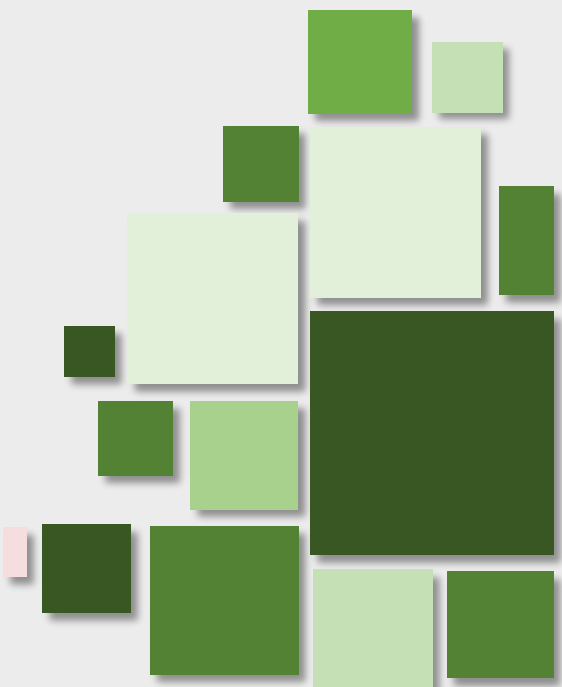
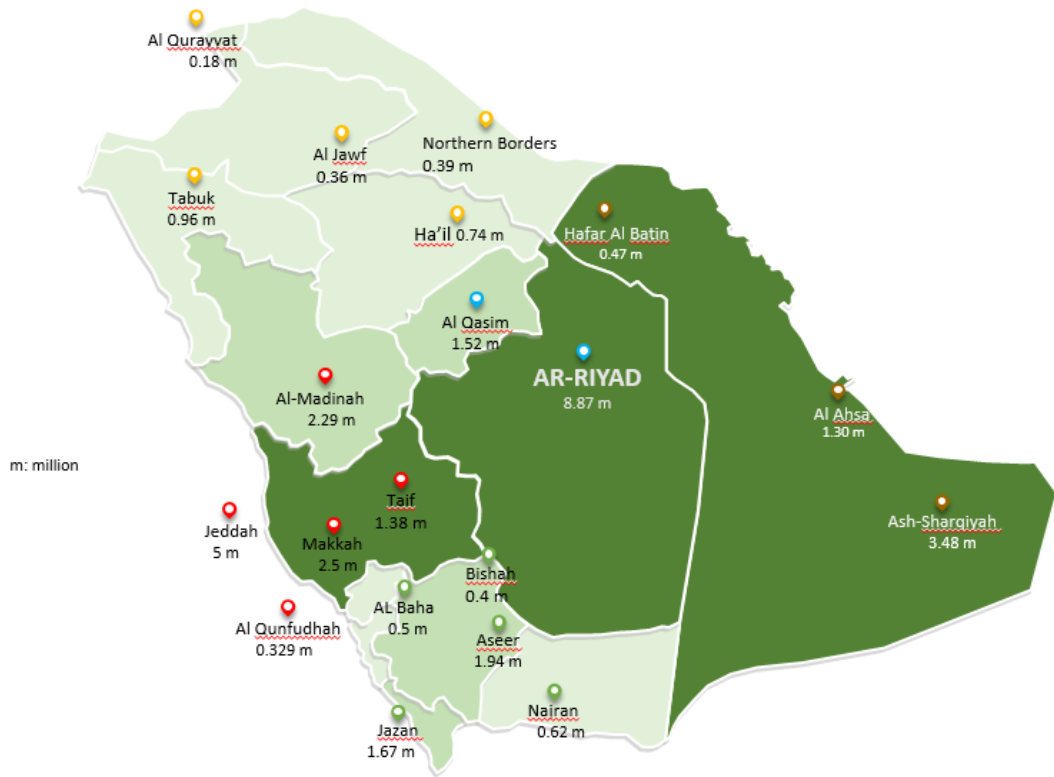


1. Deceased Donation after Brain Death in the Kingdom of Saudi Arabia



Saudi Arabia Population per Region

Central Western Eastern Northern Southern



Total population 2020: 35,013,414

N	Health Region	Population	Percentage (%)
1	Riyadh	8,872,712	25.3
2	Jeddah	5,031,820	14.4
3	Eastern	3,485,383	10.0
4	Makkah	2,512,462	7.2
5	Medinah	2,291,092	6.5
6	Aseer	1,940,123	5.5
7	Jazan	1,670,569	4.8
8	Qaseem	1,520,434	4.3
9	Ta`if	1,387,686	4.0
10	Al-Ahsa	1,305,172	3.7
11	Tabouk	968,414	2.8
12	Ha'il	746,046	2.1
13	Najran	621,040	1.8
14	Al-Bahah	506,866	1.4
15	Hafr Al-Baten	476,443	1.4
16	Bishah	414,197	1.2
17	Northern Borders	390,656	1.1
18	Al-Jouf	362,580	1.0
19	Qunfudah	329,289	0.9
20	Qurayyat	180,430	0.5
Total		35,013,414	100%



Active Deceased Donor Hospitals in KSA



CENTRAL REGION

Riyadh Region (1/2)	Sector/Affiliation	Health Region	Total Active ICU Beds
King Abdulaziz Medical City National Guard Riyadh	NATIONAL GUARD HOSPITAL	Riyadh	128
Prince Sultan Military Medical City Riyadh	MILITARY HOSPITAL	Riyadh	70
Armed Forces Hospital Wadi Dawaser	MILITARY HOSPITAL	Riyadh	9
Armed Forces Hospital Al Kharj	MILITARY HOSPITAL	Riyadh	6
King Faisal Specialist Hospital Riyadh	KING FAISAL SPECIALIST HOSPITAL	Riyadh	148
King Saud University Hospital Riyadh (Formerly King Khalid Univ.)	UNIVERSITY HOSPITAL	Riyadh	27
King Abdullah University Hospital, Nourah University	UNIVERSITY HOSPITAL	Riyadh	65
King Saud University Hospital	UNIVERSITY HOSPITAL	Riyadh	6
Security Forces Hospital Riyadh	SECURITY FORCES HOSPITAL	Riyadh	26
King Saud Medical City	MOH	Riyadh	150
King Fahad Medical City Riyadh	MOH	Riyadh	150
Mohammad Bin Abdulaziz Hospital Riyadh	MOH	Riyadh	60
Maternity And Children Hospital Kharj	MOH	Riyadh	58
Imam Abdulrahman Al Faisal Hospital Riyadh	MOH	Riyadh	51
Al Yamama Hospital Riyadh	MOH	Riyadh	48
Prince Mohammad Bin Abdulaziz Hospital Riyadh	MOH	Riyadh	40
Al Yamama Hospital Riyadh	MOH	Riyadh	39
Dawadmi General Hospital	MOH	Riyadh	34
King Khaled Hospital Majmaah	MOH	Riyadh	31
Zulfi General Hospital	MOH	Riyadh	30
Al Aflaj General Hospital	MOH	Riyadh	24
Alfla General Hospital	MOH	Riyadh	19
King Khalid Hospital Al Kharj	MOH	Riyadh	18
Sulayel General Hospital	MOH	Riyadh	17
Al Iman Hospital Riyadh	MOH	Riyadh	16
Hotat Bani Tamim	MOH	Riyadh	14
Al Quaeyah General Hospital	MOH	Riyadh	13
Afif General Hospital	MOH	Riyadh	13
Wadi Dawaser	MOH	Riyadh	11
Shagra General Hospital	MOH	Riyadh	10
Dhurma Hospital	MOH	Riyadh	9
Hotat Sudair General Hospital	MOH	Riyadh	7
Huraimala General Hospital	MOH	Riyadh	7
Rawda General Hospital	MOH	Riyadh	6
Ramah General Hospital	MOH	Riyadh	6
Al Saleel General Hospital	MOH	Riyadh	6
Al Muzahmiah General Hospital	MOH	Riyadh	5
Tamir General Hospital	MOH	Riyadh	5
Artawiya General Hospital	MOH	Riyadh	5
Al Hariq General Hospital	MOH	Riyadh	4
King Khalid Specialized.Riyadh	MOH	Riyadh	4
Ibn Al Nafees General Hospital	MOH	Riyadh	3
Thadiq General Hospital	MOH	Riyadh	2
Al Ghat General Hospital	MOH	Riyadh	2
Prince Salman Bin Muhammad Hospital Al Dulam	MOH	Riyadh	2
Dr. Sulaiman Habib Hospital Ar Rayan	PRIVATE	Riyadh	52
Al Hamadi Hospital Swaidi	PRIVATE	Riyadh	49
Dallah Hospital Riyadh	PRIVATE	Riyadh	47
Dr. Sulaiman Habib Hospital Swaidi	PRIVATE	Riyadh	47
Al Hamadi Hospital Olaya	PRIVATE	Riyadh	44
Riyadh Care Hospital Riyadh	PRIVATE	Riyadh	38
Dr. Sulaiman Habib Hospital Thakassusi	PRIVATE	Riyadh	37
Sanad Hospital Riyadh	PRIVATE	Riyadh	35

CENTRAL REGION

Riyadh Region (2/2)	Sector/Affiliation	Health Region	Total Active ICU Beds
Al Mowasat Hospital Riyadh	PRIVATE	Riyadh	41
Al Hamadi Hospital Al Nuzha	PRIVATE	Riyadh	35
Care National Hospital	PRIVATE	Riyadh	22
Specialized Medical Center Riyadh	PRIVATE	Riyadh	22
Obeid Specialized Hospital Riyadh	PRIVATE	Riyadh	19
Dr. Sulaiman Habib Hospital Olaya	PRIVATE	Riyadh	17
Kingdom Hospital Riyadh	PRIVATE	Riyadh	17
Dr. Mohammad Al Fagih Hospital Riyadh	PRIVATE	Riyadh	15
Dar Al Shifa Hospital Riyadh	PRIVATE	Riyadh	14
Saudi German Hospital Riyadh	PRIVATE	Riyadh	11
Elite Hospital Riyadh	PRIVATE	Riyadh	10
Hayat National Hospital	PRIVATE	Riyadh	8
Anfas Al Raha Hospital Riyadh	PRIVATE	Riyadh	8
Al Azhar Hospital	PRIVATE	Riyadh	5
Dr. Abdulrahman Al Mishari Hospital Riyadh	PRIVATE	Riyadh	4
Total Hospitals: 68			2001

Qassim Region	Sector/Affiliation	Health Region	Total Active ICU Beds
Maternity - Paed. Hospital	MOH	Qassim	95
Burydah Central Hospital	MOH	Qassim	58
King Fahad Specialist Hospital	MOH	Qassim	30
Al-Bikiryah General Hospital	MOH	Qassim	25
King Saud Hospital	MOH	Qassim	22
Al Rass General Hospital	MOH	Qassim	22
Al-Ras General Hospital	MOH	Qassim	20
Al-Muznab General Hospital	MOH	Qassim	20
Al-Asueh Hospital	MOH	Qassim	11
Al-Badai General Hospital	MOH	Qassim	9
Dr. Sulaiman Habib Hospital Qassim	PRIVATE	Qassim	18
Hayat National Hospital Qassim	PRIVATE	Qassim	26
Total Hospitals: 12			356

WESTERN REGION

Jeddah Region	Sector/Affiliation	Health Region	Total Active ICU Beds
King Abdulaziz Medical City National Guard Jeddah	NATIONAL GUARD HOSPITAL	Jeddah	90
King Fahd Armed Forces Hospital Jeddah	MILITARY HOSPITAL	Jeddah	36
King Faisal Specialist Hospital Jeddah	KING FAISAL SPECIALIST HOSPITAL	Jeddah	44
King Abdulaziz University Hospital Jeddah	UNIVERSITY HOSPITAL	Jeddah	60
King Abdullah Medical City Jeddah	MOH	Jeddah	111
King Fahad Hospital	MOH	Jeddah	100
East Jeddah Hospital	MOH	Jeddah	55
King Abdul-Aziz Hospital	MOH	Jeddah	52
Al-Thagar Hospital	MOH	Jeddah	19
Adham Hospital	MOH	Jeddah	17
Rabkg Hospital	MOH	Jeddah	13
Maternity - Paed. Al-Aziziyah Hospital	MOH	Jeddah	10
East Jeddah Hospital	PRIVATE	Jeddah	27
Hai Al Jamea Hospital Jeddah	PRIVATE	Jeddah	26
Saudi German Hospital Jeddah	PRIVATE	Jeddah	20
Bugshan Hospital Jeddah	PRIVATE	Jeddah	15
Jeddah National Hospital	PRIVATE	Jeddah	15
Al Jeddani Hospital Jeddah	PRIVATE	Jeddah	15
Dr. Ghassan N Pharoan Hospital	PRIVATE	Jeddah	11
Jeddah Clinic Hospital	PRIVATE	Jeddah	10
Dr. Samir Abbas Hospital Jeddah	PRIVATE	Jeddah	10
Total Hospitals: 21			756

WESTERN REGION

Makkah Region	Sector/Affiliation	Health Region	Total Active ICU Beds
King Abdullah Medical City Holy Capital	MOH	Makkah	112
Maternity - Child Hospital (Mch)	MOH	Makkah	94
Noor Specialist Hospital (Nsh)	MOH	Makkah	82
Hera Hospital (Hgh)	MOH	Makkah	76
King Abdul-Aziz Hospital (Kaah)	MOH	Makkah	66
King Faisal Hospital (Kfh)	MOH	Makkah	36
Ajyad Hospital	MOH	Makkah	20
Khlaish Hospital	MOH	Makkah	10
Al Kamel Hospital	MOH	Makkah	2
Total Hospitals: 9			498

Madinah Region	Sector/Affiliation	Health Region	Total Active ICU Beds
Prince Mohammad Bin Abdulaziz National Guard Hospital Madinah	NATIONAL GUARD HOSPITAL	Madinah	63
Royal Commission Medical Center Yanbu	ROYAL COMMISSION HOSPITAL	Madinah	9
Prince Sultan Armed Forces Hospital Madinah	MILITARY HOSPITAL	Madinah	6
Maternity Pediatrics Hospital	MOH	Madinah	110
King Fahad Hospital	MOH	Madinah	60
Ohud General Hospital	MOH	Madinah	54
Al-Madinah General Hospital	MOH	Madinah	37
Yanbo General Hospital	MOH	Madinah	37
Prince Abdulmohsin Hospital Alolaa	MOH	Madinah	20
Khyber General Hospital	MOH	Madinah	14
Almahad General Hospital	MOH	Madinah	11
Alhanakiya General Hospital	MOH	Madinah	10
Badr General Hospital	MOH	Madinah	9
Alais General Hospital	MOH	Madinah	8
Meghat General Hospital	MOH	Madinah	7
Alhaso Hospital	MOH	Madinah	7
Alhmnah Hospital	MOH	Madinah	4
Wade Alfrah General Hospital	MOH	Madinah	2
Total Hospitals: 18			468

