



Ministers' Deputies

CM Documents

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1235 Meeting, 15-16 September 2015

6 Social cohesion

6.2 European Directorate for the Quality of Medicines and Healthcare (EDQM)¹ –

European Committee on Organ Transplantation (Partial Agreement) (CD-P-TO) – Resolution CM/Res(2015)11 on establishing harmonised national living donor registries with a view to facilitating international data sharing – Explanatory Memorandum

Explanatory Memorandum Resolution CM/Res(2015)11 on establishing harmonised national living donor registries with a view to facilitating international data sharing

This Explanatory Memorandum to Resolution CM/Res(2015)11 provides the detailed list of parameters intended for inclusion in any national living donor registry, defining a mandatory data set and an expanded set of variables, as well as those to be included in a 'registry of registries' aimed at international data sharing. It also contains a glossary of terms intended to provide clarity on the way each parameter should be measured or collected and to facilitate harmonised international data sharing.

The set of variables and the glossary of terms are the ones developed under the EU Joint Action 'Achieving Comprehensive Coordination in Organ Donation throughout the European Union (ACCORD)' (www.accord-ia.eu).

The parameters detailed in the data set may be revised in the future in keeping with developments in the field.

This Explanatory Memorandum contains the following sections:

- 1. National registry: KIDNEY
- 1.1 Donor demographic information
- 1.2 Pre-donation data
- 1.3 Peri- and post-operative data (until discharge)
- 1.4 Follow-up data

¹ States concerned: Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, "the former Yugoslav Republic of Macedonia", Turkey, Ukraine and United Kingdom.

Internet: http://www.coe.int/cm

2. Registry of Registries: KIDNEY

- 2.1 Donor demographic information
- 2.2 Pre-donation data
- 2.3 Peri- and post-operative data (until discharge)
- 2.4 Follow-up data

3. National registry: LIVER

- 3.1 Donor demographic information
- 3.2 Pre-donation data
- 3.3 Peri- and post-operative data (until discharge)
- 3.4 Follow-up data

4. Registry of Registries: LIVER

- 4.1 Donor demographic information
- 4.2 Pre-donation data
- 4.3 Peri- and post-operative data (until discharge)
- 4.4 Follow-up data

5. Glossary of terms

The proposed parameters for each of the above sub-sections are classified as 'Mandatory' (M) or 'Optional' (O).

1. **NATIONAL REGISTRY: KIDNEY**

1.1 DONOR DEMOGRAPHIC INFORMATION

No.	Item	Definition	Units	Mandatory/ Optional
1	Identification (ID number)	The unique identification code that is given by the national authorities to each person		М
2	Date of birth	·	DD/MM/YYYY	0
3	Age	Actual age at the time of donation	years, no decimals	M
4	Gender		Male/Female	M
5	Weight		kg, no decimals	M
6	Height		cm, no decimals	M
7	Blood group	Menu: - A - B - O - AB	Choosing one item from this menu	M
8	Address		Open field	0
9	Country of residence		ISO code 3166	М
10	Nationality		ISO code 3166	M
11	Ethnicity	Menu: - White - Asian - Black - Oriental - Mixed, please specify Other, please specify	Choosing one item from this menu and free text field for 'specify'	0

1.2 PRE-DONATION DATA

No.	Item	Definition	Units	Mandatory/ Optional
1	Relation type	A living donor has one of the following three possible relationships with the recipient ² : - A/ Related - A1/ Genetically related: a. 1st degree genetic relative: parent, sibling, offspring b. 2nd degree genetic relative: e.g. grandparent, grandchild, aunt, uncle, niece, nephew c. Other than 1st or 2nd degree genetically related, for example cousin - A2/ Emotionally related: spouse (if not genetically related), in-laws, adopted, friend - B/ Unrelated: non-related = not genetically or emotionally related	Choosing one item from this menu	M
2	Blood pressure	Actual blood pressure (independent of the method of measurement)	mmHg	0
3	Hypertension		Yes / No	0
4	Antihypertensi ve treatment	Menu: - Nothing - Diet only - Medication: - Diuretics - Beta blockers - ACE blockers	Choosing one or multiple items from this menu	M

