

This document was machine-translated from German.




**MEDFASOP**

**Medical File and Status of the Patients**

**Version 8.2**

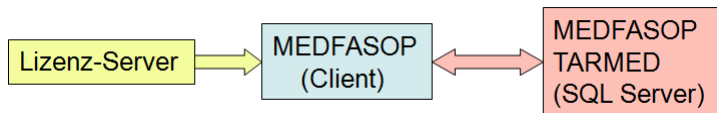
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# 1 Medical File and Status of the Patients<sup>1</sup>

The application supports medical practices with regard to reservations, record keeping and filing, as well as recording treatment times and evaluating measurement data in charts. It is designed as a client/server solution in English, French, German and Italian and is highly scalable, including through metadata for medical history, consultations and charts.



MEDFASOP was developed using Microsoft Visual Studio and Microsoft SQL Server <sup>2</sup>.

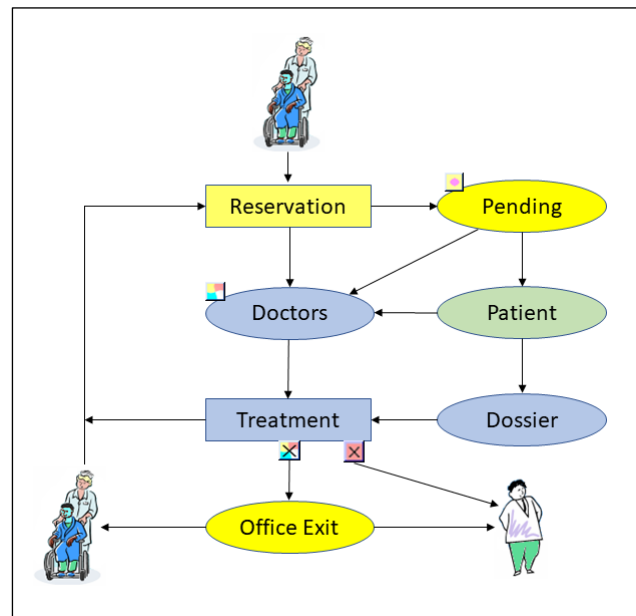
With few exceptions, this document deals with the blue client component. A separate document is dedicated to the red SQL server. The TARMED database contains the data from TARDOC and is optional (→ p. 37).

MEDFASOP provides two installation sets: (a) a client, which is installed and registered as a normal application for each user, (b) a folder for the data server which contains, among other things, the license server and other control data.

The workflow principles with data reference from MEDFASOP are shown on the right. Office-related matters are colored yellow, those of the physicians blue. Personal data can be edited by both roles.

MEDFASOP works with roles (→ p. 30) which are assigned to users.

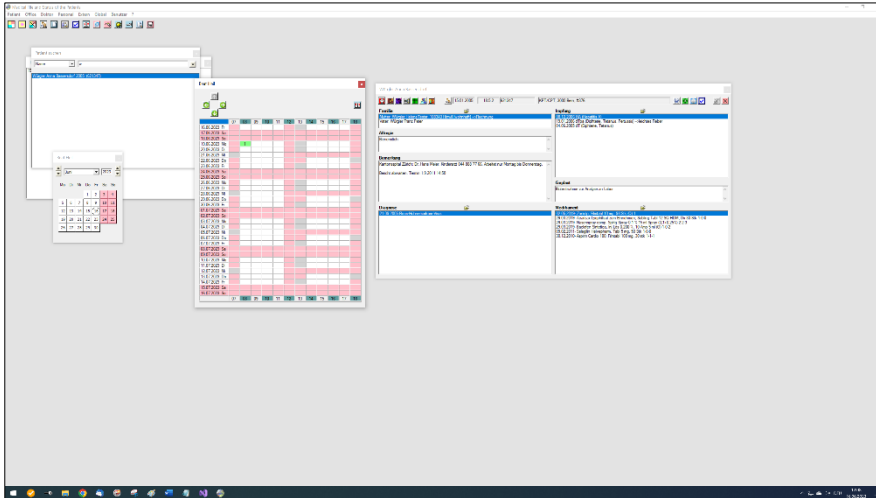
The structure of this document is based on the available roles. Chapter 2 describes common aspects.



<sup>1</sup>For readability, the documentation is written using the masculine form. The size of the forms shown is determined by the available space in the document. Their content is purely fictional. Subscripts in parentheses (#1) indicate the application window numbers. This document was machine-translated from German.

<sup>2</sup>The requirements for using the software are listed on page 45.

## 2 Common (#1)



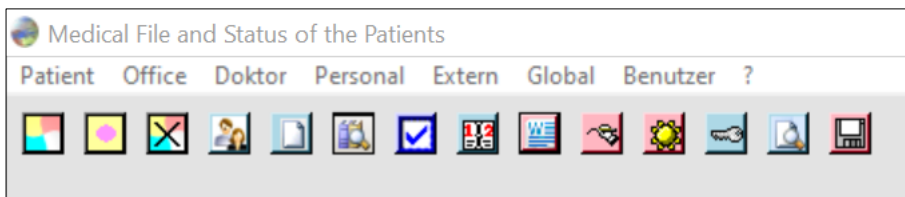
the foreground.

MEDFASOP remembers the last window position and size, provided the latter can be adjusted by the user. This allows the screen layout to be adapted to personal preferences.

When the main window is minimized, all subordinate windows are automatically minimized as well. The same applies in reverse when maximizing. Only the small window where documents can be selected for viewing and editing is unaffected. It always remains in

If the cursor hovers over a form element, its name **Patient**, along with any additional information, will be displayed.

### 2.1 Standards



Buttons that open a window also close it with another click (switch function). They are operated via the conventional menu structures.

are inactive. They are only activated with a blue background.

Buttons with a red background

[F1] Help for the active window.

[Ctrl+H] Maintaining hotkeys for context menus (→ 2.1.1 and 2.1.2 from page 6).



Opens the personal appointment schedule (doctor) or the list of all reservations (office) as needed.



Opens the list of patients who are entered in the appointment schedule but have not yet been assigned patient data (pending).



Opens the list of patients whose current visit has been completed by the doctor, but who still require a new appointment, medication, or other services from the office.



Opens the window for searching patient data. From there, various actions can be performed.



Create new patients. If they already exist as pending cases, this is done most efficiently from there.



Opens the treatment history.



Opens the TARDOC history.



Opens your personal calendar.



Creates a Word document in XML format. Alternatively, Word is <sup>3</sup>replaced by HTML. A right-click, where implemented, triggers the respective alternative.



Where the editor is active in the text field, a "white hand" appears at the cursor as long as the field remains clicked. You can drag the cursor with the left mouse button onto the (now blue) "hand with pen," and releasing the button will launch the editor (drag and drop). A double-click also launches the editor.



This button is highlighted in blue when an active window is ready to respond to a new display. Clicking it initiates this new display.



This button is highlighted in red when the input form is locked for a specific key (the reason is displayed). Clicking the red button restarts the form.



Text search across all patients for diagnoses, medications, medical histories, consultations.



The save button also displays the delete icon (scissors) depending on the context <sup>4</sup>. In the forms, these functions are additionally implemented locally, with the local, yellow version closing the window after execution.



Normally, actions are performed using the left mouse button, referred to in the document as a click or double-click. The right mouse button, where available, opens the corresponding context menu and, in date fields, the personal calendar. In most text fields, a double-click opens the text editor.



Texts <sup>5</sup>can be edited with the user's preferred editor. The editor is entered under the "User" menu. Notepad++ is recommended for MEDFASOP.

Editor:	Drive:\Path\Program.exe [Parameters] <sup>6</sup>
Notepad <sup>7</sup> :	Notepad
NotePad++ <sup>8</sup> :	NotePad++

**Table 1: Text editor**

### 2.1.1 Context menus

Context menus are activated with the right mouse button and deactivated again depending on the situation. They are manually deactivated with [Escape]. Users can assign their own hotkeys to frequently used menus ( → next page). Otherwise, they receive one automatically. It is a letter (az) or a number (1-9). Case sensitivity is ignored. (Keyboard input is used.) The function that corresponds to the hotkey is applied. You don't need to make the context menu visible first, thus saving yourself a right-click.

<sup>3</sup>For viewing purposes, HTML is more efficient than Word.

<sup>4</sup>Deletion only occurs after user confirmation.

<sup>5</sup>Only plain text is transferred: 8000 bytes for help text, otherwise 4000 bytes, including return characters etc.

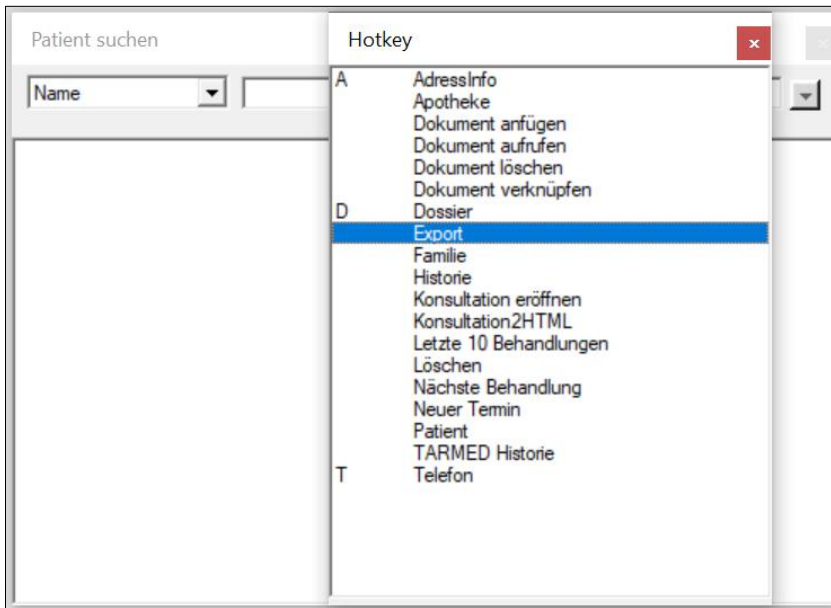
<sup>6</sup>For registered programs, the program name is sufficient. Parameters are optional, but are only recognized when using ".exe".

<sup>7</sup>In the editor, under the menu "Format", enable line wrapping.

<sup>8</sup>Freeware that supports read/write permissions and spell check ( <https://notepad-plus-plus.org/> ). In the editor, under the "View" menu, enable automatic line wrapping.

## 2.1.2 Hotkeys (#47)

When the [Ctrl+H] keys are used in a window with a context menu, the hotkeys can be selected and deselected. In this example, it's the "Find Patient" window.

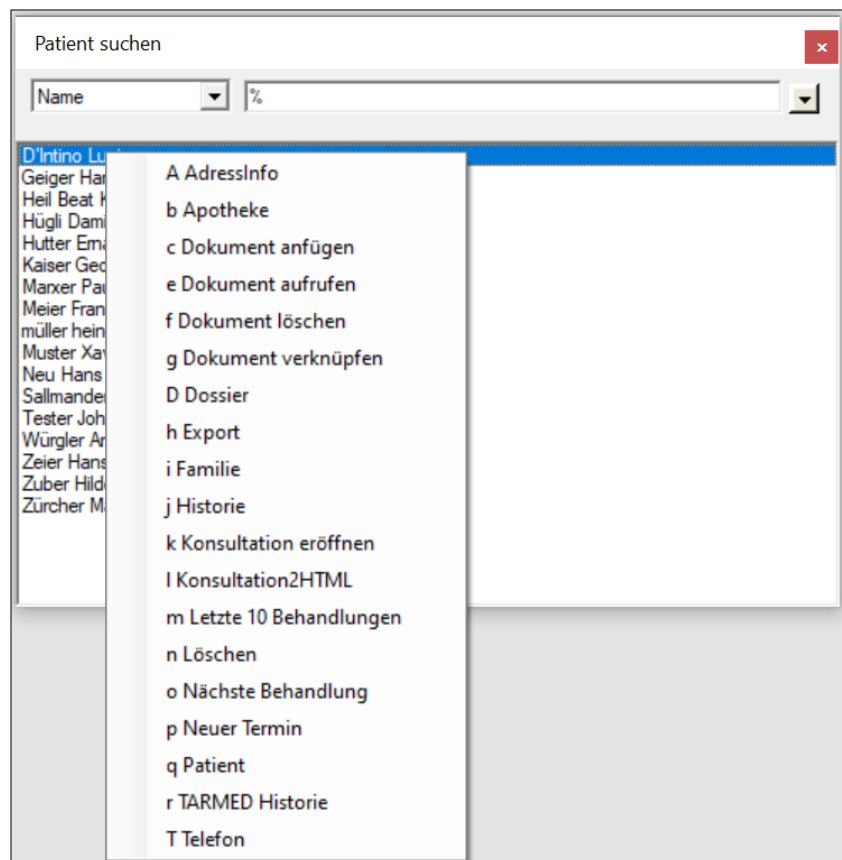


Then simply click the desired line and press a key from [A] .. [Z] or [1] .. [9]. Pressing the [Spacebar] removes the hotkey. For example, if [D] were used for "Attach Document" at this point, it would automatically be removed for "Dossier".

A selection made automatically applies to all context menus.

When the window is closed, the base window is also closed for updating purposes.

Here is the situation after the change.



## 2.2 Patient search (#6)

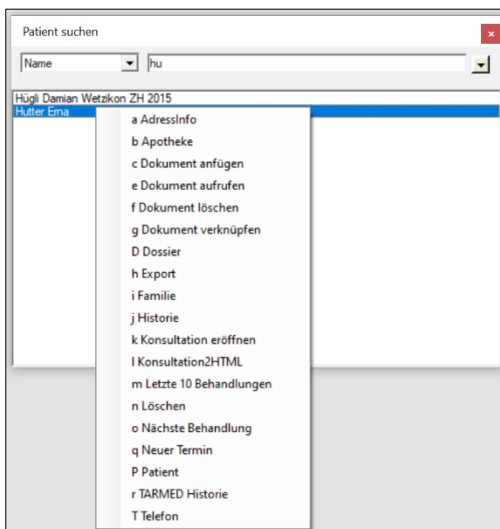


when searching for patients. Umlauts, uppercase/lowercase letters, and accents are not differentiated. The search results are displayed as soon as the adjacent button is clicked. Unless the search text begins with a space, the SUR-NAME must always come first, followed by FIRST NAME, ADDITIONAL INFORMATION, CITY, and YEAR OF BIRTH. All entries can be fragments. The % wildcard should only be used if the beginning of a word is a fragment.

Search text	Selected from database, e.g.
mueller	Müller, Mueller, MÜLLER, MUELLER
Müller	Müller, Mueller, MÜLLER, MUELLER
belvedere	Belvedere
mue kl pet	Peter Müller Kloten
	Mueller Klaus Peter
ander %uench kl pet <sup>9</sup>	Bilander Klaus Peter Munich
	Munich Peter Alexander Kleinhünigen
mue %kl pet	Müller Niklaus Peter
	Peter Müller Kloten
%	Lists all patients

**Table 2: Search for patients**

button <sup>10</sup>was clicked after entering "hu" . If no patient was found, the input area is colored red.



Right-clicking on a selected patient opens the context menu.

<sup>9</sup>A blank space at the beginning.

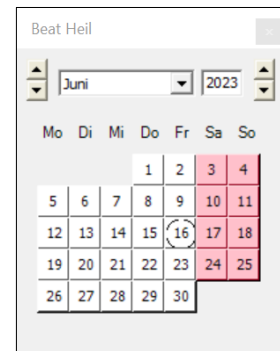
<sup>10</sup>Pressing the Enter key also triggers the search process here. Additionally, you can also search by APID (first selection field).



