



2023 COLLABORATING FOR BETTER HEALTH:
A MULTI-SPECIALTY CONFERENCE



Organ Transplantation in Wan Fan Hospital

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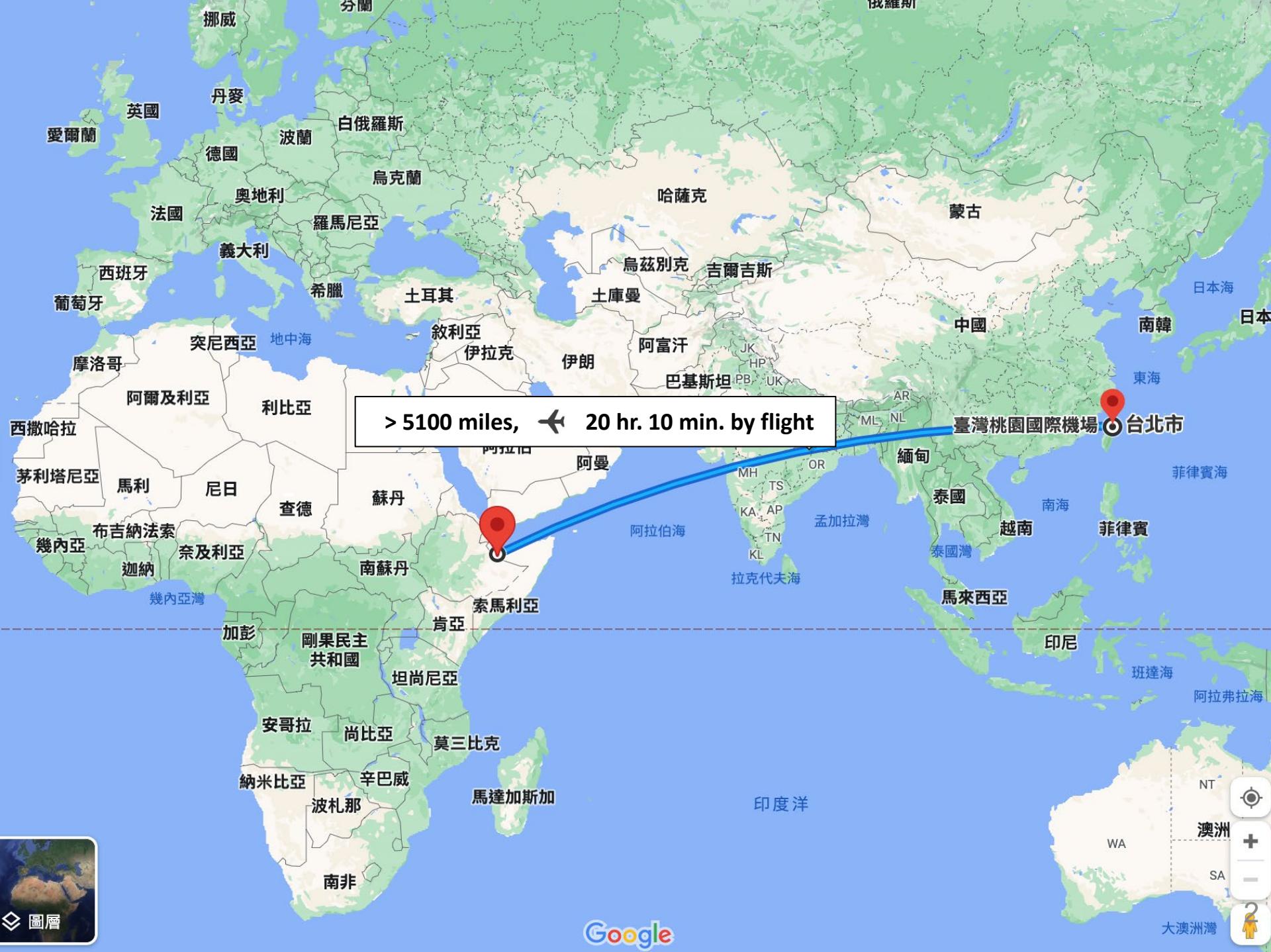
Director, TMU Organ Procurement Organization, Taipei, Taiwan

Director, Organ Transplantation Center, Wan Fang Hospital, Taipei, Taiwan

Chairman, Department of Surgery, Wan Fang Hospital, TMU, Taipei, Taiwan

Professor of Surgery, School of Medicine, College of Medicine, TMU, Taipei, Taiwan