Taif Region	Sector/Affiliation	Health Region	Total Active ICU Beds
Armed Forces Hospital Taif	MILITARY HOSPITAL	Taif	37
Ob Gyn Medical Hospital	MOH	Taif	92
King Faisal Hospital	MOH	Taif	80
King Abdul-Aziz Spec. Hospital	MOH	Taif	46
Pediatric Hospital	MOH	Taif	39
Al Seahn Hospital	MOH	Taif	7
Al Mahani Hospital	MOH	Taif	6
Dowlem Hospital	MOH	Taif	5
Al Kormah Hospital	MOH	Taif	4
Ranuh Hospital	MOH	Taif	4
Torbeah Hospital	MOH	Taif	4
Total Hospitals: 11			324

Al Qunfudah Region	Sector/Affiliation	Health Region	Total Active ICU Beds
Al-Qunfudah Hospital جنوب القنفذة	MOH	Qunfudah	35
Al-Qunfudah General Hospital	MOH	Qunfudah	23
Almazaleef Hospital	MOH	Qunfudah	10
Nemrh General Hospital	MOH	Qunfudah	5
Treaben General Hospital	MOH	Qunfudah	4
Total Hospitals: 5			77

EASTERN REGION

Eastern - Region	Sector/Affiliation	Health Region	Total Active ICU Beds
Imam Abdulrahman Bin Faisal Hospital Dammam	NATIONAL GUARD HOSPITAL	Eastern	12
Security Forces Hospital Dammam	SECURITY FORCES HOSPITAL	Eastern	17
King Fahd Military Medical Complex Dahrn	MILITARY HOSPITAL	Eastern	32
King Abdulaziz Airbase Hospital Dahrn	MILITARY HOSPITAL	Eastern	9
King Abdulaziz Naval Base Jubail	MILITARY HOSPITAL	Eastern	5
Royal Commission Hospital Jubail	ROYAL COMMISSION HOSPITAL	Eastern	10
King Fahd University Hospital Al Khobar	UNIVERSITY HOSPITAL	Eastern	11
John Hopkins Aramco Health Care	ARAMCO	Eastern	36
Maternity - Paed. Hospital	MOH	Eastern	60
Qatif General Hospital	MOH	Eastern	45
Dammam Medical Complex Hospital	MOH	Eastern	39
King Fahd Specialized H Dammam	MOH	Eastern	26
Gobail General Hospital	MOH	Eastern	20
Khafji General Hospital	MOH	Eastern	16
Neriya Hospital	MOH	Eastern	12
Dahrn General Hospital	MOH	Eastern	10
Dammam Alkerye Al Olua Hospital	MOH	Eastern	7
Dammam Barns Saltan Molajeh Hospital	MOH	Eastern	3
Saud Albabtain Cardiac Center	MOH	Eastern	10
Al Mana Hospital Dammam	PRIVATE	Eastern	35
Dr. Sulaiman Al Habib Hospital Al Khobar	PRIVATE	Eastern	33
Saudi German Hospital Dammam	PRIVATE	Eastern	30
Al Zahra General Hospital-Qateef	PRIVATE	Eastern	12
Assalama Hospital Al Khobar	PRIVATE	Eastern	7
Al Mana General Hospital Jubail	PRIVATE	Eastern	5
Procure Hospital Al Khobar	PRIVATE	Eastern	5
Al Mowasat Hospital Dammam	PRIVATE	Eastern	4
Total Hospitals: 27			511

Al Ahsa Region	Sector/Affiliation	Health Region	Total Active ICU Beds
King Abdulaziz Hospital National Guard Al Ahsa	NATIONAL GUARD HOSPITAL	Al-Ahsa	32
Maternity And Children'S Hospital Al-Ahsa	MOH	Al-Ahsa	91
King Fahd Hospital Hofuf	MOH	Al-Ahsa	42
King Faisal Hospital Al-Ahsa	MOH	Al-Ahsa	27
Prince Saud Bin Jalawi Hospital Al-Ahsa	MOH	Al-Ahsa	18
Al-Omran Hospital Al-Ahsa	MOH	Al-Ahsa	10
Al Jafar General Hospital	MOH	Al-Ahsa	4
Al Moosa Specialist Hospital Al Hassa	PRIVATE	Al-Ahsa	52
Obeid Specialized Hospital Al Ahsa	PRIVATE	Al-Ahsa	22
Al Mana General Hospital Alahsa	PRIVATE	Al-Ahsa	20
Al Ahsa Hospital	PRIVATE	Al-Ahsa	9
Total Hospitals: 11			327

Hafar Al Baten Region	Sector/Affiliation	Health Region	Total Active ICU Beds
Maternity Pediatrics Hospital	MOH	Hafar Al Baten	51
King Khalid Hospital	MOH	Hafar Al Baten	37
Hafalbatin Central Hospital	MOH	Hafar Al Baten	19
Alsaira Hospital	MOH	Hafar Al Baten	2
Total Hospitals: 4			109

SOUTHERN REGION

Assir Region	Sector/Affiliation	Health Region	Total Active ICU Beds
Armed Forces Hospital Southern Region	MILITARY HOSPITAL	Aseer	37
Maternity And Paed. Hospital / Abha	MOH	Aseer	75
Aseer Central Hospital	MOH	Aseer	63
Maternity And Paed. Hospital / Khamis Mushait	MOH	Aseer	44
Mahail General Hospital	MOH	Aseer	20
Khamismushait General Hospital	MOH	Aseer	16
Ahud Rafudh Hospital	MOH	Aseer	12
Dahran Alganob Hospital	MOH	Aseer	10
Al-Nimas General Hospital	MOH	Aseer	9
Al-Magarda General Hospital	MOH	Aseer	8
Blasmar General Hospital	MOH	Aseer	8
Sarat Obyda General Hospital	MOH	Aseer	8
Rijal Almaa General Hospital	MOH	Aseer	6
Al Baruk Hospital	MOH	Aseer	5
Al Kahmeh Hospital	MOH	Aseer	4
Bal Ahmar Hospital	MOH	Aseer	2
Tanoumeh Hospital	MOH	Aseer	1
Abha Private Hospital	PRIVATE	Aseer	24
Total Hospitals: 18			352

Southern - Jizan Region	Sector/Affiliation	Health Region	Total Active ICU Beds
Military Hospital Jizan	MILITARY HOSPITAL	Jizan	9
King Fahad Central Hospital	MOH	Jizan	102
Prince Mohamed Bin Naser Hospital	MOH	Jizan	51
Abi Aresh General Hospital	MOH	Jizan	21
Sabya General Hospital	MOH	Jizan	20
Samta General Hospital	MOH	Jizan	17
Bish General Hospital	MOH	Jizan	15
Demad General Hospital	MOH	Jizan	10
Frsan General Hospital	MOH	Jizan	9
Ouhad Almsarha Hospital	MOH	Jizan	2
Total Hospitals: 10			256

Najran Region	Sector/Affiliation	Health Region	Total Active ICU Beds
Armed Forces Hospital Sharourah	MILITARY HOSPITAL	Najran	8
Armed Forces Hospital Najran	MILITARY HOSPITAL	Najran	7
King Khalid Hospital	MOH	Najran	38
Najran General Hospital	MOH	Najran	36
Maternity - Paed. Hospital	MOH	Najran	34
Sharora General Hospital	MOH	Najran	13
Total Hospitals: 6			136

Bisha Region	Sector/Affiliation	Health Region	Total Active ICU Beds
King Abdullah Hospital	MOH	Bisha	63
Maternity And Children Hospital	MOH	Bisha	50
Taslees Hospital	MOH	Bisha	20
Sabt Al Aliyi Hospital	MOH	Bisha	4
Total Hospitals: 4			137

Al Baha Region	Sector/Affiliation	Health Region	Total Active ICU Beds
King Fahad Hospital Al-Bahah	MOH	Al-Bahah	61
Baljurashi General Hospital	MOH	Al-Bahah	33
Total Hospitals: 2			94



Active Deceased Donor Hospitals in KSA

NORTHERN REGION

Tabuk Region	Sector/Affiliation	Health Region	Total Active ICU Beds
King Salman Military Hospital Tabuk	MILITARY HOSPITAL	Tabuk	19
Northern Armed Forces Hospital	MILITARY HOSPITAL	Tabuk	12
New King Fahd Hospital	MOH	Tabuk	85
King Khalid Hospital	MOH	Tabuk	71
Al-Wagh Hospital	MOH	Tabuk	28
Debah General Hospital	MOH	Tabuk	25
Maternity - Pead. Hospital	MOH	Tabuk	24
Amlag General Hospital	MOH	Tabuk	23
Hagil General Hospital	MOH	Tabuk	17
Timea General Hospital	MOH	Tabuk	14
Total Hospitals: 10			318

Northern Borders Region	Sector/Affiliation	Health Region	Total Active ICU Beds
Ar Ar Central Hospital	MOH	Northern	70
Maternity And Children'S Hospital	MOH	Northern	59
Turaef General Hospital	MOH	Northern	35
Rafha General Hospital	MOH	Northern	19
Abdulaziz Bin Mosaad Al Jalawi Hospital	MOH	Northern	15
Al Wiqlia General Hospital	MOH	Northern	6
Al Judaedah General Hospital	MOH	Northern	6
Al Shoba General Hospital	MOH	Northern	2
Total Hospitals: 8			212

Al Jouf Region	Sector/Affiliation	Health Region	Total Active ICU Beds
Maternity And Children's Hospital	MOH	Al Jouf	47
Prince Moteb Bin Abdulaziz Hospital	MOH	Al Jouf	45
King Abdulaziz Specialist Hospital Sakaka	MOH	Al Jouf	32
Tabarjal General Hospital	MOH	Al Jouf	20
Domat Al Jandal General Hospital	MOH	Al Jouf	19
Siwair General Hospital Al Jouf	MOH	Al Jouf	4
Abu Ajram Hospital Al Jouf	MOH	Al Jouf	2
Total Hospitals: 7			169

Hail Region	Sector/Affiliation	Health Region	Total Active ICU Beds
King Khalid Hospital	MOH	Hail	43
Hail General Hospital	MOH	Hail	41
Maternity - Paed. Hospital	MOH	Hail	40
King Salman Specialist Hospital	MOH	Hail	27
Total Hospitals: 4			151

Al Qurrayat Region	Sector/Affiliation	Health Region	Total Active ICU Beds
Algirayat General Hospital	MOH	Qurrayat	60
Total Hospitals: 1			60



Active Deceased Donor Hospitals in KSA

SUMMARY OF HOSPITALS PER GLOBAL REGION/AFFILIATION

Central Region (Riyadh, Qassim)							
No/Affiliation	MOH	Nat'l Guard	Military	Security	KFSH	University	Private/ Charity
Hospitals	46	1	3	1	1	3	25
ICU Beds	1,231	128	85	26	148	98	641
Total Hospital: 80				Total ICU Beds: 2,357			

Western Region (Jeddah, Makkah, Madinah, Taif, Qunfudah)							
No/Affiliation	MOH	Nat'l Guard	Military	Royal Commission	KFSH	University	Private/ Charity
Hospitals	47	2	3	1	1	1	9
ICU Beds	1,629	153	79	9	44	60	149
Total Hospitals: 64				Total ICU Beds: 2,123			

Eastern Region (Al-Ahsa, Eastern, Hafar Al Batin)								
No/ Affiliation	MOH	Nat'l Guard	Military	Royal Commission	Security	University	Aramco	Private/ Charity
Hospitals	21	2	3	1	1	1	1	12
ICU Beds	549	44	46	10	17	11	36	234
Total Hospitals: 42					Total ICU Beds: 947			

Southern Region (Al-Bahah, Assir, Bishah, Jizan, Najran)			
No/Affiliation	MOH	Military	Private/ Charity
Hospitals	35	4	1
ICU Beds	890	61	24
Total Hospital: 40		Total ICU Beds: 975	

Nothorn Region (Al Qurayyat, Al Jouf, Hail, Northern Borders, Tabuk)		
No/Affiliation	MOH	Military
Hospitals	28	2
ICU Beds	879	31
Total Hospitals: 30		Total ICU Beds: 910

SUMMARY OF HOSPITALS PER AFFILIATION

Hospital per Affiliation									
	MOH	Nat'l Guard	Military	Royal Commission	Security	University	KFSH	Aramco	Private/ Charity
Hospitals	177	5	15	2	2	5	2	1	47
ICU Beds	5,178	325	302	19	43	169	192	36	1,048
Total Hospital: 256					Total ICU Beds: 7,312				

The Chapter of Deceased Donation After and Brain Death, will

- Introduce to you the SCOT's approach to deceased organ donation and the tools we used to build up the data in this annual report (e.g. The Critical Pathways of Deceased Organ Donation).
- Show the deceased donation conversion process in every steps.
- Show the deceased donor's characteristics and their demographics.
- Display the hospital activities including the GCC deceased donor sharing activities and their individual contribution to deceased donation process.
- Provide the data organs of deceased organs shared via deceased organ sharing from other GCC countries.

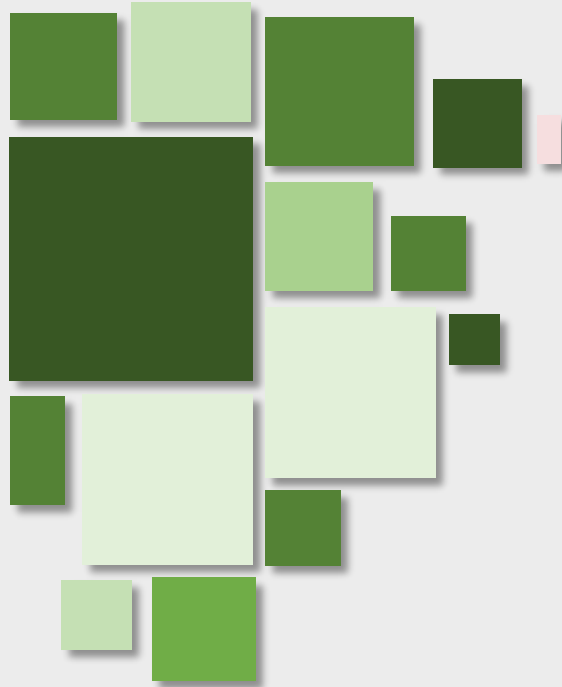
In 2021, The Critical pathways of deceased organ donation conversion rate consist of 483 possible deceased donor, 322 potential, 274 eligible, 113 consented donors for organ donation, 105 actual donors and 102 utilized deceased donors.

