



TMU-Research Center of Urology and Kidney

Monthly Meeting

Times : **2023/7/28(Friday) 14:00-15:00**

Google meet link : <https://meet.google.com/dcd-risz-xew>

Meeting Chairperson : Mai-Szu Wu

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

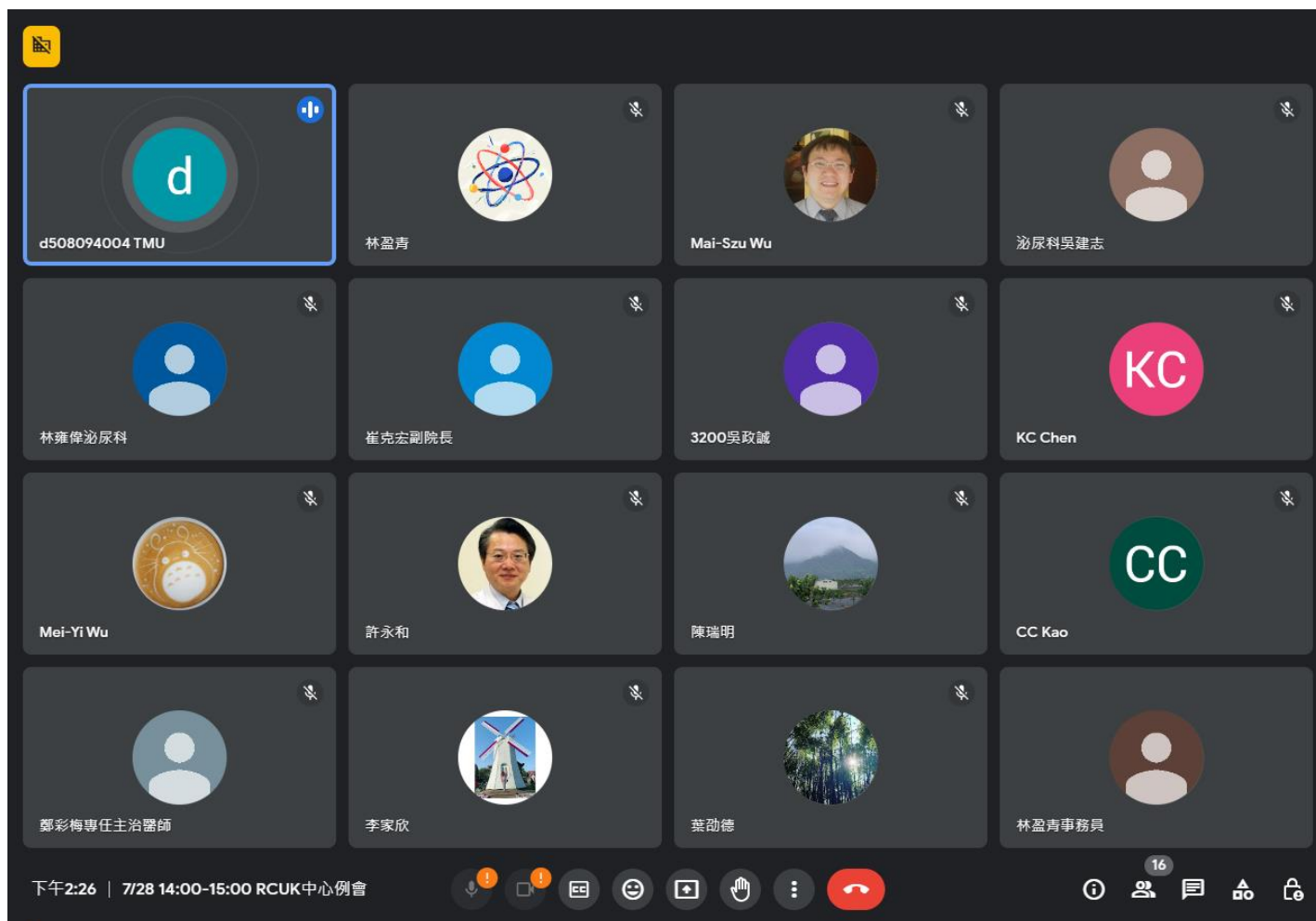
【WFH】Yu-Ching Wen、Liang-Ming Lee、Ke-Hsun Lin、Yung-Wei Lin、Chi-Hao Hsiao、Syuan-Hao Syu、Chung-Howe Lai、Chih-Chen Hsu、Tso-Hsiao Chen、Yuh-Mou Sue、Chung-Yi Cheng、Chung-Te Liu、Yun-Hong Yang、Ming-Che Lee、Cho-Hsing Chung

【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

【SKMH】Yung-Ho Hsu、Chu-Lin Chou

Chief : Chien-Huang Lin (President, TMU)、Yen-Hua Huang (Dean, Research and Development, TMU)、Chih-Cheng Hsu (Professor, NHRI)、Ke-Hung Tsui (Vice President, SHH)