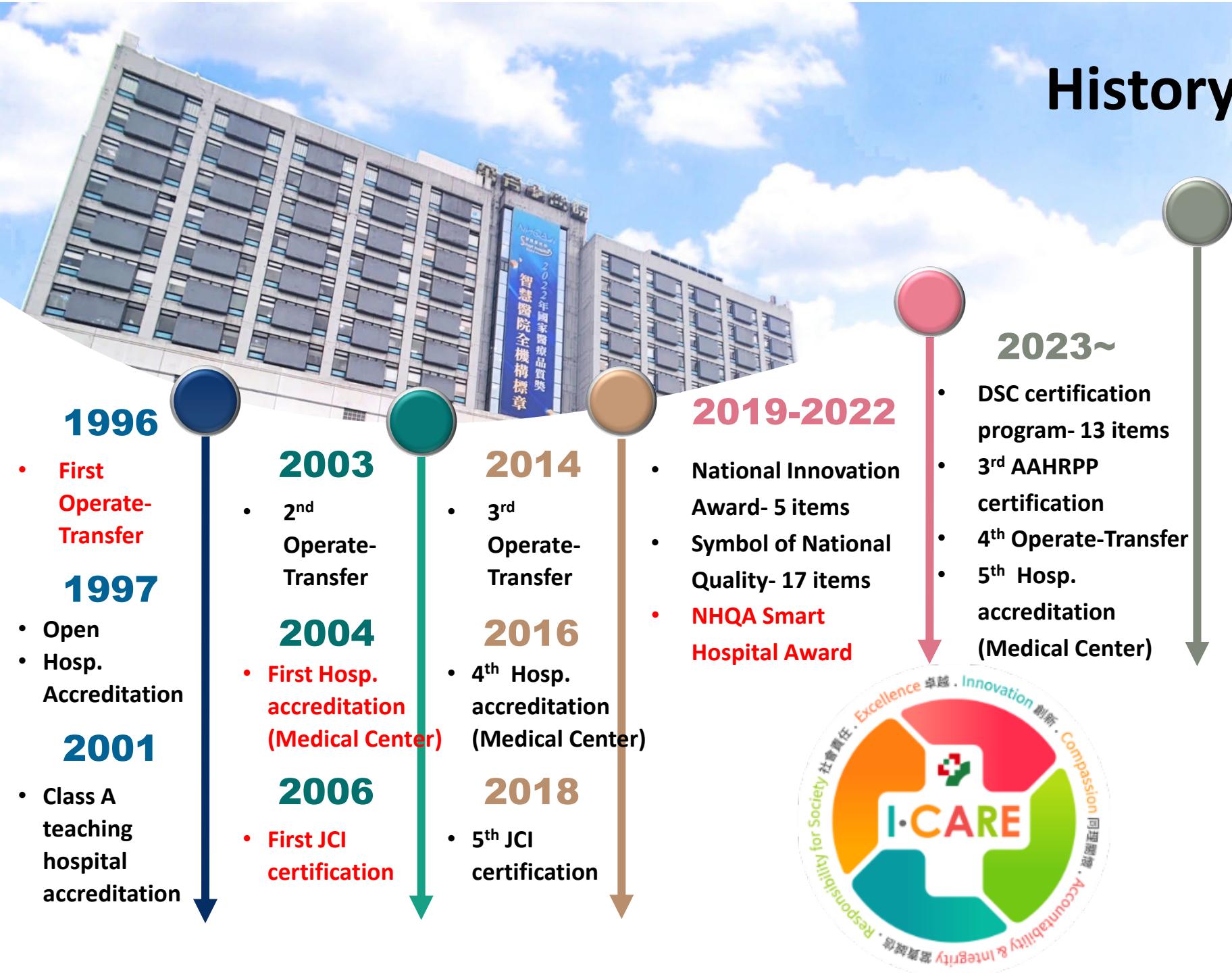
2023 Taiwan-Somaliland Medical Conference, August 13rd 2023, Hargeisa, Somaliland



Taipei Municipal Wan Fang Hospital (WFH)



History



Vision



To be a well-known international high-quality Medical Center
to provide comprehensive medical care for all

Scales

Category		
General ward	Acute care	Acute general bed 500
		Acute psychiatric bed 38
	Sum	538
Special ward	Intensive care unit	50
	Burn unit	4
	Negative pressure isolation unit	12
	Hospice	10
	Pediatric unit	25
	Dialytic unit	61
	Surgical POR	11
	ER unit	33
	Others	6
	Sum	212
Total		750
Operation room		15
Obstetric room		3

Manpower

Category	Number
Physician	473 (Attending 282、resident 191)
Nurse	800
Assistant nurse	61
Medical staff	366
Administrative	389
Others	328
Total	2,417

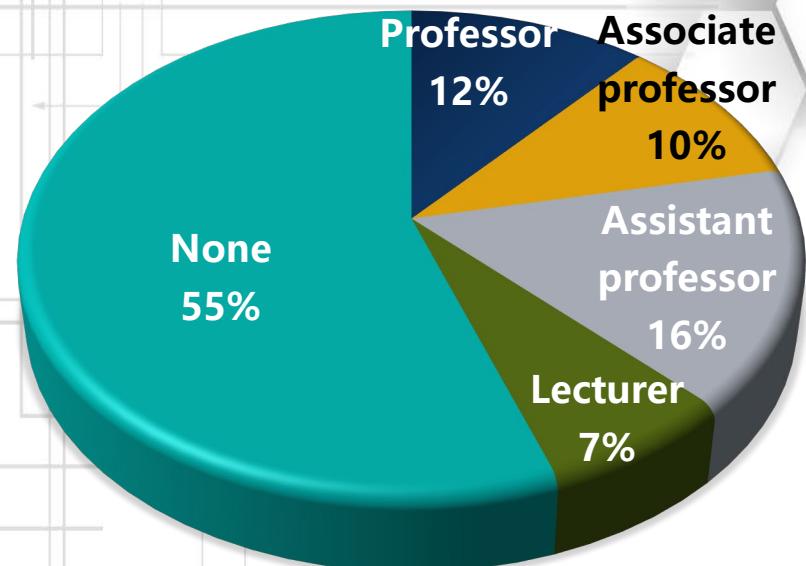
HR Database: 2023.06.01

Academy

Attending Physician	Number
professor	33
Associate professor	29
Assistant professor	45
Lecturer	20
Total	127

Medical staff	Number
professor	1
Associate professor	5
Assistant professor	12
Lecturer	31
Total	49

45% of total attending physician



SMART strategy

Hospital management



Community

Social impact

Medicine

Medical competence

Quality

AI hospital

Innovation

Research innovation

Education

Talent development

My transplant journey I – MC Lee, M.D.



- Transplantation surgery, 1996-2023
 - Kidney transplantation, visiting research fellow
 - National Taiwan University Hospital, Taiwan, 1996. (Prof. Lee PH)
 - Tokyo Women's Medical University Hospital, Japan, 2008. (Prof. Tanabe K.)
 - Liver transplantation, visiting research fellow
 - Thomas E. Starzl Transplantation Institute, University of Pittsburgh Medical Center, USA, 1997. (Prof. Thomas E. Starzl)
 - Kyoto University Hospital, Japan, 2005. (Prof. Egawa H.)
 - Clinical transplantation
 - TCH era (1997.5-2021.6): 173 DDKT, 65 LDKT, 45 DDLT, 36 LDLT
 - TMU era (2021.8-2023.7): 30 DDKT, 17 LDKT, 6 DDLT, 5 LDLT
 - Story is still on going

My transplant journey II – MC Lee, M.D.



- Transplant organization, 2008
 - Member of the Council, The Transplantation Society of Taiwan, Taipei, Taiwan, November 2011 – present.
 - Board of Director, Taiwan Organ Registry and Sharing Center, Taipei, Taiwan, January 2011 – present.
 - President, Organ Donation Association, R.O.C., September 2017 – present.