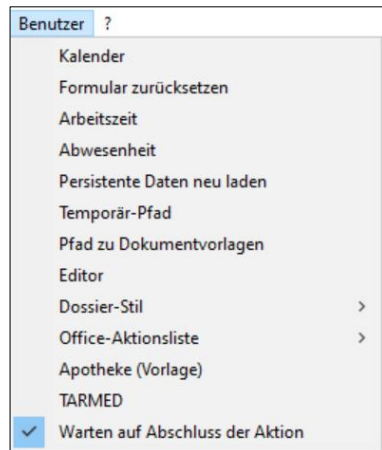
## 2.3 Calendar (#4)



The calendar header indicates for whom its color coding <sup>11</sup>is relevant. Personal time grids overlap with those of the practice. The current calendar day is circled. Where a date is required in forms, a right-click in the field opens the calendar. To enter a date, click the desired day here.



## 2.4 User



The "Reset form" function restores the original state in terms of size and position.

Personal working hours <sup>12</sup>and absences can be managed from here ( → p. 30).

Frequently used data is copied to local storage at startup. "Reload data" updates it by automatically terminating MEDFASOP.

Under "Temporary path" this can be set individually (e.g. c:\temp) <sup>13</sup>so that the extremely long Windows path is not used.

Under "Path to document templates", the path from which documents should be copied is set. <sup>13</sup>This is purely a default setting to make work easier.

Under «Editor», enter your preferred text editor ( → p. 6).

Under "Dossier Style," you can choose between "List" and "Text." "Text" displays the content of the diagnosis, vaccination, and medication in text format. Only after double-clicking in the corresponding window area does the list become visible, where a specific row can be selected for editing with a single click.

Under "Office Action List", the context menu of the Office window can be enabled or disabled. When disabled, the schedule is opened directly.

The pharmacy (template) option is only active for doctors. Enter the filename of the prescription print template here ( → p. 53). After a space, you can *edit*.<sup>14</sup> as well as «*print*»<sup>15</sup> to be entered ( → p. 27).

Doctors can customize their personal favorites selection in TARDOC ( → p. 38).

During external actions, MEDFASOP is automatically minimized to the taskbar. If "Waiting for action to complete" is selected, it will automatically maximize again once the action has finished, although this isn't always possible. When MEDFASOP is turned off, it remains minimized.

<sup>11</sup>The meaning of the possible colors is explained on page 16 PAGEREF \_Ref474980148 \h .

<sup>12</sup>If they deviate from current practice, then they must deviate completely.

<sup>13</sup>The path must exist.

<sup>14</sup>Open the editor before finishing.

<sup>15</sup>For automatic printing.


## 2.5 Documents (#26, #39, #44)

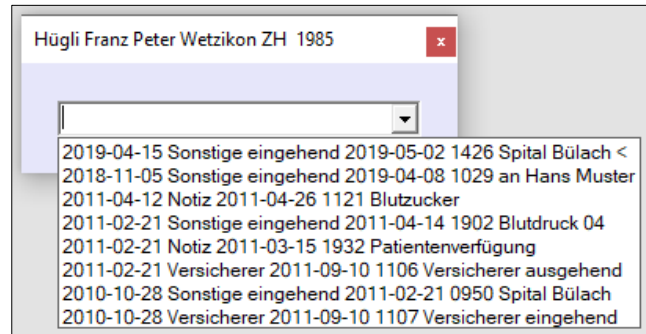
All documents <sup>16</sup>and links to them are stored on the data server in a folder specified under "DOCUMENT=" in the file MEDFASOP.Data.txt. Patients with documents then have a subfolder there with their PID. The generated filename for an object looks like this:




Internal	20050921#3#201012132239#würgler 1.doc	Consultation, Type, Date/Time Attached, Subject
External	2005-09-21 Other 2010-12-13 2239 Würgler 1	

The date format is canonical. A subject <sup>17</sup>is only included if required ( Table 3). A linked file <sup>18</sup>is marked with «<» (e.g., Spital Bülach).

On the right is a sample listing all documents. If the listing originates from a consultation, only documents from that consultation are listed. For both actions, the document type can be further specified.

This selection form is called up for various actions. The context is specified in the form header, and the background color is adjusted accordingly. **Important** : The [Escape] key closes the dialog form, <sup>19</sup>similar to [ the previous action  ].



 View.  Add or link.  Delete.

Document control is done via → text.

Information highlighted in gray must not be changed. «#» represents any number. If a subject is required for O.Document.#, an entry must exist under 26.O.Document.#.

Type	Regarding	
O.Document.0	All	
O.Document.1	laboratory <sup>20</sup>	
O.Document.2	Report Card <sub>20</sub>	
O.Document.3	Other	26.O.Document.3
O.Document.#	...	26.O.Document.#

**Table 3: Document Control**

<sup>16</sup>Important: The term "document" refers to any object, such as images.

<sup>17</sup>The subject line has no effect on file management in MEDFASOP.

<sup>18</sup>The file extension is «.lnk»

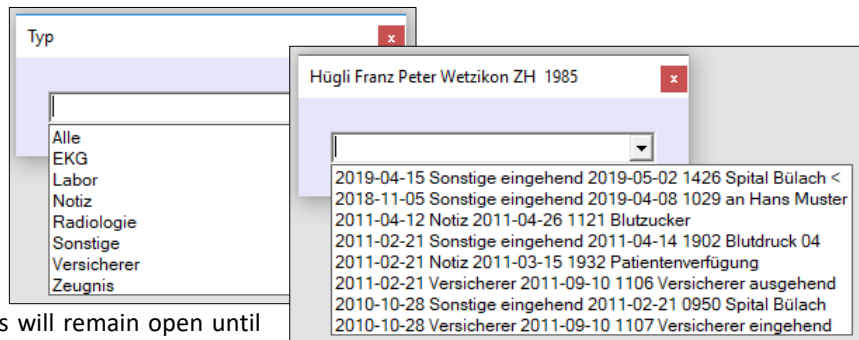
<sup>19</sup>As long as the selection for type or consultation is in progress, no other form can be used!

<sup>20</sup>If no subject line is required, a warning will be issued if a second document is added on the same day.

## 2.5.1 View and edit documents

The following is an example of how documents are selected and presented in the list when the type and consultation are unspecified. Which details are predetermined depends on the situation.

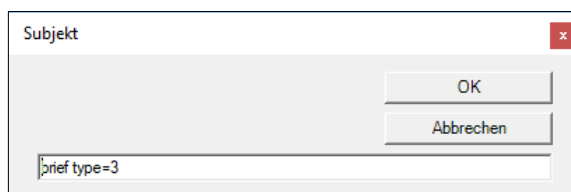
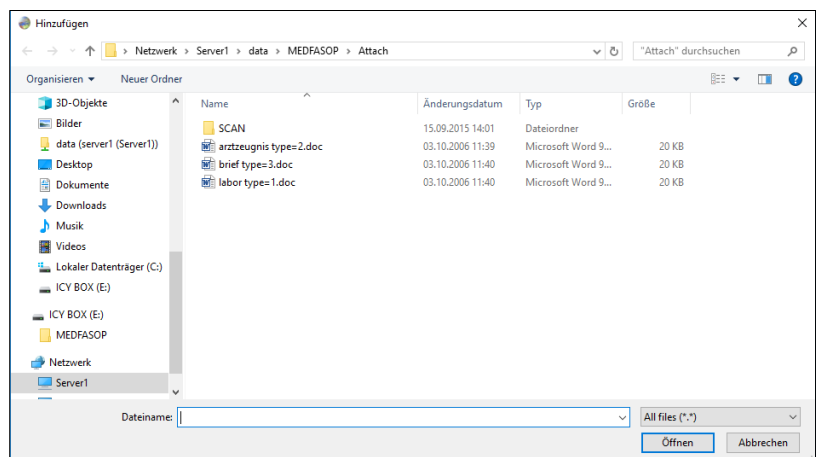
Starting with the patient, type "All" was selected. Documents of the searched type are then listed for all consultations. Clicking on a row launches the program associated with that document <sup>21</sup>. The documents are sorted chronologically in descending order.



The window containing the documents will remain open until a new request is made or MEDFASOP is closed.

## 2.5.2 Attach documents

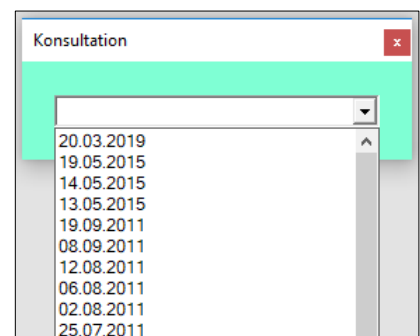
Starting with the patient, the document to be attached is selected first. The search begins in the path, which can be customized by the user (→ p. 9). In this example, it is the folder containing the standard documents. The identifier "type=#" in the name determines the type. External documents can also be named this way. If the name of the selected document does not have an identifier (type=), the type must be determined next. In this case, the letter template was selected. Type 3 requires a subject (→ p. 10). The document name is provided as a default.



**Important** : Pressing the [Escape] key closes dialog form <sup>19</sup>similar to [X] [OK]. Clicking [OK] accepts the entries and checks that they are acceptable for the filename <sup>22</sup>.

If no consultation is pre-selected, <sup>23</sup>a consultation must be chosen. The document will then be copied to the patient's folder and opened immediately.

**Important** : All documents are copied and therefore remain unchanged at the original location.



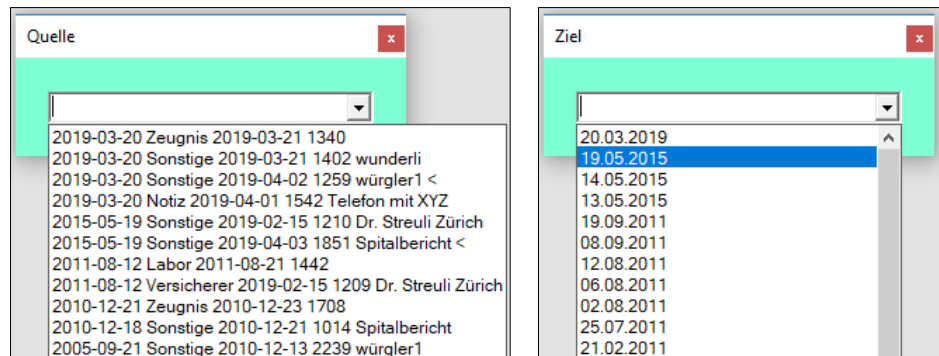
<sup>21</sup>Registered in Windows.

<sup>22</sup># and ~ are additionally excluded.

<sup>23</sup>If this action results from a consultation, the date of that consultation will automatically be decisive.

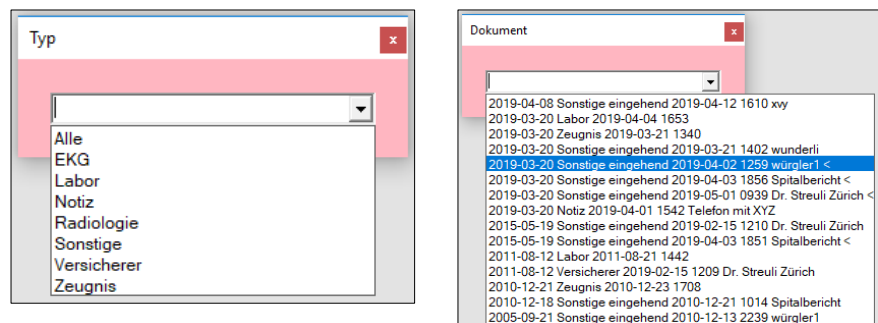
### 2.5.3 Linking documents

Within a patient record, objects can be linked from one consultation to another. First, the source is determined, then the target. The linked file <sup>24</sup>is marked with "<". The document is then opened immediately.



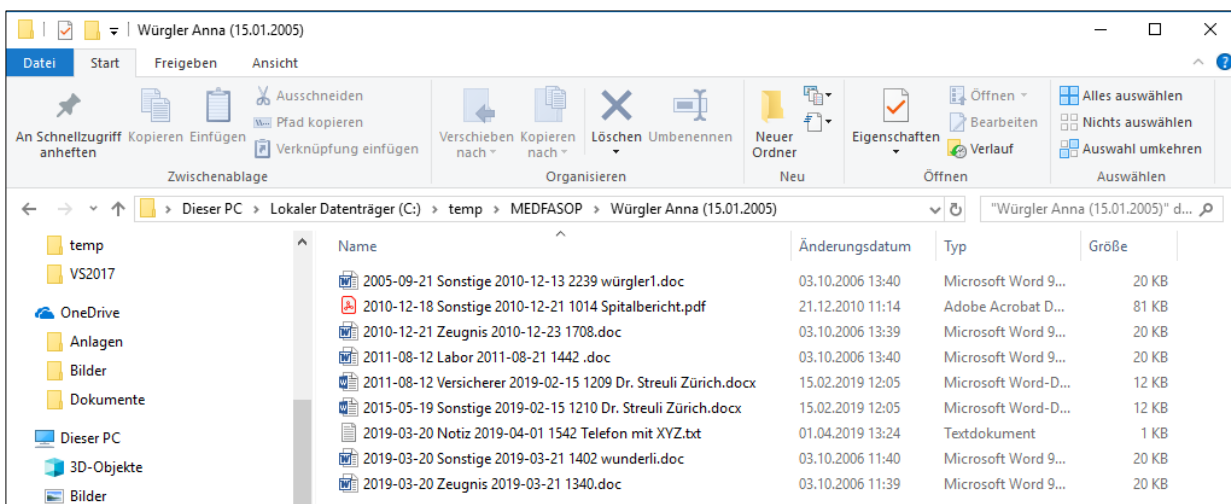
### 2.5.4 Delete documents

Documents are permanently deleted, including all links to them. Deleting a link does not affect its source. Deletion only occurs after user confirmation.



### 2.5.5 Export

The "Export" option when searching for patients (→ p. 8) exports the documents to the user's temporary folder. The subfolder is labeled "Patient Data". **Caution** : Minimize MEDFASOP, do not close it, otherwise the exported data will be deleted.



<sup>24</sup>The file extension is «.lnk»

## 2.6 Address Information (#15)

The short, long, and billing addresses (from top to bottom) can <sup>25</sup>be copied and pasted. They are also stored in the user's temporary folder under: "PatientShortAddress.txt", "PatientLongAddress.txt", and "BillingAddress.txt", from where they can be imported into documents. The billing address is determined in the context of the family roles (p. 19).

AdressInfo

Anna Würgler, 15.01.2005, 8303 Bassersdorf

Frau  
Anna Würgler  
Musterstrasse 2  
8303 Bassersdorf  
SCHWEIZ

Würgler Helene  
Teststr. 10  
8303 Bassersdorf

## 2.7 Treatment history (#36)

Calls up history.

If the history is accessed via "Search for patient" or "Visit", only the selected patient is evaluated. For TARDOC → p. 37.

Behandlungshistorie		
Beat Heil	10.02.2025	20.06.2023
Patient	Summe	Detail
Hügli Damian Wetzikon ZH 2015	00:14:57	10.02.2025 02:50:29 Praxisbesuch 00:00:02 > Grippe und Masern
Hutter Erna	00:02:48	06.02.2025 16:15:21 Praxisbesuch 00:00:11
Marxer Paul 1975	00:00:06	20.06.2023 10:17:29 Praxisbesuch 00:00:03
Würgler Anna Bassersdorf 2005	00:00:16	

The first row contains the filters for the doctor and the evaluation period. Under "Total," the accumulated time

for each person in the selected period is displayed. Clicking on a row header lists the details on the right.

