Paris Portal Vein thrombosis meeting

IMPACT ON QUALITY OF LIFE

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Health- related quality of life: Individuals' or group's perception of their physical and mental health

Study of HrQoL allows to:

- Identify new problems and health dimensions at risk
- Provide valuable new insights into the relationship between HrQoL and risk factors
- Monitor progress in achieving health objectives
- Design individualized interventions
- Improve patients' understanding and self-management of their disease
- Improve patient's use of resources available from the environment, which impacts on better health outcomes



Health- related quality of life: Individuals' or group's perception of their physical and mental health

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Assessment

Medication

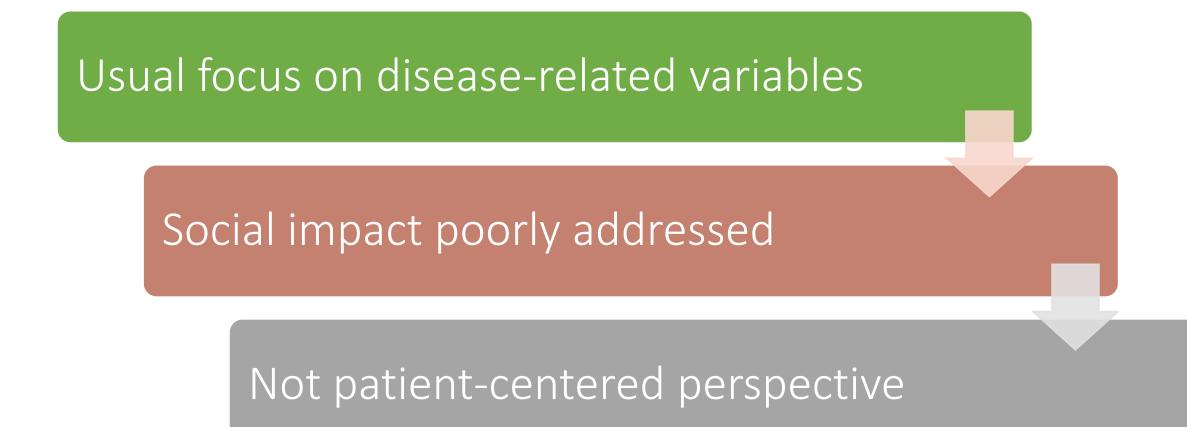
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Study of HrQoL allows to:

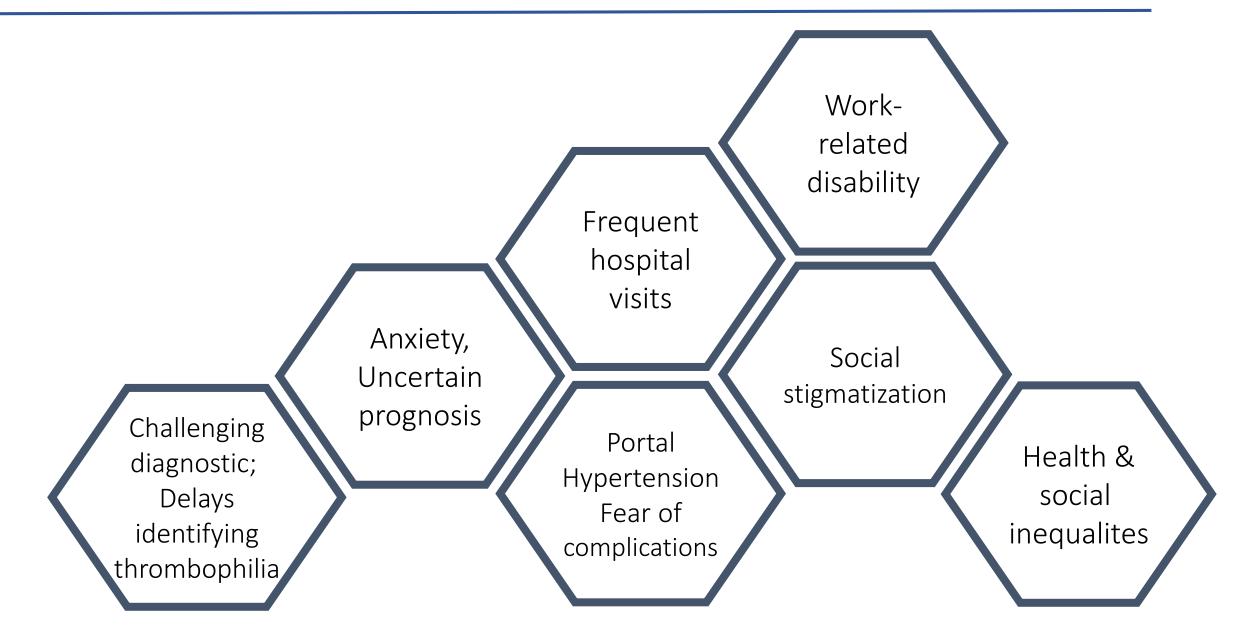
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 into t The study of HrQoL can bridge boundaries between social, mental and medical services
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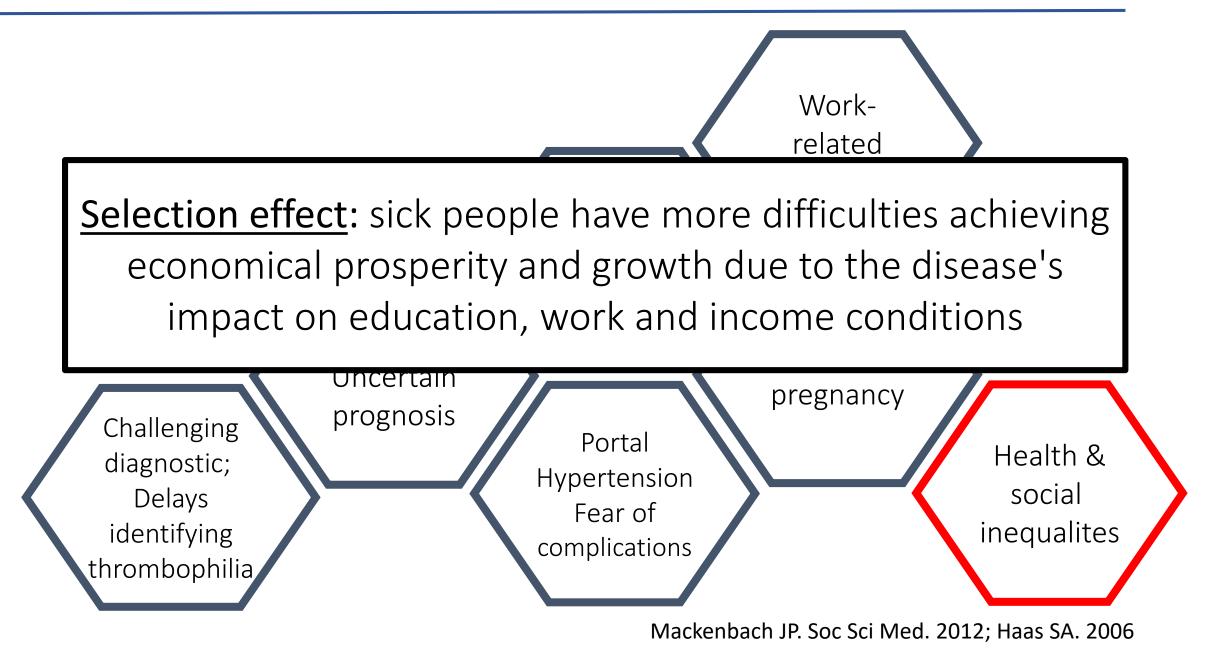
- Design individualized interventions
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Impact of **PVT** on QoL