Donor demographics and characteristics were recorded highlighting important data including the age, sex, and causes of death.

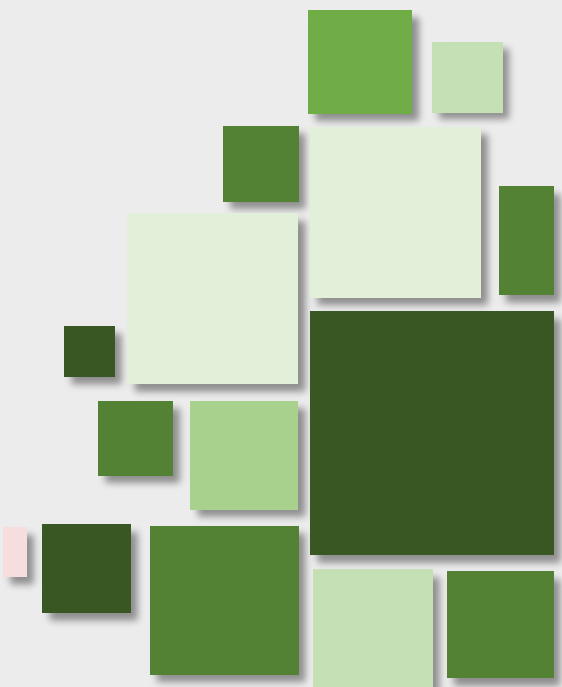
The success from organ recovery to transplantation involves the logistics and transportation utilized in majority of the actual DBD donor these includes the use of MEDEVAC and Ambulance services.

Lastly, the national program on deceased organ donation will not materialized without the hospital participation and their important contribution from reporting the possible donor, documentation of brain death to breaking the bad news to the family. Highlighted on this report were the hospitals individual contribution and the top performing hospitals activity from reporting to donor utilization.

- The Kingdom of Saudi Arabia has an active deceased donation and transplantation program under the supervision of the Saudi Center for Organ Transplantation (SCOT).
- Clear policies have been laid down to facilitate diagnosis of Death by Brain Function Criteria and the management of potential deceased donors.
- Religious scholars approved the concept of Death by Brain Function Criteria and Organ Donation.

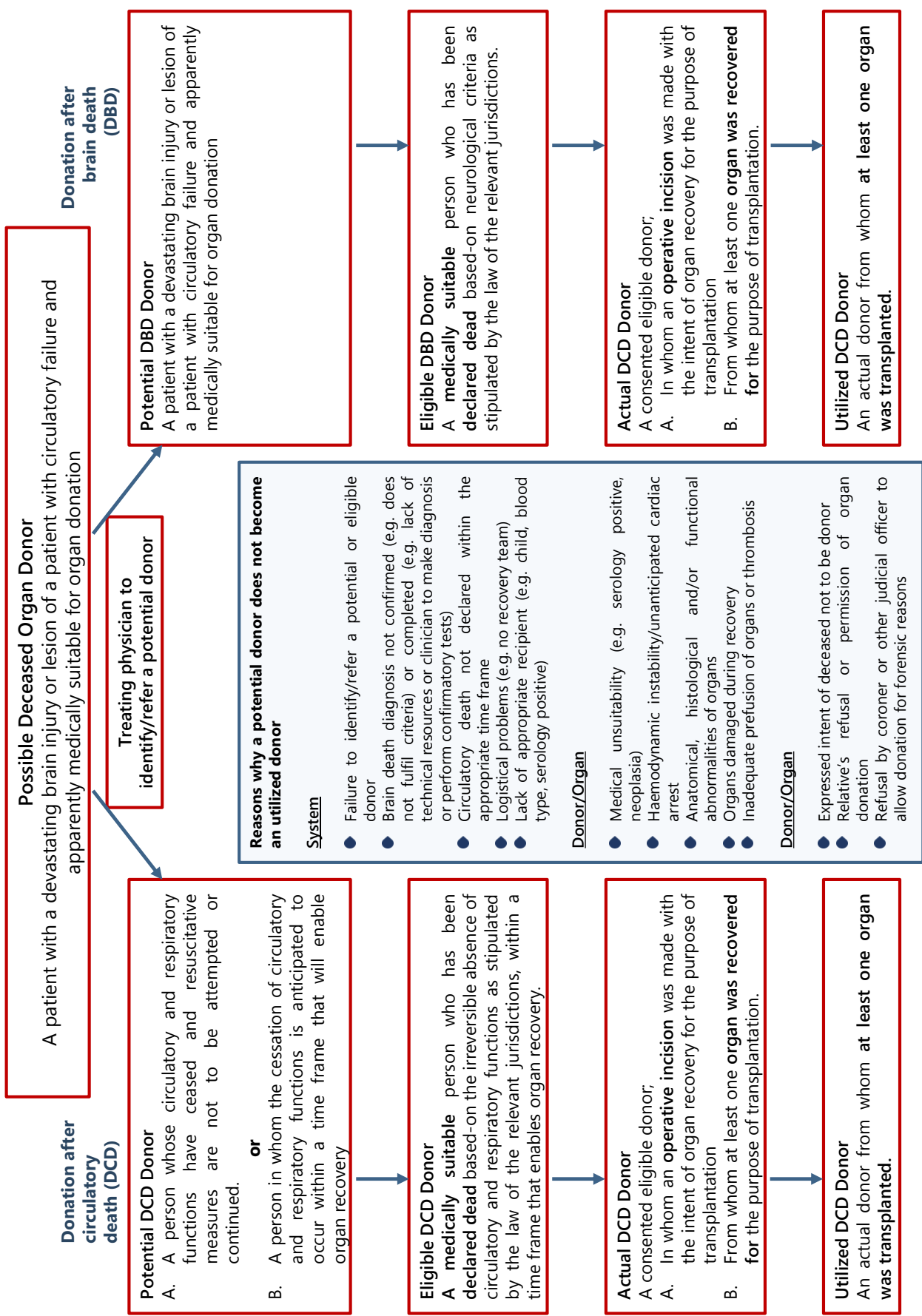


Critical Pathways for Organ Donation





Clinical Pathways for Deceased Organ Donation



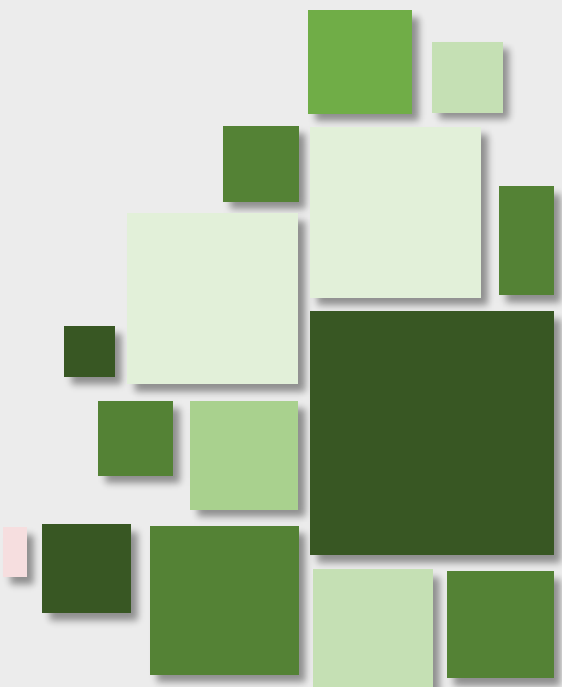
*The "dead donor rule" must be respected That is, patients may only become donors after death, and the recovery of organs must not cause a donor's death

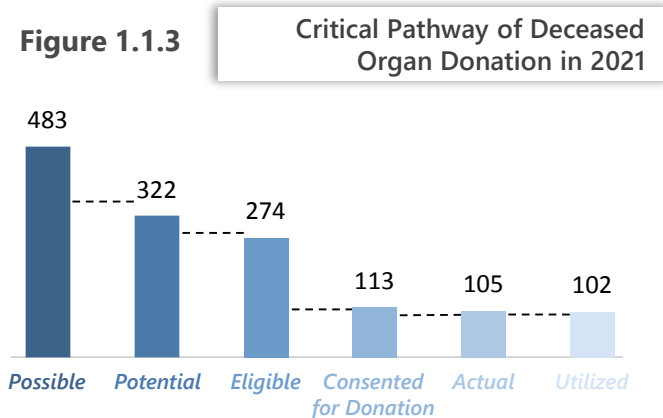
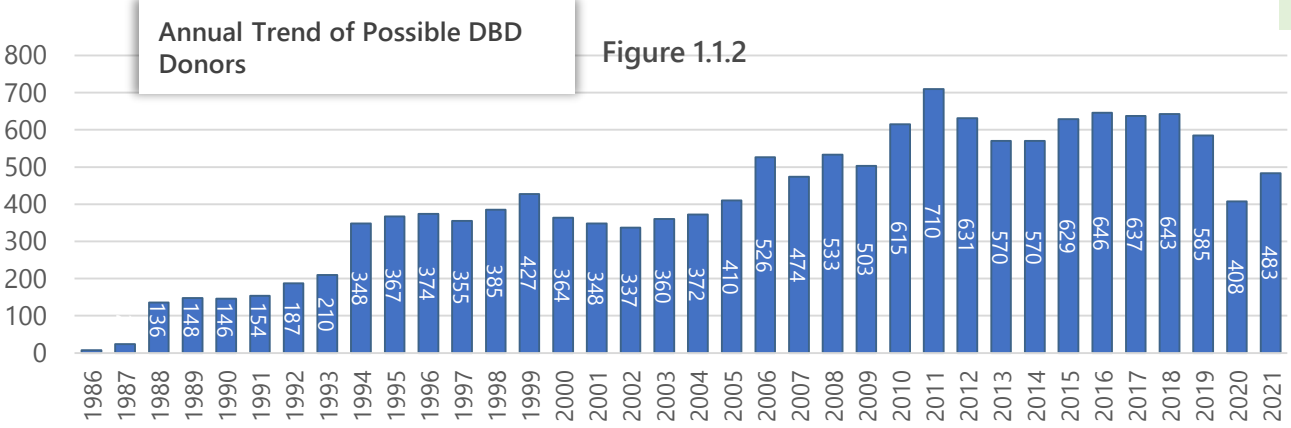
Figure 1.1.1 Critical pathways of deceased organ donation



1.1 Possible DBD Donors

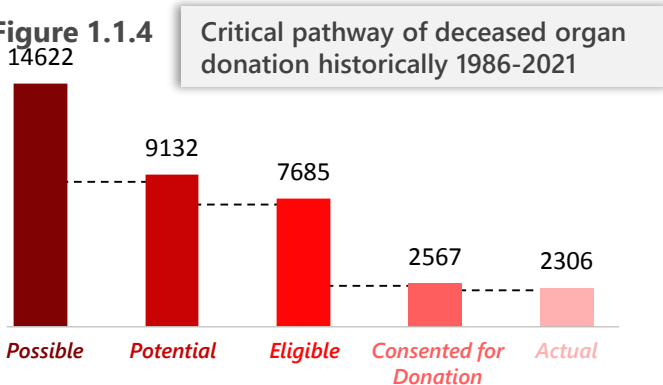
A patient with devastating brain Injury or lesion and apparently medically suitable for Organ Donation





In 2021, the Critical Pathways of Deceased Organ Donation recorded 483 possible DBD donors, 322 potential, 274 eligible, 113 consents, 105 actual and 102 Utilized donors (see figure 1.3). Since 1986, the deceased donors recorded were 14,622 possible, 9,132 potential, 7,685 eligible, 2,567 consents and 2,306 actual donors (see figure 1.4).

Annual trend of possible DBD recorded the highest possible DBD donors was in 2011 with 710 donors. (See figure 1.2).



In 2021, the highest number of DBD donors recorded was from Riyadh region with 211 possible, 148 potential, 123 eligible, 23 consents, 22 actual and 21 utilized donors recognizing its highest performance region wise (see table 1.1.1).

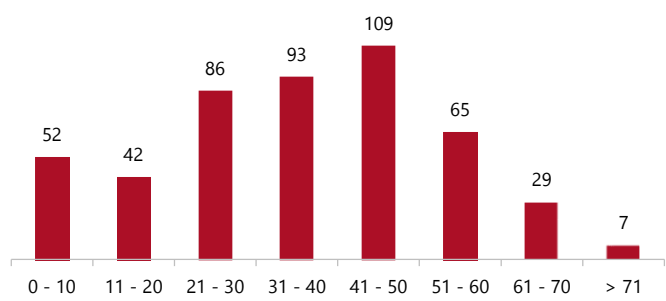
Region	Possible	Potential	Eligible	Consented	Actual	Utilized
CENTRAL	226	156	131	24	23	22
WESTERN	96	42	32	8	7	7
EASTERN	68	48	37	14	13	11
NORTHERN	19	9	7	2	2	2
SOUTHERN	11	4	4	3	3	3
OUTSIDE	63	63	63	62	57	57
TOTAL	483	322	274	113	105	102

Table 1.1.1: Critical pathway of deceased organ donation, region wise in 2021



Figure 1.1.5

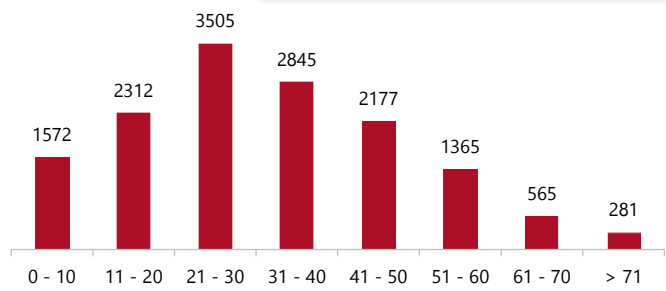
Age Distribution of Possible DBD Donors in 2021



In 2021, analysis of the age distribution of the possible DBD donors shows that the majority of the DBD donors were in the age group between 21-50 yrs. composing 60% of the cases, with the highest number in age group between 41-50 yrs., having 23% of the possible DBD donors (see figure 1.1.5). Cumulatively, since 1986, the majority of possible DBD donors were mainly from age group between 21-40 years composing 43% of the cases (see figure 1.1.6).