Clicking on evaluates the history as a document (Word → p. 58).

## 2.8 Editor

The editor's filename contains, among other things, a "W" for Write or an "R" for Read, <sup>26</sup>and the maximum text length. If more text is entered than the length allows, <sup>27</sup>a warning is displayed, and the text can be edited. The temporary file is only deleted the next time the editor is opened. If you want to save text, remove "MEDFASOP." from the filename beforehand.

MEDFASOP.BH.ED.68998.0509915.W4000.txt - WordPad

## 2.9 Start of MEDFASOP

Each time the application starts, it checks whether the GrowthChart pivots (→ p. 36) are up-to-date or need to be generated, which is necessary after changes to the metadata and is displayed here as a warning. A warning is also issued if the clock is still running for orphaned patients <sup>28</sup>.

<sup>25</sup>A click in the field executes a copy.

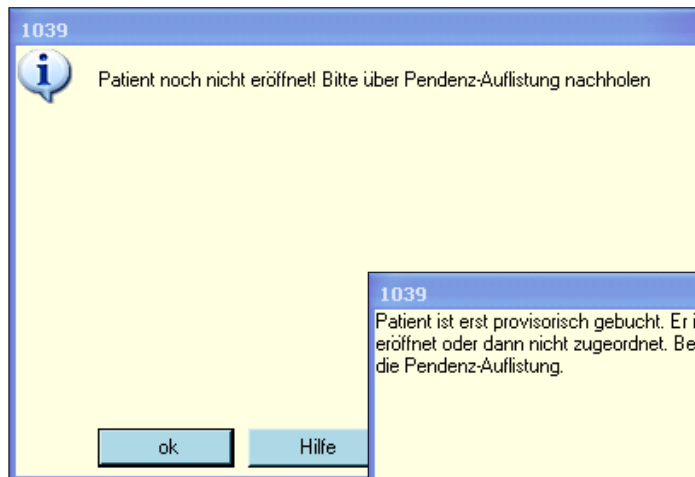
<sup>26</sup>MEDFASOP supports read/write permissions, but only a few editors (such as Notepad++) respond to this. In any case, it is ensured that no changes are made to the database while it is in "Read" status.

<sup>27</sup>Car return signals etc. also count.

<sup>28</sup>Details are logged in the user's temporary folder under "TreatmentPending.txt".

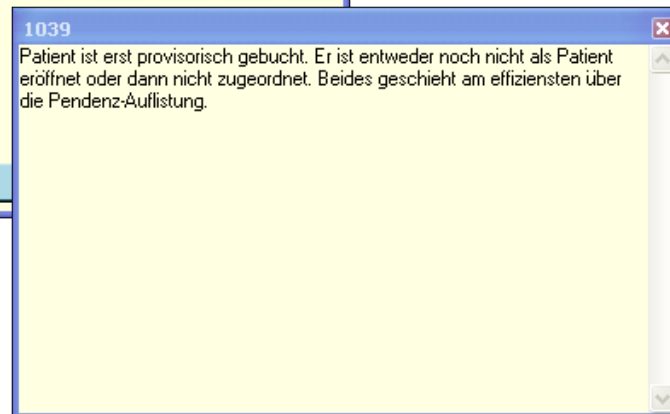
## 2.10 Messages, Help

If help text is <sup>29</sup>available for an active form, it can be accessed by pressing [F1]. Messages may appear for various reasons. These messages must be answered before switching to another form. Both windows can be resized.



Message (#27)

The message number is displayed as the title. The buttons are generated contextually. The help button only appears where help text is available.

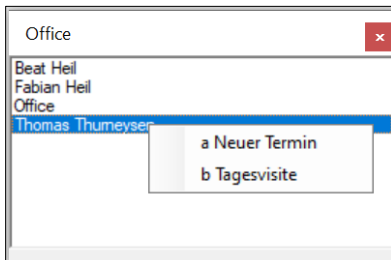


Help (#3)

<sup>29</sup>Chapter 7.2 on page 33 .

## 3 Office

### 3.1 Doctors / Appointment Schedules (#7)

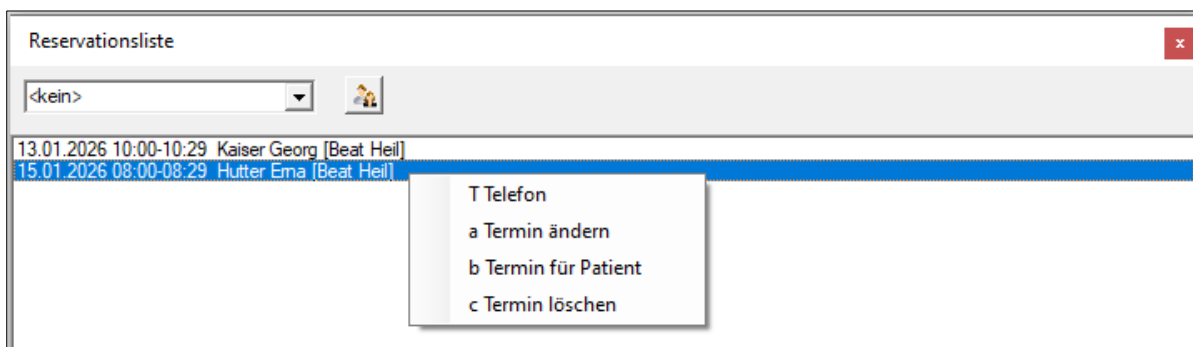


The window lists the names of the doctors (or their appointment schedules). Depending on your personal settings in the Office Actions list ( → p. 9), the procedure differs: Inactive: a click opens the corresponding appointment schedule; Active: a click opens the context menu <sup>30</sup>.

### 3.2 Reservation list (#35)



Opens the list of all reservations.



The first row contains the filter for selecting a doctor and a sort button for the list. All reservations are listed. Clicking the sort button



sorted by patient

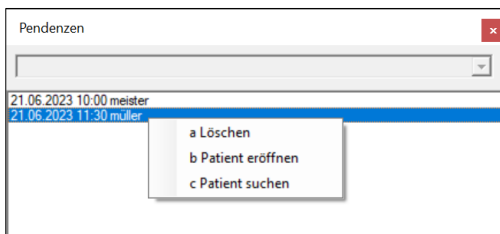


Sorted in ascending order by date and time (this is the default). Right-clicking in a row opens the context menu. Appointment changes are most efficiently made from here. In the schedule, click on the desired appointment. To change doctors, click on an empty field of any color, then select the desired doctor in the reservation, followed by the appointment.

### 3.3 Pending item (#9)



Opens the list of patients who are entered in the appointment schedule but have not yet been assigned patient data.





The "Open Patient" action transfers the personal data into the corresponding form, where it can be further edited <sup>31</sup>. Only when the patient is saved there is the case definitively removed from the pending list. The "Search Patient" action searches for the patient in the existing data. To do this, activate the search text field at the top. Confirming the patient's selection there automatically removes the case from the pending list. Clicking "Delete" removes the pending case.

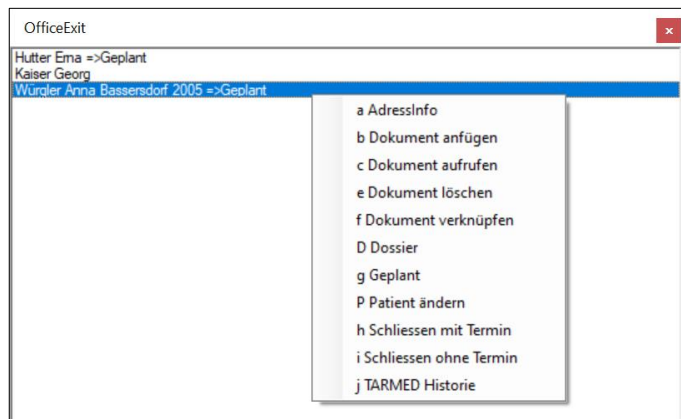
<sup>30</sup>This corresponds to the example on the left.

<sup>31</sup>Recommendation: Always use "Search for patient" first to avoid creating duplicate patient entries!

### 3.4 Office Exit (#14)

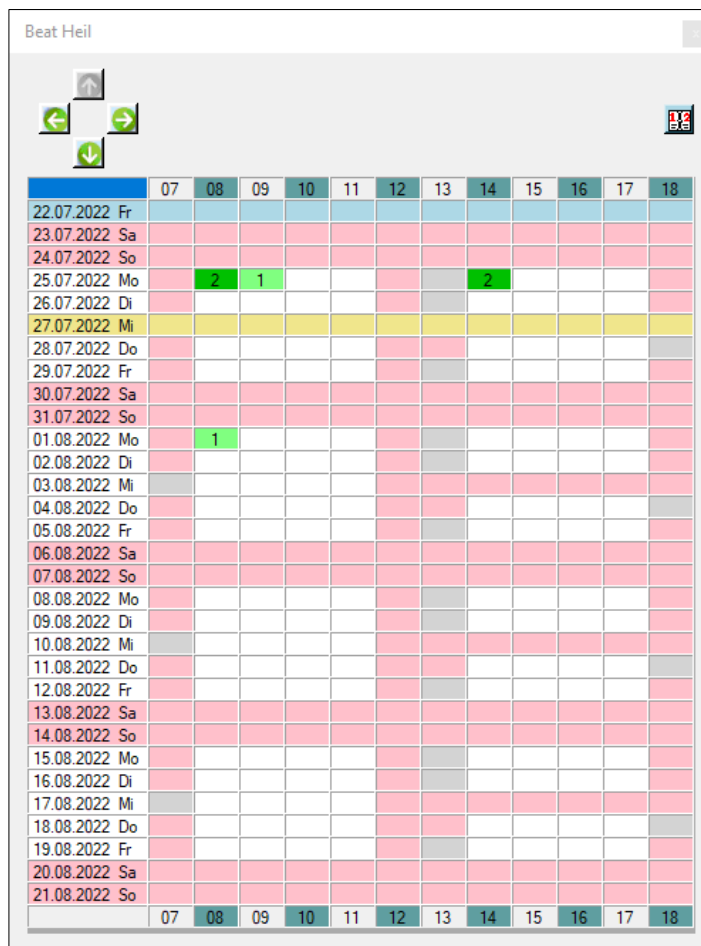
 Opens the list of patients whose current visit has been completed by the doctor, but who still require a new appointment, medication, or other services from the office.






The listed actions are possible from here. Once "Close without appointment" is executed, the patient is removed from the list. With "Close with appointment," the patient is only removed from the list once the "  Redisplay" button has been pressed .







### 3.5 Schedule (#5)

The form indicates at the top for which person it applies. Personal time schedules overlap with those of the practice.



absence	
	Leisure time
	Absent blue
	Absent yellow
	Transition from/to leisure <sup>32</sup>
	Transition from/to Absent <sup>32</sup>

Occupied areas are colored green<sup>33</sup>.

Occupancy <sup>34</sup>	
	> 75%
	> 50%
	> 25%
	> 0%

At the intersection of date/time, the patients who are registered and have not yet been treated are counted.

The horizontal hourly grid is automatically set to the earliest work start time of the person during the 31-day period under review. The green color of the buttons indicates the direction in which you can scroll. If you hold down the Shift key while clicking the horizontal buttons, the time grid jumps directly to the beginning or end of the grid.

The vertical buttons advance the view by 31 days in the desired direction, but not before the current date. If the Shift key is held down while clicking the vertical buttons, the view jumps to the first day of the following month with the Up button, and directly to the current date with the Down button.

<sup>32</sup>The time is displayed when the mouse pointer is over the transition (e.g. -14:15 or 14:15- or 14:15-14:45).


<sup>33</sup> → Text: « SYS.Flag.Occupancy.Color » TRUE/FALSE

<sup>34</sup>% = Planned minutes × 100 / Capacity minutes



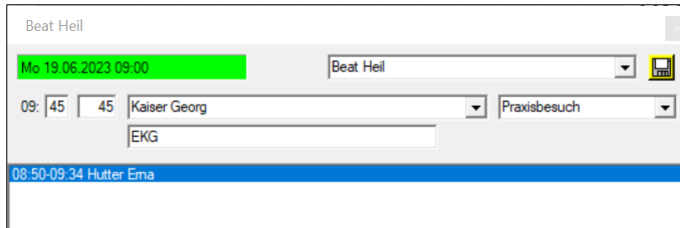
When the mouse hovers over an occupied grid, the people booked in that grid are displayed.

2	
08:00-08:29	Würgler Anna Bassersdorf 2005
08:30-09:29	Kaiser Georg

The matrix is moved to the selected date using the calendar button .

### 3.5.1 Reserve (click) (#3)

Clicking on a time zone in the schedule opens a window where appointments can be added or removed. The schedule remains locked for changes by other users until this window is closed. Locking computers/users are displayed.

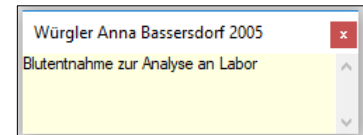



The list shows all pending patients in descending order of time. The date and time are displayed at the top with a colored background. If a reservation is made during an absence period, a warning will appear which must be acknowledged. Furthermore, only one person can book the same minute at a time.


The planned treatment duration must be entered in minutes. The field is grayed out if the entry <sup>35</sup>is optional, otherwise white. This is controlled by "SYS.Flag.Occupancy.Duration" <sup>36</sup>TRUE/FALSE. Only for mandatory entries is a time conflict with other reservations checked. This check can be overridden upon request.

The entry in the Patient field is used to search for the patient. If no patient is selected, either because the search button wasn't clicked, the patient is new, or the search criteria are simply imprecise, a pending item is created (→ p. 15), which is indicated here by the yellow background. The last selection button further defines the reservation. The default is 1/Practice Visit. The lower field is for comments, the content of which will later be transferred to the consultation.

If a patient with the category "Planned" is selected, the category will automatically appear. It is managed by the doctor in the patient's file.



Once the time and patient are specified, the button is  activated. Clicking this button closes the windows <sup>37</sup>. To make a change, click on the person in the list. To change the time zone, simply click on the new zone. If the doctor is making the change, first select them (using the selection tool in the upper right corner), then click on the desired time zone.

Patients are booked out here by first clicking on the person in the list, then on the scissors icon .

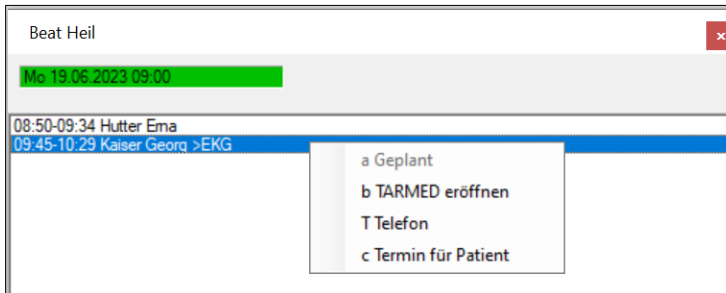
<sup>35</sup>If no information is provided, minutes are internally estimated according to «SYS.Occupancy.Duration» <sup>36</sup>(→ Text).

<sup>36</sup>With the extension ".USER", control is individualized (replace USER with ID).

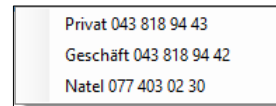
<sup>37</sup>Appointments are created automatically (→ p. 49)

### 3.5.2 Information (right-click) (#2)

Right-clicking in a time zone opens a window displaying pending patients in ascending chronological order. Date and time information is also displayed in the header with a colored background.