Lack of evidence addressing HrQoL in PVT patients

Evaluation of new-onset depression and anxiety in patients with PVT

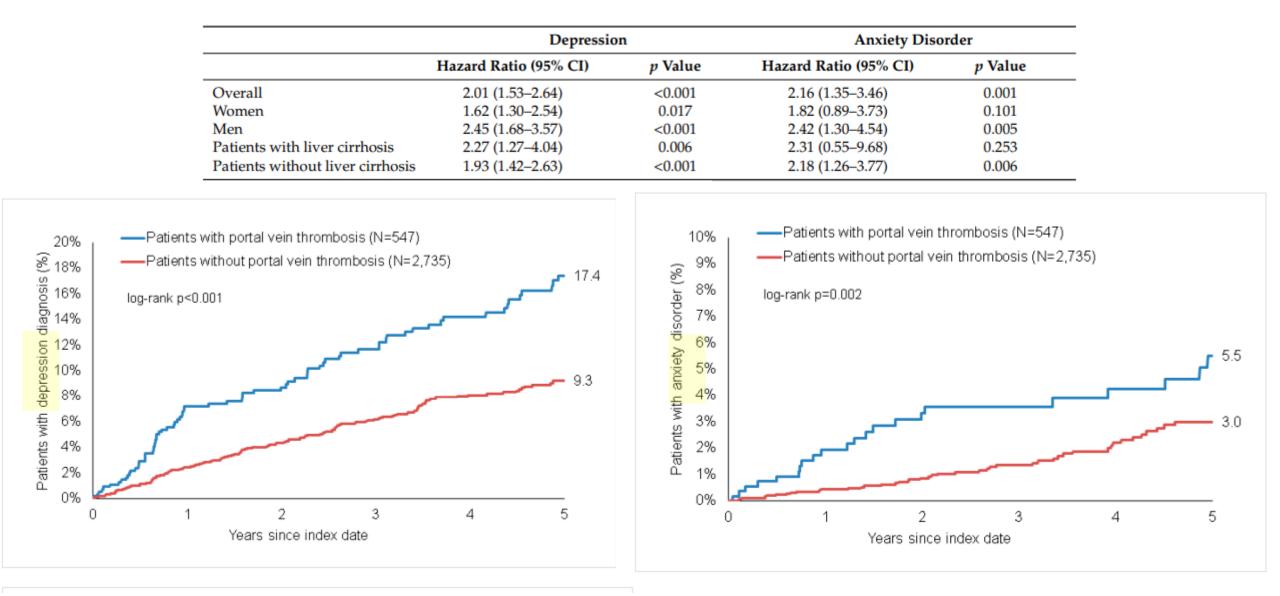
Variable	Patients with Portal Vein Thrombosis ($n = 547$)	Patients without Portal Vein Thrombosis ($n = 2735$)	p Value
Women Men	38.9 61.1	38.7 61.3	0.907
Mean age in years (standard deviation)	57.3 (16.1)	57.5 (16.0)	0.898
Age ≤50 years Age 51–60 years Age 61–70 years Age >70 years	32.2 22.7 21.2 24.0	32.3 22.3 21.1 24.2	0.998
Mean number of consultations per year	5.3 (7.4)	4.9 (6.7)	0.411
Diagnoses documented within 12 months prior to the index date			
Cancer Obesity	21.9 10.6	21.3 10.3	0.727 0.835
Liver cirrhosis or chronic hepatitis	18.8	16.4	0.125
Thrombophlebitis Varicose	16.8 27.6	15.4 25.4	0.406 0.275

Data are percentages unless otherwise specified.

Evaluation of the incidence of anxiety and depression within 5 years of the index date based on the diagnosis codification of a primary care cohort

SG Gairing, Journal of Clinical Medicine 2021

PVT is associated with an increased incidence of depression and anxiety disorders



SG Gairing, Journal of Clinical Medicine 2021

Rational to assess the incidence of depression and anxiety in PVT **not purely interest in QoL**

Suggested bi-directional relationship between cardiovascular diseases and depression

Depression could induce physiological derangements (hypercortisolism) that could contribute to adverse vascular outcomes

Anticoagulation is associated with numerous practical limitations frequent anticoagulation monitoring *(vitamin K antagonists)* lifestyle and dietary restrictions that can complicate patient management **IMPACT in HRQoL** Evaluation of patients' perceptions and quality of life in patients chronically anticoagulated

