Peer-delivered psychosocial support for patients with rare autoimmune liver diseases

Submission date	Recruitment status No longer recruiting	[X] Prospectively registered		
14/10/2022		[X] Protocol		
Registration date	Overall study status	[X] Statistical analysis plan		
13/01/2023 Last Edited	Completed Condition category	☐ Results		
		[] Individual participant data		
16/01/2025	Digestive System	[X] Record updated in last year		

Plain English summary of protocol

Background and study aims

Rare diseases can have a substantial impact on quality of life, and psychosocial support needs of patients often go unmet. In a recent efficacy study (Depping et al., 2021, JAMA Psychiatry), we showed that a newly developed psychosocial support program for patients with rare diseases led to improved quality of life, better acceptance of the disease and several further improved outcomes. The program is delivered by peers, i.e. other affected individuals. Over six weeks, participants completed a self-help booklet from home, based on Acceptance and Commitment Therapy, and also received weekly telephone-based counseling by a peer-counselor. Peer-counselors received training, counseling guidelines and supervision. As the program is independent of patients' location and disease, it has the potential to reach many individuals. However, it is not yet available to patients and its effectiveness needs to be confirmed under routine care conditions. Therefore, with the Q.RARE.LI study, we will evaluate the effectiveness of the program in routine care of five different countries (Germany, Canada, Belgium, Poland and Hungary) and initiate the implementation.

Who can participate?

Patients with rare autoimmune liver diseases i.e. autoimmune hepatitis, primary sclerosing cholangitis and primary biliary cholangitis.

What does the study involve?

Patients will be randomly assigned to an intervention group or a control group. Patients in the intervention group will participate in the program (in addition to their routine care), while patients in the control group will receive care-as-usual alone. Patients in both groups will complete a standardized questionnaire set at three time points (before the program, after the program, after 3 months). Our primary effectiveness outcome is mental health-related quality of life.

To investigate whether the program can be implemented into routine care, we will ask patients, peer-counselors, and healthcare providers to evaluate the program in a survey. In addition, we will conduct focus group discussions with patients/patient representatives, peer-counselors, healthcare providers and health insurers to discuss if and how the program can be implemented into routine care. Based on this, we will derive country-specific implementation strategies. Q.

RARE.LI will pave the way for widely available psychosocial support for the rare disease community, which can be crucial for patients' quality of life.

What are the possible benefits and risks of participating?

This research involves adult patients with rare autoimmune liver diseases and adults involved in implementation of the intervention. In general, psychosocial support interventions bear no major risk for severe adverse events. Rather, participating in the intervention as well as being involved as a peer-counselor is expected to be beneficial. Participants will receive a financial compensation for completing the study assessments.

Where is the study run from?

The Department of Psychosomatic Medicine and Psychotherapy at the University Medical Center Hamburg-Eppendorf in Germany

When is the study starting and how long is it expected to run for? January 2021 to May 2025

Who is funding the study?

- 1. European Joint Program on Rare Diseases Joint Transnational Call 2021
- 2. Nation funding agency in Germany: German Federal Ministry for Education and Research (BMBF)
- 3. Nation funding agency in Canada: Canadian Institutes of Health Research, Institute of Genetics (CIHR-IG)
- 4. Nation funding agency in Belgium: The Research Foundation Flanders (FWO)
- 5. Nation funding agency in Poland: National Centre for Research and Development (NCBR)
- 6. Nation funding agency in Hungary: National Research, Development And Innovation Office, Hungary

Who is the main contact?
Dr Natalie Uhlenbusch, n.uhlenbusch@uke.de

Contact information

Type(s)

Principal Investigator

Contact name

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Additional identifiers

EudraCT/CTIS number

Nil known

IRAS number

ClinicalTrials.gov number

Nil known

Secondary identifying numbers

Nil known

Study information

Scientific Title

Improving health-related quality of life in patients with rare autoimmune liver diseases by structured peer-delivered support: a transnational effectiveness-implementation hybrid trial

Acronym

Q.RARE.LI

Study objectives

The primary research objective of Q.RARE.LI is to investigate the effectiveness of a peer-delivered psychosocial support intervention (Depping et al., 2021, JAMA Psychiatry) under routine care conditions in five different healthcare settings and to prepare its implementation.

