Interreg Italia-Slovenija CONCERTO

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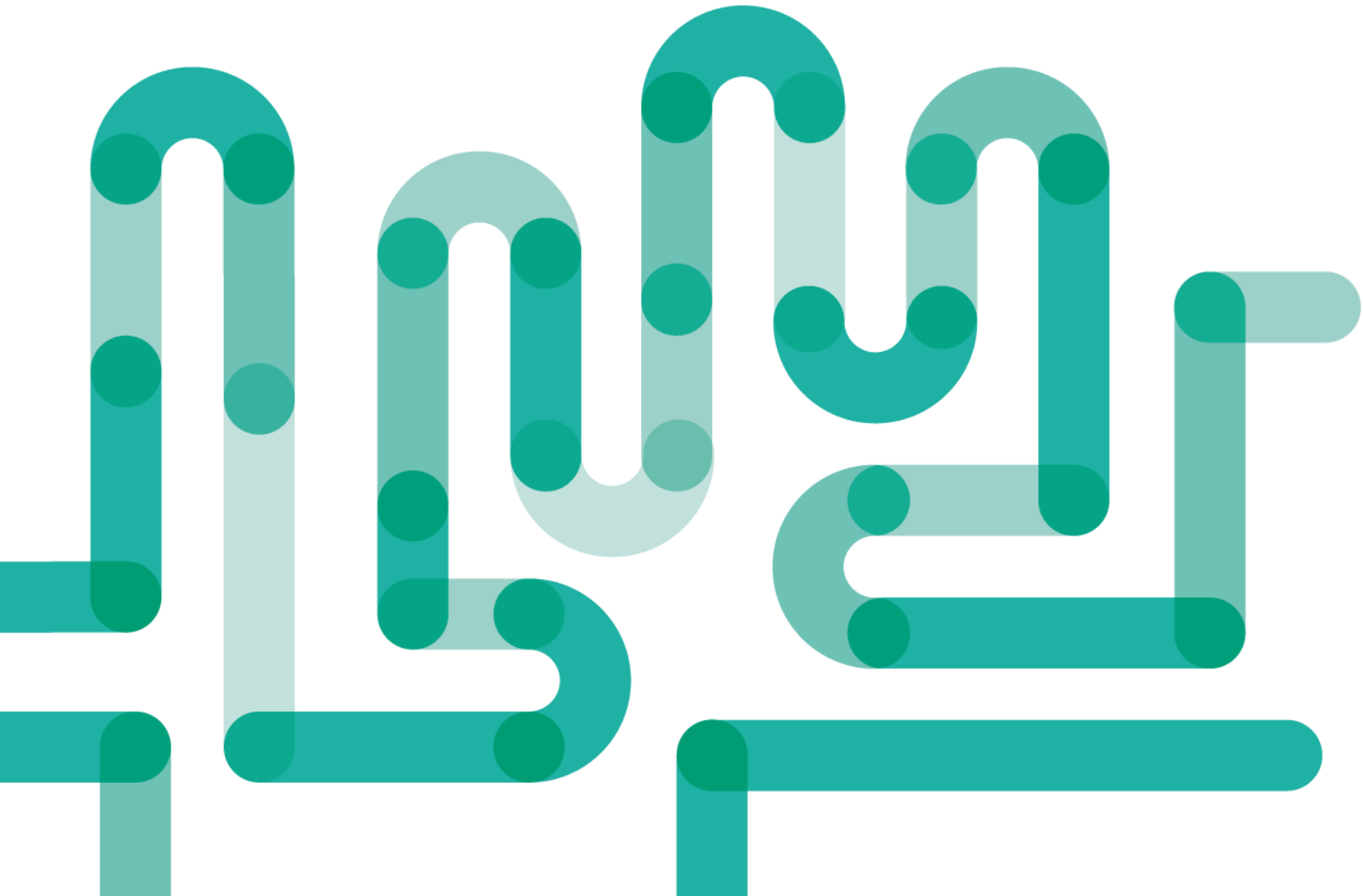
better

Database 2.0 CONCERTO

Podatkovna baza 2.0 CONCERTO

FEBBRAIO 2026

FEBRUAR 2026



CONCERTO – Database 2.0

Descrizione sintetica del documento

Il documento "CONCERTO – Database 2.0" presenta, in forma sintetica e visiva, gli aggiornamenti implementati nella piattaforma nell'ambito del progetto CONCERTO. Il rapporto descrive le funzionalità attualmente disponibili, privilegiando gli esiti operativi e le schermate applicative rispetto agli aspetti tecnici e architetturali.
Gli interventi riguardano la semplificazione dell'inserimento e della gestione dei dati clinici: introduzione di un'unica data di prelievo per i risultati di laboratorio; inserimento facoltativo dell'altezza dei genitori; selezione standardizzata dei geni tramite elenco predefinito con ricerca; possibilità di modificare e salvare la via di somministrazione dei farmaci; aggiunta della sede di laboratorio Bolnica Petra Držaja.
Nel complesso, le modifiche mirano a ridurre le operazioni manuali, migliorare la coerenza e l'affidabilità dei dati e rendere più efficienti i flussi di lavoro clinici. L'integrazione con REDCap non rientra nell'ambito del rapporto.