Figure 1.1.6

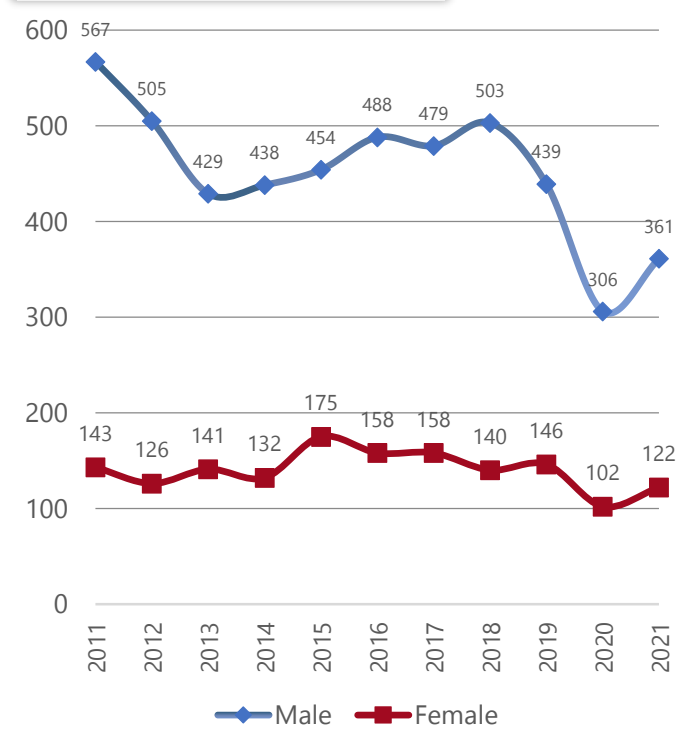
Age Distribution of Possible DBD Donors, 1986-2021



Gender analysis during the year among BD donors have shown that 78% of DBD donors were males and 22% were females having a gender ratio of 3:1. Since 1986, the males represent 78% of the possible DBD donors and females represent 22% with a male to female ratio of 4:1 (see figures 1.1.7 & 1.1.8).

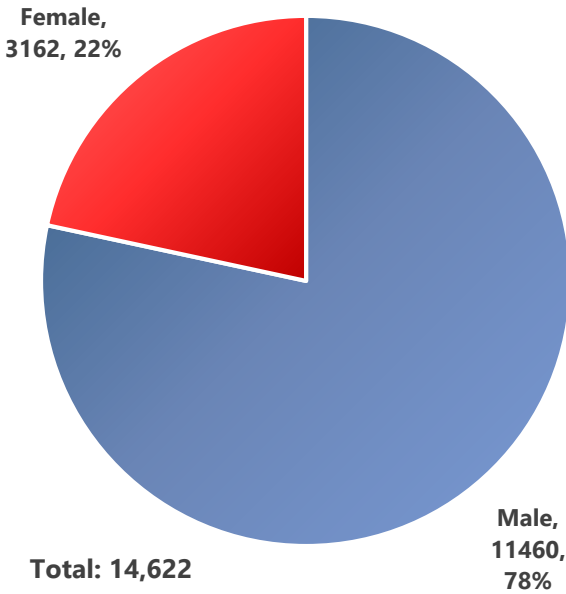
Gender Distribution in Possible DBD Donors, 2000-2021

Figure 1.1.7



Gender Distribution in Possible DBD Donors, 1986-2021

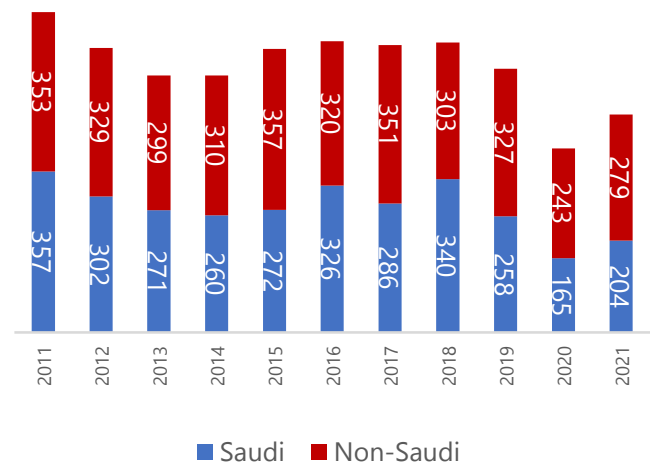
Figure 1.1.8



In 2021 Nationality distribution among possible DBD donors have shown that Saudi Nationals comprises 204 (42%) of the total DBD donors while the other 279 (58%) were non-Saudis. Since 1986, Saudi's comprises 53% of the possible DBD donors and non-Saudis with 47% of the total DBD donors (see figures 1.1.9 and 1.1.10).

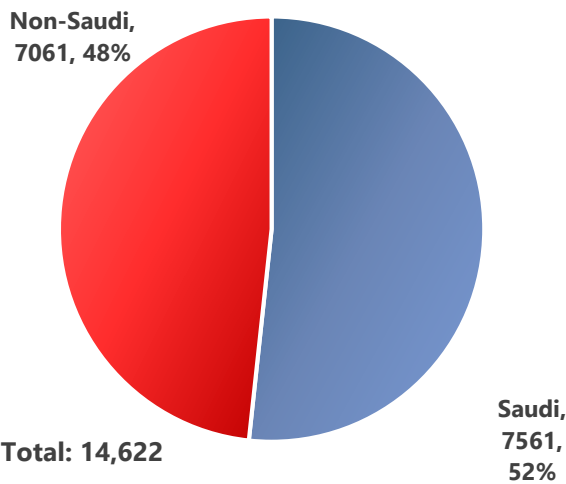
Nationality Distribution in Possible DBD Donors, 2000-2021

Figure 1.1.9



Nationality Distribution in Possible DBD Donors, 1986-2021

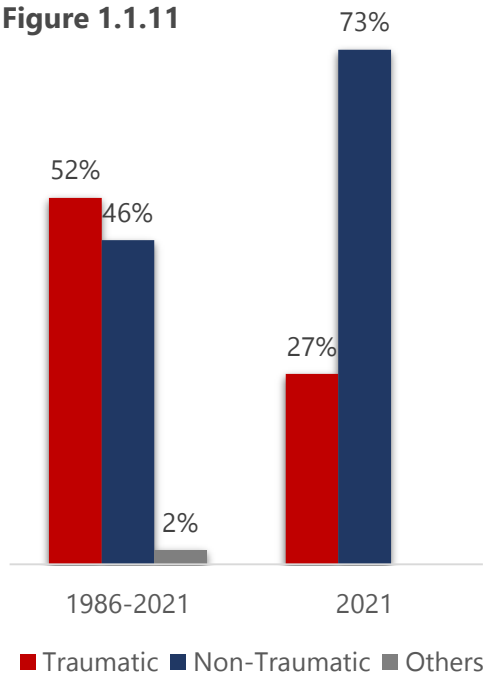
Figure 1.1.10



Analysis of the causes of death among possible DBD donors in 2021 shows that traumatic cause of death were (27%) and death from non-traumatic causes were (73%). Majority of the traumatic causes were due to Motor Vehicle Accident (MVA) 67% while non-traumatic causes were mainly due to Cerebrovascular Accident (CVA) 66% (See table 1.1.2).

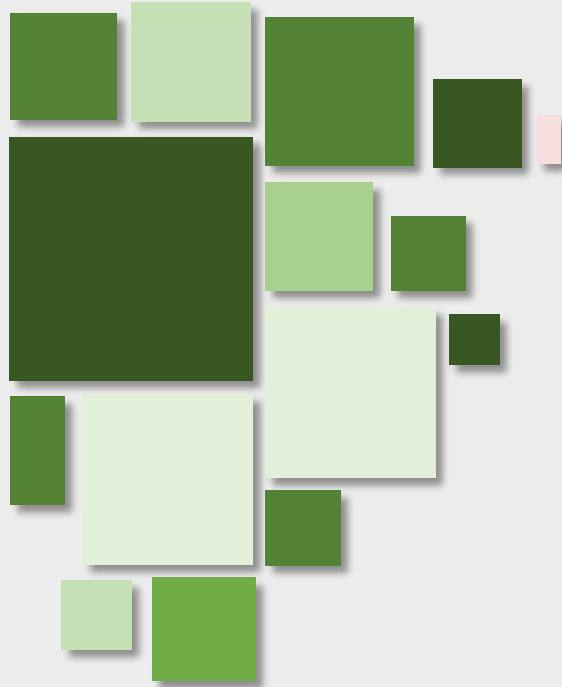
Historical Comparison of Cause of Death among Possible DBD Donors

Figure 1.1.11



Cause of Death	Number	
	1986-2021	2021
Traumatic	7,535	132
• MVA	6120	89
• FFH	869	25
• DHT	394	14
• Gunshot	148	2
• Electric Shock	2	0
• Stab wound	1	1
• Drowning	1	1
Non-Traumatic	6,681	351
• CVA	4480	234
• Anoxia	1687	110
• CNS Tumor	514	7
Others	406	0
Total	14,622	483

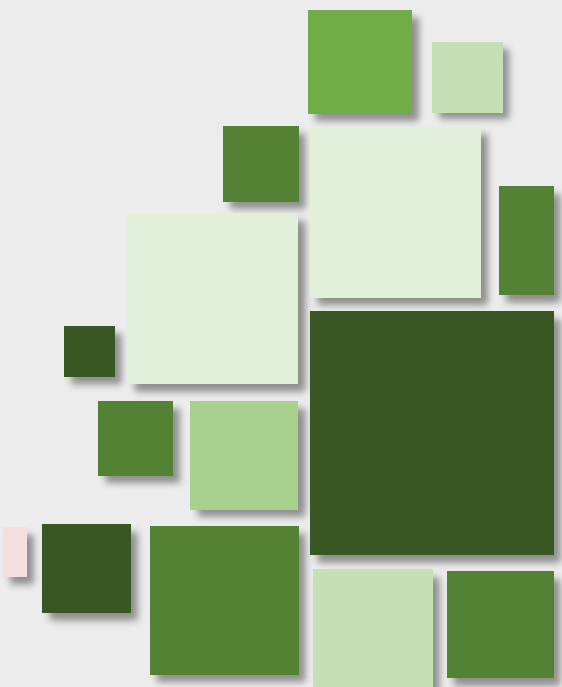
Table 1.1.2: Cause of death among possible DBD donors in 1986-2020 and 2021

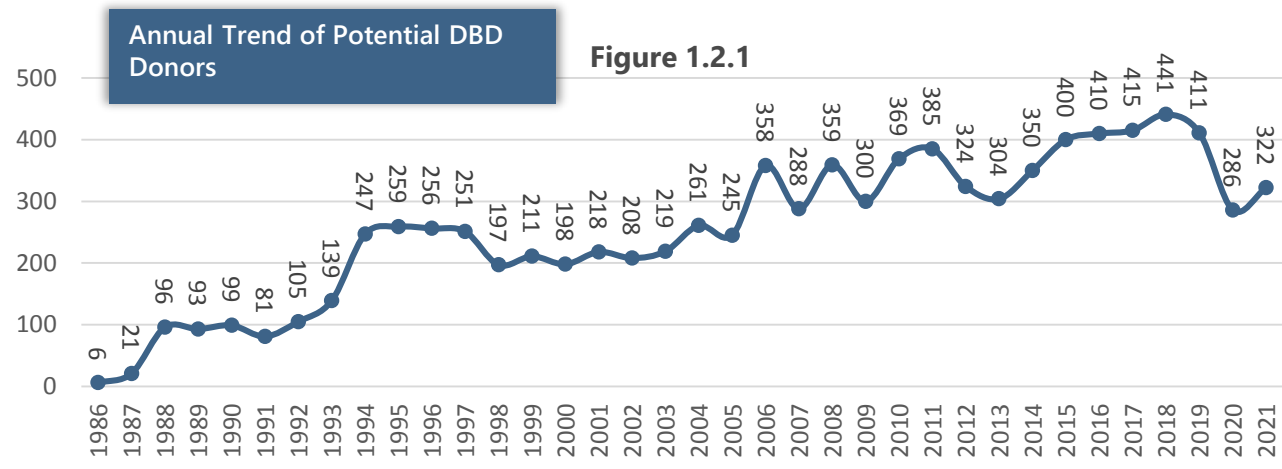


1.2 Potential DBD Donors

(A person whose clinical condition is suspected to fulfill brain death criteria)