² WHO, Global glossary of terms and definitions on Donation and Transplantation

No.	Item	Definition	Units	Mandatory/ Optional
		A2 antagonistsVasodilators/Calcium channel blockersOther		
5	Creatinine		Umol/L or mg/dl	M
6	Proteinuria	 24 hour urine collection Spot urine in gram per litre Dipstick PCR (protein creatinine ratio) 	g/24h g/L Y/N mg/mmol creat	M*
7	Any significant co-morbidity	Menu: - No - Yes, specify: - Abdominal surgery, specify Malignancies, specify Hematological disease, specify Neurological disease, specify Cardiovascular disease, specify Respiratory disease, specify Gastrointestinal disease, specify Psychiatric disease, specify Psychological disorder, specify Renal / urinary tract disease, specify Other, specify Unknown	Choosing one or multiple items from this menu and free text field for 'specify:'	M

^{*} at least one of these options should be completed.

No.	Item	Definition	Units	Mandatory/ Optional
1	Donor hospital (centre) name	List to be built by countries		M
2	Country of donor hospital	The country in which the donation takes place	ISO code 3166	М
3	Date of donation		DD/MM/YYYY	М
4	Left or right kidney		Left / Right	М
5	Operation technique	Menu: - Open technique a. Classic technique - Costal resection - No costal resection b. Mini-incision - Laparoscopic a. Standard b. Hand-assisted laparoscopic - Other, specify	Choosing one item from this menu	M
6	Complications during operation	Menu: - No complications - Blood loss: need for transfusion - Kidney damaged during retrieval a. Kidney can be used for transplantation b. Kidney is discarded for transplantation	Choosing one or multiple items from this menu and free text field for 'specify'	M

No.	Item	Definition	Units	Mandatory/ Optional
		 Other organ damaged during surgery Switch from laparoscopic procedure to open technique Cardiac arrest Other severe complications (i.e. pneumothorax, anaphylactic reaction), specify 		
7	Complications after operation – until first discharge	Menu: - No complications - Blood loss: need for transfusion - Need for re-operation - Infection (urinary, wound, other) - Thrombo/embolic complications (DVT, pulmonary embolism) - Renal Replacement Therapy, specify Cardiac arrest - Other severe complications, specify	Choosing one or multiple items from this menu and free text field for 'specify'	M
8	Length of hospital stay (LOS)	The number of days in hospital during the first admission (from day of surgery until discharge)	Number of days	0
9	Number of days in ICU	The number of days in Intensive Care Unit during the first admission (until discharge)	Number of days	0

No.	Item	Definition	Units	Mandatory/ Optional
1	Follow-up centre	List to be built by countries		М
2	Date of follow-up		DD/MM/YYYY	M
3	Donor lost to follow-up		Yes / No	М
4	Death		Yes / No	M
5	Cause of death	All coding systems are allowed		М
6	Date of death		DD/MM/YYYY	M
7	Weight		kg, no decimals	M
8	Blood pressure	Actual blood pressure (independent of the method of measurement)	mmHg	0
9	Hypertension		Yes / No	0
10	Antihypertensi ve treatment	Menu: - Nothing - Diet only - Medication: - Diuretics - Beta blockers - ACE blockers - A2 antagonists - Vasodilators/Calcium channel blockers - Other	Choosing one or multiple items from this menu	M
11	Creatinine		Umol/L or mg/dl	M
12	Proteinuria	 24 hour urine collection Spot urine in gram per litre Dipstick PCR (protein creatinine ratio) 	g/24h g/L Y/N mg/mmol creat	M*

No.	Item	Definition	Units	Mandatory/ Optional
13	Health issues	Menu: - No - Yes, specify: - Abdominal surgery, specify Malignancies, specify Hematological disease, specify Neurological disease, specify Cardiovascular disease, specify Respiratory disease, specify Gastrointestinal disease, specify Psychiatric disease, specify Psychological disorder, specify Renal / urinary tract disease, specify Renal Replacement Therapy, specify Pregnancy, specify (when) Diabetes mellitus, specify Other, specify	Choosing one or multiple items from this menu and free text field for 'specify:'	М
14	Did the donor return to previous activity level? (This item should only be collected during the 12 month follow-up visit.)	Menu: - Yes, within months - No - Unknown	Choosing one item from this menu and free text field for ' months'	0

^{*} at least one of these options should be completed.