CONCERTO – Database 2.0

Povzetek dokumenta

Dokument »CONCERTO – Database 2.0« na strnjen in vizualen način predstavlja nadgradnje platforme, izvedene v okviru projekta CONCERTO. Poročilo opisuje trenutno razpoložljive funkcionalnosti ter se osredotoča na operativne rezultate in zaslonske prikaze aplikacije, ne pa na tehnične in arhitekturne vidike.
Izboljšave obsegajo poenostavitev vnosa in upravljanja kliničnih podatkov: uvedbo enotnega datuma odvzema za laboratorijske rezultate; neobvezen vnos višine staršev; standardizirano izbiro genov s predhodno določenega seznama in iskalnikom; možnost spreminjanja in shranjevanja načina aplikacije zdravil; dodajanje laboratorijske lokacije Bolnica Petra Držaja.
Spremembe so namenjene zmanjšanju ročnega dela, izboljšanju doslednosti in zanesljivosti podatkov ter večji učinkovitosti kliničnih delovnih procesov. Integracija z REDCap ni vključena v to poročilo

Document Version Control

Version	Date	Author	Change Description
0.1	02.02.2026	Živa Pečjak	Draft version
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Introduction

This document provides an overview of the improvements implemented within the Concerto project carried out by Better. It serves as a consolidated implementation report intended to support project documentation.

The purpose of this document is to demonstrate the practical outcomes of the Concerto project by presenting the implemented changes in a clear and visual manner. Rather than focusing on requirements or planned solutions, the document highlights the functionality as it is currently available, supported by screenshots from the application that illustrate how the system looks and behaves following implementation.

The content is presented at a high level and is supported primarily by screenshots from the application, which visually demonstrate the implemented functionality. The document intentionally avoids technical and architectural detail and instead focuses on the visible outcomes of the work performed.

This report reflects the functionality as it is currently available in the application.

Redcap integration is not part of this report.

References

Title	Author	Version	Date
Word document: CONCERTO improvements			1st of April 2025
Email: 'database cattedra'			from 5 May 2025
Email: Additional Issues with Concerto Database			from 8 May 2025
Excel document: Conversioni cattedra			
Design Document - Cattedra_ Phase 3_0.3	Darija Šalehar	0.3	December, 2021
Excel document: Panelli Concerto – Requirements overview	Polonca Erbežnik	0.6	August, 2025

Overview of Implemented Improvements

During the Concerto project, a series of improvements were implemented in response to clinical feedback and operational needs identified during system use. These improvements focus on simplifying data entry, reducing manual effort, improving data consistency, and supporting the specific workflows of pediatric rheumatology across different disease areas.

The implemented changes build on existing functionality and enhance it through configuration, form optimization, and improved presentation of clinical data. Particular attention was given to areas where users interact frequently with the system, such as laboratory results, medication management, growth data, and disease-specific summaries.

Improvements in Date Handling and Data Presentation

This improvement addresses how the collection date is entered for laboratory test results. The goal was to simplify data entry by avoiding repeated date input for individual test results, while ensuring that existing data and data structures remain unchanged.

Previously, the *Collection date/time* field was part of each individual laboratory test result. As a result, users had to enter the same date repeatedly for every test within a single laboratory assessment. The field also included a time component, which was not required for clinical use.

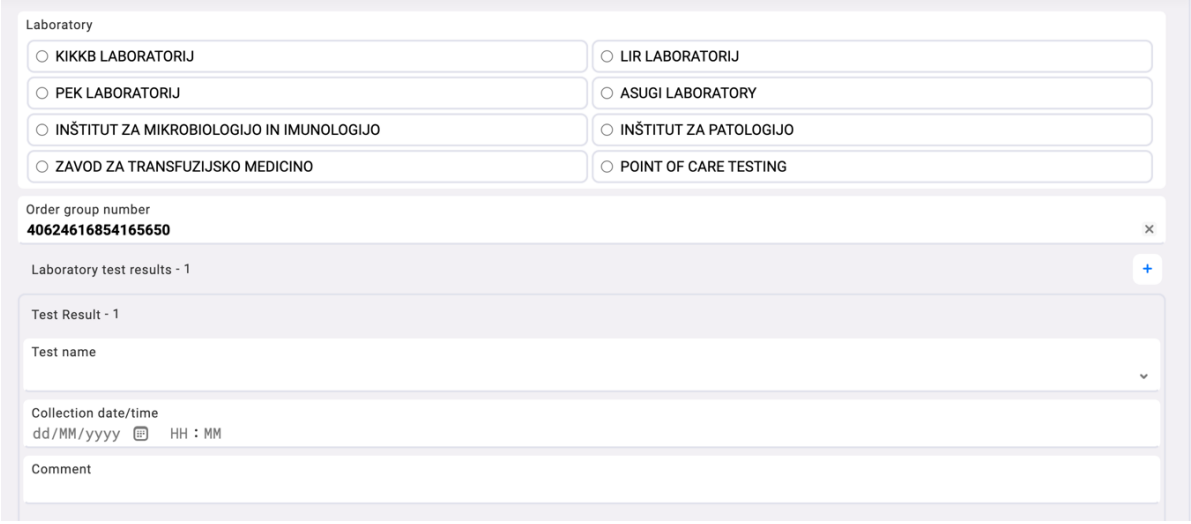

Figure 0. Old state: Form Laboratory results with field Collection date/time within the Laboratory test results

A single, generic date field was introduced at the form level, allowing the user to enter the collection date once per laboratory assessment. The entered value is automatically applied to all individual test results in the background, while the original field remains unchanged and hidden from the user. The time component was removed, and the date field is now mandatory to ensure consistent data entry.

