# International living donor liver transplant registry – LDLTregistry.org

Submission date	<b>Recruitment status</b> Recruiting	[X] Prospectively registered		
06/02/2023		[X] Protocol		
Registration date	Overall study status Ongoing Condition category	<ul><li>Statistical analysis plan</li></ul>		
30/05/2023		Results		
Last Edited		Individual participant data		
31/05/2023	Surgery	Record updated in last year		

#### Plain English summary of protocol

Background and study aims

Living donor liver transplantation (LDLT) was introduced in the early 1990s to overcome an increasing shortage of available deceased donor organs for transplantation. LDLT remains the main source of grafts for liver transplantation in Asian countries. However, reports on donor illness and even death have hampered the uptake of the procedure in Western countries. Outcome data are available from developed countries, but outcomes in developing countries remain unknown. There is a need to collect data from all parts of the world to create a single prospective registry and allow meaningful comparisons, as well as standardization of the procedure, across the globe.

#### Who can participate?

Any center worldwide involved in LDLT is eligible to participate in this registry. There are no minimum number of cases to be submitted or selection criteria for centers. Cases must be prospectively registered. Both donors and recipients will be included in the registry, including adult and pediatric, two-stage LDLT, as well as dual grafts. Domino grafts will be excluded.

#### What does the study involve?

The researchers have developed a worldwide registry that seeks to assess the complication rates of donors and recipients undergoing living donor liver transplantation. Audits and registries are a way to find out if healthcare is being provided in line with standards and allow care providers and patients to envision potential improvements. Healthcare providers across the world submit anonymized case details of patients undergoing living donor liver transplantation. This acts as a central database until the end of the trial period when primary analysis will take place.

What are the possible benefits and risks of participating?

There will be no direct health benefit for the participants but their participation is very likely to help to improve the practice of living donor liver transplantation and hence future generations are likely to benefit from it. There are no risks of participating.

Where is the study run from? Klinik Hirslanden (Switzerland) When is the study starting and how long is it expected to run for? April 2023 to September 2033

Who is funding the study?

- 1. Rela Institute (India)
- 2. International Liver Transplant Society (ILTS)
- 3. International Living Donor Liver Transplantation (iLDLT) Group

Who is the main contact?
Dr Dimitri Raptis, dimitri.raptis@gmail.com

#### Study website

https://ldltregistry.org

# Contact information

#### Type(s)

Principal Investigator

#### Contact name

Prof Mohamed Rela

#### **ORCID ID**

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#### Contact details

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# Type(s)

Scientific

#### Contact name

Dr Dimitri Raptis

#### **ORCID ID**

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#### Contact details

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# Additional identifiers

#### **EudraCT/CTIS** number

Nil known

#### **IRAS** number

## ClinicalTrials.gov number

Nil known

#### Secondary identifying numbers

AO 2023-00013

# Study information

#### Scientific Title

International living donor liver transplant registry

#### **Acronym**

LDLTregistry.org

#### **Study objectives**

Living donor liver transplantation (LDLT) was introduced in the early 1990s to overcome an increasing shortage of available deceased donor organs for transplantation. LDLT remains the main source of grafts for liver transplantation in Asian countries, however, reports on donor morbidity and even mortality have hampered the uptake of the procedure in Western countries. Outcome data are available from developed countries, but outcomes in developing countries remain unknown. There is a need to collect data from all parts of the world, to create a single prospective registry and allow meaningful comparisons, as well as standardization of the procedure, across the globe.

## Ethics approval required

Old ethics approval format

# Ethics approval(s)

Approved 17/04/2023, Kantonale Ethikkomission Zürich (Klinik Hirslanden Zürich vivévis AG PD Dr. med. univ. Christian Oberkofler, Kappelistrasse 7 8002, Zürich, Switzerland; +41 (0)43 259 79 70; admin.kek@kek.zh.ch), ref: AO 2023-00013

# Study design

Observational cohort study

# Primary study design

Observational

## Secondary study design

Cohort study

# Study setting(s)

Hospital, Medical and other records

#### Study type(s)

Treatment

#### Participant information sheet

https://ldltregistry.org/patient\_info\_consent

#### Health condition(s) or problem(s) studied

Living donor liver transplantation

#### **Interventions**

A global prospective registry of perioperative morbidity and mortality post-LDLT will be established to collect data for donors and recipients. All clinicians involved in LDLT are eligible to submit data to the registry. Data will be collected until hospital discharge and up to 90 days postoperatively. The primary endpoint of the analysis is 90-day morbidity and mortality for both recipients and donors. Secondary endpoints include the identification of modifiable predictors of outcome. Additional outcome data will be captured and analysed after 12 months of follow-up.

#### **Intervention Type**

Other

#### Primary outcome measure

Morbidity and mortality for both the donor and recipient until hospital discharge and up to 90 days postoperatively, collected from patients' medical records, operation reports and information from electronic patient records

#### Secondary outcome measures

Identification of modifiable predictors of outcome at 90 days post-operation, collected from patients' medical records, operation reports and information from electronic patient records. Additional outcome data will be captured at 12 months follow up

#### Overall study start date

01/04/2023

## Completion date

01/09/2033

# **Eligibility**

#### Key inclusion criteria

- 1. Cases must be prospectively registered
- 2. Both donors and recipients will be included in the registry, including adult and pediatric, two-stage LDLT (e.g. Auxiliary, RAPID, APOLT, ASPIRE, RAVAS), as well as dual grafts

RAPID = Resection And Partial liver segment 2–3 transplantation with Delayed total hepatectomy

APOLT = Auxiliary Partial Orthotopic Living Donor Liver Transplantation

ASPIRE = Auxiliary two-Staged Partial REsection liver transplantation RAVAS = Heterotopic transplantation of segments 2 and 3 using the splenic vein and artery after splenectomy and with delayed total hepatectomy