2. REGISTRY OF REGISTRIES: KIDNEY

2.1 DONOR DEMOGRAPHIC INFORMATION

No.	Item	Definition	Units	Mandatory/ Optional
1	Identification (ID number)	The unique identification code that is given by the national authorities to each person		М
2	Date of birth		DD/MM/YYYY	0
3	Age	Actual age at the time of donation	years, no decimals	M
4	Gender		Male/Female	M
5	Weight		kg, no decimals	М
6	Height		cm, no decimals	M
7	Blood group	Menu: - A - B - O - AB	Choosing one item from this menu	M
8	Country of residence		ISO code 3166	М
9	Nationality		ISO code 3166	M
10	Ethnicity	Menu: - White - Asian - Black - Oriental - Mixed, please specify Other, please specify	Choosing one or multiple items from this menu and free text field for 'specify:'	0

2.2 PRE-DONATION DATA

No.	Item	Definition	Units	Mandatory/ Optional
1	Relation type	Menu: - Related a. Genetically b. Non-genetically - Unrelated	Choosing one item from this menu	M
2	Antihypertensi ve treatment	Menu: - Nothing - Diet only - Medication: - Diuretics - Beta blockers - ACE blockers - A2 antagonists - Vasodilators/Calcium channel blockers - Other	Choosing one item from this menu	M
3	Creatinine		Umol/L or mg/dl	M
4	Proteinuria	 24 hour urine collection Spot urine in gram per litre Dipstick PCR (protein creatinine ratio) 	g/24h g/L Y/N mg/mmol creat	M*
5	Any significant co-morbidity	Menu: - No - Yes, specify: - Abdominal surgery, specify Malignancies, specify Hematological disease, specify Neurological disease, specify Cardiovascular disease, specify Respiratory disease, specify Gastrointestinal disease, specify Psychiatric disease, specify Psychological disorder, specify Renal / urinary tract disease, specify Other, specify Unknown	Choosing one or multiple items from this menu and free text field for 'specify:'	M

^{*} at least one of these options should be completed.

No.	Item	Definition	Units	Mandatory/
				Optional
1	Country of donor hospital	The country in which the donation takes place	ISO code 3166	М
2	Date of donation		DD/MM/YYYY	М
3	Left or right kidney		Left / Right	М
4	Operation technique	Menu: - Open technique a. Classic technique - Costal resection - No costal resection b. Mini-incision - Laparoscopic a. Standard b. Hand-assisted laparoscopic - Other, specify	Choosing one item from this menu	M

No.	Item	Definition	Units	Mandatory/ Optional
5	Complications during operation	Menu: No complications Blood loss: need for transfusion Kidney damaged during retrieval a. Kidney can be used for transplantation b. Kidney is discarded for transplantation Other organ damaged during surgery Switch from laparoscopic procedure to open technique Cardiac arrest Other severe complications (i.e. pneumothorax, anaphylactic reaction), specify	Choosing one or multiple items from this menu and free text field for 'specify'	M
6	Complications after operation – until first discharge	Menu: - No complications - Blood loss: need for transfusion - Need for re-operation - Infection (urinary, wound, other) - Thrombo/embolic complications (DVT, pulmonary embolism) - Renal Replacement Therapy, specify Cardiac arrest - Other severe complications, specify	Choosing one or multiple items from this menu and free text field for 'specify'	M
7	Length of hospital stay (LOS)	The number of days in hospital during the first admission (from day of surgery until discharge)	Number of days	0
8	Number of days in ICU	The number of days in Intensive Care Unit during the first admission (until discharge)	Number of days	0