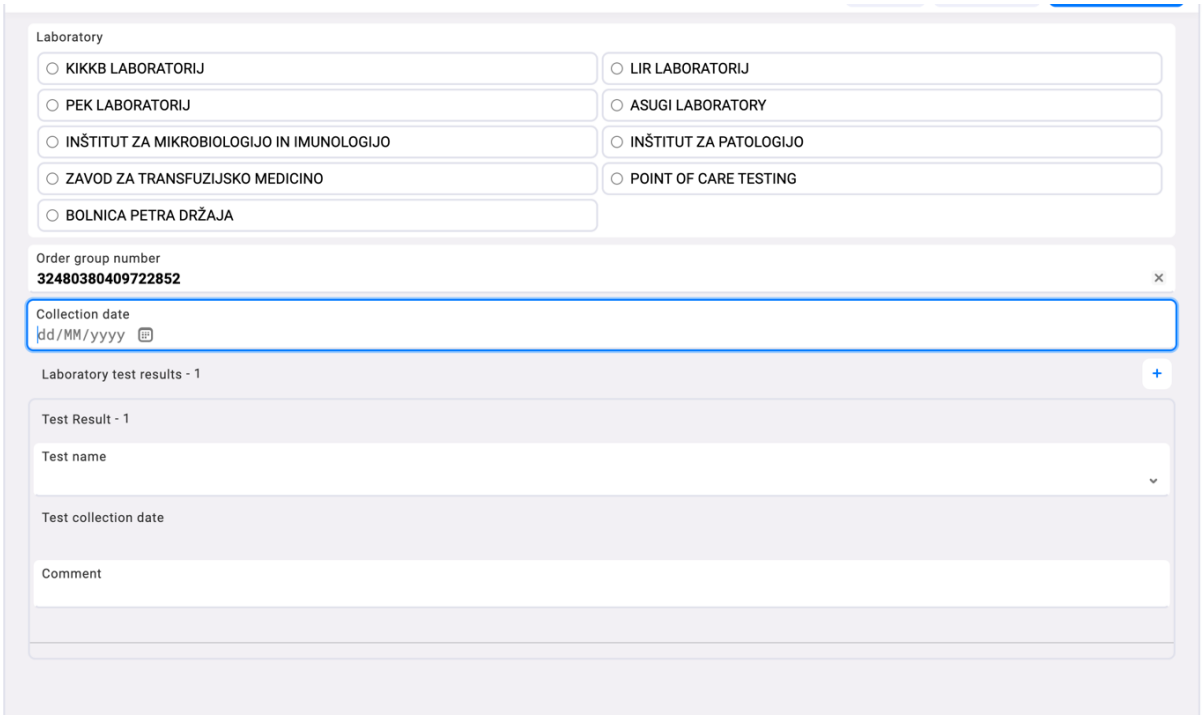

Figure 1. New state: Form Laboratory results with new generic field (Collection date)