First organ transplantation in Taiwan

Year	Organ	Institute
1968	Kidney	National Taiwan University Hospital
1984	Liver	Chang Gung Memorial Hospital, Linko
1984	Pancreas	Chang Gung Memorial Hospital, Linko
1987	Heart	National Taiwan University Hospital
1991	Lung	Taipei Veteran General Hospital
2007	Small bowel	Far East Memorial Hospital



Human Organ Transplantation Act

- Promulgated in June 19th 1987, amendment in 2011
- Deceased organ is the priority for organ transplantation
- Declaration of death regarding to brain death
 - Rule for brain death declaration in 1987
 - Guideline for brain death declaration in 2004
- Living donor eligibility
 - Restricted within 3rd degree consanguinity and spouse since 1987
 - Expanded to 5th consanguinity and spouse since 2002



Taiwan Organ Registry and Sharing Center



*Taiwan Organ Registry and Sharing Center
(TORSC)*

- Established on June, 2002
- Establishment of an organ procurement network
- Registration of deceased donors and recipients
- Planning and implementation of organ matching operations after 2005
- Education and training for related medical personnel
- Promotion of organ procurement education

Waiting List

移植醫院等候者移植資料通報（需依病情隨時更新）

TH等候者移植資料通報（需依病情隨時更新）

移植醫院團隊進行評估

移植醫院潛在
等候移植病患
Recipient hospital

登錄中心
全國移植資料電腦登錄系統
(24小時通報)
TORSC

ALLOCATION - TORSC

ALLOCATION - OPO

Organ sharing

**Organ procurement /
transportation /
transplantation**

**Post-transplantation
follow-up**

完成醫學評估後，上網填寫「器官移植等候者登錄表格」

上網填寫「屍體器官捐贈者登錄表格」，電話通知登錄中心，未能於第一次腦死判定後一小時內通報之欄位，應於受贈者接受移植手術七日內完成補登

Organ donation

確認器官捐贈

2nd declaration of brain death

1st declaration of brain death

Inform consent

器官勸募例行探詢

移植醫院及勸募醫院
發現潛在捐贈者
Donor hospital

SOP of organ allocation



Real time registration data

統計日期: 2023-06-06



有效等候接受器官移植病人



本年度接受大愛器官/
組織移植



心臟
250 人 等候中
33 人 已移植



眼角膜
1244 人 等候中
253 人 已移植



腎臟
8233 人 等候中
91 人 已移植



大愛器官捐贈總人數



大愛器官(組織)捐贈
總例數



肺臟
101 人 等候中
12 人 已移植



肝臟
1039 人 等候中
54 人 已移植



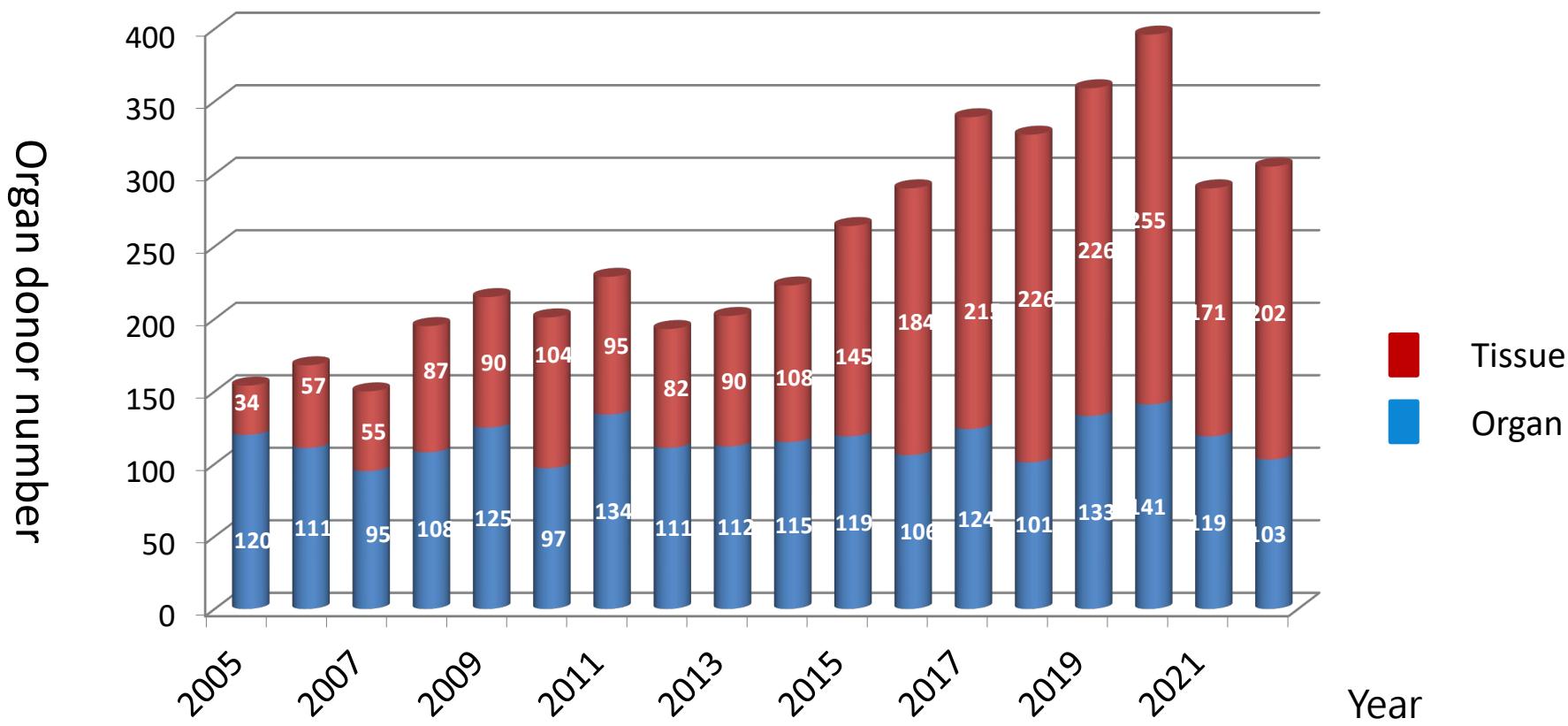
胰臟
82 人 等候中
2 人 已移植



腸
14 人 等候中
0 人 已移植

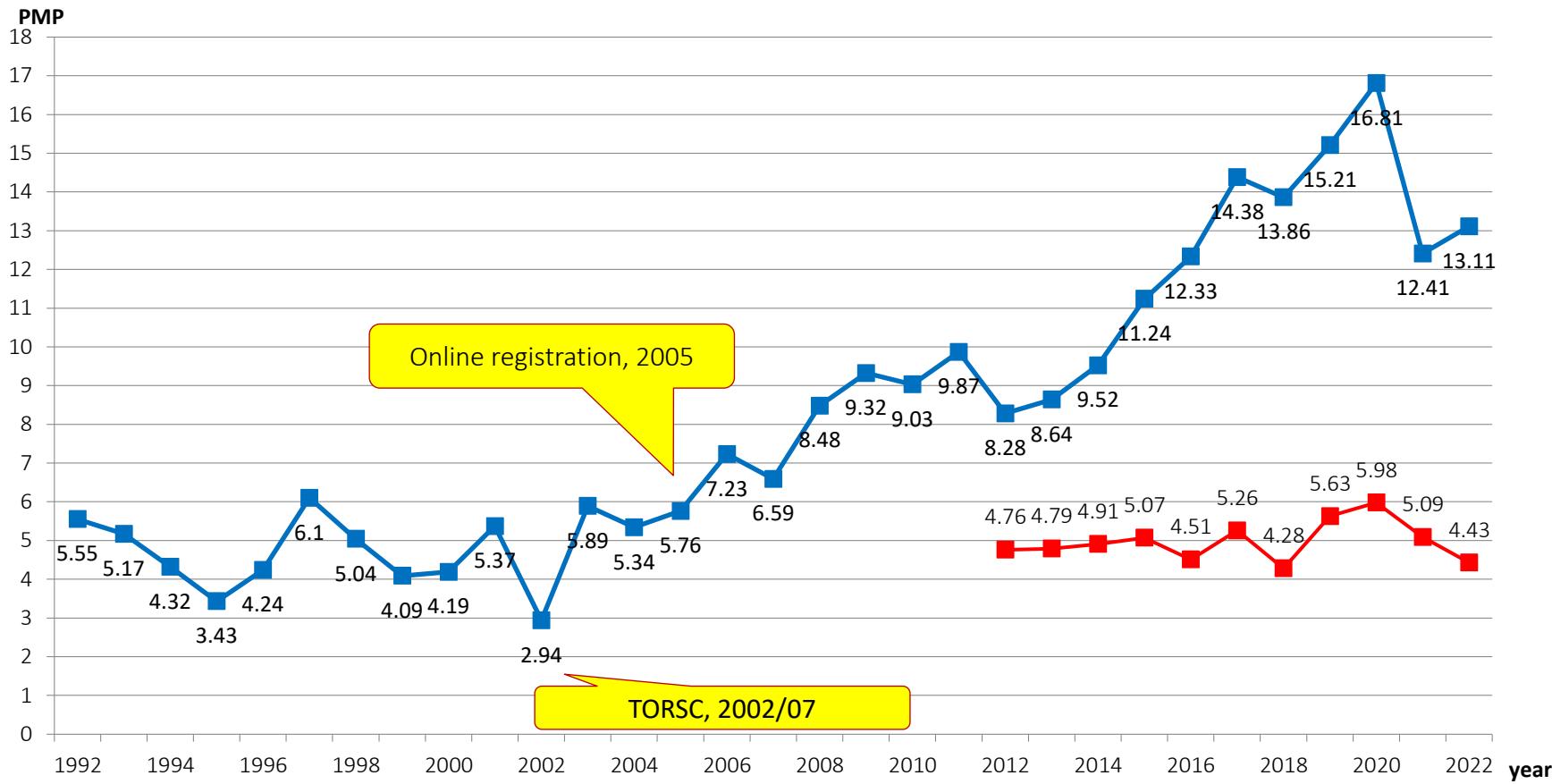


Organ donation number in Taiwan



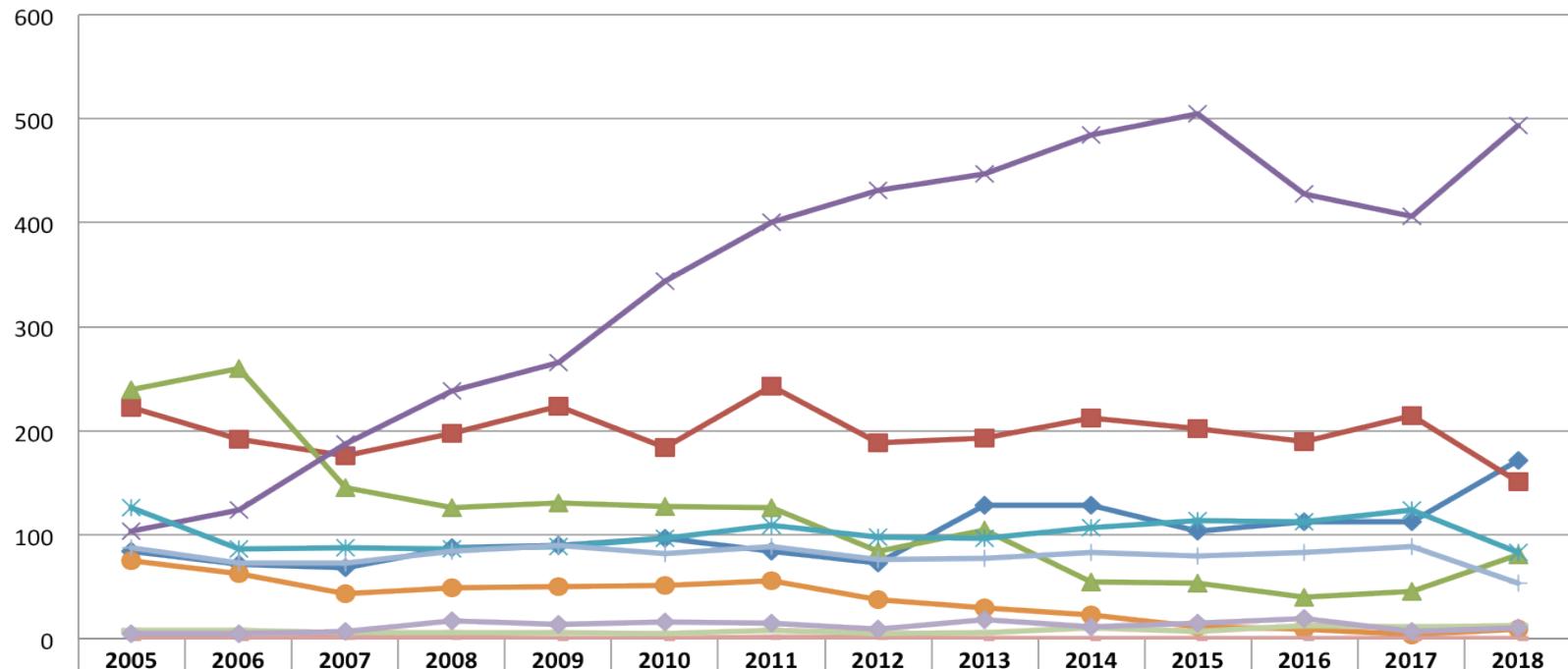
Organ donation rate in Taiwan (PMP)