Right-clicking on a person opens the context menu, where, for example, planned activities<sup>38</sup> and the phone list can be accessed.



"Open TARDOC" is required when the office wants to record TARDOC for a patient, but the doctor has not yet started a clock for that date.

«Appointment for Patient» creates the appointment booking for patients ( → p. 52).

### 3.6 Patient (#10)

The minimum required information consists of the three fields on the first line.



The date of birth can also be a fragment<sup>39</sup>.

On the phone, the text is part

of the input field, so simply overwrite the text with the number.

By default, the country receives the value from "SYS.Country" in →Text, or that of the postal code/city. Either the postal code or the city can be entered. The data is added reciprocally.

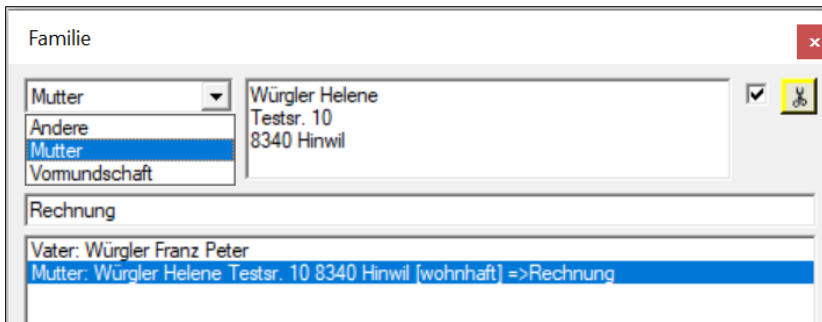
The insurer only includes health insurance companies. The APID (Application for Individual Data) is checked to ensure that no double enrollment with the same insurer is possible.

If the email address is already filled in, clicking the field opens  the editor. For a saved patient, clicking the field opens  the family window.

<sup>38</sup>where «=>Planned» is listed

<sup>39</sup>For TARDOC, it must be complete!

### 3.7 Family (#11)



Under "Family," caregivers of minor patients are listed. The entry includes their role, name, and, if applicable, address, residence (if applicable), <sup>40</sup>and any comments. To make changes, click on the person. Their information will then be available in the edit row. New entries can only be made as long as roles are available.

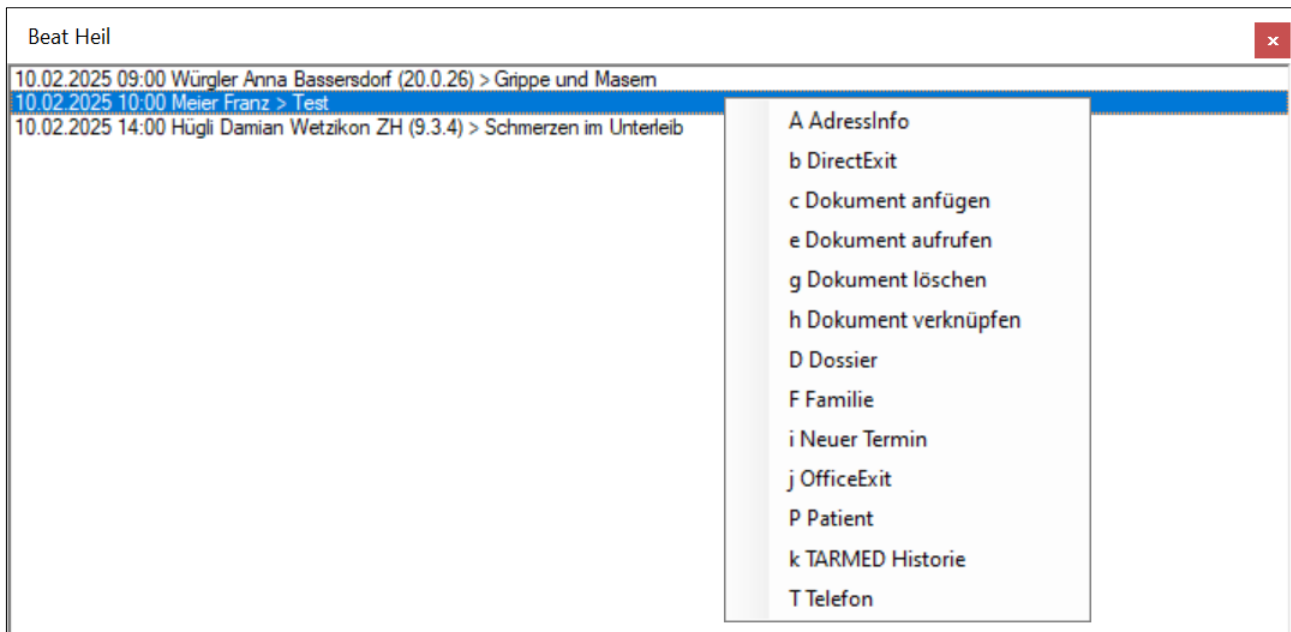
Entries are deleted here by first clicking the corresponding line in the list, then the scissors icon .

The roles are managed under «O.FamilyRole.#» in → Text. «#» corresponds to any number.

<sup>40</sup>Can only be active for one role. If the patient and role addresses differ, enter the full address here.

## 4 Physician

### 4.1 Visit (#8, #13)



This form displays all pending visits up to and including the current day, in ascending chronological order. Reservations prior to the current day pertain to patients whose records are not yet finalized <sup>41</sup>. Age, if available, is shown in parentheses <sup>42</sup>. If a person is not yet registered as a patient, only the "DirectExit" option is enabled.

Clicking on "Dossier" automatically starts the timer that records treatment times, unless it's already running. The reservation can be closed in the dossier itself or via the context menu (...Exit). At this point, the timer stops and the patient disappears from the list.

When TARDOC is inactive, the clock runs in the context of the treatment options (TypeOf) <sup>43</sup>. The treatment option must be selected each time the clock is started <sup>44</sup>.

Time management is influenced by the two components listed below in the table → Text.

SYS.TreatmentTime.MinMinutes	Defines the number of minutes until an inquiry is made if a running clock is found upon entering the dossier.
SYS.TreatmentTime.MaxMinutes	Defines the number of minutes until a prompt is issued if this time has been exceeded when the clock is stopped.

**Table 4: Time limits**

The accumulated time between the start and stop of the clock is accumulated for the patient's most recent consultation. Details can be found in the patient's history ( → p. 13) , provided they have not yet been archived.

<sup>41</sup>Note: The consultation date is always taken from the reservation!

<sup>42</sup>Format: Years.Months.Days

<sup>43</sup>O.Treatment.# in → Text.

















<sup>44</sup>Alternatively, it can also be set with an entry under «SYS.Treatment.TypeOf» in → Text.

## 4.2 Dossier (#12)


Würgler Anna Bassersdorf

15.01.2005 | 20.9.13 | 621347 | KPT/CPT, 3000 Bern, #376

<b>Familie</b> Mutter: Würgler Helene Tester, 108340 Hinwil (wohnhaft) => Rechnung Vater: Würgler Franz Peter	<b>Impfung</b> 08.12.2006 HA (Hepatitis A) 19.01.2006 dTpa (Diphtherie, Tetanus, Pertussis) => leichtes Fieber
<b>Allergie</b> Bienenstich	
<b>Bemerkung</b> Kantonsspital Zürich: Dr. Hans Meier, Kinderarzt 044 888 77 66. Arbeitet nur Montag bis Donnerstag. Bericht abwarten. Termin 1.9.2011 14:50	<b>Geplant</b> Blutentnahme zur Analyse an Labor
<b>Diagnose</b> 19.06.2023 Grippe 21.09.2005 Rous-Hühnersarkom-Virus	<b>Medikament</b> 02.05.2019- Zanidip, Filmtabl 10 mg, 98 Stk (O) 1 29.03.2019- Acarizax Lyophilisat zum Einnehmen, Subling Tabl 12 SQ-HDM, Ds 30 Stk 1-0-0 29.03.2019- Nasenspray comp. Spring Spray 0.1 % 15 ml Spray (0,1+0,25%) 2-2-3 29.03.2019- Baclofen Sintetica, Inj Lös 0.200 %, 10 Amp 5 ml (G) 1-0-2 09.02.2011- Selegilin Helvepharm, Tabl 5 mg, 50 Stk 1-0-0 30.12.2010- Aspirin Cardio 100, Filmtabl 100 mg, 30 stk 1-1-1

-  Turns the clock on and off. A right-click provides information about the running clock.
-  Opens the medical history. A right-click presents the medical history in HTML format.
-  Opens the consultations. A right-click presents consultations in HTML format (Konstantin series).
-  Opens the consultation tree as an alternative to the conventional view.
-  Opens the lab sheets. A right-click starts the attachment process.
-  Opens the documents. A right-click starts the attachment process.
-  Generates the diagrams and then displays the list.
-  Opens the patient's record. A right-click displays their address information.
-  Open the HTML dossier generated with Patient2HTML ( <https://ecofo.ch/files/medfasop.client.dossier.pdf> ).
-  Generates the prescription using the patient's current medications.
-  Opens and closes the medication form.
-  Opens the TARDOC form with the patient's most recent time (date) <sup>45</sup>.
-  Closes the window without stopping a running clock. The lock is off.
-  Closes window and reservation, with the patient now appearing in the Office Exit list <sup>46</sup>.
-  Closes windows and reservations. The patient requires no further action.
-  The patient's file is locked upon entry to prevent changes by other users and unlocked upon exit. The key is highlighted in red when another user has locked the file; the locking computer/person is reported upon entry. Clicking the red button reopens the file.

The sections "Allergy," "Remarks," and "Planned" can be edited directly in the patient file. "Planned" contains activities for future visits and can be viewed by the office.


 Family, diagnosis, vaccination Medications are processed using separate forms. These are accessed by clicking on the heading, row, or section <sup>47</sup>. The content of the diagnosis is taken from the consultations (from Chapter 0.0). Under

<sup>45</sup>Use the history for all of the patient's watches (p. 39).

<sup>46</sup>The button is only active if the entry was from the ward round.

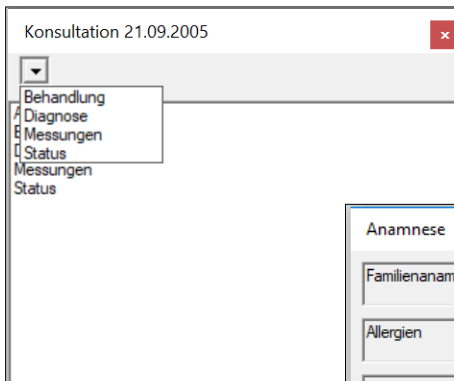
medication, all currently active medications are displayed. A right-click in the diagnosis, vaccination, or medication section presents the full content in HTML format.

Increased treatment needs (from section 0.2) are displayed with the consultation date and can be terminated upon request by clicking the checkmark. The entry "end" is made in the most recent consultation.


Changes made to the patient and family forms are only taken into account here after the button  for redisplay has been pressed.


#### 4.2.1 Medical history (#17)

 Opens the anamnesis chapters. A right-click presents the anamnesis in HTML format.



From here, the individual chapters are edited <sup>48</sup>. Clicking on a chapter opens the data entry window. Clicking the button displays the chapters currently selected. These can also be clicked. You can switch to a different chapter at any time without having to close the chapter window first.

The first line always lists the chapter (#19). The button  is activated in the metadata and has the following functionality:

 3-way switch for

? = unanswered;

0 = No;

1 = Yes.

The left mouse button toggles: → 1 → 0, the right button always → 0.

<sup>47</sup>The diagnosis entry, with its listing line, calls up the corresponding consultation, while the heading indicates the most recent consultation. The medication entry does not differentiate in this respect (→ description under "Dossier Style" on p. 8).


<sup>48</sup>The primary sorting method is by sort number in the metadata, and the secondary sorting method is by question text.


## HTML analysis


<b>Anamnese: Würgler Anna Bassersdorf, 01.2005</b>	
<b>Familienanamnese</b>	
Allergien	Bienenstich
Diabetes	Grossmutter
Hüftdysplasie	Die Hüftdysplasie (alternative Bezeichnung: Hüftgelenkdysplasie; englisch hip dysplasia, developmental dysplasia of the hip, congenital dysplasia of the hip; Abkürzungen: CDH, DDH) ist eine Sammelbezeichnung für angeborene oder erworbene Fehlstellungen und Störungen der Verknöcherung (Ossifikation) des Hüftgelenks beim Neugeborenen. Die Hüftdysplasie kann dabei alleinstehend oder zusammen mit anderen angeborenen Fehlbildungen vorkommen. Die alleinstehende Hüftdysplasie ist erheblich häufiger anzutreffen und findet sich weitaus mehr bei Mädchen als bei Jungen. Es werden mehrere Faktoren als begünstigend oder teilweise verursachend angesehen: ein Faktor ist die Beckenendlage. Die Symptome der Hüftgelenkdysplasie sind zunächst Seitenungleichheit der Pofalten und Bewegungseinschränkungen der betroffenen Hüfte beim Strampeln. Ohne Behandlung kommt es bei schweren Formen zu bleibenden Schäden des Hüftgelenks mit Hinken, Gangstörungen und Schmerzen. Endzustand schwerer Formen ist die Hüftgelenksarthrose. Leichtere Formen weisen keine Schmerzen auf. Das Vorliegen einer Hüftgelenkdysplasie wird durch Einsatz vor allem der Sonographie, in selteneren Fällen des Röntgens und der Kernspin- oder Computertomographie gesichert. Die Behandlung erfolgt in den meisten Fällen ohne Operation durch Einsatz breiter Windeln und Wickeln oder Spreizhosen. Auch eine Ruhigstellung durch Spreizgips kann erforderlich sein. Die Notwendigkeit eines operativen Eingriffs besteht nur selten. Die Prognose der Hüftdysplasie ist seit Einführung des sonographischen Screenings im Neugeborenenalter erheblich verbessert worden.
<b>Geburt</b>	
Geburtsgewicht (kg)	3.5
Geburtsgrösse (cm)	48
Kopfumfang (cm)	35

The results are displayed in Internet Explorer. Only entries containing content are evaluated, and these entries include the chapter heading. The Yes/No column is only evaluated if it contains data in at least one row.

## 4.2.2 Consultation (#20)


 Opens the consultations. A right-click presents consultations in HTML format (Konstantin series <sup>49</sup>).

Konsultation		
	Datum	Dauer
	08.04.2019	00:08:31
	20.03.2019	11:28:26
	19.05.2015	102:41:25
	14.05.2015	00:19:10
	13.05.2015	11.05.06
	19.09.2	a AdressInfo
	08.09.2	b Dokument anfügen
	12.08.2	c Dokument aufrufen
	06.08.2	d Dokument löschen
	02.08.2	e Dokument verknüpfen
	25.07.2	f HTML Serie (Datum)
	21.02.2	g HTML Serie (Konstant)
	09.02.2	h Kapitel
	04.02.2	i Konsultation eröffnen
	03.01.2	j Konsultation verknüpfen
	30.12.2	k Labor anfügen
	21.12.2	l Labor aufrufen
		M Medikament

In addition to the consultation date, <sup>50</sup>the accumulated treatment times are listed.  All chapters containing data are evaluated in the main window ( → p. 56). Double-clicking a row header directly opens its chapter.

A consultation is automatically opened when accessing the patient's file from the ward round. If a consultation already exists, it can also be opened via the context menu; otherwise, it can be opened via the "Search for patient" menu.

For "HTML Series (Constant)", the selected date is decisive. With "HTML Series (Date)", a second date must be selected <sup>51</sup>. The same principle applies to "Link Consultation".