Death Documented by Neurological Criteria Deceased Donors

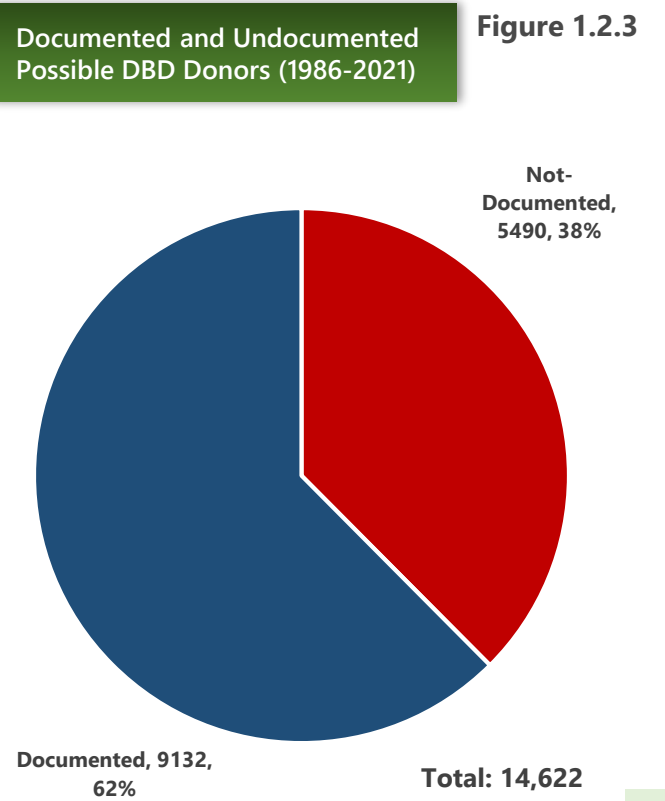
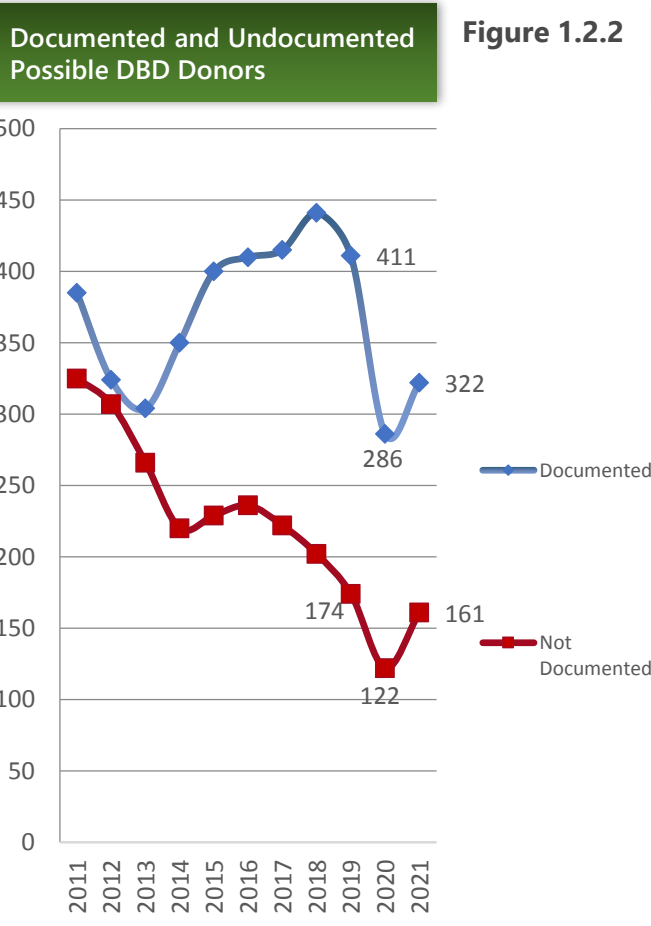


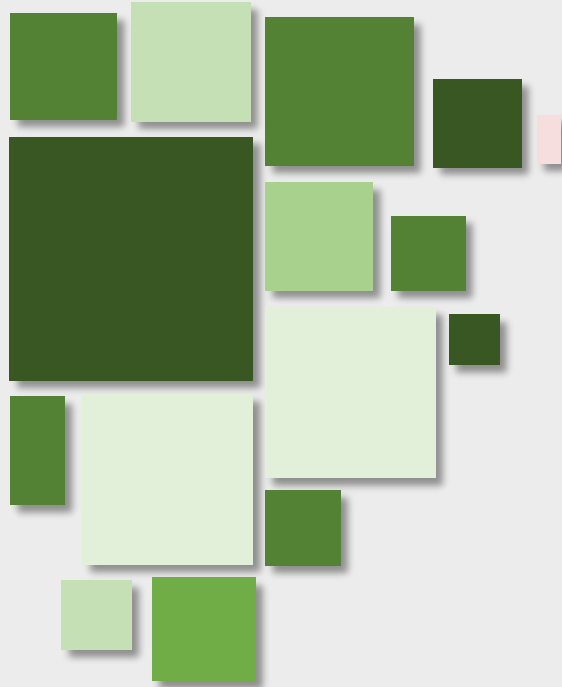


1.2 Potential DBD Donors

In 2021, there were 322 potential DBD donors and the annual trend of potential DBD donors since 1986 has shown a total of 9,132 potential DBD donors reported to SCOT. (See figure 1.2.1).

The 322 potential DBD donors were fully documented based on the Saudi National Protocol for Diagnosis of Death by Brain Function Criteria and had shown a decrease since the previous year due to the occurrence of a global pandemic and on the contrary, non-documented cases continued to show a decreasing pattern since 2012 (see figure 1.2.2 & 1.2.3 cumulative).

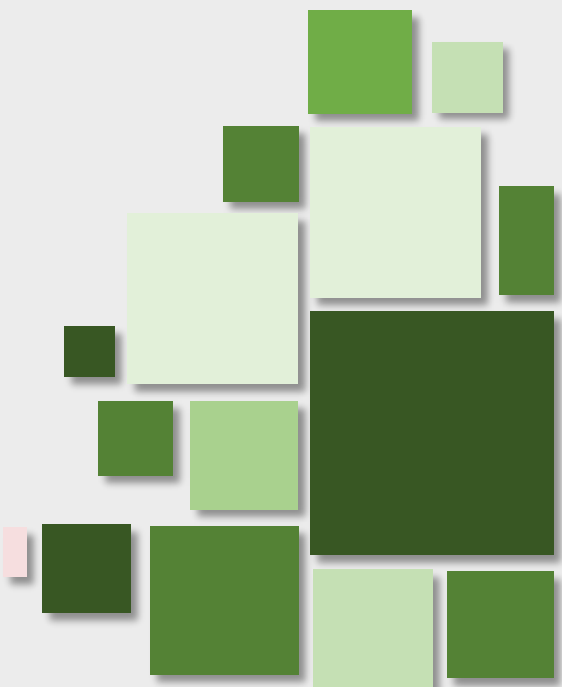




1.3 Eligible DBD Donors

(A medically suitable person who has been declared dead based on neurological criteria as stipulated by the law of the relevant jurisdiction)

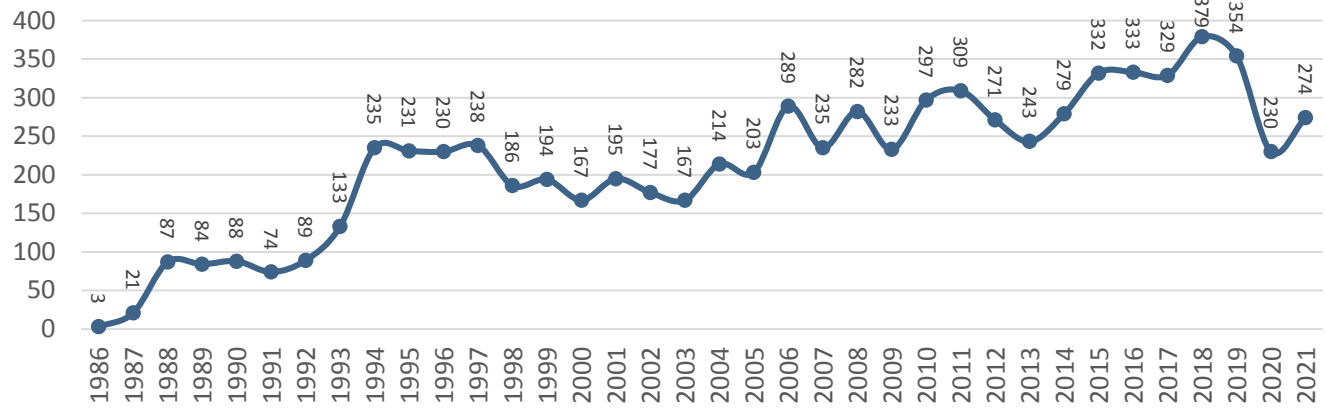
Confirmed brain death by neurological criteria patients and family were approached for Organ donation





Annual Trend of Approached Eligible DBD Donors

Figure 1.3.1

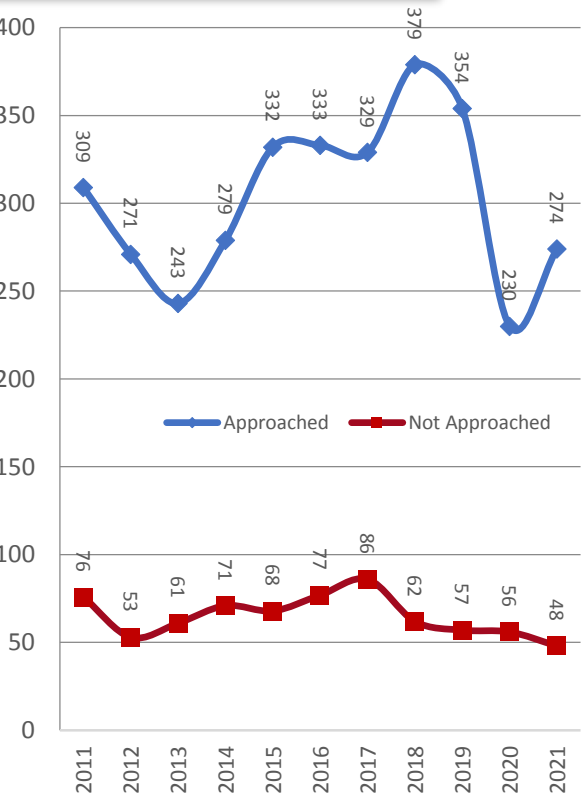


1.3 Eligible DBD Donors

In 2021, there were 274 eligible DBD donors (the donors next of kin was approached for organ donation) and since 1986, a total of 7,685 eligible DBD donor’s kin were approached by SCOT (see figure 1.3.1). Approached and not approached families of DBD donors for organ donation were also documented yearly and cumulatively from 1986. In addition, the number of eligible donors or family approached for organ donation has slightly improved yielding 85% of the donor’s conversion from potential to eligible donors. (See figure 1.3.2 & 1.3.3).

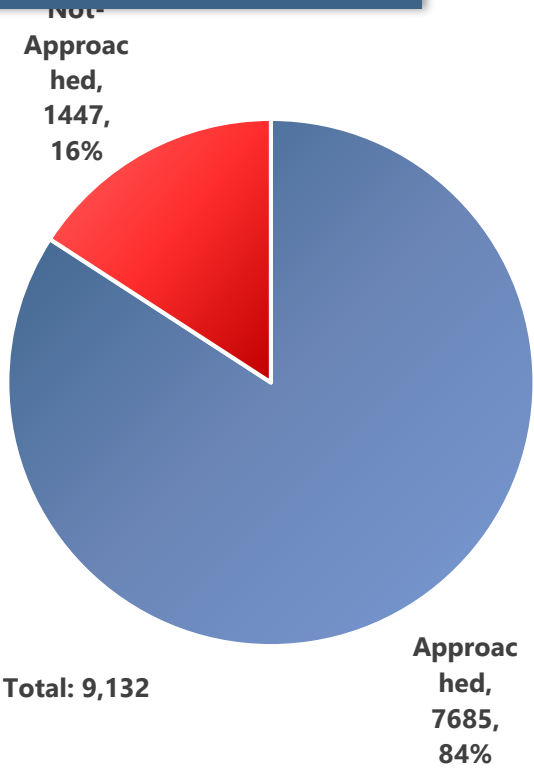
Approached and Not-Approached Eligible DBD Donors

Figure 1.3.2



Approached and Not-Approached Eligible DBD Donors (1986-2019)

Figure 1.3.3

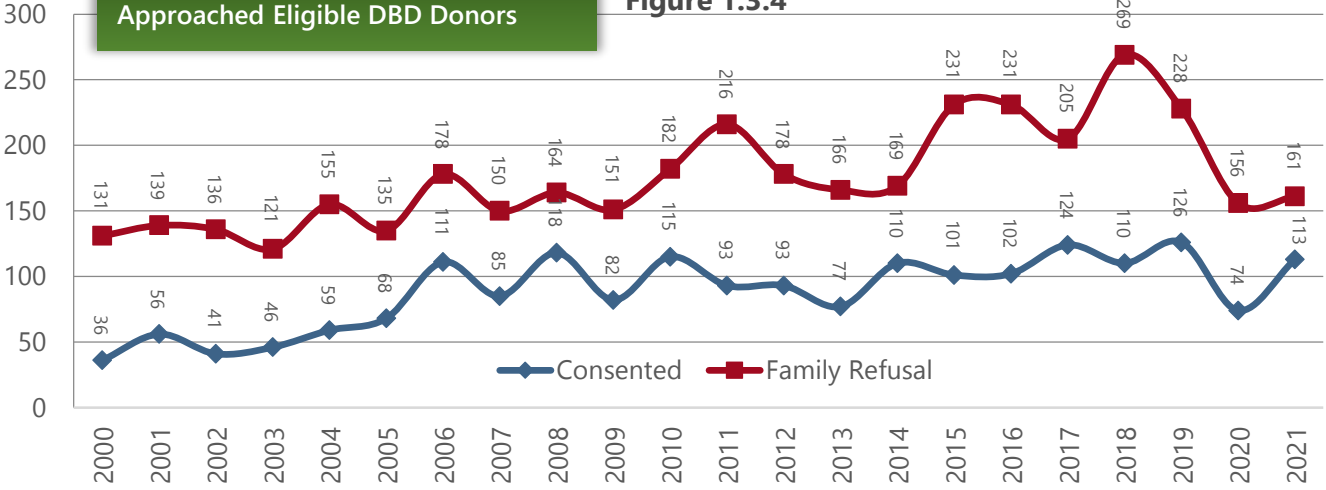




Deceased Donation after Brain Death and Organ Donation

Consented and Non-Consented
Approached Eligible DBD Donors

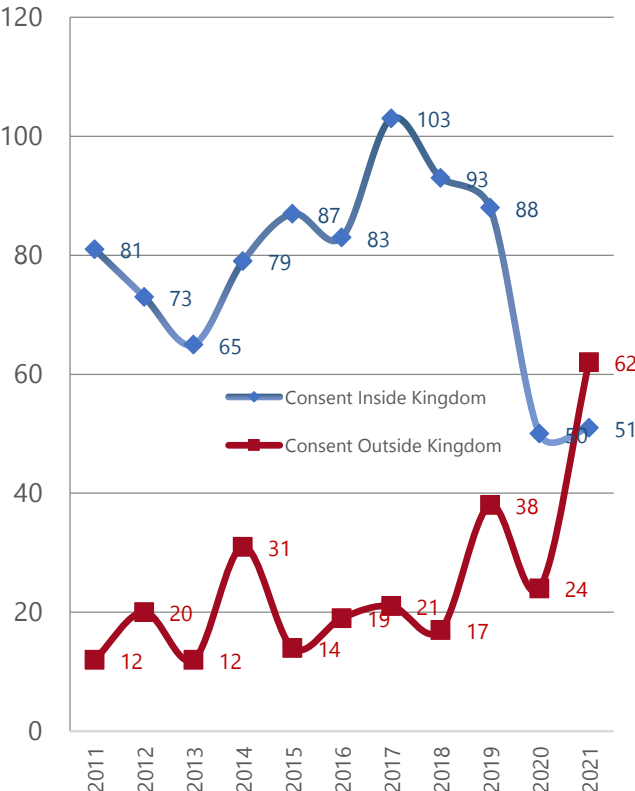
Figure 1.3.4



In 2021, there were a total of 113 (41%) consented cases for organ and tissue donation of the 274 approached eligible DBD donors the highest recorded consent DBD donors over the last 20 years. (see figure 1.3.5 & 1.3.6 cumulatively). The trend of consented eligible DBD donors including the consents from outside the Kingdom of Saudi Arabia in 1997-2021 is shown in (figure 1.3.4).