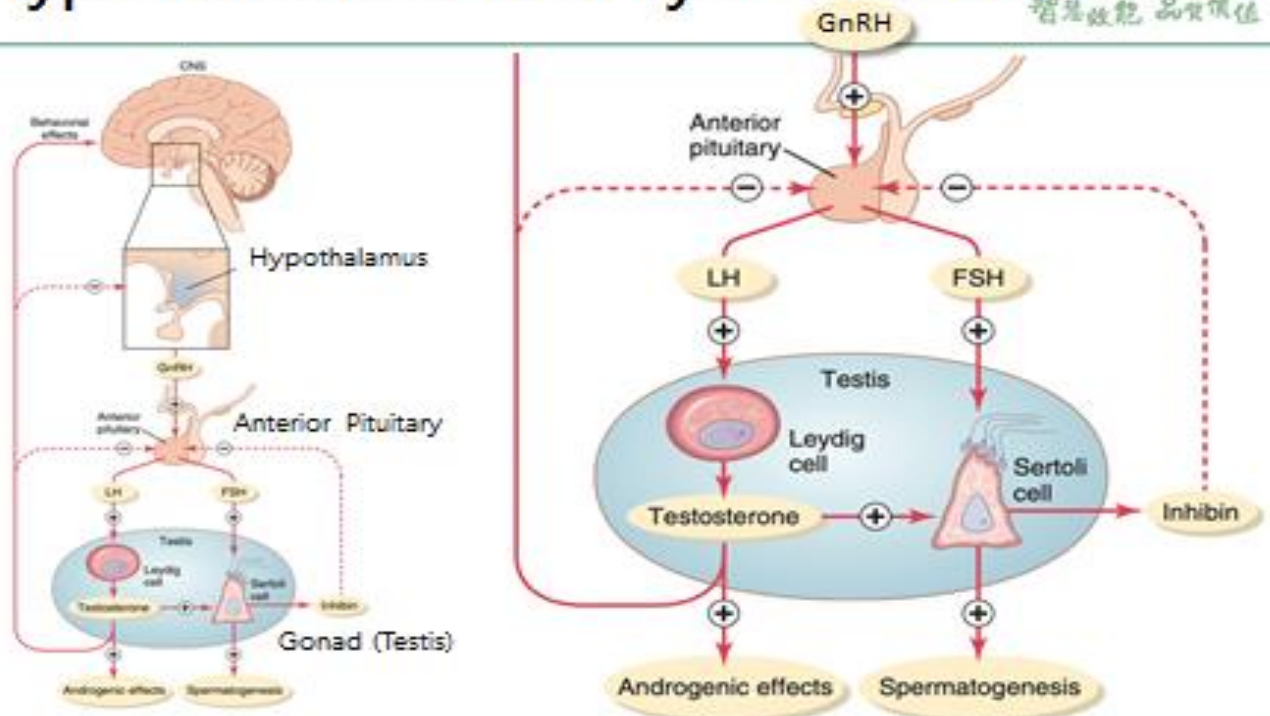
Agenda : Functional urological team



Prediction of Sperm Retrieval Rate - for Evidence of Shared Decision Making

附醫泌尿科 吳建志

Hypothalamus-Pituitary-Gonad Axis



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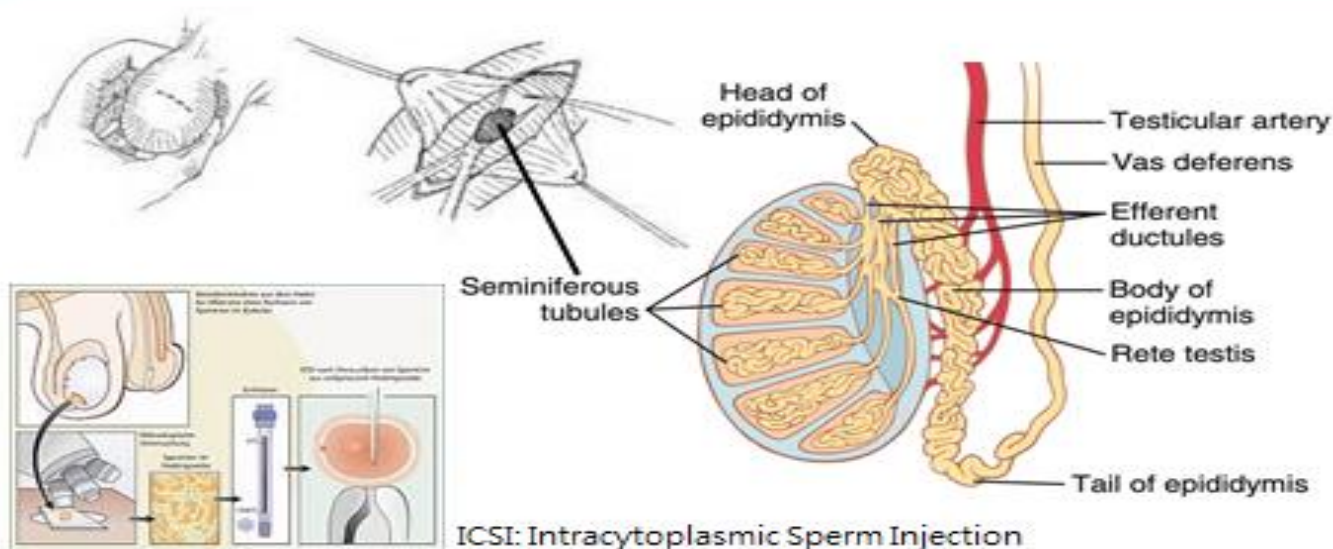
Indication of Sperm Retrieval