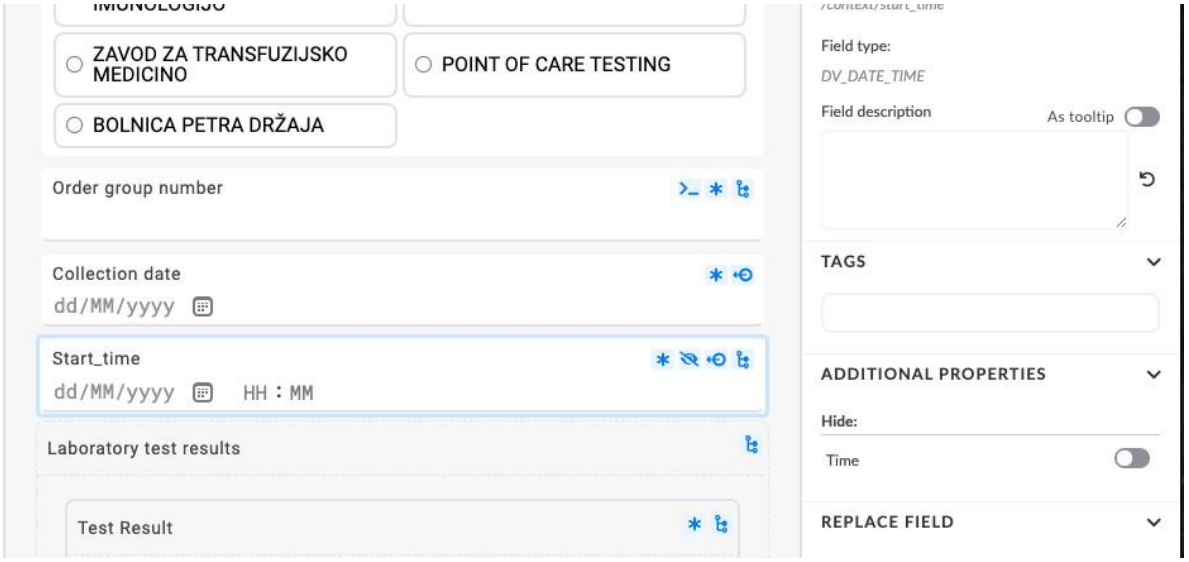

Figure 2. New state: Original Collection date/time field (DV_DATE_TIME) hidden

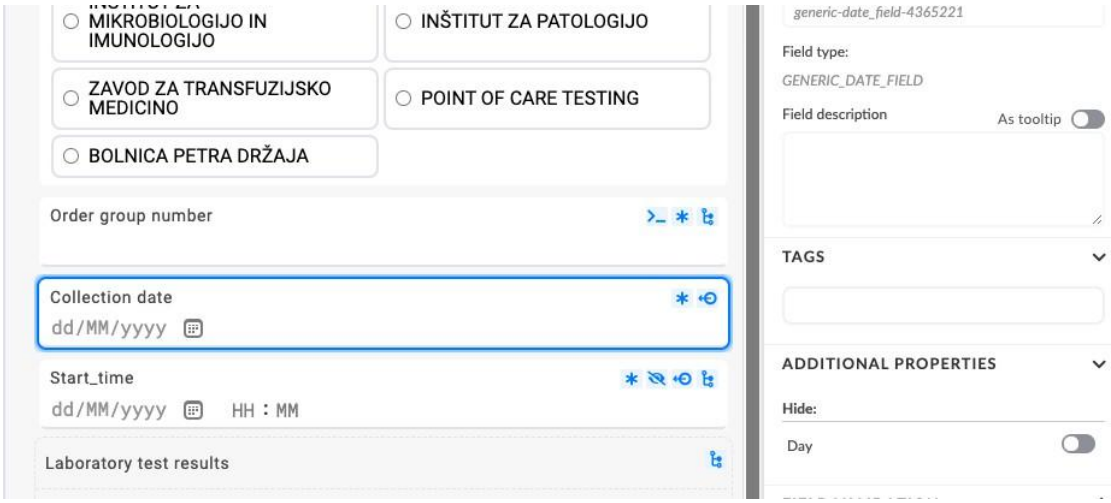

Figure 3. New state: New field GENERIC_DATE_FIELD is available to user

Optional Entry of Parental Height Data

This improvement focuses on the handling of parental height information within the Growth Chart form. The objective was to ensure that the form better reflects real clinical practice, where parental height data is not always available at the time of assessment, while still allowing this information to be recorded when known.

In the previous implementation, the fields for mother's and father's height were configured as mandatory. As a result, users were unable to submit the Growth Chart form if this information was missing. In practice, this led to blocked workflows in situations where parental height data was unavailable, despite the fact that the remaining growth-related measurements were complete and clinically relevant.