No.	Item	Definition	Units	Mandatory/ Optional
1	Date of follow- up		DD/MM/YYYY	М
2	Donor lost to follow-up		Yes / No	М
3	Death		Yes / No	M
4	Cause of death	All coding systems are allowed		М
5	Date of death		DD/MM/YYYY	M
6	Weight		kg, no decimals	M
7	Antihypertensi ve treatment	Menu: - Nothing - Diet only - Medication: - Diuretics - Beta blockers - ACE blockers - A2 antagonists - Vasodilators/Calcium channel blockers - Other	Choosing one item from this menu	M
8	Creatinine		Umol/L or mg/dl	M
9	Proteinuria	 24 hour urine collection Spot urine in gram per litre Dipstick PCR (protein creatinine ratio) 	g/24h g/L Y/N mg/mmol creat	M*

No.	Item	Definition	Units	Mandatory/ Optional
10	Health issues	Menu: - No - Yes, specify: - Abdominal surgery, specify Malignancies, specify Hematological disease, specify Neurological disease, specify Cardiovascular disease, specify Respiratory disease, specify Gastrointestinal disease, specify Psychiatric disease, specify Psychological disorder, specify Psychological disorder, specify Renal / urinary tract disease, specify Renal Replacement Therapy, specify Pregnancy, specify (when) Diabetes mellitus, specify Other, specify	Choosing one or multiple items from this menu and free text field for 'specify:'	M
11	Did the donor return to previous activity level? (This item should only be collected during the 12 month follow-up visit)	Menu: - Yes, within months - No - Unknown	Choosing one item from this menu and free text field for ' months'	0

^{*} at least one of these options should be completed.

3. NATIONAL REGISTRY: LIVER

3.1 DONOR DEMOGRAPHIC INFORMATION

No	Item	Definition	Units	Mandatory/ Optional
1	Identification (ID number)	The unique identification code that is given by the national authorities to each person		M
2	Date of birth		DD/MM/YYYY	0
3	Age	Actual age at the time of donation	years, no decimals	M
4	Gender		Male/Female	M
5	Weight		kg, no decimals	M
6	Height		cm, no decimals	M
7	Blood group	Menu: - A - B - O - AB	Choosing one item from this menu	M
8	Address		Open field	0
9	Country of residence		ISO code 3166	М
10	Nationality		ISO code 3166	M
11	Ethnicity	Menu: - White - Asian - Black - Oriental - Mixed, specify Other, specify	Choosing one item from this menu and free text field for 'specify:'	0

3.2 PRE-DONATION DATA

No.	Item	Definition	Units	Mandatory/ Optional
1	Relation type	A living donor has one of the following three possible relationships with the recipient: ³ - A/ Related - A1/ Genetically related: a. 1st degree genetic relative: parent, sibling, offspring b. 2nd degree genetic relative: e.g. grandparent, grandchild, aunt, uncle, niece, nephew c. Other than 1st or 2nd degree genetically related, for example cousin - A2/ Emotionally related: Spouse (if not genetically related), in-laws, adopted, friend - B/ Unrelated: non-related = not genetically or emotionally related	Choosing one item from this menu	M
2	Any significant co-morbidity	Menu: - No - Yes, specify: - Abdominal surgery, specify Malignancies, specify Hematological disease, specify Neurological disease, specify Cardiovascular disease, specify Respiratory disease, specify Gastrointestinal disease, specify Psychiatric disease, specify Psychological disorder, specify Other, specify Unknown	Choosing one or multiple items from this menu and free text field for 'specify:'	M

No.	Item	Definition	Units	Mandatory/
				Optional
1	Donor hospital (centre) name	List to be built by countries		M
2	Country of donor hospital	The country in which the donation takes place	ISO code 3166	M
3	Date of donation		DD/MM/YYYY	M
4	Segment donated	- 2 - 3 - 2-3 - 2-3-4 - 5-6-7-8	Choosing one item from this menu	M
5	Percentage of remnant donor liver	Menu: - <30% - 30-40% - 41-50% - 51-60% - >60%	Choosing one item from this menu	М