 The use of a consultation tree ( → p. 25) is systemically essential when treating accident patients ( → p. 62).

<sup>49</sup>The number for the constant series is stored in text under «SYS.Consultation.MaxColumn».

<sup>50</sup>Descending by date, the list can be re-sorted with a click in the column header.

<sup>51</sup>It doesn't matter which date is clicked first.

Konsultation 21.09.2005

Behandlung  
A Diagnose  
E Messungen  
I Status  
Messungen  
Status

From here the individual chapters (#18) edited <sup>52</sup>. Clicking on a chapter opens the data entry window. Clicking the button displays the chapters currently selected. These can also be clicked. You can switch to another chapter at any time without having to close the chapter window first.

The first line always lists the chapter (#19) .

F-button: Clicking the button displays the formula <sup>53</sup>. The row is locked for input.

Konsultation 04.10.2005

Messungen

Atemfrequenz (/min)

Blutdruck (mmHg)

BMI **F** 18.9

Gewicht (kg) 8

Grösse (cm) 65

Formel

r1 [2.1 Gewicht (kg)]/([2.2 Grösse (cm)]/100)^2

## HTML analysis

Konsultation: Würgler Anna Bassersdorf, 01.2005				
Konsultation	04.10.2005	26.09.2005	21.09.2005	17.08.2005
Diagnose			Virus	Diarrhoe
Messungen				
BMI	30.8			
Gewicht (kg)	8			
Grösse (cm)	51			
Status		Fieber und Schnupfen	Kopfschmerz, Fieber, Atmung erschwert	
Medikament			21.09.2005-16.10.2005 Nasenspray comp. Spirig Spray 0.1 % 15 ml Spray (0,1+0,25%) 2-2-2	04.10.2006-12.10.2006 Sabcaps Caps. 320 mg 50 Caps. 320 mg 1-0-1
			21.09.2005-30.09.2005 Brufen Filmtabs 200 mg 100 Filmtabs 200 mg 1-0-2	17.08.2005-..... Bactrim Sirup. 40 mg/ml 100 ml Sirup. pro infant. (40+8 mg/ml) 42 mg
				17.08.2005-..... System Sequi TTS System TTS 3.2 mg 12 Systeme TTS 3,2 mg + 12 Systeme TTS (3,2+11,2 mg) 1-2-0

The results are displayed in Internet Explorer. Only entries containing content are evaluated, and these include the chapter heading. The columns are sorted in descending order by access date.

<sup>52</sup>The primary sorting method is by sort number in the metadata, and the secondary sorting method is by question text.

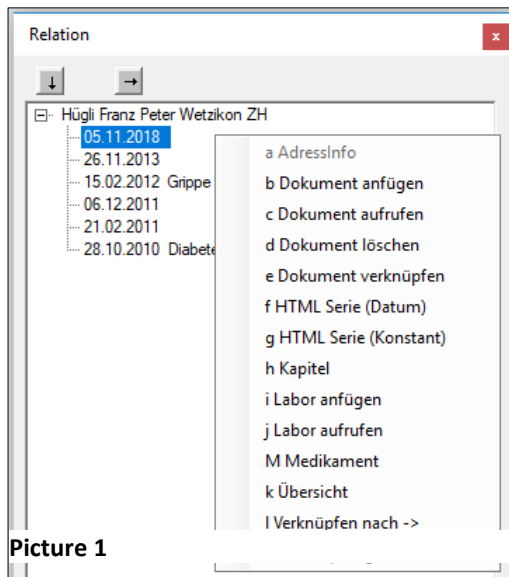
<sup>53</sup>Supplemented with the text from ID1.ID2



### 4.2.3 Consultation tree<sup>54</sup> (#40)



Opens the consultation tree as an alternative to the conventional view ( → 4.2.2).



Picture 1

The tree displays consultations and their possible links. Using "Link to ->" in the context menu, a consultation can be linked to an older patient. The purpose is to treat consultations related to a diagnosis as a single unit. In Figure 1, the consultation from November 26, 2013, is subsequently linked to the one from October 28, 2010.



This link is shown in Figure 2.

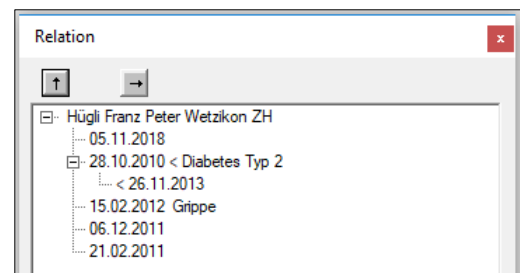


Picture 2

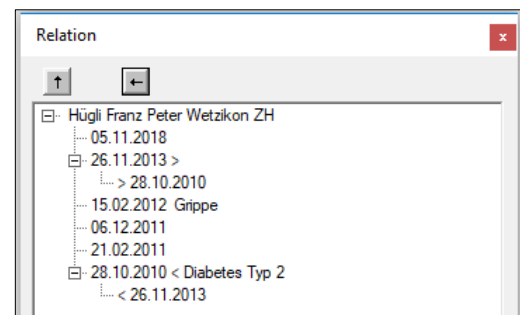
What clicking the arrow does:

- ↓ Opens all (+) nodes. Result shown in image 3.
- ↑ Closes all (-) nodes of the 2nd level.
- Displays all consultations in chronological order. Result shown in Figure 4.
- ← Displays the first level of consultations according to their time expenditure<sup>55</sup>.

> Linked to  
< Linked by



Picture 3



Picture 4

Konsultation	Medikament	Text	Dokument
05.11.2018	1	1	1
26.11.2013		1	
15.02.2012	4	2	
06.12.2011		4	
21.02.2011		1	3
28.10.2010	8	2	2

Picture 5

Overview (#41) In Figure 5, medications, texts, and documents are evaluated numerically. The scope depends on the level at which the action starts. In this example, it was the patient level. From here, the counted objects are retrieved.

<sup>54</sup>Systemically essential in the treatment of accident patients ( → p. 62 ).

<sup>55</sup>In the case of links, the most recent subordinate consultation

## 4.2.4 Drug (#21)

The first line lists the start date, end date, medication, and dosage <sup>56</sup>. To expand the BAG list for a medication, at least one character must be entered <sup>57</sup>, and then the button clicked. Without clicking, the entered text is entered. Selecting the desired medication from the expanded list is done by clicking on it.

The patient's medications are listed below <sup>58</sup>. Clicking on a row loads it into the input fields. Currently active medications with their corresponding numbers are checked against the BAG list. The result is displayed in color for the selected row.

Without a number <sup>59</sup>. With a number and up-to-date. With a number, missing from the BAG list or no longer matching the text.

The selection in the upper right corner is displayed when the form starts if the patient's current medications have failed the check. Clicking on the index loads the medication into the input field.

With «21.STRICT=TRUE» in the text, medications not belonging to the most recent consultation can no longer be deleted, but only scheduled. Similarly, any change to this setting automatically creates a new entry in the most recent consultation, scheduling the old, ongoing medication <sup>60</sup>.

Entering information activates the button . Clicking this button closes the window. To make a change, click the corresponding line in the list below. Medications are deleted by first clicking the corresponding line in the list, then clicking the scissors icon . Clicking the backspace icon clears the input line without further consequences.

HTML analysis

**Medikament (alle): Würbler Anna Bassersdorf, 01.2005**

04.10.2006-12.10.2006 Sabcaps Caps. 320 mg 50 Caps. 320 mg 1-0-1  
 21.09.2005-16.10.2005 Nasenspray comp. Spirig Spray 0.1 % 15 ml Spray (0,1+0,25%) 2-2-2  
 21.09.2005-30.09.2005 Brufen Filmtabs 200 mg 100 Filmtabs 200 mg 1-0-2  
 17.08.2005-\_\_\_\_ Bactrim Sirup. 40 mg/ml 100 ml Sirup. pro infant. (40+8 mg/ml) 42 mg  
 17.08.2005-\_\_\_\_ System Sequi TTS System TTS 3.2 mg 12 Systeme TTS 3,2 mg + 12 Systeme TTS (3,2+11,2 mg) 1-2-0

<sup>56</sup>The start date is automatically assigned to the current date as soon as the first entry is made anywhere. Right-clicking in a date column opens the personal calendar.

<sup>57</sup>SQL syntax is applied automatically, but can be modified by starting with a "%". For example, "%mepha".

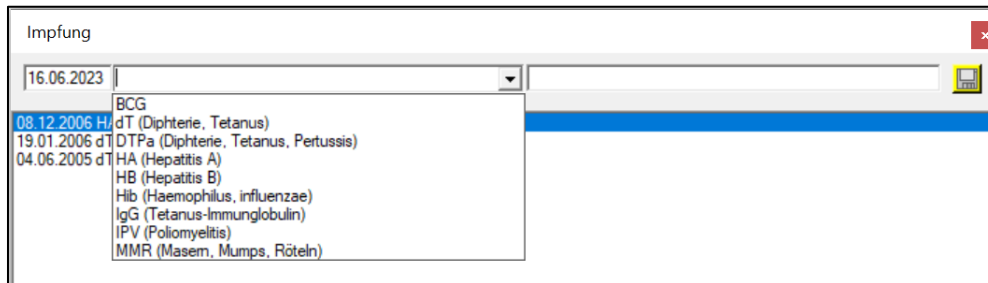
<sup>58</sup>The maximum amount is as listed in → Text under «21.TOP».


<sup>59</sup>You can add your own entries to the BAG list, but they will not have a number.

<sup>60</sup>This ensures that the history is automatically preserved.


## 4.2.5 Vaccination (#22)


The input line displays the date, vaccination information, and comments. If the selection button is not pressed, the entered text will be accepted.



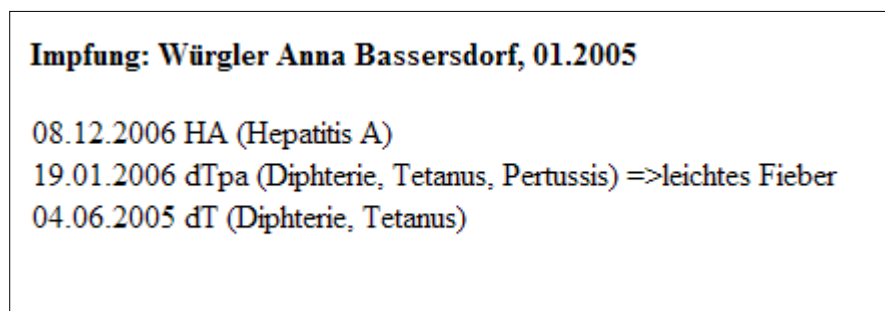
Entering information activates the button . Clicking this button closes the window. To make a change, click the corresponding line in the list.

Vaccinations are deleted


here by first clicking the corresponding line in the list, then the scissors icon .

This  clears the input line without any further consequences.

HTML analysis




## 4.2.6 Pharmacy (prescription)

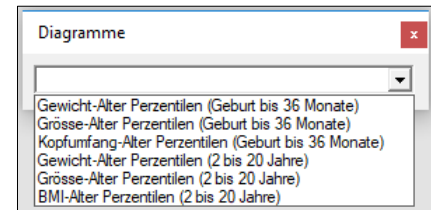
 Generates the prescription using the patient's current medications.

The prescription is entered into the selected template ( → p. 53). For medications with an external number (e.g., ex BAG), the system checks whether it still matches the current list. If not, the "Medication" form ( → p. 26) is opened. Personal settings are configured under the user menu ( → p. 9, Pharmacy).

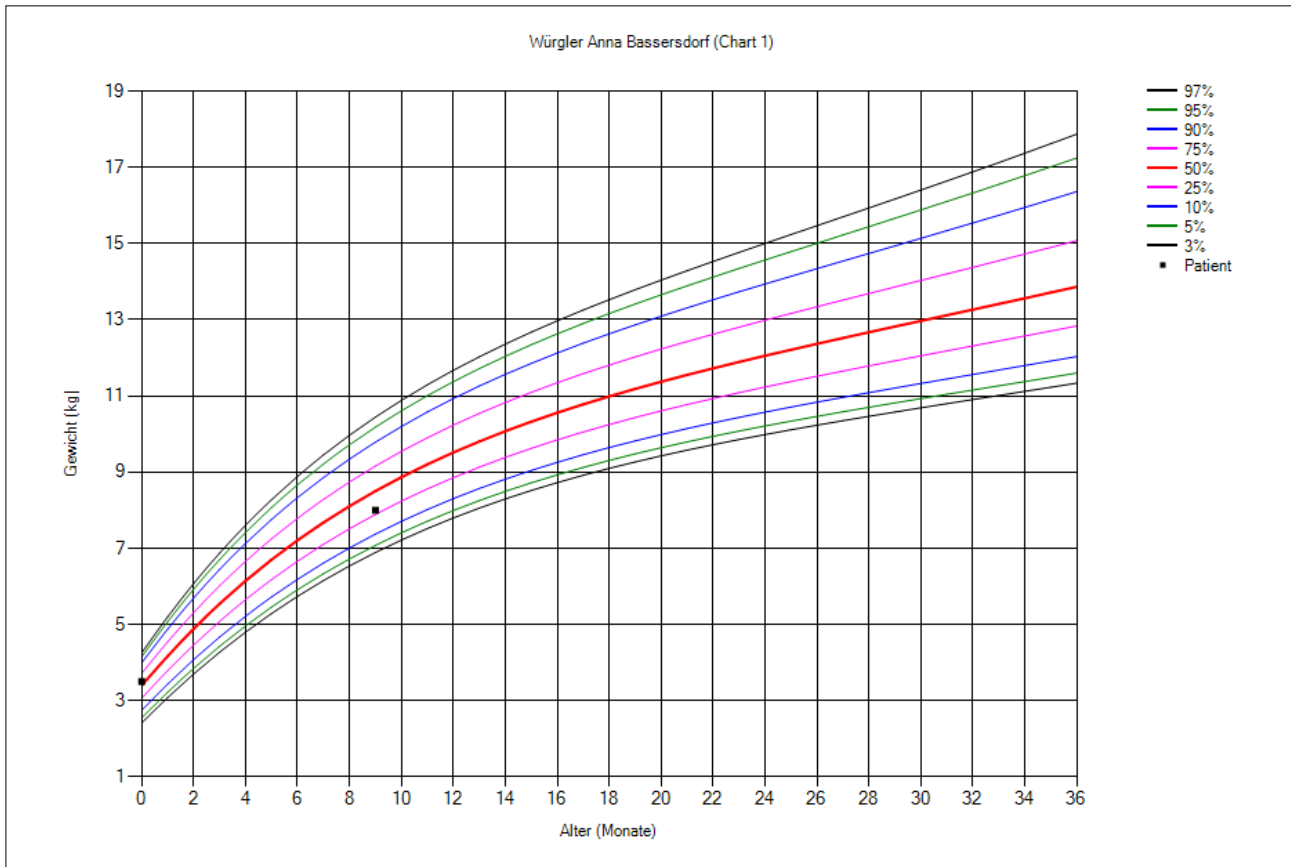
## 4.2.7 Diagrams (#38)

 Generates the diagrams and then displays the list.

Once the listing (#16) appears, the numbers in the user's temporary folder are also available, provided that in →Text «SYS.Flag.Growth-Chart2File» = TRUE.




Clicking on a diagram generates the graphic. It can then be printed or copied to the clipboard using [Ctrl+C].



Percentile charts compare data from patients (especially children and adolescents) with that of their peers based on percentages. They are usually provided for height, weight, head circumference, and body mass index (BMI).