# Participant type(s)

Mixed

#### Age group

Mixed

#### Sex

Both

# Target number of participants

2000

### Key exclusion criteria

Domino grafts

### Date of first enrolment

01/09/2023

#### Date of final enrolment

01/09/2027

# **Locations**

#### Countries of recruitment

Afghanistan

Albania

Algeria

American Samoa

Andorra

Angola

Anguilla

Antarctica

Antigua and Barbuda

Argentina

Armenia

Aruba



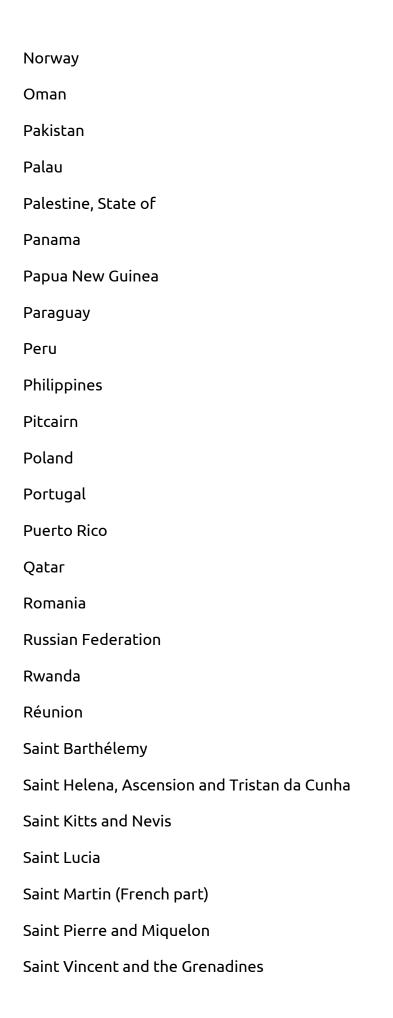
Cameroon
Canada
Cayman Islands
Central African Republic
Chad
Chile
China
Christmas Island
Cocos (Keeling) Islands
Colombia
Comoros
Congo
Congo, Democratic Republic
Cook Islands
Costa Rica
Croatia
Cuba
Curaçao
Cyprus
Czech Republic
Côte d'Ivoire
Denmark
Djibouti
Dominica
Dominican Republic
Ecuador

Egypt
El Salvador
England
Equatorial Guinea
Eritrea
Estonia
Eswatini
Ethiopia
Falkland Islands
Faroe Islands
Fiji
Finland
France
French Guiana
French Polynesia
French Southern Territories
Gabon
Gambia
Georgia
Germany
Ghana
Gibraltar
Greece
Greenland
Grenada
Guadeloupe

Guam
Guatemala
Guernsey
Guinea
Guinea-Bissau
Guyana
Haiti
Heard Island and McDonald Islands
Holy See (Vatican City State)
Honduras
Hong Kong
Hungary
Iceland
India
Indonesia
Iran
Iraq
Ireland
Isle of Man
Israel
Italy
Jamaica
Japan
Jersey
Jordan
Kazakhstan







Samoa
San Marino
Sao Tome and Principe
Saudi Arabia
Scotland
Senegal
Serbia
Seychelles
Sierra Leone
Singapore
Sint Maarten (Dutch part)
Slovakia
Slovenia
Solomon Islands
Somalia
South Africa
South Georgia and the South Sandwich Islands
South Sudan
Spain
Sri Lanka
Sudan
Suriname
Svalbard and Jan Mayen
Sweden
Switzerland
Syria



Virgin Islands, U.S.

Wallis and Futuna

Western Sahara

Yemen

Wales

Zambia

Zimbabwe

Åland Islands

Study participating centre Hirslanden Zürich Witellikerstrasse 40 Zürich Switzerland CH-8032

# Sponsor information

# Organisation

Klinik Hirslanden

## Sponsor details

Witellikerstrasse 40 Zürich Switzerland CH-8032 +41 (0)44 387 21 11 christian.oberkofler@vivevis.ch

## Sponsor type

Hospital/treatment centre

#### **ROR**

https://ror.org/014c2qb55

# Funder(s)

#### Funder type

Research organisation

#### **Funder Name**

Rela Institute

#### **Funder Name**

International Liver Transplant Society (ILTS)

#### **Funder Name**

International Living Donor Liver Transplantation (iLDLT) Group

# **Results and Publications**

#### Publication and dissemination plan

All LDLTregistry.org members, with submitted verified cases to the registry, will be PubMed cited as group authors in the main publications. Spin-off studies may include formal named authorship but must include the "LDLTregistry.org Collaborative" with group authorship for all participants.

#### Intention to publish date

01/09/2024

#### Individual participant data (IPD) sharing plan

LDLTregistry.org will act as the custodian of the data. All participants will be able to access their own submitted data without the need for permission from the LDLTregistry.org Committees. The Chief Investigators, Scientific and Management committees together will decide about data sharing requests and will consider all such requests based on the quality and validity of the proposed project.

The datasets generated during and/or analysed during the current study are/will be available upon request from Dimitri Raptis (dimitri.raptis@gmail.com)/ All data-sharing requests are to be considered on a case-by-case basis. Participating centers have the responsibility to request ethics approval for their respective recruiting centers and obtain written informed consent as per the legislation of the countries of the recruiting and participating centers. All data is anonymised such that individual patient identifying information is anonymised and details regarding individual operating clinicians are also anonymised.

## IPD sharing plan summary

Available on request

# **Study outputs**

Output type Details Date created Date added Peer reviewed? Patient-facing?

Participant information sheet	version 1	30/05/2023	No	Yes
<u>Protocol file</u>	version 7	31/05/2023	No	No