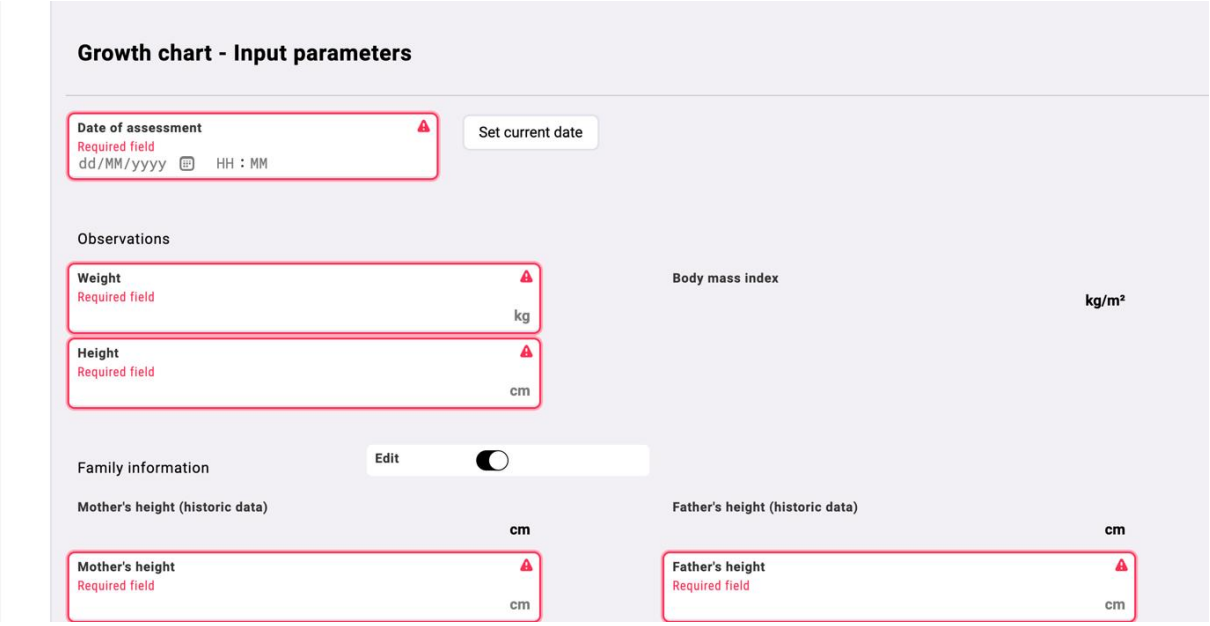

Figure 4. Old state: Mother's height and Father's height are required fields

The implemented solution updates the validation rules so that parental height fields are no longer mandatory. Users can now submit the Growth Chart form without entering mother's or father's height, while retaining the ability to provide this information at a later stage if it becomes available.

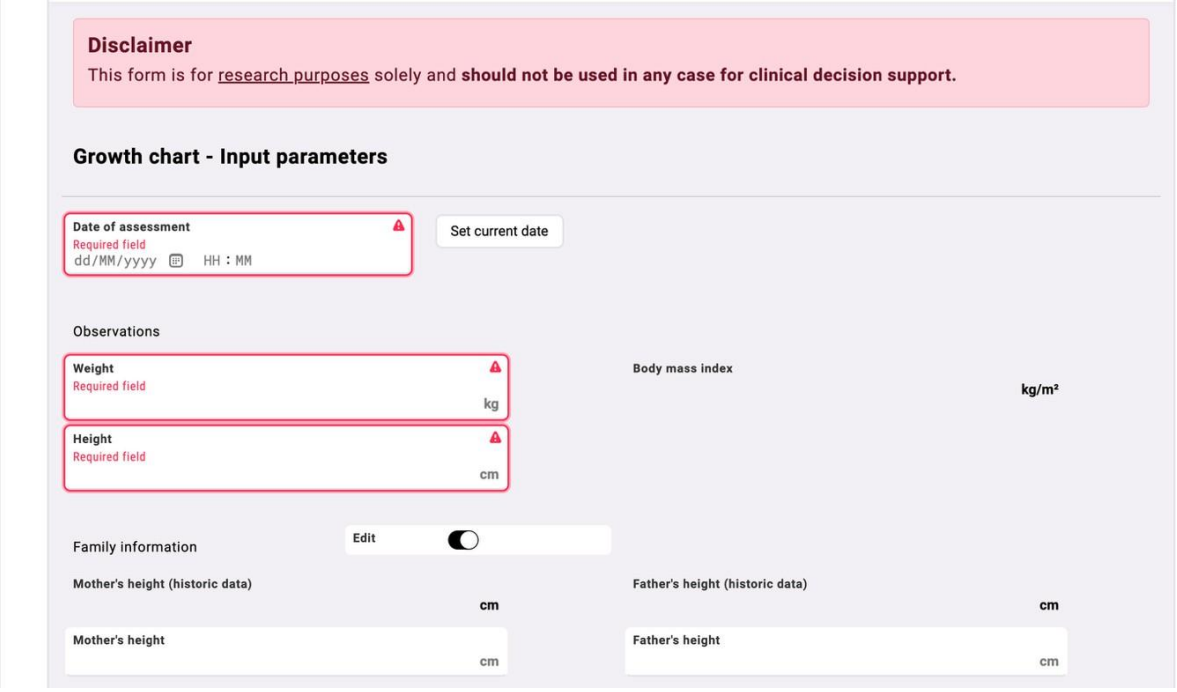

Figure 5. New state: Mother's height and Father's height are not required fields anymore

Dropdown list with the predefined genes values

This improvement focuses on the selection of gene values within the Genetic Analysis form. The objective was to ensure that all required gene values can be selected from a predefined list, supporting consistent and standardised data entry while avoiding free-text input.

In the previous implementation, user needed to manually enter the gene value. There was no predefined list of available values. User was also facing with the issue that not all available values were displayed.

