
Hypertension	0.857	(0.768, 0.958)	0.0063
Diabetes	1.355	(1.218, 1.507)	<.0001
Dyslipids	0.871	(0.775, 0.979)	0.0205
Cirrhosis	1.277	(1.130, 1.444)	<.0001

Conclusions



- Cumulative incidence of Tuberculosis in Taiwan organ recipients ~ 2.62% (higher than areas with low endemicity 0.5%)
- The rate of post-transplant TB varied by the organ transplanted (highest for lung transplant recipients)
- · Low lipid profile have significant association with TB risk
- Other risk factors for post-transplant TB: male, Age > 65 years
- Risk of mortality higher in organ recipients with TB (HR = 2.53; 1.94~3.29)
- Routine pretransplant screening may help to facilitate optimal intervention