— blue square — tissue & organ — red square — Organ only



Organ Transplantation in Taiwan

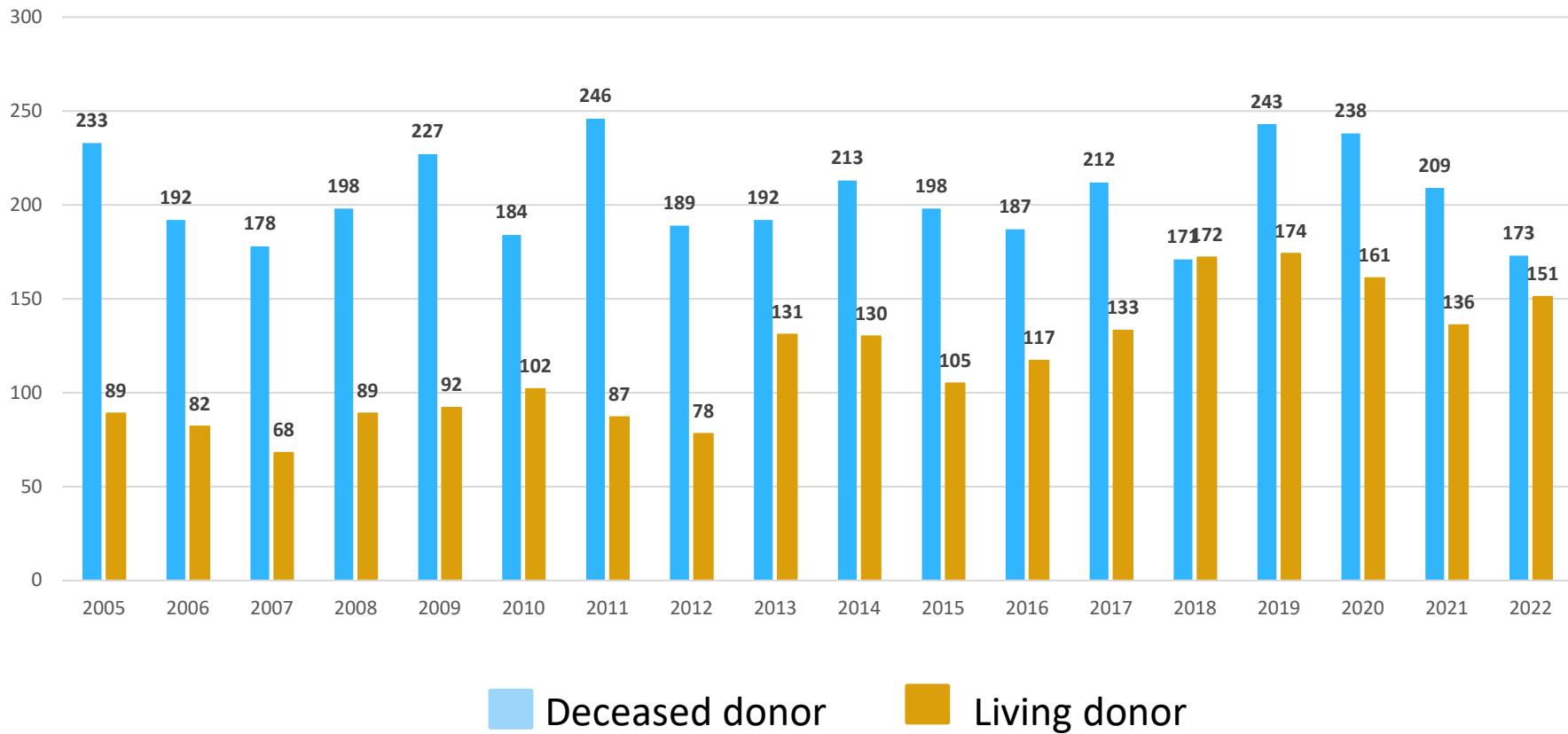
(Source: Taiwan Organ Registry and Sharing Center)



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Kidney Living	84	72	68	88	90	97	84	73	128	128	103	112	112	171
Kidney Cardaver	222	192	176	198	224	184	243	188	193	212	202	190	214	151
Kidney Oversea	240	260	145	126	131	127	126	84	104	55	54	40	45	81
Liver Living	103	124	187	238	266	344	401	431	447	484	505	428	406	494
Liver Cardaver	126	86	88	86	89	97	109	98	97	107	114	112	124	83
Liver Oversea	75	62	43	49	50	51	56	38	30	23	11	9	4	9
Heart Cardaver	87	73	73	84	90	82	89	76	77	83	79	83	89	53
Heart Oversea	0	0	1	1	0	0	1	1	0	0	0	0	0	0
Lung Cardaver	8	8	6	6	6	5	8	5	6	10	7	13	11	13
Pancreas Cardaver	5	5	7	17	14	16	15	9	18	12	15	20	7	10

Kidney transplantation in Taiwan

2005-2022 Kidney transplantation (oversea transplantation excluded)