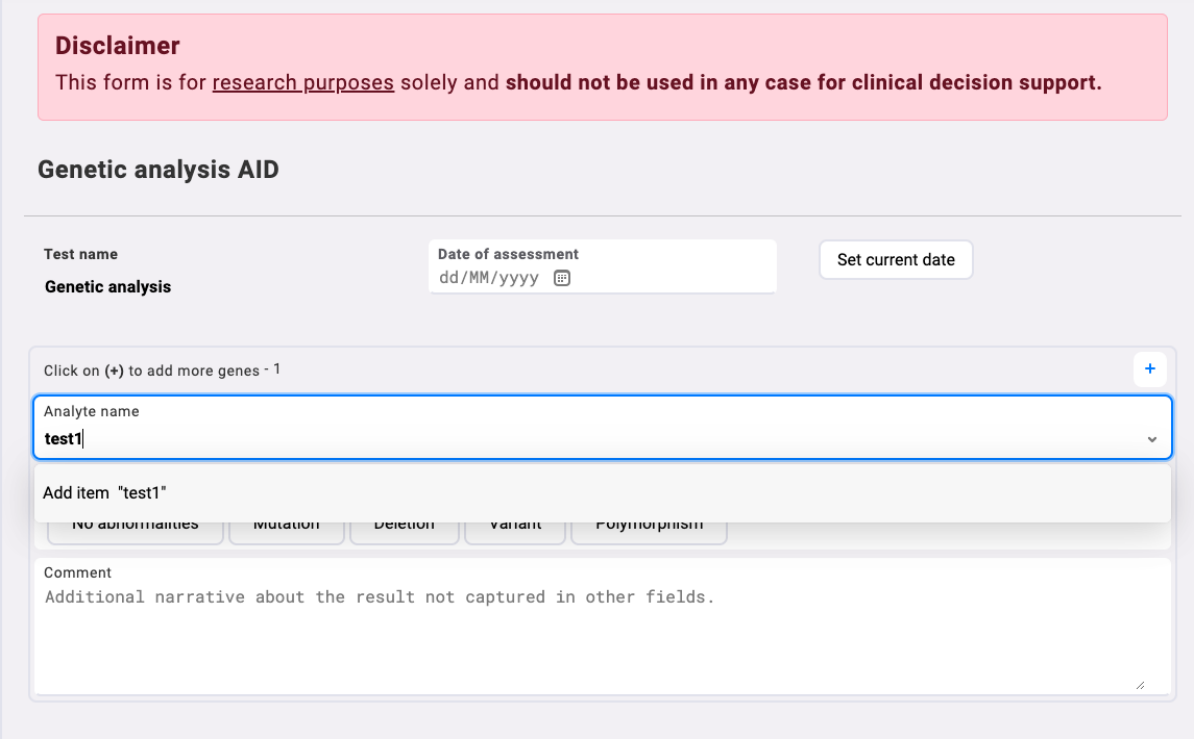

Figure 6. Old state: No dropdown list available under the Analyte name field

The implemented solution applies additional configuration to the existing field to ensure that all defined gene values are available for selection. The dropdown list now uses a type-ahead search: users must enter the first characters of a gene name to display matching options for selection.

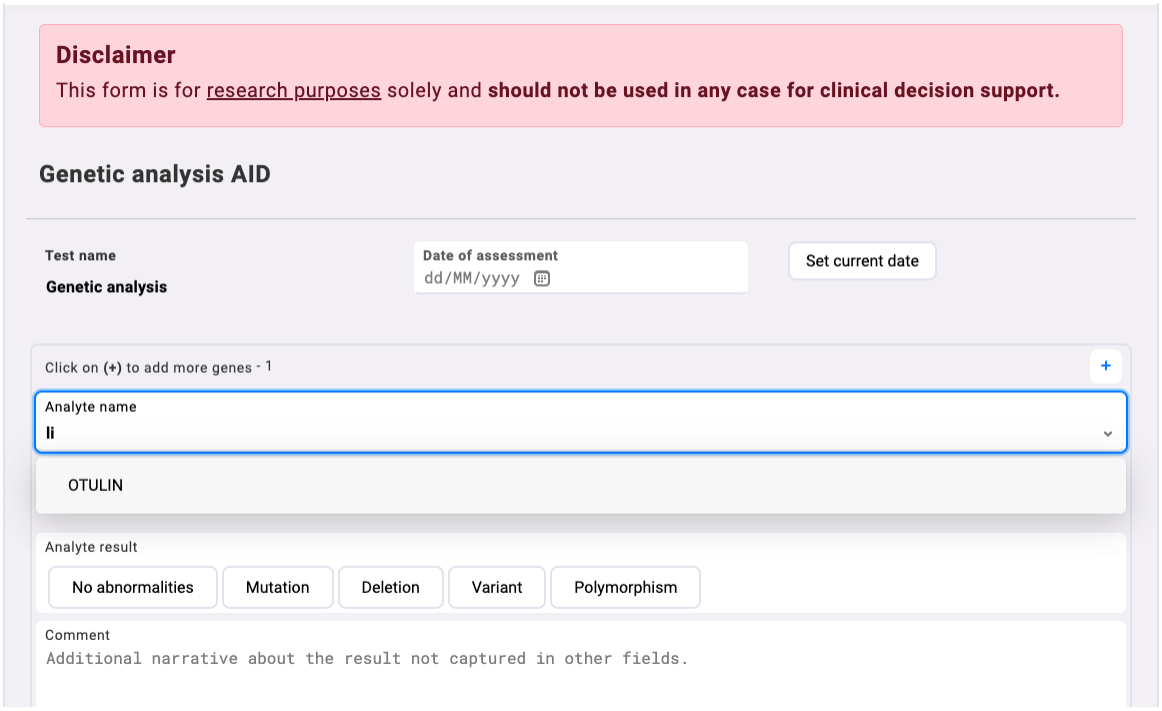

Figure 7. New state: Dropdown list with predefined gene values added to the Analyte name field

Gene values can be selected only from the predefined value set, ensuring consistent and standardised data capture.