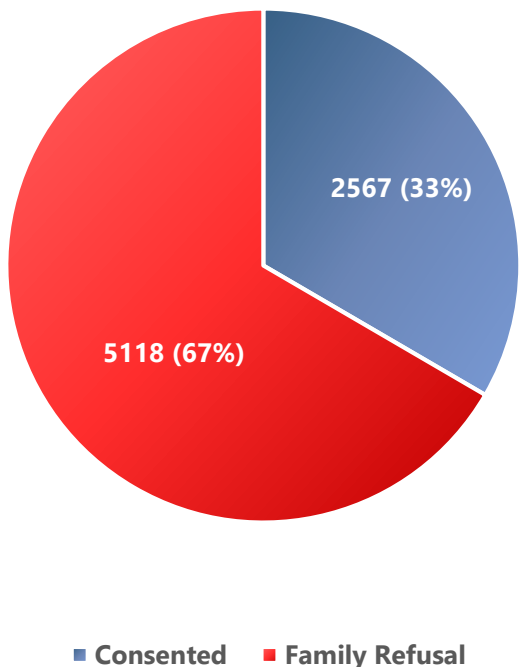
Annual Trend of Consented
Eligible DBD Donors

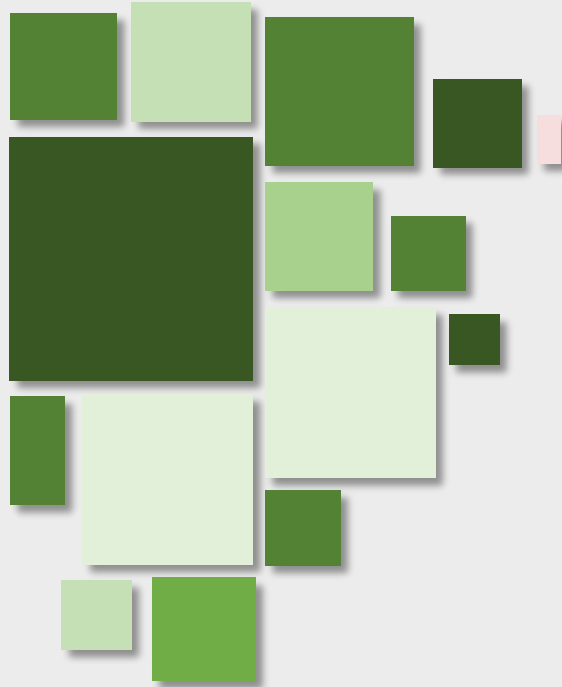
Figure 1.3.5



Consented and Non-Consented
Approached Eligible DBD Donors
(1986-2021)

Figure 1.3.6

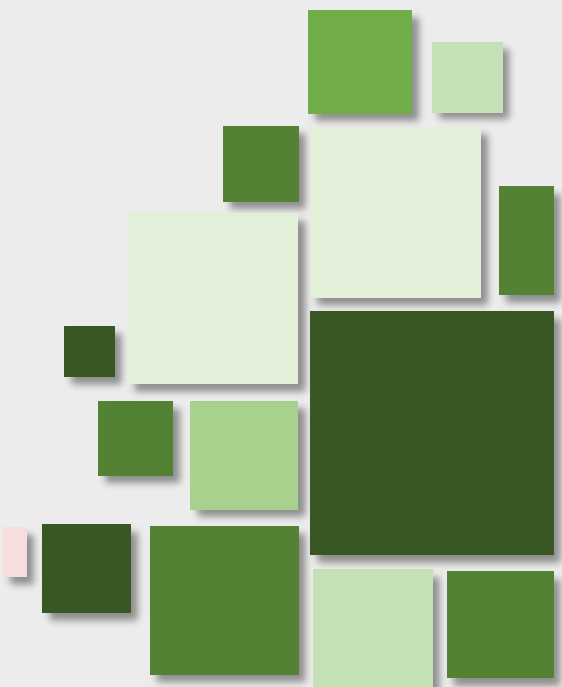


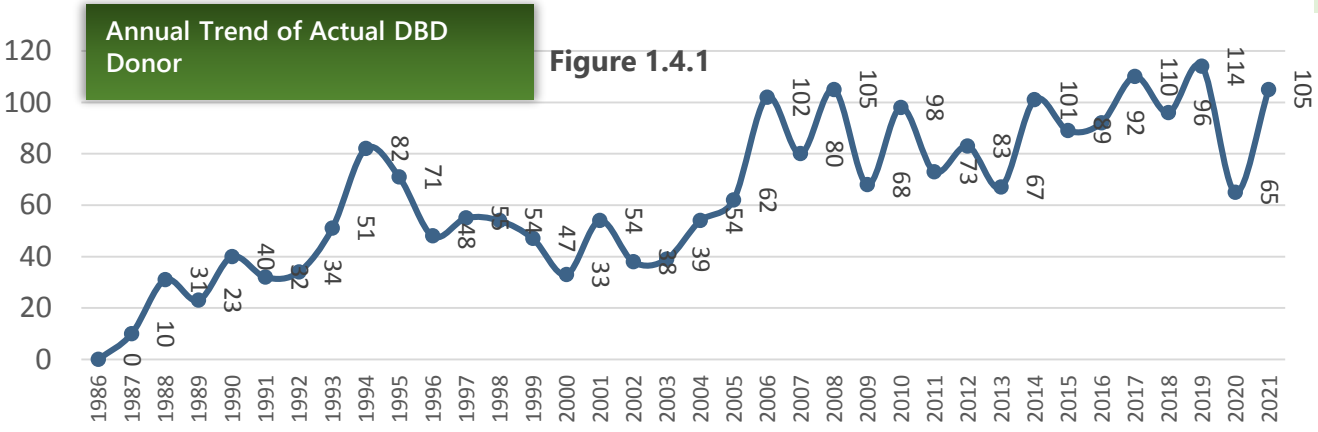


1.4 Actual DBD Donors

A consented eligible donor:

- A. An operative incision was made with intent of organ recovery for transplantation
- B. From whom at least one organ was recovered for transplantation



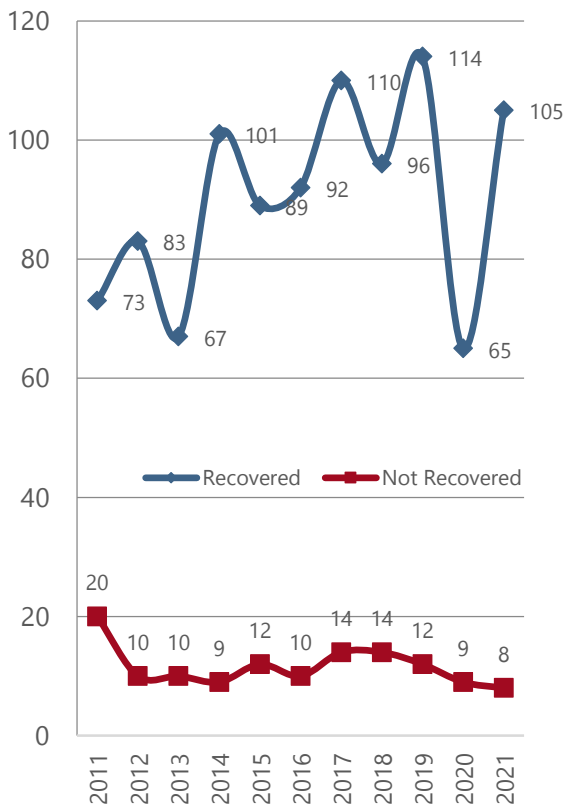


1.4 Actual DBD Donors

In 2021, 113 deceased eligible donors were consented for organ donation wherein, 105 (93%) were converted to actual DBD donors with 8 non-recovered donors (figure 1.4.2). Since 1986, a total of 2,306 consented eligible DBD donors were recovered and 261 donors were non-recovered (figure 1.4.3). The annual trend of actual DBD donors is shown in (figure 1.4.1).

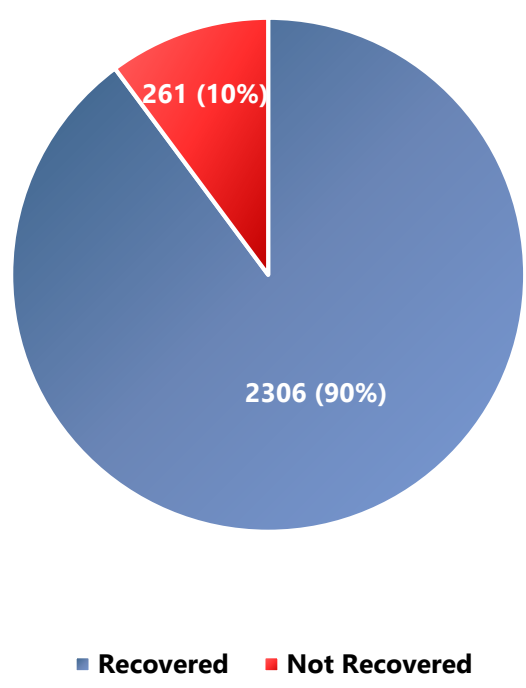
Recovered and Non-Recovered Consented Eligible DBD Donor

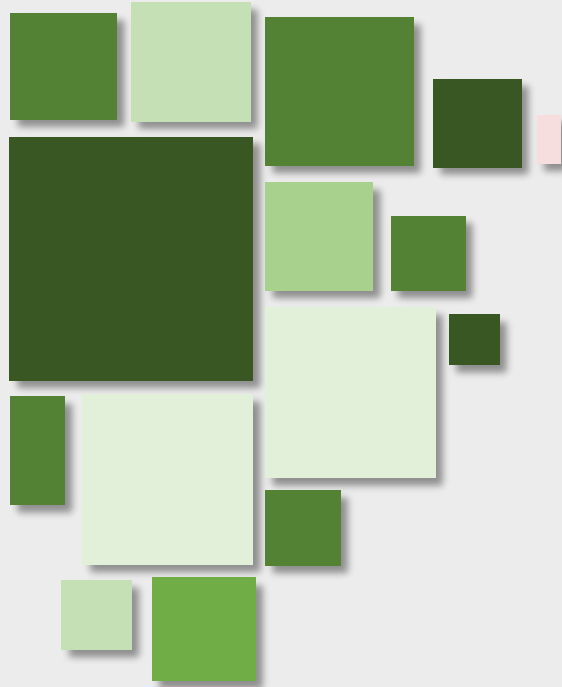
Figure 1.4.2



Recovered and Non-Recovered Consented Eligible DBD Donor (1986-2021)

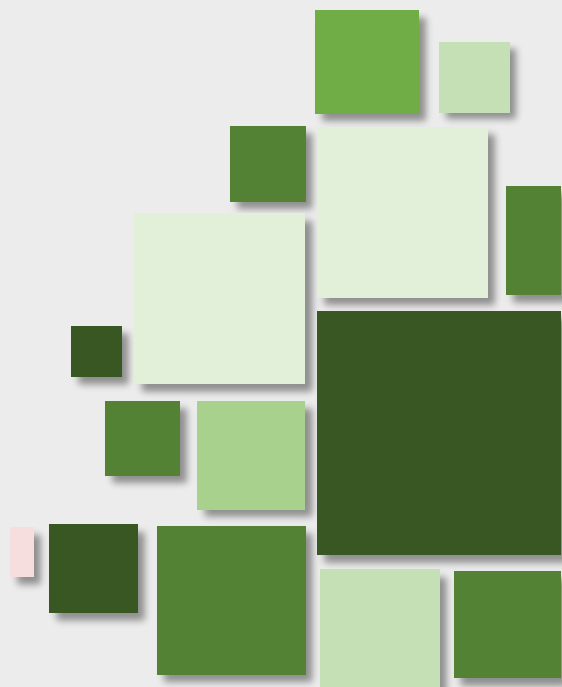
Figure 1.4.3





1.5 Utilized DBD Donors

(An actual donor from whom at least one organ was transplanted)



1.5 Utilized DBD Donor

From the 105 actual DBD donors; 102 donors were utilized; wherein, 45 donors were utilized from inside the KSA including 57 deceased were donors shared from GCC countries (it is worth mentioning that out of 57 donors offered from GCC countries 14 donors were utilized by them). Non-utilized donors were 3 from Eastern Region and 1 from Riyadh region, details of the not utilized actual DBD donors are listed in table 1.5.1. There was an increased in utilized deceased cases compared to last year.(see figure 1.5.1).