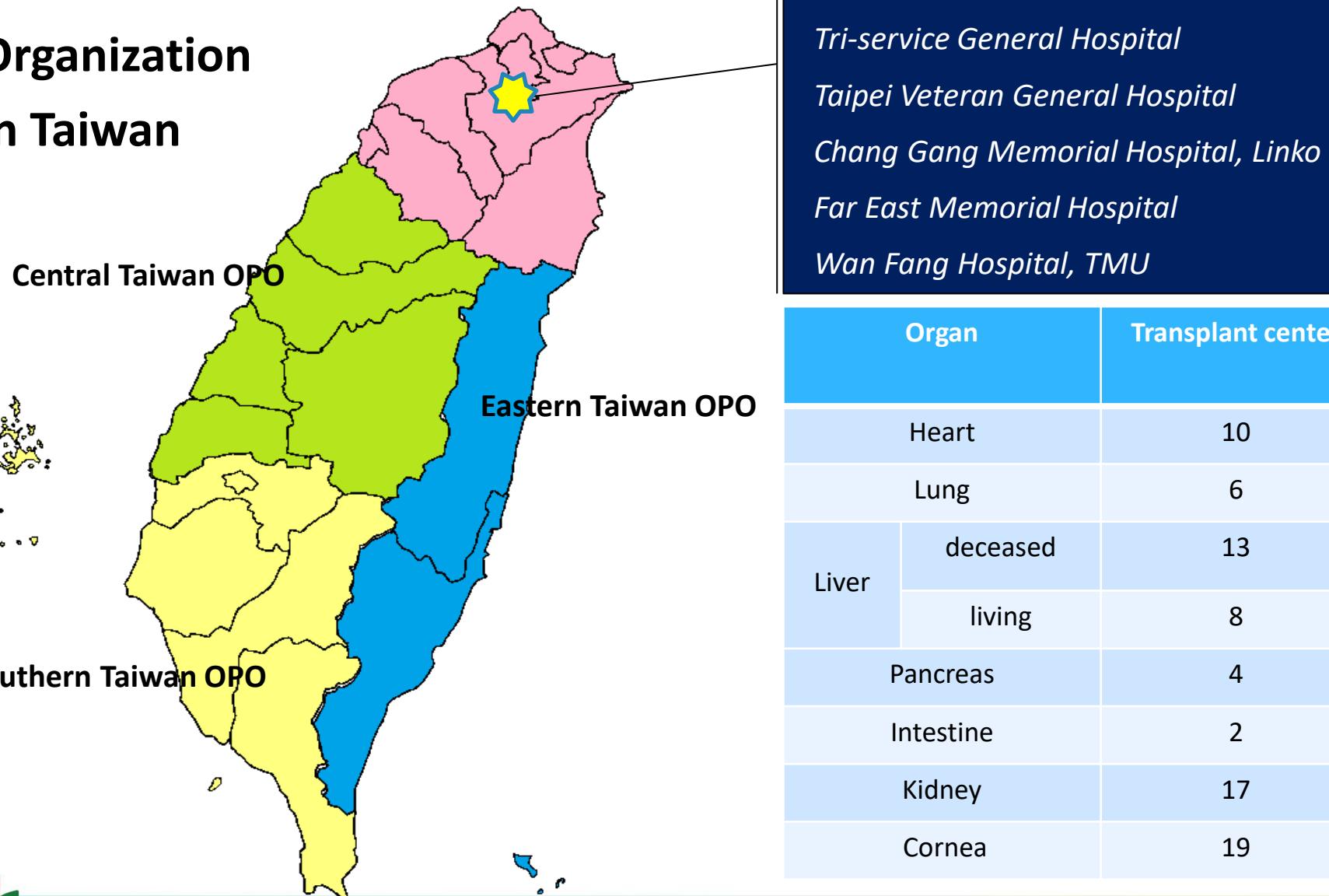


Organ Procurement Organization in Taiwan

Northern Taiwan OPO
20% area, 45.6% population



Northern Taiwan OPO (NTOPO)