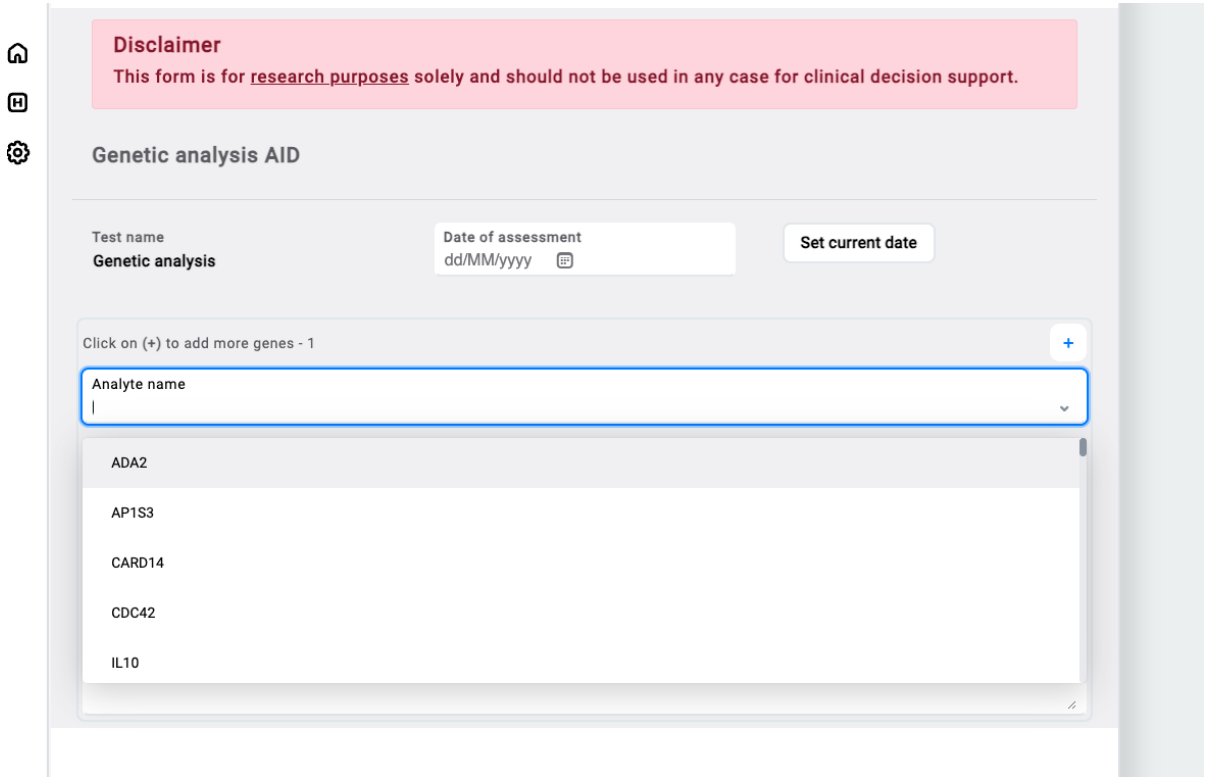

Figure 8. New state: Dropdown list with predefined gene values added to the Analyte name field

Flexible Handling of Medication Application Route

This improvement addresses the handling of the *Application route* field within the Medications form. The objective was to retain supportive system behaviour while allowing clinicians greater flexibility to adjust medication details when required by the clinical context.

In the previous implementation, the *Application route* was automatically populated based on the selected medication. While this supported standardised data entry, any manual changes made by the user were overwritten by the system upon form submission. This limited flexibility and prevented users from recording valid clinical scenarios where the application route differed from the predefined default.

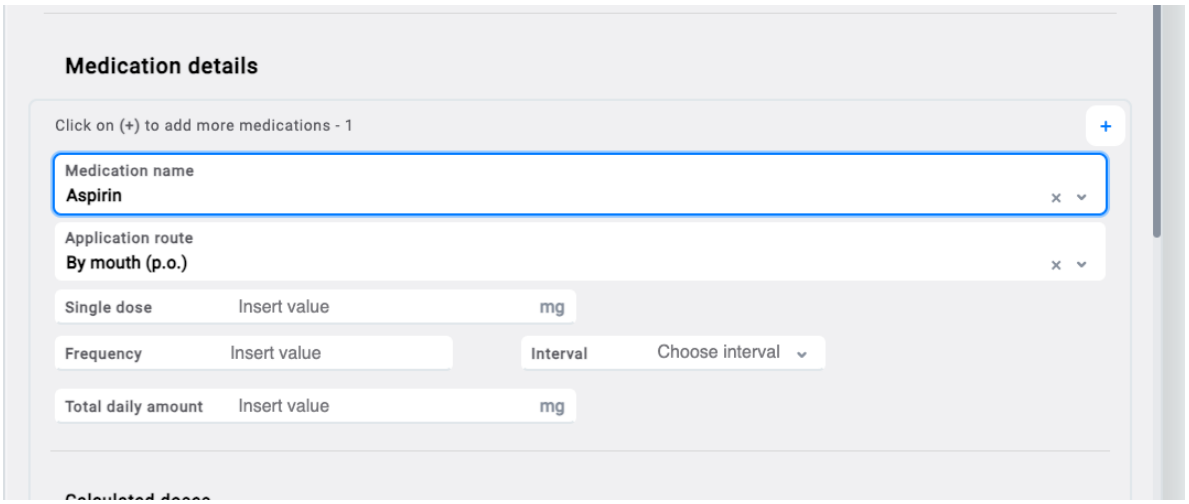

Figure 9. Old state: Application route is automatically populated and can not be automatically overridden

The implemented solution preserves the existing automatic suggestion of the application route but allows users to manually override the value when necessary. User-selected values are now saved with the assessment and displayed consistently when the form is reopened or reviewed.

