SHARING IS CARING: USING A DATA HUB TO INFORM TREATMENT **DECISIONS BASED ON SYMPTOM MONITORING DATA**

¹IKNL R&D dept; ²A-UMC Pulmonology dept; ³ OLVG Pulmonology dept; ⁴ Erasmus MC Pulmonology dept

INTRODUCTION

Patient-reported symptom monitoring has proven to be effective in reducing side-effects and improves healthrelated quality of life (HRQoL) and survival.¹ In the PRO-lung project patients use the SYMPRO application to monitor symptoms based on the PRO-CTCAE and an alert is issued if a symptom exceeds a predefined threshold.

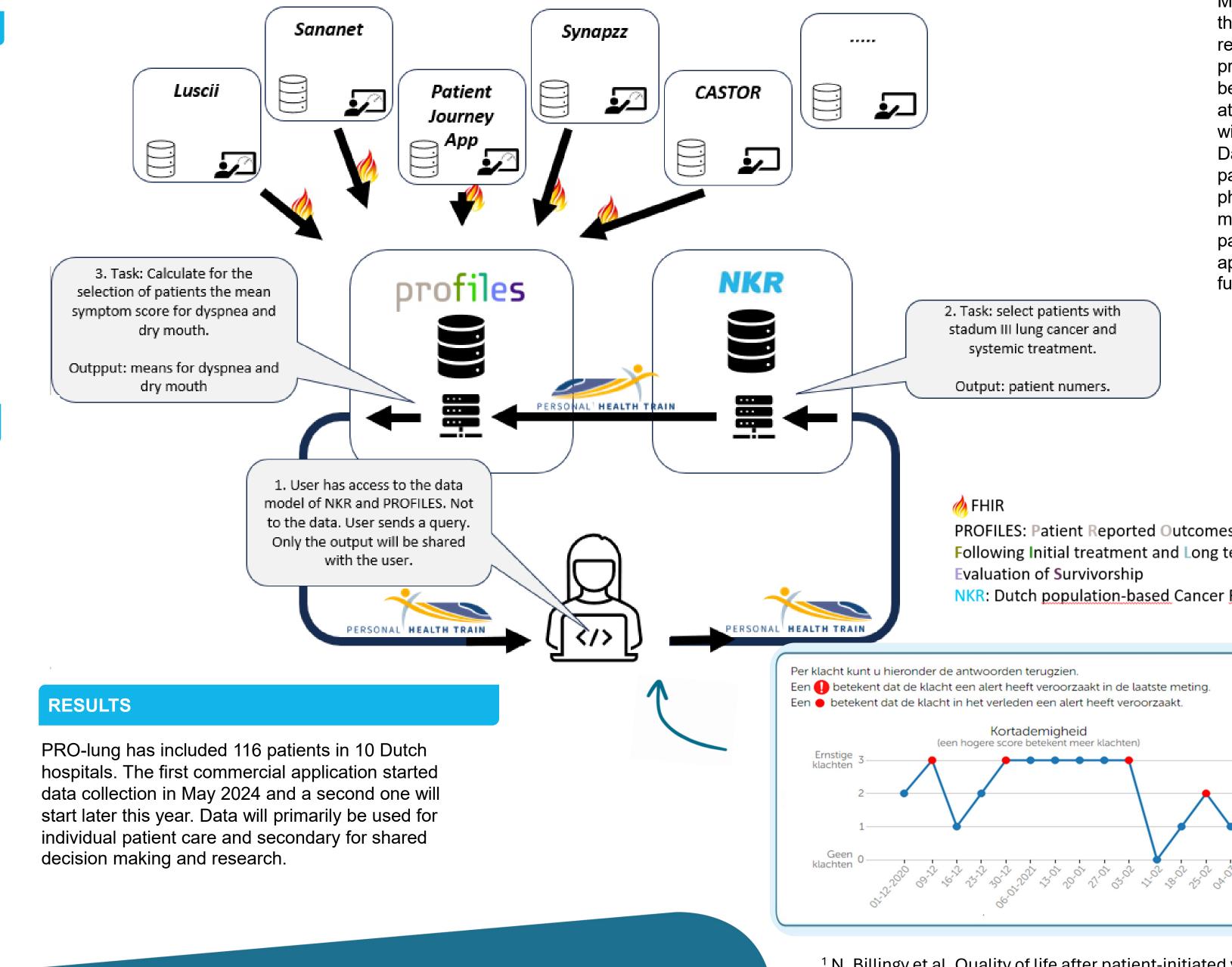
In Dutch hospitals many applications are used to capture patient-reported outcomes (PRO), introducing an undesirable variety of methods.

The PROMOTE PRO-lung project aims to

- accelerate implementation of symptom monitoring in Dutch health care to get it available for many patients with lung cancer
- 2. build an infrastructure in PROFILES registry to share data for secondary purposes.

METHODS

We developed an open-standards based methodology for symptom monitoring and data reuse. This methodology is suitable for implementation in both commercial and non-commercial applications. In the **PROMOTE PRO-lung project commercial applications** adopt the PRO-lung methodology. Data quality from the several application providers is audited. The PRO data are linked to the Dutch Cancer Registry (NKR) to include clinical information. Hospitals using commercial applications now manually transfer data to a central database, but efforts are being made towards automated data exchange; In the future pseudonymized data are exchanged in a PRO database using the Fast Healthcare Interoperability Resources (FHIR) standard. The Personal Health Train approach can be used to send queries and receive answers to (research) questions from PROFILES and NKR (Figure 1).

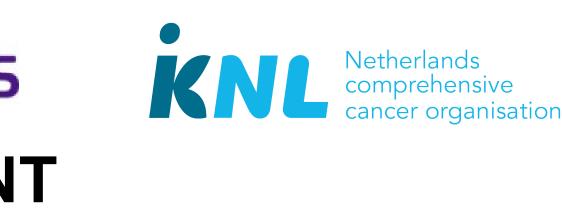


profiles

Michèle Brussé¹, Annemarie Becker², Kailesh Bansi¹, Jurrian van der Werf¹, Peter Kunst³, Joachim Aerts⁴, Corina van den Hurk¹

Contact: pro-lung@iknl.nl / m.brusse@iknl.nl

¹ N. Billingy et al. Quality of life after patient-initiated vs physician-initiated response to symptom monitoring: the SYMPRO-Lung trial. J Natl Cancer Inst. 2023



CONCLUSION and NEXT STEPS

Multicenter patient-reported data collection through multiple applications in first place requires willingness of patients and healthcare providers to share data. The technical aspect becomes feasible solely through standardization, attaining its utmost sustainability when aligned with international guidelines.

Data sharing will provide health care providers, patients, policy makers, researches and pharmacovigilance staff with real world data to minimize symptom burden and optimize the patient's HRQoL. This shows how a simple application for use in daily care adds value for future patients.

	profiles
	Voortgang
	Hoe erg was uw verminderde eetlust op het slechtste moment de afgelopen 7 dagen?
erm	Helemaal niet
Pogistry	Een beetje
Registry	Matig
	Erg
	Heel erg
	✓ vorige
	III O <
2 1. 03 18 03 19 03 11 03 18 03 19 03	