Reasons for Non-Utilized Donor	Reason for Non-Utilized
Male/65/A+ve/Post Cardiac Arrest	Infected Ascites, Pancreatitis, Pulmonary Embolism
Male/43/O+VE/Fall From Height	Positive Cultures
Male/46/O+VE/CVA	Cardiac Arrest during harvesting

Table 1.5.1: Reasons for not utilized actual DBD Donors

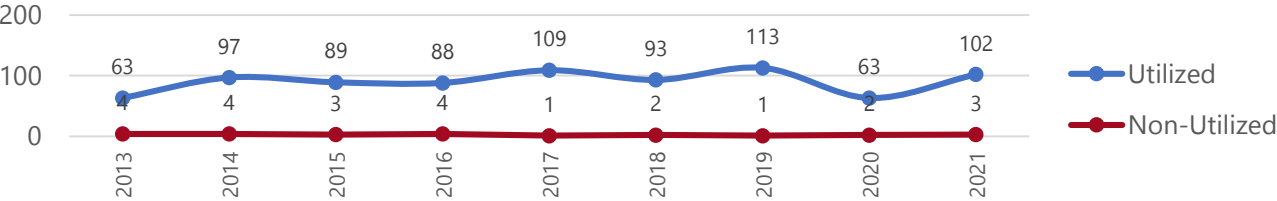


Figure 1.5.1 Utilized and Non-Utilized DBD Donors 2013-2021

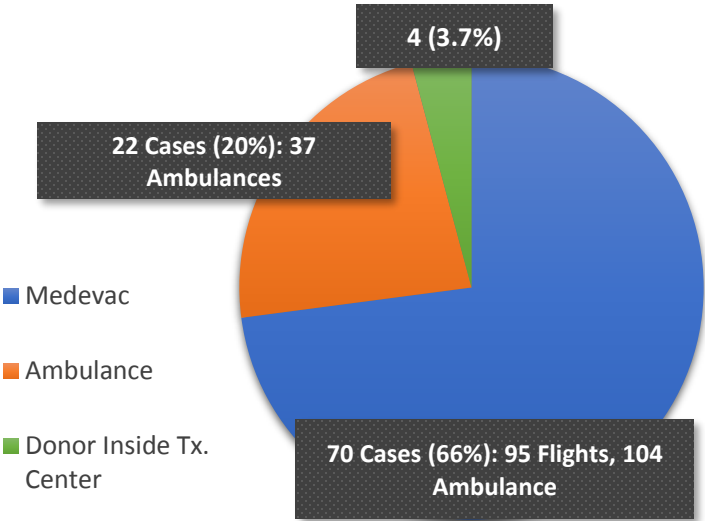
Utilized and Non-Utilized Actual DBD Donors 2021

In 2021, utilized organ donors were as follows : Kidneys 91; livers 56; hearts 48; Lungs 63; Pancreas 3.

1.5.1 Logistics

Transportation and logistics plays an important role in the success of organ donation program. Ambulances and Medevacs were used to transport personnel and organs in and out of the Kingdom. In 2021, 95 medevac flights were used in 70 cases. 126 ambulance transports in 92 cases and 4 cases the donor was in transplant center. (see figure 1.5.2 for transportation used during organ recovery).

Figure 1.5.2: Logistics used in actual deceased donors in 2021



1.6 Key Performance Indicators

The ministry of Health (MOH) is keen on the quality of health service provided and started an initiative to measure the key performance indicator (KPI) among health practices in the Kingdom. SCOT managed to include the deceased organ donation process into this initiative and had a list of quality criteria and KPI which will allow identifying rooms for improvement to maximize the deceased organ donation process overall.

The quality indicators are the following :

1. Identification and Reporting of Possible Deceased Donors

- Donor Medical Coordinator should notify all comatose patients with devastating brain injury on mechanical ventilation admitted to ICU apparently suitable for organ donation to Saudi Center for organ transplantation (SCOT)
- **Key Performance Indicator (KPI):** Number of comatose patients with devastating brain injury on mechanical ventilation admitted to ICU who are referred to SCOT / Number of comatose patients with devastating brain injury on mechanical ventilation admitted to ICU should be at least **75%**
- Donor Medical Coordinator should refer to the Directory of regulation of organ transplantation in kingdom of Saudi Arabia on the referral criteria and clinical triggers.

2. Death Declaration by neurological Criteria:

1.1. Number of Death Declaration by neurological Criteria:

- Donor Medical Coordinator should follow Death declaration by neurological criteria according to Saudi national protocol for referred possible donors to SCOT
- **Key Performance Indicator (KPI):** Number of patients declared dead by neurological criteria according to Saudi national protocol/Number of patients referred as possible donors to SCOT should be at least **75%**.
- Donor Medical Coordinator should refer to Directory of regulation of organ transplantation in kingdom of Saudi Arabia on the Saudi national protocol for death declaration by neurological criteria.

1.2. Time of Death Declaration by neurological Criteria

- **Key Performance Indicator (KPI):** Patients referred as possible donors to SCOT should be declared dead by neurological criteria according to Saudi national protocol within **24** hours from time of referral.

1.3 Post Death Declaration (Breaking bad news)

- **Key Performance Indicator (KPI):** Families of patients declared dead by neurological criteria according to Saudi national protocol should be informed about death of their relatives within **12** hours from time of death declaration.

3. Management and maintenance of Deceased Organ donor

3.1 Management Protocol

- **Key Performance Indicator (KPI):** All Hospitals should **apply** the Saudi national protocol for management and maintenance of deceased organ donor to all Patients referred as possible donors to SCOT during the whole hospital / ICU stay

3.2 Unexpected Cardiac Arrest

- **Key Performance Indicator (KPI):** Number of Patients referred as possible donors to SCOT who suffered unanticipated cardiac arrest / Number of Patients referred, as possible donors to SCOT during the whole hospital/ ICU stay should be maximum **5%** if applicable.
- Unanticipated cardiac arrest is cardiac arrest that occurs from the moment at which brain death is suspected or afterwards and that is not attributable to multi-organ failure / sepsis.

4. Family Approach

- Donor Administrative Coordinator should interview Families of patients declared dead by neurological criteria according to Saudi national protocol
- **Key Performance Indicator (KPI) :** Number of patients' families declared dead by neurological criteria according to Saudi national protocol who were interviewed by DAC for organ donation within **12** hours from breaking bad news / Number of patients declared dead by neurological criteria according to Saudi national protocol should be at least **90 %**
- Donor Administrative Coordinator should refer to Directory of regulation of organ transplantation in kingdom of Saudi Arabia on family approach for organ donation.

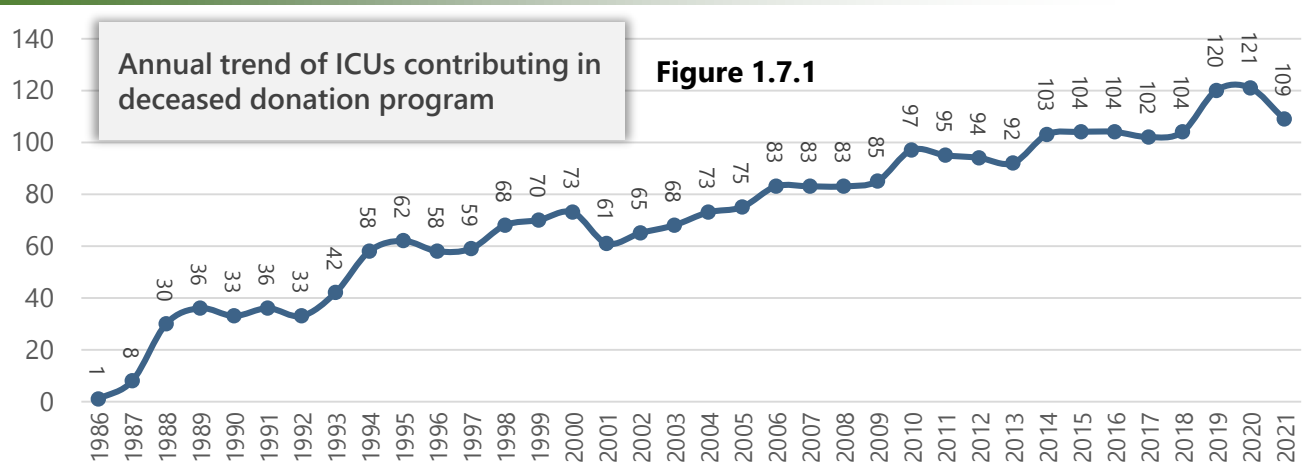
5. Consent

- Donor Administrative Coordinator should follow the process of obtaining written consent from next of kin.
- **Key Performance Indicator (KPI):** Number of no opposition / Number of families interviewed should be at least **50 %**.
- Donor Administrative Coordinator should refer to Directory of regulation of organ transplantation in kingdom of Saudi Arabia on getting consent for organ donation.



Hospital Contribution in Organ Donation Program





In 2021, 109 ICU's reported a possible DBD donors to Saudi Center for Organ Transplantation (SCOT). These ICU's were divided into three categories; large (>20 ICU beds), medium (10-20 ICU beds) and small (<10 ICU beds). The top 3 hospital with the most consented cases are mentioned below with their corresponding ICU beds.

Total Number of DBD Donor for All Type Hospitals **Table 1.7.1**

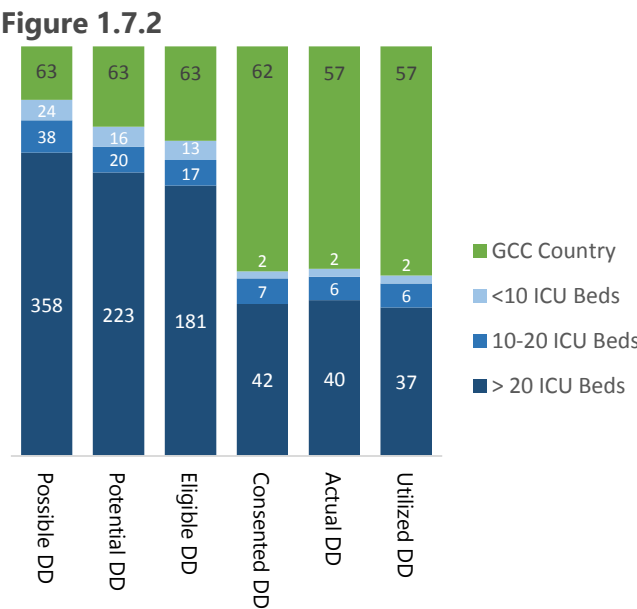
Hospital Category	No. of ICU	Possible	Potential	Eligible	Consented	Actual	Utilized
Greater than 20 ICU Beds	64	358	223	181	42	40	37
10 - 20 ICU Beds	15	38	20	17	7	6	6
Less than 10 ICU Beds	15	24	16	13	2	2	2
GCC Countries	15	63	63	63	62	57	57
TOTAL	109	483	322	274	113	105	102

Hospitals with >20 beds (64) reported 358 cases (74% of the total), of which 165 (69%) were fully documented, 30 (37%) were consented for donation.

In this group, The King Saud Medical City, is a consistent top contributing hospital of deceased organ donors, with 77 possible, 49 potential (documented) and 7 consented-utilized donors, followed by King Abdulaziz Medical City National Guard Riyadh with 36 possible, 30 potential and 3 consented-utilized donors.

Other hospitals with high reporting numbers were, King Abdulaziz Hospital Jeddah, King Fahad Hospital Jeddah, Al noor Hospital Makkah, and King Fahad Medical Riyadh.

Deceased Organ Donation by Hospital ICU Capacity



In 2021, from this category of hospitals with ICU's having more than 20 beds capacity, contributed 358 possible donors, documented (potential) 223 donors and utilized 37 organ donors. The top 5 reporting hospitals were the King Saud Medical City Riyadh with 77 possible donors, documented (potential) 49 donors and utilized 7 organ donors, followed by King Abdulaziz Medical City National Guard Riyadh with 36, 30 and 3; King Abdulaziz Hospital Jeddah 17, 5 and 1; King Fahad Hospital Jeddah 15, 6 and 1 and Al Noor Specialist Hospital Makkah 14, 2 and 1. It worth mentioning that King Khaled University Hospital Riyadh and Dr. Suleiman Al Habib Hospital Suweidi had 3 utilized donors out of 10 and 9 reported deceased donors respectively.

Table 1.7.2 Hospitals with ICU's Having More than 20 Beds

No.	HOSPITAL NAME	POSSIBLE	POTENTIAL	ELIGIBLE	CONSENTED	ACTUAL	UTILIZED
1	KING SAUD MEDICAL CITY RIYADH	77	49	38	7	7	7
2	KING ABDULAZIZ MEDICAL CITY NATIONAL GUARD RIYADH	36	30	26	3	3	3
3	KING ABDULAZIZ HOSPITAL JEDDAH	17	5	4	1	1	1
4	KING FAHAD HOSPITAL JEDDAH	15	6	5	1	1	1
5	AL NOOR SPECIALIST HOSPITAL MAKKAH	14	2	1	1	1	1
6	KING FAHAD MEDICAL CITY RIYADH	13	8	7	1	1	1
7	KING KHALID UNIVERSITY HOSPITAL RIYADH	10	8	8	3	3	2
8	DR. SULAIMAN AL HABIB HOSPITAL AL SWEIDI	9	8	7	4	3	3
9	DAMMAM MEDICAL COMPLEX	8	4	4	2	2	1
10	KING KHALID HOSPITAL HAIL	8	1	0	0	0	0
11	QATEEF CENTRAL HOSPITAL	8	5	2	1	1	1
12	EAST JEDDAH HOSPITAL	7	1	1	0	0	0
13	KING ABDULLAH MEDICAL CITY MAKKAH	6	6	6	1	0	0
14	KING FAHAD SPECIALIST HOSPITAL QASSIM	6	1	1	0	0	0
15	KING FAHAD UNIVERSITY HOSPITAL AL KHOBAR	6	6	5	1	1	0
16	PRINCE SULTAN MILITARY MEDICAL CITY	6	4	3	0	0	0
17	JOHN HOPKINS ARAMCO HEALTH CARE	5	5	4	2	2	2
18	KING KHALID HOSPITAL TABUK	5	4	4	2	2	2
19	MATERNITY AND CHILDREN HOSPITAL BURAI DA	5	5	5	0	0	0
20	SANAD HOSPITAL RIYADH	5	2	1	0	0	0
21	AL HAMADI HOSPITAL AL NUZHA	4	2	1	0	0	0
22	ASSIR CENTRAL HOSPITAL	4	1	1	0	0	0
23	DALLAH HOSPITAL RIYADH	4	3	3	1	1	1
24	DR. SULAIMAN AL HABIB HOSPITAL AL RAYAN	4	4	3	0	0	0
25	KING FAHAD HOSPITAL HOFUF	4	3	1	0	0	0
26	KING FAHAD SPECIALIST HOSPITAL DAMMAM	4	2	2	0	0	0
27	KING FAISAL SPECIALIST HOSPITAL JEDDAH	4	4	4	2	2	2

Table 1.7.2 Hospitals with ICU's Having More than 20 Beds (Continuation)