- Obstructive Azoospermia (OA)
 - CBAVD (congenital bilateral absence of vas deferens)
 - Post Vasectomy
 - Idiopathic OA
- Non-obstructive azoospermia (NOA)
- Severe OAT/Cryptozoospermia
- Ejaculatory Disorder
 - Anejaculation
 - Retarded ejaculation
 - Retrograde ejaculation

(OAT: oligoasthenotetatratozoospermia)

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Testis Sperm Extraction, TESE



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Clinical manifestations of Azoospermia

Classical Expression

Pre-OP Diagnosis	Testis size	FSH	Result of Sperm Retrieval	
			Sperm count	Motility
OA	N	N	Good	Good/Poor
NOA	S	↑	Not found	-
Severe OAT	N/S	N/↑	Very few	Poor/Non-motile
Ejaculatory	N	N	Good	Good/Poor

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TMUH Sperm Retrieval Rate Data



Pre-OP Diagnosis		Patient No.	% (N = 112)
Obstructive Azoospermia	CBAVD	15	13.4
	Post-Vasectomy	16	14.3
	idiopathic OA	30	26.8
	Subtotal	61	54.5
Ejaculatory Disorder		11	9.8
Severe OAT/Cryptozoospermia		17	15.2
Non-Obstructive Azoospermia (NOA)		23	20.5
Total		112 Pt	100%

• 2017/1 ~ 2023/7

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TMUH Sperm Retrieval Rate Data



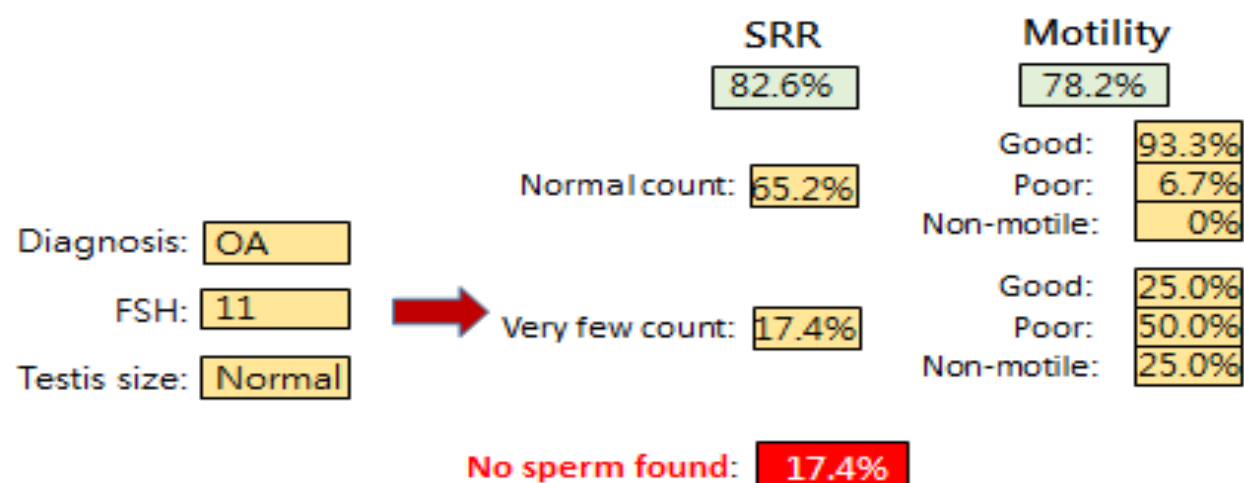
Diagnosis	Patient No.	SRR
Severe OAT/Cryptozoospermia	17	88.2%
NOA	23	43.5%
Total	40 Pt	62.5%

• 2017/1 ~ 2020/3

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Prediction of SRR

Provide for evidence of shared decision making



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Limitation

- Not enough cases
- No IRB approval → Retrospective study
- Clinical data rough and not completely
- Mainly Multiple TESE, instead of microTESE

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