

Summary research protocol

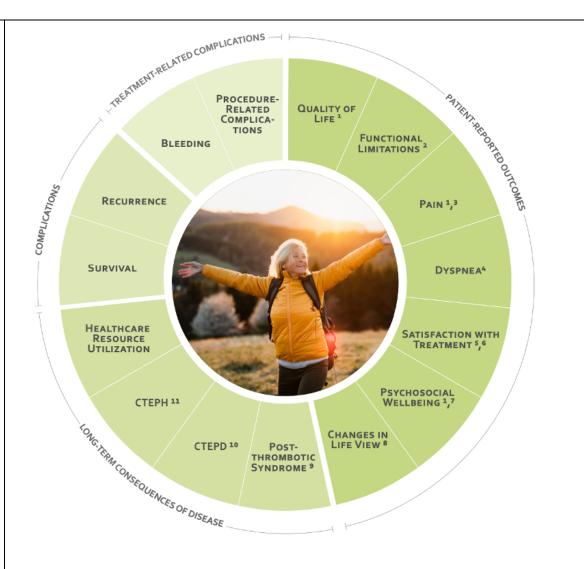


Title	Multicenter patient-reported outcome registry for acute DVT
Short title	PRORIT-PE
Date	15-02-2023
Principal	
Investigator(s)	
Coordinating	
researcher(s)	
Collaborations	Brightfish B.V. (BF), Boston Scientific International S.A. (BSCI)
Background	Although difficult to determine exactly, in the United States alone 100-200 thousand patients are
	(clinically) diagnosed with an pulmonary embolism. (PE)
	One out of three will have a recurrence within 10 years and some will develop a post-PE impairment.
	Much research has been done on the clinical aspects, treatment of and risk factors for PE. Despite this
	impressive amount of scientific information, real-world evidence regarding the Quality-of-Life effects
	of PE is still scarce and fragmented.
	BSCI recognizes this lack of information and wants to initiate and support Quality-of-Life and patient-
	reported outcomes collection in PE patients.
Purpose	The implementation and evaluation of disease-specific patient-reported outcome measures (PROMs)
•	for pulmonary embolism.
	The following sub-goals were defined.
	1. Using the PROMs at an individual patient level in the consulting room to gain (even) better insight
	into complaints and problems;
	2. Using aggregated PROM data to understand quality of life in PE patients, before and after
	treatment;
	3. To use aggregated PROM data for internal quality assessment of treatment for patients with PE;
	4. Implementation of an outcome set for PE, possibly at a national level or in societal guidelines for
	external quality assessment of treatment for patients with PE.
Approach	Implementation and collection of an a PE PROM set will take place in collaboration with selected clinics.
	In addition, since the ICHOM standard outcome set for venous thromboembolism is largely used,
	participation in the ICHOM global benchmark is possible for the selected clinics.
	Patients and clinicians will be closely involved in the implementation of the PROM tool. To this end BSCI
	will collaborate with BF, a specialised platform for data collection and processing. Data will be collected
	in a standardised way and case-mix analysis will be applied to define the PROM set as an indicator of
	quality.