This change improves flexibility in medication documentation while maintaining structured and consistent data entry, better reflecting real-world clinical practice.

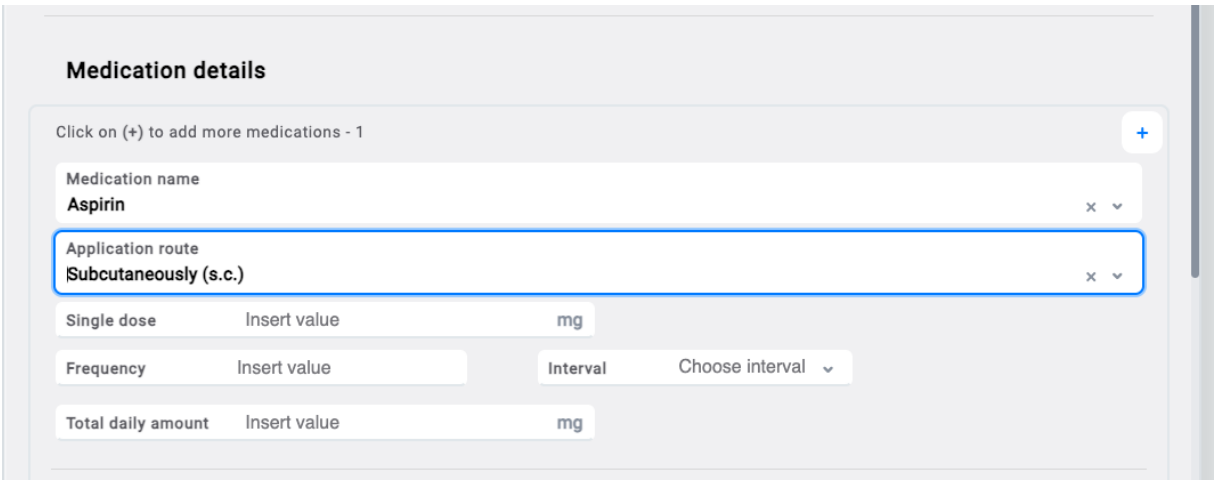

Figure 10. New state: Application route is prepopulated but can be manually overridden and saved

Additional Laboratory Location Value

This improvement addresses the list of available laboratory location values in the Laboratory Results form. The objective was to ensure that all required laboratory locations can be selected when recording laboratory data.

In the previous implementation, the list of available laboratory locations was limited to eight locations. The implemented solution extends the predefined list of laboratory location values by adding Bolnica Petra Držaja, allowing users to select this laboratory location when entering laboratory results and ensuring accurate and complete documentation of laboratory data.

Figure 11. Old state: Eight options available under Laboratory field

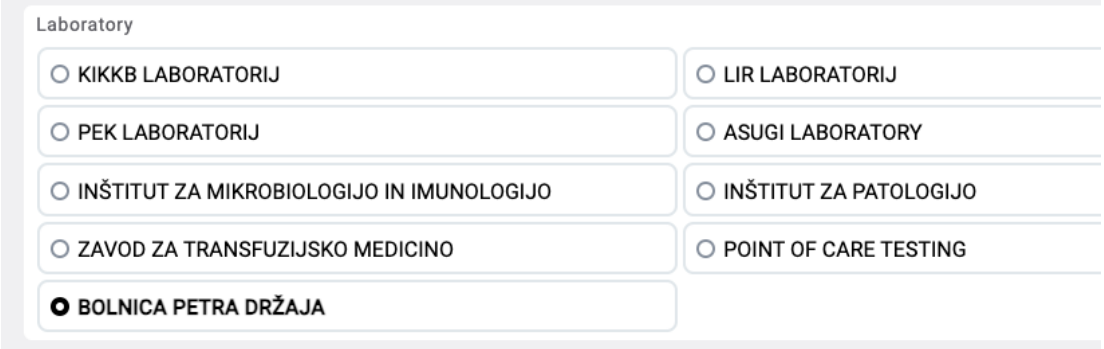

Figure 12. New state: Bolnica Petra Držaja added to the Laboratory field options

Closing remarks

With these improvements, key clinical workflows were optimised to simplify data entry and reduce manual effort. By limiting the time healthcare professionals spend completing forms, the system better supports everyday clinical work and enables users to focus more on patient care and wellbeing.

The implemented changes improve efficiency and consistency across frequently used areas of the application, contributing to a smoother user experience and more reliable clinical documentation.

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