³ WHO, Global glossary of terms and definitions on Donation and Transplantation

No.	Item	Definition	Units	Mandatory/ Optional
6	Complications during operation	Menu: No complications Blood loss: need for transfusion Liver graft damaged during retrieval a. Liver can be used for transplantation b. Liver is discarded for transplantation Remaining liver damaged during surgery Other organ damaged during surgery Cardiac arrest Other severe complications, specify	Choosing one or multiple items from this menu and free text field for 'specify'	M
7	Complications after operation – until first discharge	Menu: - No complications - Blood loss: need for transfusion - Need for re-operation - Biliary fistula - Biliary stenosis - Infection (wound, other) - Non-infected collection - Thrombo/embolic complications (DVT, pulmonary embolism, arterial thrombosis, portal thrombosis) - Cardiac arrest - Liver insufficiency - Other severe complications, specify	Choosing one or multiple items from this menu and free text field for 'specify'	M
8	Length of hospital stay (LOS)	The number of days in hospital during the first admission (from day of surgery until discharge)	Number of days	0
9	Number of days in ICU	The number of days in Intensive Care Unit during the first admission (until discharge)	Number of days	0

No.	Item	Definition	Units	Mandatory/ Optional
1	Follow-up centre	List to be built by countries.		M
2	Date of follow- up		DD/MM/YYYY	М
3	Donor lost to follow-up		Yes / No	М
4	Death		Yes / No	M
5	Cause of death	All coding systems are allowed		М
6	Date of death		DD/MM/YYYY	M
7	Weight		kg, no decimals	M
8	Maximum bilirubin (within 15 days after surgery)		Umol/L	M
9	Maximum INR (within 15 days after surgery)		%	М

			_	T
10	AST (at 15		U/L	M
	days after			
	surgery)			
11	ALT (at 15		U/L	M
	days after			
	surgery)			
12	GGT (at 15		U/L	М
	days after			
	surgery)			
13	Platelets (at 15		10*9/L	М
13	,		10 9/2	IVI
	days after			
	surgery)			
14	Complications	Menu:	Choosing one or	M
	(within the first	- Nothing	multiple items from	
	12 months)	 Thrombo/embolic complications (DVT, 	this menu and free	
		pulmonary embolism, arterial thrombosis,	text field for	
		portal thrombosis-)	'specify:'	
		- Infection (wound, surgical site infection,		
		infected collection, other)		
		- Non-infected collection		
		- Biliary stricture		
		- Biliary fistula		
		- Liver insufficiency		
		- Hemorrhage		
		- Pleural effusion		
		 Other complications, specify 		
15	Readmission	Menu:	Choosing one item	M
	(within the first	 Yes, length of hospital stay 	and length of	
	12 months)	- No	admission in days	
	,	- Unknown		
16	Health issues	Menu:	Choosing one or	М
		- No	multiple items from	
		- Yes, specify	this menu and free	
		- Abdominal surgery, specify	text field for	
		- Malignancies, specify	'specify:'	
		- Hematological disease, specify		
		 Neurological disease, specify 		
		 Cardiovascular disease, specify 		
		 Respiratory disease, specify 		
		 Gastrointestinal disease, specify 		
		- Psychiatric disease, specify		
		 Psychological disorder, specify 		
		- Pregnancy, specify (when)		
		- Diabetes mellitus, specify		
		- Liver disease, specify		
		- Other, specify		
47	D:d 4b	- Unknown	Chapain and its	
17	Did the donor	Menu:	Choosing one item	0
	return to	- Yes, within months	from this menu and	
	previous	- No	free text field for '	
	activity level?	- Unknown	months'	
	(This item			
	should only be			
	collected			
	during the 12			
	month follow-			
1				
	up visit.)			

4. REGISTRY OF REGISTRIES: LIVER

4.1 DONOR DEMOGRAPHIC INFORMATION

No.	Item	Definition	Units	Mandatory/
				Optional
1	Identification	The unique identification code that is given by		M
	(ID number)	the national authorities to each person		
2	Date of birth		DD/MM/YYYY	0
3	Age	Actual age at the time of donation	years, no decimals	M
4	Gender		Male/Female	M
5	Weight		kg, no decimals	M
6	Height		cm, no decimals	М
7	Blood group	Menu:	Choosing one item	M
		- A	from this menu	
		- B		
		- 0		
		- AB		
8	Address		Open field	0
9	Country of		ISO code 3166	М
	residence			
10	Nationality		ISO code 3166	М
11	Ethnicity	Menu:	Choosing one or	0
		- White	multiple items from	
		- Asian	this menu and free	
		- Black	text field for	
		- Oriental	'specify:'	
		- Mixed, please specify		
		- Other, please specify		