Other line charts can also be created. To do this, at least one line (e.g., a 50-period line) must be set up. The line label can be customized in →Text. The key for this would then be, for example: «SYS.GrowthChart.9.50», where 9 represents the chart and 50 represents the line.

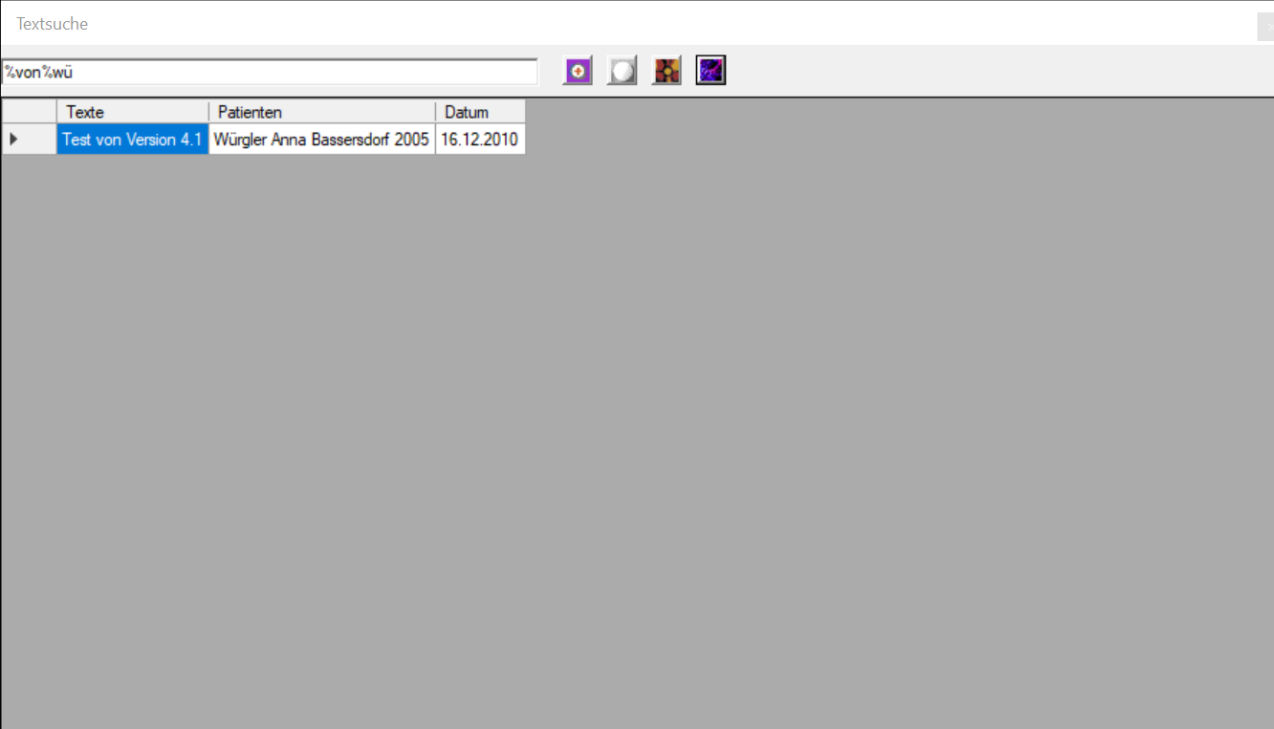
## 4.2.8 Generate dossier

With  The patient's HTML dossier is <sup>61</sup>generated on the main window and displayed in Internet Explorer ( → p. 57).

The batch program "Patient2HTML" can automatically generate the HTML dossier for modified patients in a predefined folder <sup>62</sup>. The program is described in the document MEDFASOP.SQL-Server. The dossier is displayed in Internet Explorer.

## 4.3 Text search for diagnoses, medications, medical histories, consultations (#37)

 Text search across all patients for diagnoses, medications, medical histories, consultations.



Texte	Patienten	Datum
Test von Version 4.1	Würgler Anna Bassersdorf 2005	16.12.2010

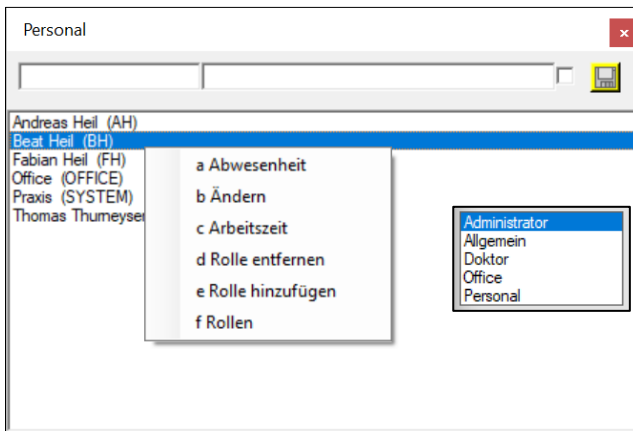
First, at least one character must be entered to filter the data before clicking the desired search area. Umlauts, upper-case/lowercase letters, and accented characters are not differentiated. The filter operates according to SQL standards. For example, "%" before and between the search terms will filter for any data. The search includes the "Texts" and "Patients" columns. Double-clicking a row header opens that patient's file.

<sup>61</sup>The basis for each is a currently generated XML file.


<sup>62</sup>Note: This information is provided in case of system failure if the folder is periodically backed up to an external medium.

## 5 Staff (#23)

Here, employees are entered, modified, and deleted. Deletion is only possible if the employee no longer appears anywhere as a foreign key. However, they can be blocked at any time via the modification line.



The change line contains the user (login name on the system), name and first name (for display) and block.

The "Change" action transfers the relevant employee to the change line and  activates the scissors tool.

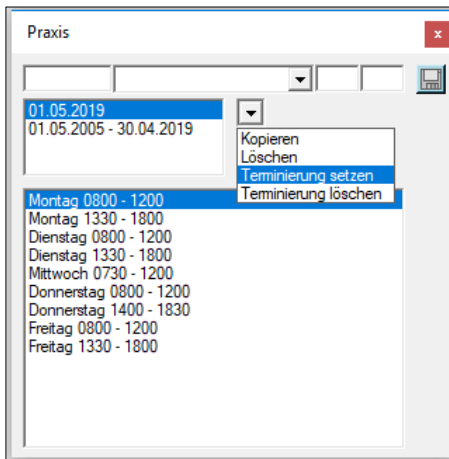
Removing and assigning roles is done via a simple selection process, where only the available options are displayed. This function is disabled for system users.

ID	Role	Remarks
0	System	Operational level (practice)
1	Doctor	The doctor's visit window opens automatically when the application starts (the appointment schedule is automatically provided).
2	Office	The Office window opens automatically when the application starts.
3	Admin	Can modify system and metadata. Access via the "Global" menu. Automatically includes roles 4 and 5.
4	Staff	Can change employee data. Access via the menu "Employee".
5	Generally	Can change insurer and medication list. Access via the menu "External"
6	Read Office + Dossier	Role 2 with read access to dossier
7	Change Office + Dossier	Role 2 with amendment authority for dossier
8	Schedule	User has a schedule (automatically given with role 1).

**Table 5 of Roles**

**Note :** If, for example, an agenda is desired for the office, simply create an employee with the user name "OFFICE" and assign them the role "Schedule".


## 5.1 Working hours (#24)



The first line contains the effective date, day of the week, start and end of work.

The saved series are listed below.

Finally, the working hours of the selected series are listed.

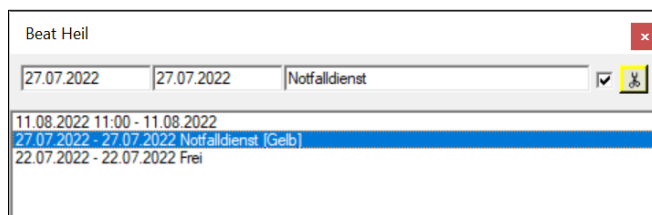
Changes to a work time entry are made in the first row. First, the relevant row must be clicked. It can then also  be deleted.

Adding also happens in the first line, with the effective date determining whether a new series is created or not.


The possible actions for a series are copy, delete, schedule, and unschedule.

In the present example, no termination date (April 30, 2019) would have been necessary. A new series implicitly terminates its direct predecessor.

## 5.2 Absence (#25)



The input line contains the valid-from and -to dates/times, the subject, and a flag for yellow highlighting. If the flag is active, the period is highlighted in khaki instead of blue. Otherwise, there are no differences <sup>63</sup>.

To change an absence, first click on the relevant line. It can then also  be deleted.

Without a time specification HH:MM <sup>64</sup> means Valid-from = 00:00 and Valid-until = 23:59.

Business closures are recorded by the system user (practice).

<sup>63</sup>Khaki can be used, for example, for emergency services (color scale on p. 14 ).


<sup>64</sup>Do not record seconds.

## 6 External

### 6.1 Insurers (#29)

Insurers are entered, changed, and deleted in the input line.


To make changes or deletions, first click on the relevant insurer.

Before deletion , a check is performed to ensure that the insurer is no longer used as a foreign key for patients.

### 6.2 Medications (#30)

Medications are entered, modified, and deleted in the input field. The external number <sup>65</sup> may only be entered for automatically maintained entries (SQL deletes all entries with a number before import!).

To change or delete, first click on the relevant medication.

Deletion  possible with or without restrictions.

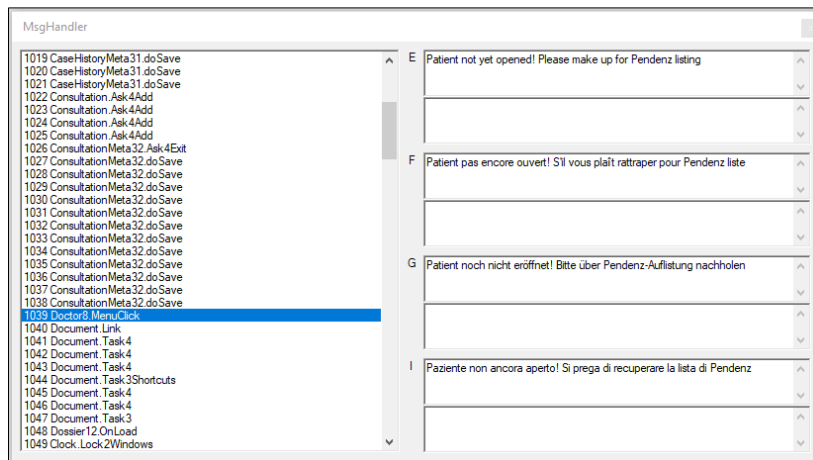
The medications included in the list are listed at the end.

<sup>65</sup>Formerly Swissmedic, listed with # (for import functionality → application BAGMED2TXT)



## 7 Global

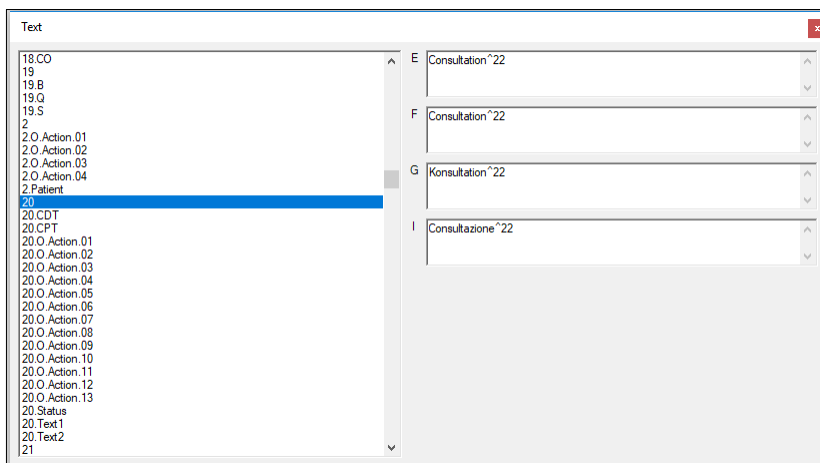
### 7.1 Messages (#27)<sup>66</sup>



The messages are listed in the left part of the window. Once a message is clicked, the message and help text for the four languages are loaded in the right part of the window and can be edited there. Never delete or change entries with &1, &2, etc. They serve as placeholders for message data that will be displayed by the program.

Usage: If an entry is missing in a user language, another one in the order E/F/D/I is automatically used.

### 7.2 Texts (#28)



The keys are listed in the left part of the window. Once one is clicked, the text for the four languages is loaded in the right part of the window and can be changed there.

The symbol ^ in the text has several meanings:

The key is a number: Window heading  
^!Help text<sup>67</sup>

Other keys: Content ^ Tool-tip text<sup>68</sup>

Usage: If an entry is missing in a user language, another one in the order E/F/D/I is automatically used.

<sup>66</sup>Messages are generated from the source code of the programs.

<sup>67</sup>Instead of !Help text, the PDF document is opened by specifying the page number or section chapter.

<sup>68</sup>Never remove content. Tooltip text is optional.

### 7.3 Medical history Meta (#31)

Anamnese Meta

10	40	<input type="checkbox"/>	E	
<input checked="" type="checkbox"/> &			F	Epilepsie / convulsions
			G	Epilepsien
			I	


  

- <kein>
- ID1=0
- ID1=10
- ID1=20
- ID1=30
- ID1=40
- ID1=50
- ID1=60
- ID1=80
- ID2=0
- 10.30 Krebs
- 10.90 Rheumatologie
- 10.100 Diverses (Koagulopathien)
- 10.110 Psychiatrie (Schizophrenie, Depression, Suizid)
- 20.0 Schwangerschaft
- 30.0 Geburt
- 30.10 Geburtsmodus
- 30.20 Termin
- 30.30 APGAR
- 30.40 Geburtsgewicht (kg)
- 30.50 Geburtsgrösse (cm)
- 30.60 Kopfumfang (cm)
- 40.0 Neonatale Periode
- 50.0 Ernährung
- 50.10 Feste Nahrung
- 50.20 Gluten
- 50.30 Kuhmilcheweiss
- 60.0 Systemanamnese
- 60.10 Kardiovaskulär: (Hypertension, Nycturie, Dyspnoe, Oedeme, AP, Cyanose, Palpitationen)
- 60.20 Respiration: Asthma?
- 60.30 Verdauung: (Stuhlfrequenz, Farbe, Konsistenz?)
- 60.40 Urogenital: Blasen-, Darm- und Sexualfunktion
- 60.50 Neurologie: (Epilepsie, Migräne, Parästhesien, Hyposensibilität, Doppelbilder?)

The input lines contain ID1, ID2, sort number <sup>69</sup>, yes/no flag, and the question text in four languages. To change or delete, first click the corresponding line in the list. It will then be available in the input line. ID1 and ID2 are locked if they already exist as foreign keys anywhere.

The chapter line (ID2=0) must always be created first. Each ID1 has a line with ID2=0 (chapter). Questions can be stored in four languages (English, French, German, and Italian). A checkmark in the Yes/No flag activates the button in the application.

A filter is available above the list (shown expanded here), next to it the sort button. The sort number and button are only activated when a filter is selected. The latter acts as an on/off switch. Sorting is primarily by sort number and secondarily by question text<sup>70</sup>.

ID2=0 (chapter) can only  be deleted when no more detail rows remain. Furthermore, a row must not appear anywhere else as a foreign key.

Usage: If an entry is missing in a user language, another one in the order E/F/D/I is automatically used.