We therefore have two research foci:

A. Effectiveness

- 1. Primary hypothesis: Under routine care conditions, structured peer-delivered psychosocial support in addition to CAU leads to better mental health-related quality of life compared to CAU alone in patients with rare liver diseases at post-assessment.
- 2. Secondary hypotheses: Under routine care conditions, structured peer-delivered psychosocial support in addition to CAU leads to better mental health-related quality of life at 3-month follow-up and to improved outcomes regarding a) physical health-related quality of life, b) depression severity, c) anxiety severity, d) illness acceptance, e) perceived helplessness f) social support and g) self-management abilities compared to CAU alone in patients with rare liver diseases both at post-assessment and 3-month follow-up.

B. Implementation

1. Primary hypothesis: The intervention shows high acceptability and feasibility in routine care as indicated by: 1) >75% of the patients completing the intervention, 2) >75% of these patients rating the intervention as a) helpful and b) appropriate, 3) 75% of the stakeholders delivering the intervention rating it as a) feasible, b) appropriate and c) helpful for patients.

Ethics approval required

Old ethics approval format

Ethics approval(s)

- 1. Approved 31/01/2022, Ethics Committee of the Hamburg Medical Association (Weidestr. 122 b, 22083 Hamburg, Germany; +49 40 202299-240; ethik@aekhh.de), ref: 2021-100757-BO-ff
- 2. Approved 14/02/2023, University Health Network Research Ethics Board (700 University Ave, 4th Floor, Toronto, Ontario, M5G 1Z5, Canada; +1 (416) 581-7849; reb@uhnresearch.can), ref: 22-5056
- 3. Approved 22/02/2023, Committee on Medical Ethics, UZ Gent (Corneel Heymanslaan 10, 9000 Ghent, Belgium; +32 9 3322111; ethisch.comite@uzgent.be), ref: BC-10401
- 4. Approved 21/02/2022, The Local Ethics Committee of Medical University of Warsaw (ul. Pawińskiego 3C, 02-106 Warszawa, Poland; +48 22 57 20 303; komisja.bioetyczna@wum.edu.pl), ref: KB/26/2022
- 5. Approved 16/08/2021, Medical Research Council, Scientific and Research Ethics Committee (ETT TUKEB, 25 Alkotmány u., Budapest, H-1054, Hungary; +36 1 795 1192; attilane.gombos@bm.gov.hu), ref: 40513-5/2021/EÜIG

Study design

Interventional randomized controlled trial with mixed methods process evaluation

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Hospital

Study type(s)

Quality of life

Participant information sheet

Not available in web format, please use the contact details to request a patient information sheet.

Health condition(s) or problem(s) studied

Rare autoimmune liver diseases, i.e. autoimmune hepatitis (AIH), primary sclerosing cholangitis (PSC) and primary biliary cholangitis (PBC)

Interventions

We will conduct a multicenter effectiveness-implementation hybrid trial type 1 (Curran et al., 2021, Med Care) with the primary aim of assessing the effectiveness of the peer-delivered psychosocial support intervention while also analyzing its implementability, identifying implementation barriers, and deriving country-specific implementation strategies.

Design of the effectiveness part of the trial: The effectiveness of the intervention under routine care conditions will be evaluated within a two-armed randomized controlled trial (RCT) comparing structured and peer-delivered psychosocial support plus care-as-usual (CAU) to CAU alone in adult patients with autoimmune rare liver diseases.

Design of the implementation part of the trial: We will conduct a mixed-methods process evaluation assessing implementation outcomes both quantitatively (cross-sectional survey) and qualitatively (focus groups) including different stakeholders.

Using a fixed randomization schedule (allocation ratio 1:1), patients will be randomly assigned to the intervention group or the control group. The intervention group will participate in the 6-week-program in addition to care-as-usual (CAU) while the control group receives CAU only.