4.2 PRE-DONATION DATA

No.	Item	Definition	Units	Mandatory/ Optional
1	Relation type	Menu: - Related a. Genetically b. Non-genetically - Unrelated	Choosing one item from this menu	M
2	Any significant co-morbidity	Menu: - No - Yes, specify: - Abdominal surgery, specify Malignancies, specify Hematological disease, specify Neurological disease, specify Cardiovascular disease, specify Respiratory disease, specify Gastrointestinal disease, specify Psychiatric disease, specify Psychological disorder, specify Other, specify Unknown	Choosing one or multiple items from this menu and free text field for 'specify:'	M

No.	Item	Definition	Units	Mandatory/ Optional
1	Country of donor hospital	The country in which the donation takes place	ISO code 3166	M
2	Date of donation		DD/MM/YYYY	М
3	Segment donated	- 2 - 3 - 2-3 - 2-3-4 - 5-6-7-8	Choosing one item from this menu	M
4	Percentage of remnant donor liver	Menu: - <30% - 30-40% - 41-50% - 51-60% - >60%	Choosing one item from this menu	М
5	Complications during operation	Menu:	Choosing one or multiple items from this menu and free text field for 'specify'	M
6	Complications after operation – until first discharge	Menu: No complications Blood loss: need for transfusion Need for re-operation Biliary fistula Biliary stenosis Infection (wound, other) Non-infected collection Thrombo/embolic complications (DVT, pulmonary embolism, arterial thrombosis, portal thrombosis) Cardiac arrest Liver insufficiency Other severe complications, specify	Choosing one or multiple items from this menu and free text field for 'specify'	M
7	Length of hospital stay (LOS)	The number of days in hospital during the first admission (from day of surgery until discharge)	Number of days	0
8	Number of days in ICU	The number of days in Intensive Care Unit during the first admission (until discharge)	Number of days	0

No.	Item	Definition	Units	Mandatory/ Optional
1	Date of follow- up		DD/MM/YYYY	M
2	Donor lost to follow-up		Yes / No	М
3	Death		Yes / No	M
4	Cause of death	All coding systems are allowed		М
5	Date of death		DD/MM/YYYY	M
6	Weight		kg, no decimals	M
7	Maximum bilirubin (within 15 days after surgery)		Umol/L	M
8	Maximum INR (within 15 days after surgery)		%	М
9	AST (at 15 days after surgery)		U/L	М
10	ALT (at 15 days after surgery)		U/L	M
11	GGT (at 15 days after surgery)		U/L	М
12	Platelets (at 15 days after surgery)		10*9/L	М
13	Complications (within the first 12 months)	 Menu: Nothing Thrombo/embolic complications (DVT, pulmonary embolism, arterial thrombosis, portal thrombosis) Infection (wound, surgical site infection, infected collection, other) Non-infected collection Biliary stricture Biliary fistula Liver insufficiency Hemorrhage Pleural effusion Other complications, specify 	Choosing one or multiple items from this menu and free text field for 'specify:'	M
14	Readmission (within the first 12 months)	Menu: - Yes, length of hospital stay days - No - Unknown	Choosing one item and length of admission in days	М

No.	Item	Definition	Units	Mandatory/ Optional
15	Health issues	Menu: - No - Yes, specify - Abdominal surgery, specify Malignancies, specify Hematological disease, specify Neurological disease, specify Cardiovascular disease, specify Respiratory disease, specify Gastrointestinal disease, specify Psychiatric disease, specify Psychological disorder, specify Pregnancy, specify (when) Diabetes mellitus, specify Liver disease, specify Other, specify Unknown	Choosing one or multiple items from this menu and free text field for 'specify:'	М
16	Did the donor return to previous activity level? (This item should only be collected during the 12 month follow-up visit)	Menu: - Yes, within months - No - Unknown	Choosing one item from this menu and free text field for ' months'	0

5. GLOSSARY OF TERMS

This glossary of terms is intended to provide clarity on the way each parameter should be measured or collected and to facilitate harmonised international data sharing.