Cross-sectional study; n = 905 patients

SF-36 survey

Perception of protection from thrombotic complications vs fear of haemorrhage

Positive perceptions		Negative perceptions	OR	95% CI	p
Protection from thrombosis Felt better since OAT	71.5% 61.5%	Female sex < 1 year of OAT Habit modification Dissatisfaction with medical attention	1.58 2.16 2.75 2.86	1.06–2.36 1.34–3.48 1.49–4.91 1.53–5.18	0.01 0.006 0.0002 0.0001

Bleeding episodes (major and minor) were similar in both QoL groups

Casais P, Current medical research and opinion, 2005

Evaluation of HrQoL in patients under WARFARIN vs DABIGATRAN in the absence of outcome events (strokes, major bleeding)

Comparable scores between dabigatran and warfarin

B U Monz et al, Int J Cardiol 2013

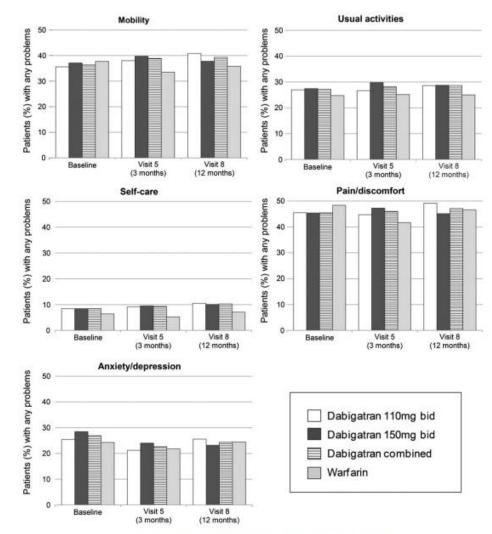
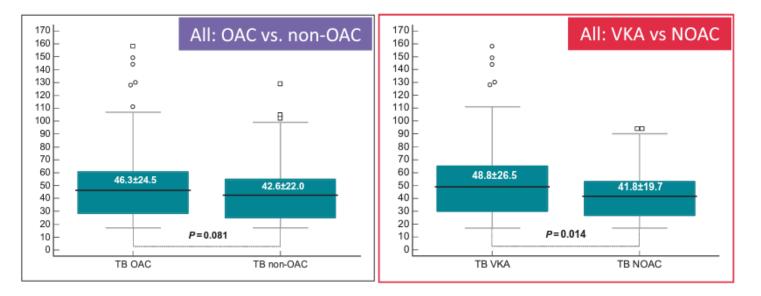


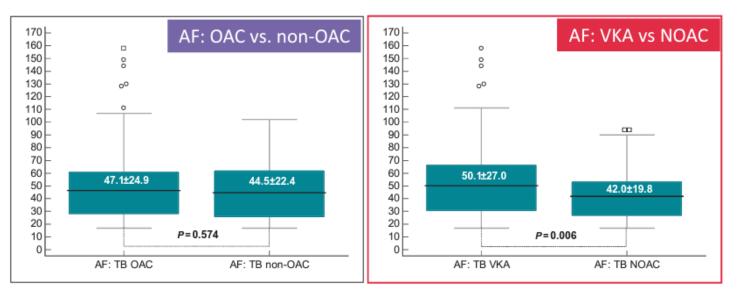
Fig. 1. Distribution of patients with any problem over time, by health dimension of EQ-5D.

Self-reported treatment burden on AF

TS Potpara et al, Europace 2020, ESC

Self-perceived cumulative work patients do to manage their health is significantly higher in patients taking vitamin K antagonists vs DOACs





Assessment of QoL in liver diseases

Assessment of QoL in liver diseases

SF 36

Physical functioning Limitations by physical health & emotional problems Social functioning Emotional well being Fatigue Pain General perception

CLDQ

SF 12

Fatigue Psychological outcomes Social Outcomes

29 items Fatigue, activity, emotional function, abdominal symptoms, systemic symptoms, worry