The psychosocial support program was developed based on pre-assessed psychosocial support needs of patients with rare diseases (Depping et al., 2021, BMJ Open) and evaluated in a first efficacy trial (Depping et al., 2021, JAMA Psychiatry). The program is based on structured self-help and peer-counseling. Participants receive a manual, which contains six chapters and which is based on Acceptance and Commitment Therapy (ACT). The first chapter includes general information about rare diseases and a reflection exercise on how the disease affects one's life. The second chapter focuses on dealing with difficult emotions, the third chapter is about disease acceptance, the fourth one about values, the fifth one about setting meaningful goals and the last chapter contains a review and outlook exercise. Patients complete one chapter per week and, in addition, receive a 30-minute telephone-based peer-counseling session to reflect on the content of the manual. Peer-counselors receive a two-day training, consultation guidelines with additional information and exemplary questions for each chapter as well as supervision on demand.

Intervention Type

Behavioural

Primary outcome measure

- 1. Effectiveness outcomes will be assessed at baseline, after the program and at a 3-month follow-up. Our primary effectiveness outcome is the baseline-adjusted group difference in mental health-related quality of life directly after the intervention, measured with the Short Form Health Survey (SF-12).
- 2. Quantitative implementation outcomes will be assessed at post-assessment. Qualitative implementation outcomes after the follow-up assessment. Our primary implementation outcomes are acceptability and feasibility of the program, operationalized by completion rate and subjective rating of appropriateness, helpfulness, and feasibility on numeric rating scales from 0-10.

Secondary outcome measures

All effectiveness outcomes will be assessed at baseline, after the program and at a 3-month follow-up.

- 1. Physical health-related quality of life (Short Form Health Survey (SF-12))
- 2. Somatic symptom severity (Patient Health Questionnaire-15 (PHQ-15))
- 3. Depression severity (Patient Health Questionnaire-9 (PHQ-9))
- 4. Anxiety severity (Generalized Anxiety Disorder Scale-7 (GAD-7))
- 5. Disease acceptance (Acceptance subscale of the Illness Cognition Questionnaire (ICQ))
- 6. Helplessness (Helplessness subscale of the ICQ)
- 7. Social support (Social Support Questionnaire (F-SOZU))
- 8. Self-management abilities (Appraisal of the Self-Care Agency Scale Revised (ASAS-R))
- 10. Psychological burden related to somatic symptoms or associated health concerns is measured using the Somatic Symptom Disorder B Criteria Scale (SSD-12)
- 11. General self-efficacy is measured using the Self-efficacy scale (SWE)
- 12. Illness perceptions are measured using the Brief Illness Perception Questionnaire (B-IPQ)

Overall study start date

15/01/2021

Completion date

31/05/2025

Eligibility

Key inclusion criteria

Effectiveness focus:

- 1. Autoimmune rare liver disease (AIH, PSC, PBC)
- 2. Subjective psychosocial support need
- 3. ≥18 years
- 4. Written informed consent

Implementation focus:

Patients:

see above

Stakeholders:

- 1. Involvement in intervention delivery/implementation i.e. healthcare providers, patient representatives, health insurers
- 2. Written informed consent

Participant type(s)

Patient

Age group

Adult

Lower age limit

18 Years

Sex

Both

Target number of participants

Effectiveness focus: N=240 patients; Implementation focus: quantitative part: N=132 stakeholders, qualitative part: N=100 stakeholders

Key exclusion criteria

Effectiveness focus:

- 1. Life-threatening health-status
- 2. Acute suicidality
- 3. Ongoing psychotherapy
- 4. Severe cognitive, auditory or visual impairment
- 5. Inability to complete assessments

Implementation focus:

1. Involvement in outcome assessment or data analysis

Date of first enrolment

31/01/2023

Date of final enrolment

31/01/2024

Locations

Countries of recruitment

Belgium

Canada

Germany

Hungary

Poland

Study participating centre

University Medical Centre Hamburg-Eppendorf, Department of Psychosomatic Medicine and Psychotherapy

Martinistraße 52 Hamburg Germany 20246

Study participating centre

Toronto Centre for Liver Disease, Toronto General Hospital, University Health Network 200 Elizabeth St.