Item	Definition
Antihypertensive treatment	 Nothing: this means that a donor does not use any diet and/or drugs Diet only: diet is not specified. Anything a person calls a diet and is appropriate to control the person's blood pressure is considered a diet Medication: The following classes of antihypertensive drugs can be identified: Diuretics Beta blockers ACE blockers A2 antagonists Vasodilators/Calcium channel blockers Other It is assumed that every patient with a class of antihypertensive drugs has had diet advice before the treatment with medication started.
Any significant co-morbidity (KIDNEY)	Menu: - No - Yes, specify: - Abdominal surgery, specify Malignancies, specify Hematological disease, specify Neurological disease, specify Cardiovascular disease, specify Respiratory disease, specify Gastrointestinal disease, specify Psychiatric disease, specify

Item	Definition	
	- Psychological disorder, specify	
	- Renal / urinary tract disease, specify	
	- Other, specify	
	- Unknown	
Any significant co-morbidity	Menu: - No	
(LIVER)	- No - Yes, specify:	
	- Abdominal surgery, specify	
	- Malignancies, specify	
	- Hematological disease, specify	
	- Neurological disease, specify	
	- Cardiovascular disease, specify	
	Respiratory disease, specifyGastrointestinal disease, specify	
	- Psychiatric disease, specify	
	- Psychological disorder, specify	
	- Other, specify	
	- Unknown	
Blood pressure	Actual blood pressure (independent of the method of measurement): the method to collect the actual blood pressure is not defined	
Cause of death	All coding systems are allowed	
Complications during operation	Complications during operation means from the start of the surgery until	
(KIDNEY)	arrival at the recovery room.	
	Menu:	
	- No complications	
	- Blood loss: need for transfusion	
	- Kidney damaged during retrieval: this means that the kidney that is	
	procured from the donor (graft) is damaged	
	a. Kidney can be used for transplantation	
	b. Kidney is discarded for transplantationOther organ damaged during surgery: this means that another organ	
	(not the procured organ) is (physically) damaged during the operation.	
	- Switch from laparoscopic procedure to open technique	
	- Cardiac arrest	
	- Other severe complications (i.e. pneumothorax, anaphylactic	
	reaction), specify: this will be a free text field	
Complications during operation (LIVER)	Menu:	
(LIVEK)	- No complications - Blood loss: need for transfusion	
	- Liver graft damaged during retrieval: this means that the liver graft	
	that is procured from the donor is damaged	
	a. Liver can be used for transplantation	
	b. Liver is discarded for transplantation	
	- Remaining liver damaged during surgery	
	Other organ damaged during surgery Cardiac arrest	
	- Other severe complications, specify	
Complications after operation –	Complications after operation means from the arrival at the recovery room	
until first discharge	until discharge from the hospital.	
(KIDNEY)		
	Menu:	
	No complicationsBlood loss: need for transfusion	
	- Need for re-operation	
	- Infection (urinary, wound, other): therapeutic use of antibiotics	
	- Thrombo/embolic complications (DVT, pulmonary embolism)	
	- Renal Replacement Therapy, specify	
	- Cardiac arrest	
	- Other severe complications, specify	