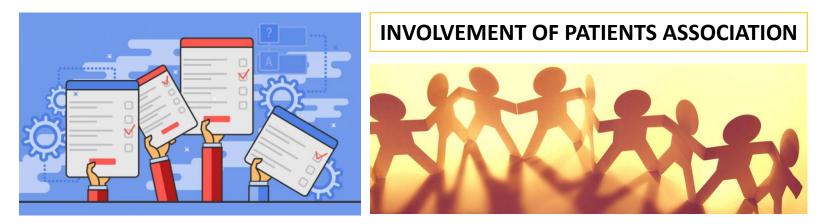
Identify useful PRO [patient reported outcome] for the study of PVT	Identify / Create HrQoL questionnaires for PVT	Monitor progress in the achievement of health objectives Identify unnecessary procedures
Promote shared	Consideration of social	Involve patient associations
decision-making and	health needs when	to promote
educated choices	prescribing treatments	patient-centered research

LIVES PROJECT



AIMS

- To develop a specific questionnaire able to assess the impact of **vascular liver diseases** on quality of life, including variables identified by patients themselves
- Use of the new questionnaire to assess the QoL in patients with VLD



ERN RARE LIVER

Welcome

APP DEVELOPMENT PATIENT REPORTED OUTCOMES on QUALITY of LIFE for RARE DISEASE PATIENTS

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ERN RARE LIVER

APP DEVELOPMENT PATIENT REPORTED OUTCOMES on QUALITY of LIFE for RARE DISEASE PATIENTS

Mobile Health apps enable exhaustive data collection

Implementation of an app for patients with rare liver diseases that will collect and transfer all the infomation to an international registry

Patients and health care providers will answer questionnaires to select which features will be included in the app

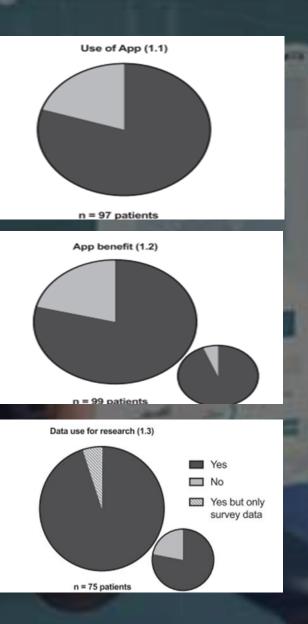


Table 3. Functional requirements of the app deduced from survey results.				
Functional Requirements	Rationale			
Must have:				
 Possibility to fill-in surveys (e.g. PROM) 	Initial motivation for app; Increase and improve available data of QoL of patients			
 Receive information about disease, new developments and clinical trials based on the individual disease of the user 	Very much desired by patients; Increase patients' ability for self-management			
Give access to entered data	Very much desired by patients; Required for showing course of disease to treating physician			
Nice to have:				
 Possibility to enter appointments, lab values and medica- tion plan 	Moderately desired by patients; useful to track course of dis- ease; appointments required as trigger for survey			
Symptom trackers for recording of health concerns	Moderately desired by patients; useful to track course of disease			
 Reminders of medical appointments and to take medication 	Of greater importance for experts than patients; supportive feature to increase medication adherence but users should be enabled to deactivate it if opposed			
Future:				
 Notification of treating physician in case of concerns 	Very much desired by patients, but IT infrastructure not yet given and not feasible with initial budget			
 Generate treatment suggestions 	Desirable feature especially for patients in remote regions but would lead to classification of the app as a (legally more complex) medical device; IT infrastructure not yet given and not feasible with initial budget			
 Automatic ordering of follow-up prescriptions 	Very much desired by patients, but IT infrastructure not yet given and not feasible with initial budget			
Pediatric version of app	Very much desired by experts, but not feasible with initial budget			
PROM: Patient Reported Outcome Measures; QoL: Quality of Life.				

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Darius F Ruther et al Clinics and research in Hepatology and Gastroenterology 2021

Presently there is a marked lack of evidence in the field of HrQoL and PVT

New projects focused on PROs involving patients' associations in the design of the studies, promoting a patient centered approach, are going to radically change the current scenario in the following years.

Thank you





Hepatological Diseases (ERN RARE-LIVER)







Institut D'Investigacions Biomèdiques August Pi i Sunyer