Toronto Canada M5G 2C4

Study participating centre

Ghent University Hospital, Department of Internal Medicine and Pediatrics, Faculty of Medicine and Health Sciences

Corneel Heymanslaan 10 Ghent Belgium 9000

Study participating centre

Medical University of Warsaw, Liver and Internal Medicine Unit

Banacha 1A

Warsaw

Study participating centre University of Debrecen, Faculty of Medicine, Department of Internal Medicine, Division of Gastroenterology

Nagyerdei krt. 98 Debrecen Hungary H-4032

Sponsor information

Organisation

University Medical Center Hamburg-Eppendorf

Sponsor details

Martinistr. 52 Hamburg Germany 20246 +49 40 7410 59733 b.loewe@uke.de

Sponsor type

Hospital/treatment centre

ROR

https://ror.org/038p55355

Funder(s)

Funder type

Government

Funder Name

European Joint Program on Rare Diseases – Joint Transnational Call 2021

Funder Name

Nation funding agency in Germany: German Federal Ministry for Education and Research (BMBF)

Funder Name

Nation funding agency in Canada: Canadian Institutes of Health Research, Institute of Genetics (CIHR-IG)

Funder Name

Nation funding agency in Belgium: The Research Foundation - Flanders (FWO)

Funder Name

Nation funding agency in Poland: National Centre for Research and Development (NCBR)

Funder Name

Nation funding agency in Hungary: National Research, Development And Innovation Office, Hungary

Results and Publications

Publication and dissemination plan

International scientific communication: According to the WHO Statement on Public Disclosure of Clinical Trials, the main findings will be submitted for publication in a high-impact peer-reviewed journal with open-access mechanism within 12 months of study completion and will be made publicly available in the clinical trial registry. Moreover, we will present the results of Q.RARE.LI at international scientific conferences such as the annual congress of the European Association for Psychosomatic Medicine (EAPM Conference, ~600 visitors), the European Conference on Rare Diseases and Orphan Products (ECRD, ~1,500 visitors), and the International Liver Congress of the European Association for the Study of the Liver (EASL, ~ 10,000 visitors).

National scientific communication: On the national level, it is planned that each partner will submit at least one manuscript in the local language to a national scientific journal to publish results on the country-specific implementation conditions and the derived implementation strategies. In addition, each partner will attend national scientific conferences such as the German Congress for Psychosomatic Medicine, the Liver Meeting of the American association for the study of liver dis-eases (AASLD), the conference of the Belgian Association for Study of Liver disease (BASL), the National Congress of the Polish Society of Gastroenterology and the yearly congresses of the Hungarian Society of Gastroenterology and Hungarian Society of Hepatology.

We will regularly communicate the results in lay language via press releases, social media, our own homepages and forums which are popular amongst patients. The close collaboration with PAOs in each participating country ensures adequate communication to the patient community via newsletters and yearly events, which we plan to attend in order to present the results.

Intention to publish date

31/05/2026

Individual participant data (IPD) sharing plan

In accordance with the ethics committee approval and the 2015 German Research Foundation (DFG) guidelines for the handling of research data, quantitative data will be made publicly available in a deidentified form. The times and the conditions of the availability of data will also be in accordance with the 2015 "Recommendations for Sharing Clinical Trial Data" of the Institute of Medicine (IOM). The full data package (i.e. analyzable data set, protocol, statistical analysis plan, statistical programming code) will be made freely available through a clinical data repository (e.g., Dryad Digital Repository) and saved for at least 10 years. Data sharing will follow the FAIR Data Principles (Findable, Accessible, Interoperable and Reusable) and international naming conventions (e.g. Systematized Nomenclature of Medicine) to maximize transparency and scientific reproducibility.

IPD sharing plan summary

Stored in publicly available repository

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Protocol article	version 1.0	24/03/2023	27/03/2023	Yes	No
Statistical Analysis Plan		22/11/2024	16/01/2025	No	No