No.	HOSPITAL NAME	POSSIBLE	POTENTIAL	ELIGIBLE	CONSENTED	ACTUAL	UTILIZED
28	KING FAISAL SPECIALIST HOSPITAL RIYADH	4	4	3	1	1	1
29	SPECIALIZED MEDICAL CENTER RIYADH	4	3	3	0	0	0
30	AL HADA MILITRY HOSPITAL TAIF	3	2	1	0	0	0
31	KING ABDULAZIZ MEDICAL CITY NATIONAL GUARD JEDDAH	3	3	3	1	1	1
32	KING FAHAD HOSPITAL MADINAH	3	3	2	0	0	0
33	KING KHALID GENERAL HOSPITAL NAJRAN	3	3	3	3	3	3
34	MATERNITY AND CHILDREN HOSPITAL HAFAR AL BATEN	3	0	0	0	0	0
35	PRINCE MOHAMMED BIN ABDULAZIZ HOSPITAL RIYADH	3	3	3	0	0	0
36	SECURITY FORCES HOSPITAL RIYADH	3	3	2	0	0	0
37	AL RASS GENERAL HOSPITAL	2	1	1	1	1	1
38	AL MOWASAT HOSPITAL RIYADH	2	2	2	0	0	0
39	KING ABDULAZIZ UNIVERSITY HOSPITAL JEDDAH	2	1	0	0	0	0
40	KING FAISAL HOSPITAL MAKKAH	2	1	1	0	0	0
41	MATERNITY AND CHILDREN HOSPITAL DAMMAM	2	2	1	1	1	1
42	MATERNITY AND CHILDREN HOSPITAL MAKKAH	2	1	0	0	0	0
43	PRINCE ABDULAZIZ BIN MUSAAD HOSPITAL AR AR	2	2	2	0	0	0
44	AL HAMADI HOSPITAL SWAIDI	1	0	0	0	0	0
45	AL YAMAMAH HOSPITAL RIYADH	1	1	0	0	0	0
46	AR AR CENTRAL HOSPITAL	1	0	0	0	0	0
47	BURAIDA CENTRAL HOSPITAL	1	0	0	0	0	0
48	CARE NATIONAL HOSPITAL	1	0	0	0	0	0
49	DAWADMI GENERAL HOSPITAL	1	0	0	0	0	0
50	DR. ABDULRAHMAN AL MISHARI HOSPITAL RIYADH	1	1	1	0	0	0
51	DR. SULAIMAN AL HABIB HOSPITAL AL KHOBAR	1	1	1	1	1	1
52	IMAM ABDULRAHMAN AL FAISAL HOSPITAL RIYADH	1	1	1	0	0	0
53	KING ABDULAZIZ HOSPITAL MAKKAH	1	0	0	0	0	0
54	KING ABDULLAH HOSPITAL BISHA	1	0	0	0	0	0
55	KING FAHAD ARMED FORCES HOSPITAL JEDDAH	1	0	0	0	0	0
56	KING FAHD MILITARY MEDICAL COMPLEX DAHRAN	1	1	1	1	1	1
57	KING FAISAL HOSPITAL TAIF	1	1	0	0	0	0
58	KING SALMAN MILITARY HOSPITAL TABUK	1	1	1	0	0	0
59	KING SAUD HOSPITAL UNAIZA	1	1	1	0	0	0
60	MATERNITY AND CHILDREN HOSPITAL ABHA	1	0	0	0	0	0
61	PRINCE MUTAIB BIN ABDULAZIZ HOSPITAL AL JOUF	1	1	0	0	0	0
62	SAUDI GERMAN HOSPITAL DAMMAM	1	0	0	0	0	0
63	AL QURAYYAT GENERAL HOSPITAL	1	0	0	0	0	0
64	AL MOOSA SPECIALIST HOSPITAL AL HASSA	1	1	1	0	0	0
		358 (74%)	223	181	42 (37%)	40	37

¹Percentage from total possible donors
²Percentage from total consented donors

From the mid-sized hospital ICU's having 10-20 beds capacity contributed 38 possible donors, documented (potential) 20 donors and utilized 6 organ donors. The top 5 reporting hospitals were the King Salman Hospital Riyadh with 10 possible donors, documented (potential) 5 donors a 2 utilized organ donors, King Khalid General Hospital Hafar Al Baten with 6 possible donors, documented (potential) 5 donors but none were utilized, King Khalid Hospital Al Kharj with 3, 0 and 0, Saud Al Babtain Cardiac Center 3, 2 and 0, Saudi German Hospital Jeddah 3, 1 and 1. Overall, there was less activity from this category in terms of reporting a possible donor compared to last year.

Table 1.7.3 Hospitals with ICU's Having 10 to 20 Beds

No.	HOSPITAL NAME	POSSIBLE	POTENTIAL	ELIGIBLE	CONSENTED	ACTUAL	UTILIZED
1	KING SALMAN HOSPITAL RIYADH	10	5	5	2	2	2
2	KING KHALID GENERAL HOSPITAL HAFAR AL BATIN	6	5	3	0	0	0
3	KING KHALID HOSPITAL AL KHARJ	3	0	0	0	0	0
4	SAUD ALBAPTAIN CARDIAC CENTER	3	2	2	0	0	0
5	SAUDI GERMAN HOSPITAL JEDDAH	3	1	1	1	1	1
6	AL MANA GENERAL HOSPITAL ALAHS	2	1	1	1	1	1
7	AL MANA GENERAL HOSPITAL DAMMAM	2	2	2	1	1	1
8	SAUDI GERMAN HOSPITAL RIYADH	2	1	1	0	0	0
9	AL NARIYA GENERAL HOSPITAL	1	1	1	1	0	0
10	AL THAGER HOSPITAL JEDDAH	1	0	0	0	0	0
11	DR. MOHAMMAD AL FAGIH HOSPITAL RIYADH	1	1	1	1	1	1
12	DR. SAMIR ABBAS HOSPITAL JEDDAH	1	1	0	0	0	0
13	SHAROURAH GENERAL HOSPITAL	1	0	0	0	0	0
14	AL JEDDANI HOSPITAL JEDDAH	1	0	0	0	0	0
15	KHAMIS MUSHAYAT GENERAL HOSPITAL	1	0	0	0	0	0
		38	20	17	7	6	6

¹Percentage from total possible donors

²Percentage from total consented donors

Small hospital ICU's having less than 10 ICU beds capacity contributed 24 possible donors, documented (potential) 16 donors and utilized 2 organ donors. The top reporting hospitals were Royal Commission Yanbu Medical Center with 4 possible, 3 potential but no consent was obtained, Al Mana General Hospital Jubail with 3 possible, 3 potential and 1 utilized donor, Hai Al Jamea Hospital Jeddah with 3 reported case, Elite Hospital 2, 2 and no consented donors, and Jubail General Hospital with 2, 1 and 0 consent.

Table 1.7.4 Hospitals with ICU's Having Less than 10 Beds

No.	HOSPITAL NAME	POSSIBLE	POTENTIAL	ELIGIBLE	CONSENTED	ACTUAL	UTILIZED
1	ROYAL COMMISSION YANBU MEDICAL CENTER	4	3	2	0	0	0
2	AL MANA GENERAL HOSPITAL JUBAIL	3	3	3	1	1	1
3	HAI AL JAMEA HOSPITAL JEDDAH	3	0	1	0	0	0
4	ELITE HOSPITAL RIYADH	2	2	1	0	0	0
5	JUBAIL GENERAL HOSPITAL	2	1	0	0	0	0
6	AL AHSA HOSPITAL	1	1	1	0	0	0
7	AL MOWASAT HOSPITAL DAMMAM	1	0	0	0	0	0
8	AL ZAHRA GENERAL HOSPITAL-QATEEF	1	1	1	1	1	1
9	ANFAS AL RAHA HOSPITAL RIYADH	1	1	1	0	0	0
10	JEDDAH NATIONAL HOSPITAL	1	0	0	0	0	0
11	KING ABDULAZIZ AIRBASE HOSPITAL DHAHRAN	1	1	1	0	0	0
12	MILITARY HOSPITAL ALKHARJ	1	1	1	0	0	0
13	DAR AL SHIFA HOSPITAL RIYADH	1	1	1	0	0	0
14	DR. GHASSAN N PHAROAN HOSPITAL	1	1	0	0	0	0
15	PROCARE HOSPITAL AL KHOBAR	1	0	0	0	0	0
		24	16	13	2	2	2

¹Percentage from total possible donors

²Percentage from total consented donors

Hospitals with ICU's Organ Sharing from GCC Countries

Deceased organ sharing is well established within the GCC countries and this year it had contributed 63 possible donors, documented (potential) 63 donors and utilized 57 organ donors. All deceased donors shared to KSA were from Kuwait and UAE. Wherein from Kuwait KSA utilized and organ from 17 Donors, and 26 donors were utilized from UAE.

Table 1.7.5 Hospitals outside the Kingdom of Saudi Arabia

No.	HOSPITAL NAME	POSSIBLE	POTENTIAL	ELIGIBLE	CONSENTED	ACTUAL	UTILIZED
1	CLEVELAND CLINIC ABUDABI	22	22	22	22	20	20
2	FARWANIYA HOSPITAL KUWAIT	9	9	9	9	7	7
3	MUBARAK AL KABEER HOSPITAL KUWAIT	5	5	5	5	5	5
4	JAHRA HOSPITAL KUWAIT	4	4	4	3	3	3
5	TAWAM HOSPITAL AL AIN UAE	4	4	4	4	4	4
6	KING'S COLLEGE HOSPITAL DUBAI	3	3	3	3	3	3
7	RASHID HOSPITAL UAE	3	3	3	3	2	2
8	SABAH HOSPITAL KUWAIT	3	3	3	3	3	3
9	SHEIKH KHALIFA MEDICAL CITY	3	3	3	3	3	3
10	AL ADAN HOSPITAL KUWAIT	2	2	2	2	2	2
11	DUBAI HOSPITAL	1	1	1	1	1	1
12	MEDCLINIC PARKVIEW HOSPITAL DUBAI	1	1	1	1	1	1
13	SHEIKH SHAKBOUT MEDICAL CITY	1	1	1	1	1	1
14	ZULEKHA HOSPITAL DUBAI	1	1	1	1	1	1
15	AMERICAN HOSPITAL DUBAI	1	1	1	1	1	1
		63 (13%)	63	63	62 (55%)	57	57

62 consented cases – 57 were utilized out of which 43 cases an organ was utilized in KSA and 14 cases were utilized by the GCC countries.

¹Percentage from total possible donors

²Percentage from total consented donors

Distribution of consents in KSA have shown that 24 (21%) consents were obtained from the Central region (4 MOH hospitals, 3 Govt. Non-MOH and 3 private hospitals), followed by Eastern region with 14 consents (4 from MOH hospitals, 3 Govt.-Non-MOH and 5 from Private). Western 8 (4 MOH hospitals, 2 Govt.-Non-MOH and 1 Private). Southern 3 (from 1 MOH hospital) and Northern region 2 (from 1 MOH hospital). This year the huge volume of consented donors were from GCC countries (55%) with UAE and Kuwait having 40 and 22 consented donors respectively (see table 1.7.6).

Table 1.7.6 Distribution of possible, consented and actual deceased donors according to region 2021

Region	No. of Hospitals	Possible DD	Consent for Organ Donation	Actual DD
Central (Riyadh, Kharj and Qassim)	34	226	24	23
Western (Jeddah, Makkah, Madinah & Taif)	23	96	8	7
Eastern (Dammam, Hofuf, Al Khobar, Dhahran, Khafji, Qateef, Jubail & Hafar Al Baten)	24	68	14	13
Northern (Tabuk, Al Jouf, Hail and Northern Borders)	7	19	2	2
Southern (Assir, Al Baha, Gizan & Najran)	6	11	3	3
Outside KSA (Kuwait, UAE)	15	63	62	57
Total	109	483	113	105

A total number of 109 hospitals had reported 483 possible deceased donors (DD) this year of 2021 wherein, 113 consents were obtained for organ donation & 105 donors were converted to actual deceased organ donors.

Figure 1.7.3 Deceased Organ Donation Activity in KSA by Region

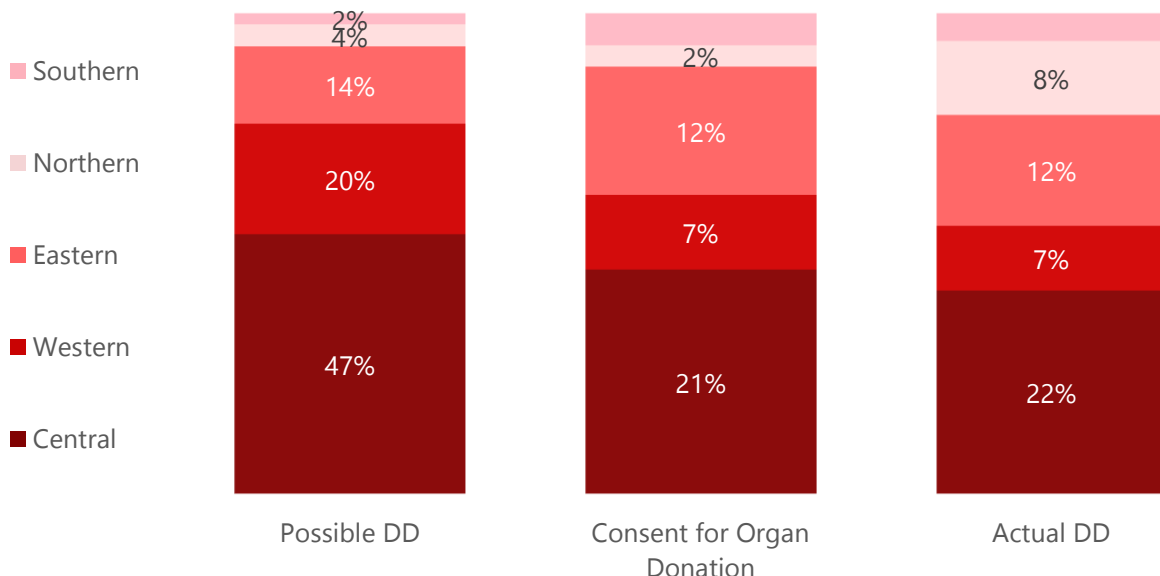


Table 1.7.7 Deceased Organ Donation Activity in KSA by Sector 2021

Region	Number of hospitals	Possible DD	Consent for Organ Donation	Actual DD
Ministry of Health	47	265	25	23
Government Non-MOH	17	91	14	16
Private sectors	30	64	12	11
Total in KSA	94	420	51	50
GCC country	15	63	62	57
Total Overall KSA and GCC	109	483	113	102