## 7.4 Consultation Meta (#32)

Konsultation Meta

2

3

E

F

G BMI

I

S

$\sqrt{1 [2.1]/((2.2/100)^2)}$

<kein>

ID1=0

ID1=1

ID1=2

ID1=3

ID1=4

ID2=0

2.4 Körperfumfang (cm)

2.5 Blutdruck (mm/Hg)

2.6 Puls (/min)

2.7 Atemfrequenz (/min)

2.8 SO2 (%)


3.0 Anamnese

4.0 Behandlung

The input lines contain ID1, ID2, sort number <sup>71</sup>, the 4-language text, and the formula. To change or delete, first click the corresponding line in the list. It will then be available in the input line. ID1 and ID2 are locked if they already exist as foreign keys anywhere.

The chapter line (ID2=0) must always be created first. Each ID1 has a line with ID2=0 (chapter). The text can be stored in four languages (English, French, German, and Italian). The formula line is documented further below.

A filter is available above the list, next to it the sort button. The sort number and button are only activated when a filter is selected. The latter acts as an on/off switch. Sorting is primarily by sort number and secondarily by question text<sup>72</sup>.

ID2=0 (chapter) can only  be deleted when no more detail rows remain. Furthermore, a row must not appear anywhere else as a foreign key.

<sup>69</sup>Optional and blocked as long as no filter is active.

<sup>70</sup>The user language is decisive for the test.

<sup>71</sup>Optional and blocked as long as no filter is active.

<sup>72</sup>The user language is decisive for the test.

Usage: If an entry is missing in a user language, another one in the order E/F/D/I is automatically used.

### 7.4.1 Formulas

The formula is only checked during execution. Syntax and other execution errors are written to the result field. In the example (line 2.3), the Body Mass Index is calculated:  $BMI = \text{weight} / (\text{height}/100)^2$  and the result is rounded to one decimal place. Arithmetic operators and error messages are listed below.

Arithmetic operators	
[ ]	Square brackets are used for references <sup>73</sup> to results and row values, e.g., [2.1] for a reference to the row with ID1=2 and ID2=1.
( )	Parentheses. Without parentheses, higher-order arithmetic operations are performed first.
Result = Expression1 + Expression2	addition
Result = Expression1 - Expression2	subtraction
Result = Expression1 * Expression2	multiplication
Result = Expression1 / Expression2	Division. Floating-point result
Result = Expression1 \ Expression2	Division. The result is always an integer.
Result = Expression1 ^ Exponent	Exponential function: $16 = 4^2$
Result = Expression1 v2	Square root (only v <sup>2</sup> possible): $4 = 16^{v^2}$
Result = rN Formula	Rounding to decimal places (N=0-9): $20.13 = r^2 16.12654 + 4$

**Table 6: Formulas**

Error messages	
Error 1	The number of right and left brackets is unequal.
Error2	Non-numeric value
Error3	Operand follows operand
Error4	Value follows value
Error5	The cause (e.g., overflow) is displayed after the error number.
Error 6	Left bracket follows value
Error 7	Right bracket does not follow value and does not follow right bracket
Error8	Only square root possible (v2)
Error9	The last value is missing.
Error 10	Decimal places for rounding not 0-9 (r0 – r9)
Error 11	The cause (e.g., division by zero) is displayed after the error number.


**Table 7: Error messages from formula**

<sup>73</sup>Possible across chapters

## 7.5 Growth Chart

### 7.5.1 Master (#33)

The input fields contain the chart number, X-axis (age), Y-axis (value from consultation), Y-interval <sup>74</sup>, Y-axis (value from medical history for age at birth or <none>), and the four-language label. To change or delete a field, first click the corresponding line in the list and then "Edit." It will then be available in the input field. The chart number is locked if it appears as a foreign key in the details.

If the master is deleted , its details and both pivots (male/female) are automatically deleted as well.

### 7.5.2 Detail (#34)

The first row contains the filters for gender and curve. The graph program is set to curves 3, 5, 10, 25, 50, 75, 90, 95, and 97. This is followed by the input line for age and value. To change or delete an entry, click the corresponding row in the list. It will then be available in the input line.

The curve labels can be modified in →Text. The key for this would then be, for example: «SYS.GrowthChart.1.3», where 1 represents chart and 3 represents the curve.

Once data has been changed, pivot tables must be generated at the end of the editing process <sup>75</sup>; otherwise, a warning will be issued when MEDFASOP is started.

<sup>74</sup>Defines the graphics grid on the Y-axis.

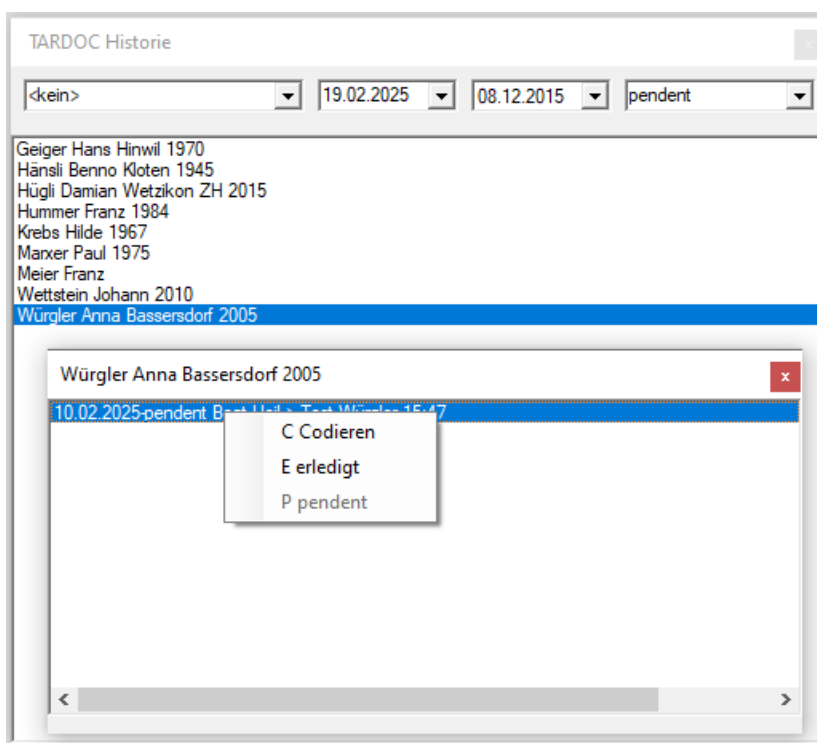
<sup>75</sup>Menu «Global/Meta-Data/Growth Curves/Generate Pivots»

## 8 TARDOC

Important: The database and software name "TARMED" remains unchanged <sup>76</sup>. A separate document exists for importing from the TARDOC Access database. For TARMED (TARDOC) to be active, the path to the file TARMED.Data.txt must be entered in the file MEDFASOP.Data.txt. The functionality is designed for the rapid recording of physician activities and not for billing health insurance companies.

### 8.1 TARDOC History (#45, #46)

☒ No additional permissions are required <sup>77</sup>to work. Users who need to change the coding status require <sup>78</sup>an entry of their UserID under the key "SYS.TARDOC". For tariff items with a dignity rating, that of the treating physician is automatically applied. If the history is accessed from "OfficeExit", "Search for Patient", or "Visit", only the selected patient is evaluated. For time history → p. 13.



The first line contains the filters for doctor, evaluation period, and coding status. If a different doctor is selected, the evaluation period must then be redefined.

Clicking on a line then displays the <sup>79</sup>patient's clocks. A click on a clock selects it, and a right-click afterwards allows for situational actions. "Coding" starts TARDOC Patient (→ p. 39), but with the status "completed" only in read-only mode.

<sup>76</sup>Changing the name makes no sense in terms of effort, since essentially only the data content has been changed.

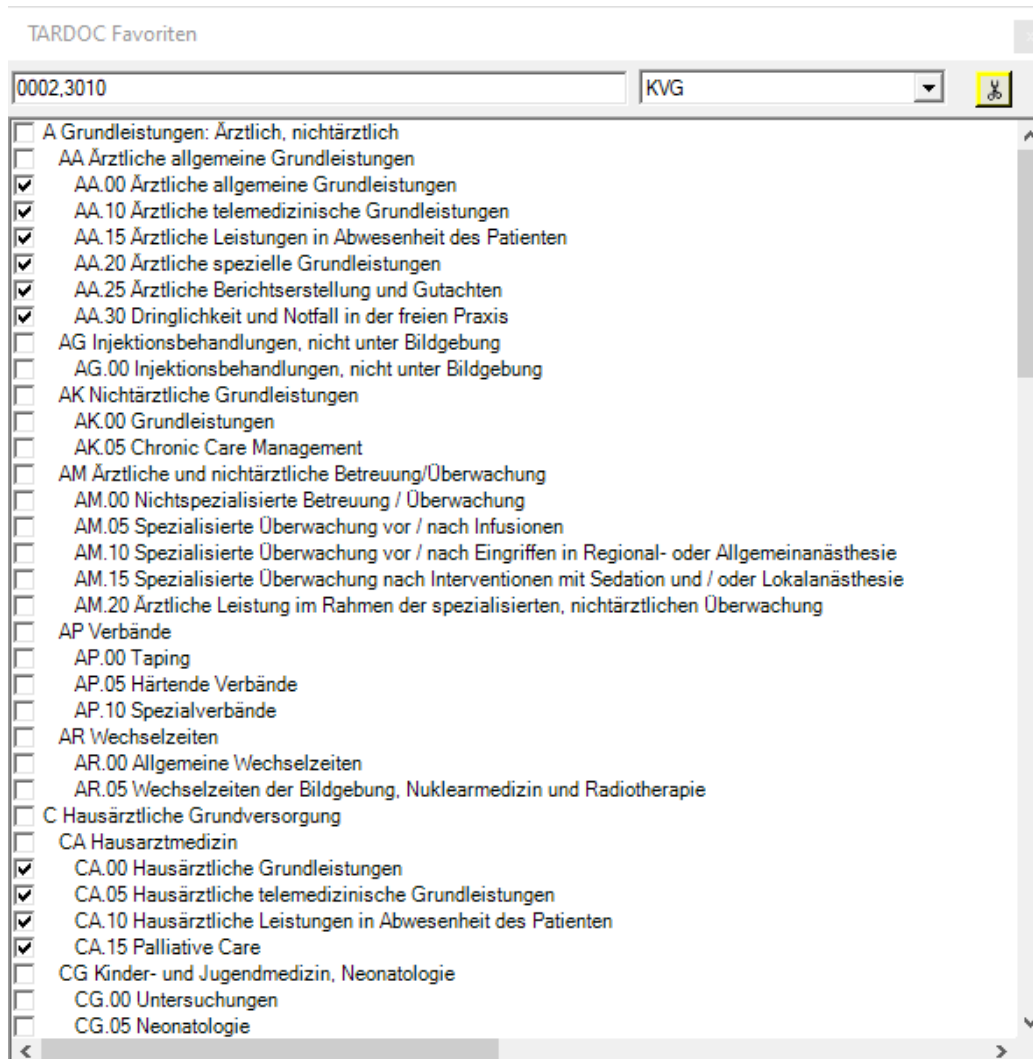
<sup>77</sup>→ Text: user1 [,user2] .. (user=login name), use only one language column!

<sup>78</sup>TARDOC History can be used even if the encoding (→ p. 37) itself has not been activated.

<sup>79</sup>Only the date of the clock is displayed.

## 8.2 TARDOC Favorites (#42)

Users with the doctor role <sup>80</sup>maintain their dignities and TARDOC favorites in the database using this form. Qualitative dignities → [https://ecofor.ch/files/Qualitative\\_Dignität.g.pdf](https://ecofor.ch/files/Qualitative_Dignität.g.pdf)






The first line records personal details. These filter the data in the list below. Lowercase letters are permitted. Multiple entries should be separated by commas. Next to this is the selection for the tariff area (KVG or UVG-IVG-MVG).

The list includes billing chapters and their parent chapters. Only billing chapters are saved as favorites.

Dignity <sup>81</sup>and listing cannot be changed simultaneously.

Clicking <sup>82</sup>in a row also toggles sub-rows.

Entering a value activates the button . Clicking this button closes the window. This  removes all dignities and favorites for the selected tariff area. This  reloads the form without making any changes.

<sup>80</sup>→ User/TARDOC on page 9

<sup>81</sup>For example, if a dignity is removed, favorites with that dignity may also be affected after the mutation has occurred.

<sup>82</sup>Click twice on nodes with selected sub-positions to clear them all.

### 8.3 TARDOC Patient (#43)

This form manages a patient's rates for a specific date (time). It retrieves data ☒ from the patient's file for the most recent time (→ p. 21) and from the history (→ p. 37) for a selected time. TARDOC uses the following criteria for data filtering: (a) physician with relevant qualifications, (b) date, (c) rate range, (d) physician's favorites, (e) patient's gender, (f) date of birth.

Chapters are listed on the left and fee schedule items on the right. The first line lists the physician with their dignities, start times with accumulated minutes, and finally the cumulative minutes for that date. If a clock is still running for that date, this is indicated in the cumulative minutes.

Tarif	Wert	Minuten	Betreff
AA.00.0030	23	+5	Besuch, erste 5 Min.
AA.15.0010	8	1	Studium von Fremddakten in Abwesenheit des Patienten, pro 1 Min.
AG.00.0060	3	+	Anästhesie von peripheren Nerven, obere Extremitäten, erster Nerv
AM.05.0090	60	+45	Spezialisierte nichtärztliche Überwachung, 1-2 Substanzen, komplexe Zubereitung oder
AM.10.0020	62	+30	Nichtärztliche Überwachung nach Eingriffen in Regional- oder Allgemeinanästhesie, erste
AP.00.0010	x	1	Taping, alle Regionen, pro 1 Min.
CA.00.0010		+5	Hausärztliche Konsultation, erste 5 Min.
CA.00.0030		1	Hausärztliche Beratung, pro 1 Min.
CA.00.0040		+5	Hausärztlicher Besuch, erste 5 Min.
CA.00.0070		1	Hausärztliche Wegzeit, pro 1 Min.
MP.10.0070	2000	+720	Telemetrisches EEG, mit Oberflächenelektroden, inkl. Videoregistrierung, erste 12 Std.

The listed chapters depend on the favorites flag ☐ in the first row and the selected tariff area. The latter is locked once data has been saved. The field and arrows above the chapters are for text search <sup>83</sup>. Clicking on a chapter without subchapters loads the tariff items in the right-hand pane, provided they do not already contain data. Previously, all items without entries were removed.

The middle of the form contains 3 flags, from top to bottom: (a) ☐ for increased treatment needs (→ p. 44), (b) ☒ the display of the tax points in the table header, and (c) ☒ group division (Important → pp. 41, 43). The button below affects the coding status <sup>84</sup>: = pending, = completed.

The database is updated manually, as well as automatically when the window is closed or the document is generated. The form content is updated accordingly. [The following command] deletes all captured data <sup>85</sup>.

Performance groups have a "+" in the "Minutes" column and are color-coded according to their level of automation (→ p. 40). Clicking in the adjacent text field allows you to scroll through the content using the left/right arrow keys <sup>86</sup>. Clicking on such a "+" field opens the window for viewing/editing the content (→ p. 41).

If a field in the Tariff or Subject area is clicked, Billing/Tariff Information will be displayed on the left, and Tax Points will be shown on the right in the heading, provided the flag for the latter is activated.

- Billing <sup>87</sup>:  $\Sigma$  = Recorded,  $\Delta$  = (Recorded -  $\Sigma$  Accrued)
- Tax points: TP/LMIN <sup>88</sup>, ARL=Doctor, ASL=Assistant, TEL=Technical

<sup>83</sup>Enter text, search responds immediately.








