

PUBLIC

SAP Medical Research Insights 3.0

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Feature Scope Description

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1 SAP Medical Research Insights Feature Scope Description

1.1 About this Document

This document shows you which features are provided with SAP Medical Research Insights 3.0 FP0.

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> **i** Note
>
> SAP Medical Research Insights is intended to be run on SAP Connected Health and not as a standalone solution. When run on SAP Connected Health, SAP Medical Research Insights accesses features of SAP Connected Health.

2 Applications

The following applications are provided with SAP Medical Research Insights:

Application Type	Description
End-user application	This end-user application of SAP Medical Research Insights provides features for: • Analyzing patient data to verify research hypotheses and identify candidates for studies, for example • Generating access points to support data consumption in external analytical tools used for further data analysis
Administrative application	This administrative application provides options for: • Configuring the features of the application for end users • Creating application configurations for end users based on a specific clinical data model configuration • Creating application configurations for end users based on a specific clinical data model configuration • Supporting integration of customer algorithms along with custom charts to visualize the data analysis results

Some features that are available to users of SAP Medical Research Insights are provided as features of SAP Connected Health and therefore, are not described in this document.

Similarly, any administrative features provided with SAP Connected Health, including those used to create end-to-end configurations for end users of SAP Medical Research Insights, are not described in this document.

3 Analytics Features

Related Information

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3.1 Filtering Features

SAP Medical Research Insights provides the following features related to filtering:

Feature	Description
Filter cards	Enable users to restrict data when building a cohort or analyzing patient data
Basic data filter card	Enable users to filter by patient information that is not specific to any single interaction with a healthcare provider
Interaction filter cards	Represent different types of interactions with healthcare providers and therefore enable users to filter by specific interaction types
Genomic filter cards	Enable users to filter for patients for which genome sequencing has been carried out and for which variants have been identified at specific locations of the genome
Combination of filter cards	Enables users to combine filter cards in a number of ways to identify patients who have had certain interactions or complex combinations of interactions that meet specific criteria. Users can apply Boolean logic to find patients in the patient set that meet the following criteria: • Patients for which there is data for all the criteria specified • Patients for which there is data for one or more of the interactions or interaction sets specified based on the Boolean operators applied

Feature	Description
Filter attributes	Enable users to specify which data filters are applied. Users can add or remove filter attributes on filter cards. Filter attributes can have data types such as text, free text, number, and date. Attributes can also be used to specify a date range during which an interaction occurred.
Filter controls	Enable users to select predefined controls to apply more complex filtering. The predefined attribute controls enable users to: • Apply chronological and time constraints and filter data based on when an interaction occurred relative to one or more other interactions • Filter data based on parent-child relationships between interactions
Inclusion and exclusion criteria	Enable users to: • Identify patients that match their inclusion criteria specified so they are included in a chart or visualization • Apply a negative filter to exclude patients that match their exclusion criteria so they are excluded from a chart or visualization
Filter summary	Enable users to view a summary of the filtering criteria they've applied

3.2 Charts

SAP Medical Research Insights provides the following features related to the charts that enable users to view and analyze aggregated patient data:

Feature	Description
X-axis and y-axis	• **X-axis** Enables users to select categories of patients to be displayed, where categories are subset of the patients defined by the filter cards • **Y-axis** Enables users to specify the measure to be used to calculate the value of categories
Bar chart	Allows users to visualize and compare the values for various categories of patients across the categories represented on the x-axis Users can also sort the categories displayed along the x-axis

Feature	Description
Box-plot chart	Visualizes the distribution of numeric values by showing the median, the upper and lower quartiles as well as the maximum and minimum values
Kaplan-Meier chart	Estimates the overall life expectancy of patients or the percentage of patients still living at various time intervals following an interaction, and visualizes these survival curves Allows analysis curves to be plotted for time-to-event data between two selected points in time where the event of interest is not the date of death Allows survival distributions to be compared and statistics to be examined for curve pairs

Genomic views	• Variant browser
	  ○ Visualizes genetic variants in genome samples
	  ○ Indicates the percentage of patients who have a variant in a specific gene
	  ○ Provides an ideogram of a chromosome with position numbers
	• Gene summary
	Lists all genes for which there are gene variants in the patient group
	• Gene alteration matrix
	Visualizes gene alterations in a matrix similar to a heatmap
	• Gene correlation view
	Visualizes gene correlation patterns between gene pairs in a triangular matrix or chord diagram

3.3 Patient List

SAP Medical Research Insights provides the following features related to the patient list:

Feature	Description
Patient list	Enables users to: • Display a list of patients that match their specified search criteria and for which they are authorized to display data • View information on individual patients • Navigate to the application from SAP Connected Health that provides a summary of patient details, to view more details for a specific patient

Feature	Description
Customizable columns	Users can view default basic patient data, interactions, and attributes as table columns or select additonal interactions and attributes to include in the list
Sorting option	Users can sort the patient list by specific columns

3.4 Cross-Chart Features

SAP Medical Research Insights provides the following cross-chart features:

Feature	Description
Saved filters	Enables users to save specified filters (interactions and attributes), charts, categories, and measures so they can reuse them later
CSV export	Enables users to download specific data in CSV format; whether and which data can be downloaded depends on the current chart
ZIP export	Enables users to download a ZIP file of CSV files for the data in the patient list. These CSV files may be of interest for further processing of information in external applications.
PDF export	Enables users to download specific data in PDF format; whether and which data can be downloaded depends on the current chart (not supported for patient list) **! Restriction** The PDF export feature is currently not supported for Chinese.
PNG export	Enables users to export an image of the data displayed in certain chart types (not supported for patient list)
Add patients to cohort	Enables users to save and share the patients that match their filter criteria by adding these to a new or existing cohort
Group comparison	Enables users to compare multiple patient groups easily without having to first persist the data for these groups

4 Configuration Features

SAP Medical Research Insights provides the following administrative features related to the configuration of options for end users of the analytic features:

Feature	Description
Filter card and attribute configuration	Enables you to configure filter cards and attributes to be made available to end users based on a clinical data model configuration from SAP Connected Health
Chart configuration	Enables you to configure individual charts, how the charts are to be displayed to end users, and what options are to be activated for each chart
Patient list configuration	Enables you to specify which basic data and interaction attributes can be used as columns in the patient list
Custom visualization configuration	Enables you to integrate any custom visualizations you would like to make available to end users based on your custom algorithms and visualizations

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