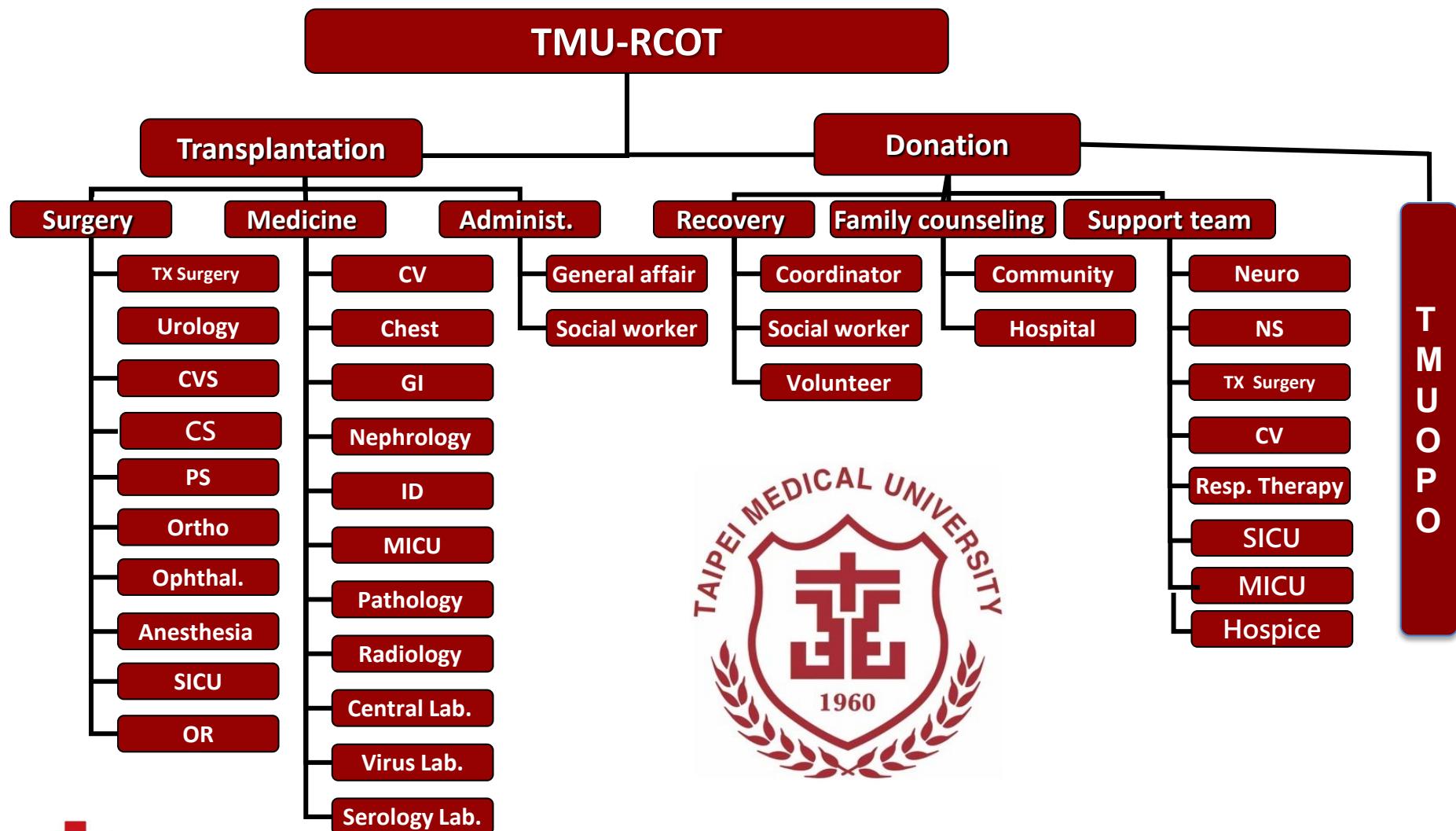
Strategy



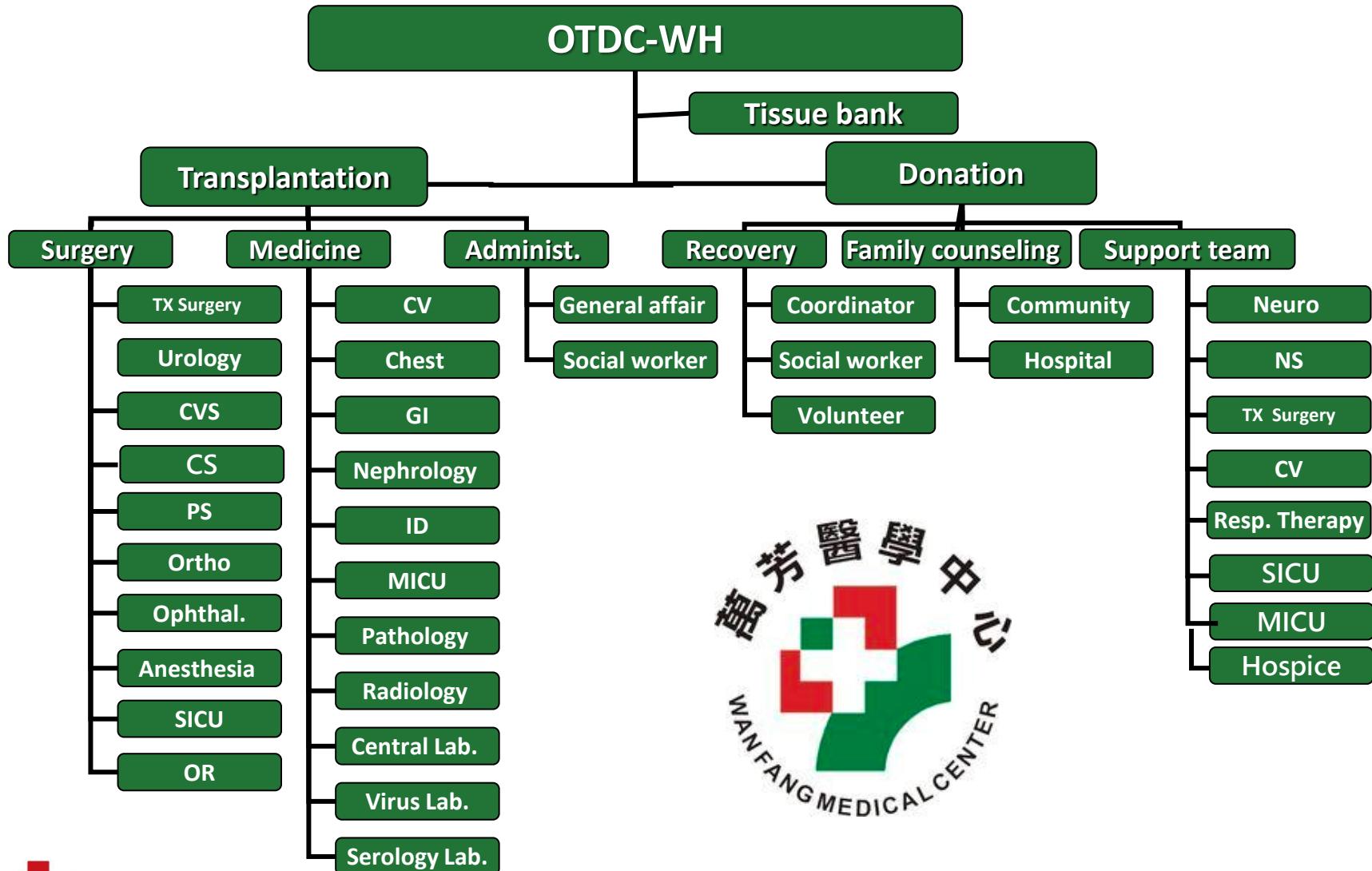
- C
- One organ procurement organization
 - One size fits all
 - One research center for organ transplantation
 - Patient-centered medical service
 - TMU-RCOT
 - One university, three hospital
 - Service-teaching-research
 - Resource sharing



Research Center for Organ Transplantation (RCOT)