Item	Definition		
Complications after operation –	Menu:		
until first discharge	- No complications		
(LIVER)	- Blood loss: need for transfusion		
	- Need for re-operation		
	- Biliary fistula: when bilirubin concentration in drained fluids is 3 or		
	more times higher than in serum		
	- Biliary stenosis		
	- Infection (wound, other) - Non-infected collection		
	- Thrombo/embolic complications (DVT, pulmonary embolism, arterial		
	thrombosis, portal thrombosis)		
	- Cardiac arrest		
	- Liver insufficiency		
	- Other severe complications, specify		
Complications (within the first 12	Menu:		
months)	- Nothing		
	- Thrombo/embolic complications (DVT, pulmonary embolism, arterial		
	thrombosis, portal thrombosis)		
	Infection (wound, surgical site infection, infected collection, other) Non-infected collection		
	- Biliary stricture		
	- Biliary fistula		
	- Liver insufficiency		
	- Hemorrhage		
	- Pleural effusion		
	- Other complications, specify		
Country of residence	This is the country where the person lives during 7 months of a year		
Did the donor return to previous	This item should only be collected during the 12 month follow-up visit.		
activity level?	This should be based on the person's answer and should not be an		
	objective measurement.		
	Menu:		
	- Yes, within months		
	- No		
	- Unknown		
Donor lost to follow-up	A donor is lost to follow-up if he/she has regularly been invited to follow-		
	up appointments but did not show up for 10 years. Because the		
	mandatory follow-up frequency, at discharge, is 1 year after donation and then every 5 years post-donation, this means that the donor did not show		
	up for at least three consecutive visits.		
Ethnicity	Menu:		
	- White		
	- Asian		
	- Black		
	- Oriental		
	- Mixed, please specify		
Health issues	- Other, please specify Menu:		
(KIDNEY)	l - No		
()	- Yes, specify		
	- Abdominal surgery, specify		
	- Malignancies, specify		
	- Hematological disease, specify		
	- Neurological disease, specify		
	- Cardiovascular disease, specify		
	- Respiratory disease, specify		
	- Gastrointestinal disease, specify		
	- Psychological disorder, specify		
	Psychological disorder, specifyRenal / urinary tract disease, specify		
	- Renal Replacement Therapy, specify		
	- Pregnancy, specify (when)		
	- Diabetes mellitus, specify		
	- Other, specify		

Item	Definition		
Health issues	Menu:		
(LIVER)	- No		
	- Yes, specify		
	- Abdominal surgery, specify		
	- Malignancies, specify		
	- Hematological disease, specify		
	- Neurological disease, specify		
	- Cardiovascular disease, specify		
	 Respiratory disease, specify Gastrointestinal disease, specify Psychiatric disease, specify Psychological disorder, specify Pregnancy, specify (when) 		
	- Diabetes mellitus, specify		
	- Liver disease, specify		
	- Other, specify		
	- Unknown		
Hypertension	Hypertension: Yes / No		
	Hypertension should be considered 'yes' when a person uses a diet or		
	medication to treat the hypertension. If a person does not use a diet or		
	medication, but has a blood pressure >140/90 mmHg, the person is also		
Identification	considered hypertensive. The national authorities in (almost) every member States give a unique		
Identification	identification code to each individual. This code could be used to identify a		
	person without collecting their name. If a country decides not to use the		
	unique identification code, another method should be used to prevent		
	collecting data about the same person twice. For example a combination		
	of initials and date of birth.		
Length of hospital stay (LOS)	The number of days in hospital during the first admission from day 0 to		
	the day of discharge, with day 0 being the day of surgery		
Nationality	In case of a dual nationality, register both.		
Number of days in ICU	The number of days in Intensive Care Unit during the first admission (until		
Percentage of remnant donor	discharge) Menu:		
liver	- <30%		
	- 30-40%		
	- 41-50%		
	- 51-60%		
	- >60%		
Readmission (within the first 12	Menu:		
months)	- Yes, length of hospital stay (in days)		
	- No		
Dolotion type	- Unknown The definition that is applicable for the national kidney database differs		
Relation type	from the definition of the Registry of registries. To be able to collect the		
	information, the national and international registries should be able to		
	communicate with one another. The possibilities available from the		
	national database should match the simplified definition:		
	National: International		
	- A/ Related → Related		
	- A1/ Genetically related: → Genetically related		
	a. 1st degree genetic relative: → Genetically related		
	parent, sibling, offspring		
	b. 2nd degree genetic → Genetically related		
	relative: e.g. grandparent,		
	grandchild, aunt, uncle,		
	niece, nephew		
	c. Other than 1st or 2nd degree genetically related → Genetically related		
	degree genetically related,		
	for example cousin		

Item	Definition	
	 A2/ Emotionally related: Spouse (if not genetically related); in-laws; adopted, friend B/ Unrelated: non-related = not genetically or emotionally 	 Non-genetically related Non-related: this means donor and recipient do not know each
Segment donated	related The liver could be divided into 8 diffe	other
	The part of the liver (segment) that is	a procured from the donor should be
	specified: - 2 - 3 - 2-3 - 2-3-4 - 5-6-7-8	