	Patient Population	Measure	Timing	Reporting Source
	Demographic Factors		Tilling	reporting Source
	All patients	Year of birth	Baseline	Clinical
	All patients	Sex		Clinical
	All patients	Race		Patient-reported
	All patients	Ethnicity		Patient-reported
	All patients	Level of education		Patient-reported
	Baseline Health Statu		Buschine	r delette reported
	_		Baseline; 1 year and	
	All patients	ВМІ	annually*	Clinical
	All patients	Previous history of VTE	Baseline	Clinical
	All patients	Comorbidities	annually^	Patient-reported
	All patients	High-Risk/Massive PE	Baseline	Clinical
	All patients	Phlegmasia	Baseline	Clinical
	All patients	Unprovoked VTE	Baseline	Clinical
	Treatment-related Fa	ctors	- 0	
	All patients	Antithrombotic Treatment	Baseline; 3 months and 6 months; 1 year and annually*	Clinical
		Underwent	Baseline; 3 months	
	All patients	interventional		Clinical
		treatment for VTE	and annually*	
1)	Patient Population	Measure Outcome Measures: Core S	Timing	Reporting Source
	ratient-keported C	Juccome Measures. Core 3	Baseline; 3 months	
	All patients	Functional Limitation		Patient-reported
	All patients	Quality of Life	3 months and 6 months; 1 year and annually*	Patient-reported
	All patients	Treatment Satisfaction	3 months and 6 months; 1 year and annually*	Patient-reported
	All patients	Changes in life view	3 months and 6 months; 1 year and annually*	Patient-reported
	Patient-Reported C	Outcome Measures: Optior	nal Set**	
	All patients	Pain	Baseline; 3 months and 6 months; 1 year and annually*	Patient-reported
	All patients	Dyspnea	Baseline; 3 months and 6 months; 1 year and annually*	Patient-reported
	All patients	Psychosocial wellbeing	Baseline; 3 months and 6 months; 1 ye and annually*	
	All patients	Treatment	3 months and 6 months; 1 year and	l Patient-reported

	ne Measures Measure	Timing	Reporting Source
Patient Population Clinical Outcome Mea		Timing	Reporting Source
All patients	Healthcare Resource Utilization	Baseline; 3 months and 6 months; 1 year and annually*	Clinical
All patients	Chronic Thromboembolic Pulmonary Disease	3 months and 6 months; 1 year and annually*	Clinical
All patients	Chronic Thromboembolic Pulmonary Hypertension	3 months and 6 months; 1 year and annually*	Clinical
All patients	Post-Thrombotic Syndrome	3 months and 6 months; 1 year and annually*	Clinical
All patients	Recurrence	Baseline; 3 months and 6 months; 1 year and annually*	Clinical
All patients	Vital Status	Baseline; 3 months and 6 months; 1 year and annually*	Clinical
All patients	Bleeding	Baseline; 3 months and 6 months; 1 year and annually*	Clinical
All patients	Procedure-related complications	Baseline; 3 months and 6 months; 1 year	Clinical
All patients			Clinical

Used questionnaires



Used instruments:

- 1. Measured using the PROMIS Scale v1.2 Global Health, PEmb-QoL, and VEINES-QOL questionnaires
- 2. Measured using the PROMIS Short Form v2.0 Pain Intensity 3a
- 3. Measured using the PEmb QoL and PROMIS Short Form v1.0 Dyspnea Severity 10a
- 4. Measured through the question: "Are you satisfied with your VTE treatment?"
- 5. Measured using the Anti-Clot Treatment Scale
- 6. Measured using the PHQ-9 and GAD-7 questionnaires
- 7. Measured through the question: "Have you experienced a change in your expectations, aspirations,
 - values, or perspectives on life opportunities since the diagnosis of Venous Thromboembolism?"
- 8. Chronic Thromboembolic Pulmonary Disease
- 9. Chronic Thromboembolic Pulmonary Hypertension

Study population

Patients with one of the following diagnosis:

- Pulmonary embolism and interventional treatment

Inclusion criteria	16 years of age or olderCompetent
Exclusion criteria	- Did not give permission to be approached for scientific research - No available email address

Planning	Phase 1: September 2023 – January 2024
	Implementation period
	 Onboarding and selecting participating clinics
	 Legal requirements (data processor agreements, etc.)
	 Optional: create steering committee with key person from each participating clinic
	 Implementation of the digital pathways for data collection in selected clinics
	 Introduction and instructions for the digital pathway platform (BF) in selected clinics
	 Dry-run and go-live
	Phase 2: 2024
	Data collection period
	 Collect outcomes at participating clinics.
	 Optional: data delivery to ICHOM global benchmark
	Phase 3: 2025
	Data analysis period
	- Case mix analysis
	 Evaluating and analysing outcomes
	 Evaluate the outcome set