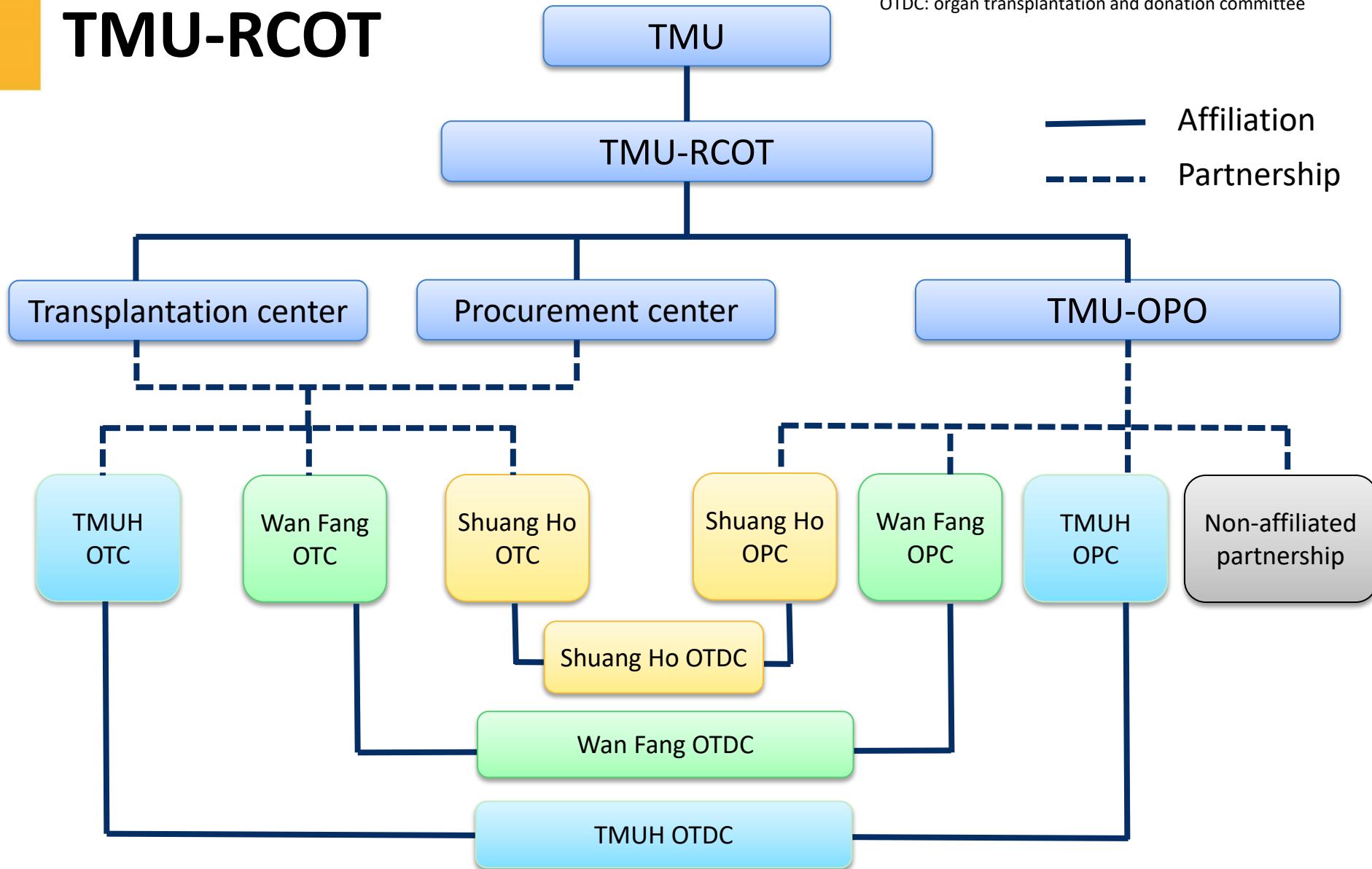


Organ transplantation and donation committee



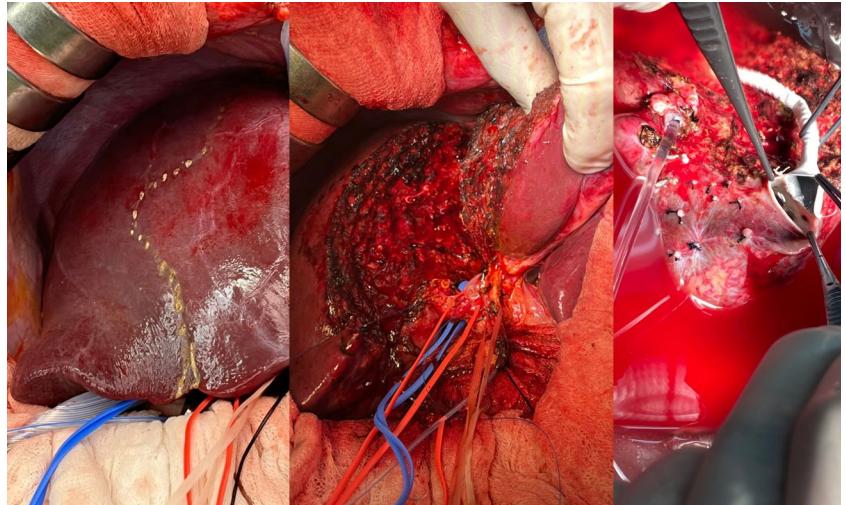
TMU-RCOT

OTC: organ transplantation center
OPC: organ procurement center
OTDC: organ transplantation and donation committee



Transplant team members in WFH

- Transplant surgeons
 - 4 KTX, 2 LTX, 2 HTX
- Team work is crucial
 - Optimal team approach
 - Perfect surgical technique
 - Practice makes perfect



Organ donation in WFH

Organ donation	Number
Organ donor (N)	5
Donation after brain death (DBD)	3
Donation after circulatory death (DCD)	0
Donation after death	2
Heart	3
Lung	0
Liver	3
Kidney	6
Pancreas	0
Intestine	0
Bone	1
Cornea	10
Skin	1
Others (vessels, tendons, etc.)	0

(Period: 2023.01.01-20230630)

Organ transplantation in WFH

Organ transplantation		Number
		38
Deceased donor organ transplantation	Heart transplantation	3
	Lung transplantation	0
	Liver transplantation	4
	Kidney transplantation	5
	Cornea (domestic)	15
	Cornea (foreign)	7
Living donor organ transplantation	Liver transplantation	3
	Kidney transplantation	1

(Period: 2023.01.01-2023.08.10)

WFH milestone in organ transplantation

- 2021-09-24 First donation after circulatory death 
- 2021-11-09 First live donor kidney transplantation 
- 2021-12-19 First deceased donor liver transplantation 
- 2022-08-23 First live donor liver transplantation 
- 2022-11-08 First ABO-incompatible kidney transplantation 
- 2023-03-09 First heart transplantation 
- 2021-2023 DDLT(6), LDLT(5), DDKT(9), LDKT(8), HT (3) 

I-CARE

~ Thanks you

Innovation

Compassion

Accountability & Integrity

Responsibility for society

Excellence



Medical Quality is Our Pride