<sup>84</sup>When the form is started in the dossier, the button is not locked when coding status 2 (completed).

<sup>85</sup>This is necessary if the tariff range was selected incorrectly.

<sup>86</sup>Content is displayed in the left part of the window.

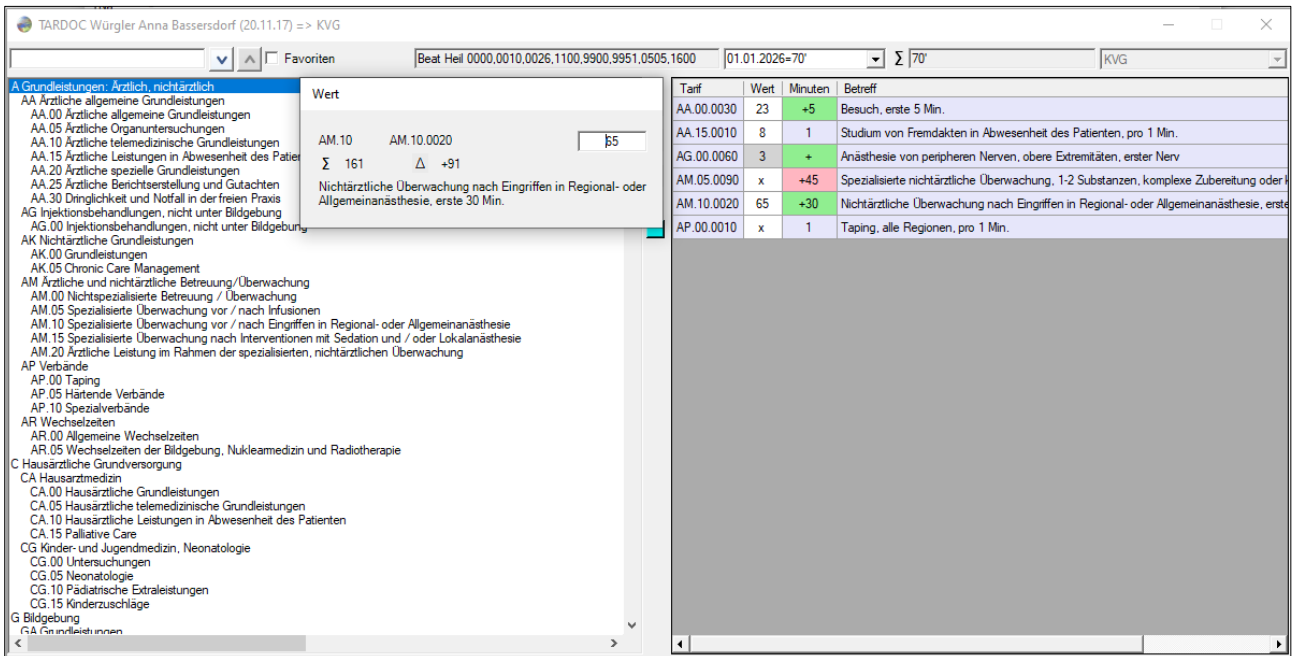
<sup>87</sup>minutes

### 8.3.1 Meaning of colors

	The line is stored in the database.		Vending machine without additional services.
	Line not yet in the database.		Vending machine with additional services.
	Value requires quantity.		Semi-automatic with/without additional services.
	Value requires time (always minutes).		

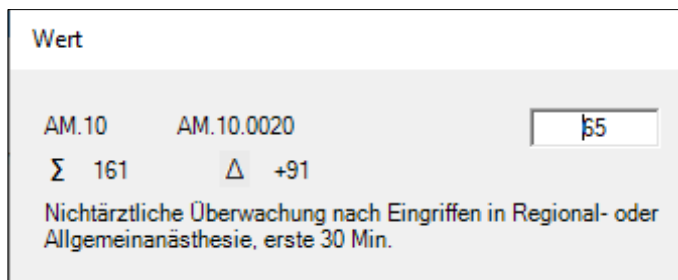
Performance groups with a red background can only be calculated once one of the possible alternatives within them (which also have a red background) has been clicked.

### 8.3.2 Capture value (#49)



Tarif	Wert	Minuten	Betreff
AA.00.0030	23	+5	Besuch, erste 5 Min.
AA.15.0010	8	1	Studium von Fremddaten in Abwesenheit des Patienten, pro 1 Min.
AG.00.0060	3	+	Anästhesie von peripheren Nerven, obere Extremitäten, erster Nerv
AM.05.0090	x	+45	Spezialisierte nichtärztliche Überwachung, 1-2 Substanzen, komplexe Zubereitung oder
AM.10.0020	65	+30	Nichtärztliche Überwachung nach Eingriffen in Regional- oder Allgemeinanästhesie, erste
AP.00.0010	x	1	Taping, alle Regionen, pro 1 Min.

Situation after clicking on the value field «65» for the tariff «AM.10.0020».



The mouse is automatically positioned in the value field at startup. If it leaves the field, the window closes. A click in an empty field creates an "x", and a field with an "x" becomes empty again. Use the keyboard immediately for entering values.



### 8.3.3 Performance group (#48)

The important flag here is "Group splitting" ( → p. 39, red arrow). When enabled, only editable items are listed, which increases productivity. Details can also be seen in the "Subject" column when browsing. In the examples shown, the flag is disabled.

TARDOC Würzler Anna Bassersdorf (20.11.17) => KVG

Beat Heil 0000,0010,0026,1100,9900,9951,0505,1600 | 01.01.2026=70' | Σ 70'

Tarif	Wert	Minuten	Betreff
AA.00.0030	23	+5	Besuch, erste 5 Min.
AA.15.0010	8	1	Studium von Fremda
AG.00.0060	3	+	Anästhesie von perip
AM.05.0090	60	+45	Spezialisierte nichtär
AM.10.0020	65	+30	Nichtärztliche Überw
AP.00.0010	x	1	Taping, alle Regione

Gruppe

Tarif	Wert	Minuten	Betreff
AM.05.0030	2		+ %-Zuschlag für Leistungen am Patienten unter Kontaktisolation während Sockelzeit Üb
AM.05.0040		15	+ Spezialisierte nichtärztliche Überwachung, geringe Betreuungsintensität, pro weitere 15
AM.05.0050		15	+ Spezialisierte nichtärztliche Überwachung, mittlere Betreuungsintensität, pro weitere 15
AM.05.0070		15	+ Spezialisierte nichtärztliche Überwachung, hohe Betreuungsintensität, pro weitere 15 M

Situation after clicking in the minute field "+45" for tariff "AM.05.0090". This service group consists of an optional surcharge, which is entered after clicking in the value field ( → p. 40), and three red options, which must be selected by clicking in the appropriate value field.

TARDOC Würzler Anna Bassersdorf (20.11.17) => KVG

Beat Heil 0000,0010,0026,1100,9900,9951,0505,1600 | 01.01.2026=70' | Σ 70'

Tarif	Wert	Minuten	Betreff
AA.00.0030	23	+5	Besuch, erste 5 Min.
AA.15.0010	8	1	Studium von Fremda
AG.00.0060	3	+	Anästhesie von periphe
AM.05.0090	60	+45	Spezialisierte nichtärztli
AM.10.0020	65	+30	Nichtärztliche Überwac
AP.00.0010	x	1	Taping, alle Regionen.

Gruppe

Tarif	Wert	Minuten	Betreff
AM.05.0030	2		+ %-Zuschlag für Leistungen am Patienten unter Kontaktisolation während Sockelzeit Üb
AM.05.0040		15	+ Spezialisierte nichtärztliche Überwachung, geringe Betreuungsintensität, pro weitere 15
AM.05.0050	x	15	+ Spezialisierte nichtärztliche Überwachung, mittlere Betreuungsintensität, pro weitere 15
AM.05.0070		15	+ Spezialisierte nichtärztliche Überwachung, hohe Betreuungsintensität, pro weitere 15 M

Situation immediately after the click.

TARDOC Würzler Anna Bassersdorf (20.11.17) => KVG

Beat Heil 0000,0010,0026,1100,9900,9951,0505,1600 | 01.01.2026=70' | Σ 70'

Tarif	Wert	Minuten	Betreff
AA.05.0030	2		+ %-Zuschlag für Leistungen am Patienten unter Kontaktisolation während Sockelzeit Ob
AM.05.0040		15	+ Spezialisierte nichtärztliche Überwachung, geringe Betreuungsintensität, pro weitere 15
AM.05.0050	15	15	+ Spezialisierte nichtärztliche Überwachung, mittlere Betreuungsintensität, pro weitere 15
AM.05.0070		15	+ Spezialisierte nichtärztliche Überwachung, hohe Betreuungsintensität, pro weitere 15 M

Tarif	Wert	Minuten	Betreff
AA.00.0030	23	+5	Besuch, erste 5 Min.
AA.15.0010	8	1	Studium von Fremdak
AG.00.0060	3	+	Anästhesie von periph
AM.05.0090	60	+45	Spezialisierte nichtärzt
AM.10.0020	65	+30	Nichtärztliche Überwa
AP.00.0010	x	1	Taping, alle Regionen

AR Wechselzeiten  
AR.00 Allgemeine Wechselzeiten

Situation after leaving and re-entering the system: The machine has calculated and assigned the difference (60 - 45) to the selected tariff. If a different line is clicked at this point, the amount will be transferred there.

TARDOC Würzler Anna Bassersdorf (20.11.17) => KVG

Beat Heil 0000,0010,0026,1100,9900,9951,0505,1600 | 01.01.2026=70' | Σ 70'


Tarif	Wert	Minuten	Betreff
AA.00.0040	18	1	+ Besuch, jede weitere 1 Min.

Tarif	Wert	Minuten	Betreff
AA.00.0030	23	+5	Besuch, erste 5 Min.
AA.15.0010	8	1	Studium von Fremdak
AG.00.0060	3	+	Anästhesie von periph
AM.05.0090	60	+45	Spezialisierte nichtärztli
AM.10.0020	65	+30	Nichtärztliche Überwac
AP.00.0010	x	1	Taping, alle Regionen,

AR Wechselzeiten  
AR.00 Allgemeine Wechselzeiten

Situation after clicking in the minute field "+5" for tariff "AA.00.0030". Windows with only one table row (as in this example) close automatically as soon as the mouse leaves the table.

### 8.3.4 Generate document<sup>89</sup>

When a TARDOC patient is active, the icon appears in the main window , which generates the HTML document; a right-click creates the Word document. Increased treatment needs are displayed for the patient ( → p. 44).

Rounding using the example MP.10.0070/80 (hours are converted to minutes)

Important: value, delta, and rate are integers, meaning decimal places are truncated.

$\text{delta1}(1280) = \text{value1}(2000) - \text{rate1}(720)$

$\text{delta2}(22) = (\text{delta1}(1280) + \text{rate2}(60) - 1) / \text{rate2}(60)$

#### TARDOC per 13.02.2026 09:13

**KVG**  
KPT/CPT, 3000 Bern, #376  
621347

**Rechnungsadresse**  
Würgler Helene  
Teststr. 10  
8303 Bassersdorf

Patient [weiblich]	AHV	Datum	ΣUhr	ΣZeit	Delta	Arzt
Würgler Anna (20.11.17)	756.0258.0346.17	01.01.2026	70'	2153'	+2083	Beat Heil 0000,0010,0026,1100,9900,9951,0505,1600,9945

Bezug	Ziffer	Wert	Anzahl	Text
+5	AA.00.0030	23'	1	Besuch, erste 5 Min.
AA.00.0030	AA.00.0040	Δ	18	+ Besuch, jede weitere 1 Min.
	AA.15.0010	8'	8	Studium von Fremdakten in Abwesenheit des Patienten, pro 1 Min.
+1	AG.00.0060	2	1	Anästhesie von peripheren Nerven, obere Extremitäten, erster Nerv
AG.00.0060	AG.00.0070	Δ	1	+ Anästhesie von peripheren Nerven, obere Extremitäten, jeder weitere Nerv
+45	AM.05.0090	60'	1	Spezialisierte nichtärztliche Überwachung, 1-2 Substanzen, komplexe Zubereitung oder komplexer Zugang, erste 45 Min.
AM.05.0090	AM.05.0070	Δ	1	+ Spezialisierte nichtärztliche Überwachung, hohe Betreuungsintensität, pro weitere 15 Min.
AM.05.0090	AM.05.0030	3	3	+ %-Zuschlag für Leistungen am Patienten unter Kontaktisolation während Sockelzeit Überwachung
+30	AM.10.0020	62'	1	Nichtärztliche Überwachung nach Eingriffen in Regional- oder Allgemeinanästhesie, erste 30 Min.
AM.10.0020	AM.10.0030	Δ	32	+ Nichtärztliche Überwachung nach Eingriffen in Regional- oder Allgemeinanästhesie (31. bis 240. Minute), pro 1 Min.
	AP.00.0010		x	Taping, alle Regionen, pro 1 Min.
+720	MP.10.0070	2000'	1	Telemetrisches EEG, mit Oberflächenelektroden, inkl. Videoregistrierung, erste 12 Std.
MP.10.0070	MP.10.0080	Δ	22	+ Telemetrisches-EEG, mit Oberflächenelektroden, inkl. Videoregistrierung, jede weitere 1 Std.

HTML situation – Evaluate group division (flag off)

<sup>89</sup>The application "TARMED2HTML" is used to automatically evaluate completed cases.

**TARDOC per 13.02.2026 09:14****KVG                      Rechnungsadresse**

KPT/CPT, 3000 Bern, #376    Würzler Helene  
621347                              Teststr. 10  
   8303 Bassersdorf

Patient [weiblich]	AHV	Datum	ΣUhr	ΣZeit	Delta	Arzt
Würzler Anna (20.11.17)	756.0258.0346.17	01.01.2026	70'	2153'	+2083	Beat Heil 0000,0010,0026,1100,9900,9951,0505,1600,9945

Bezug	Ziffer	Wert	Anzahl	Text
+5	AA.00.0030	23'	-	Besuch, erste 5 Min.
	AA.15.0010	8'	-	Studium von Fremdakten in Abwesenheit des Patienten, pro 1 Min.
+1	AG.00.0060	2	-	Anästhesie von peripheren Nerven, obere Extremitäten, erster Nerv
+45	AM.05.0090	60'	-	Spezialisierte nichtärztliche Überwachung, 1-2 Substanzen, komplexe Zubereitung oder komplexer Zugang, erste 45 Min.
AM.05.0090	AM.05.0030	3	3	+ %-Zuschlag für Leistungen am Patienten unter Kontaktisolation während Sockelzeit Überwachung
+30	AM.10.0020	62'	-	Nichtärztliche Überwachung nach Eingriffen in Regional- oder Allgemeinanästhesie, erste 30 Min.
	AP.00.0010		x	Taping, alle Regionen, pro 1 Min.
+720	MP.10.0070	2000'	-	Telemetrisches EEG, mit Oberflächenelektroden, inkl. Videoregistrierung, erste 12 Std.

HTML situation – Suppress group division (flag on)

### 8.3.5 Increased need for treatment

The previous TARMED distinction based on increased treatment needs has been eliminated in TARDOC. Increased treatment needs must still be medically justified and documented in the patient's medical record.


If an entry exists in the "Diagnosis/Increased Treatment Needs" section of a consultation, it will be displayed here until one of the alternatives | end | fin | ende | fine | appears at the beginning of a line in a later consultation in that section.

**TARDOC per 27.10.2025 17:11****KVG                      Rechnungsadresse**

Atupri, 3000 Bern, #312    Hügli Franziska  
2364841                              Weberstrasse 20  
   8302 Kloten

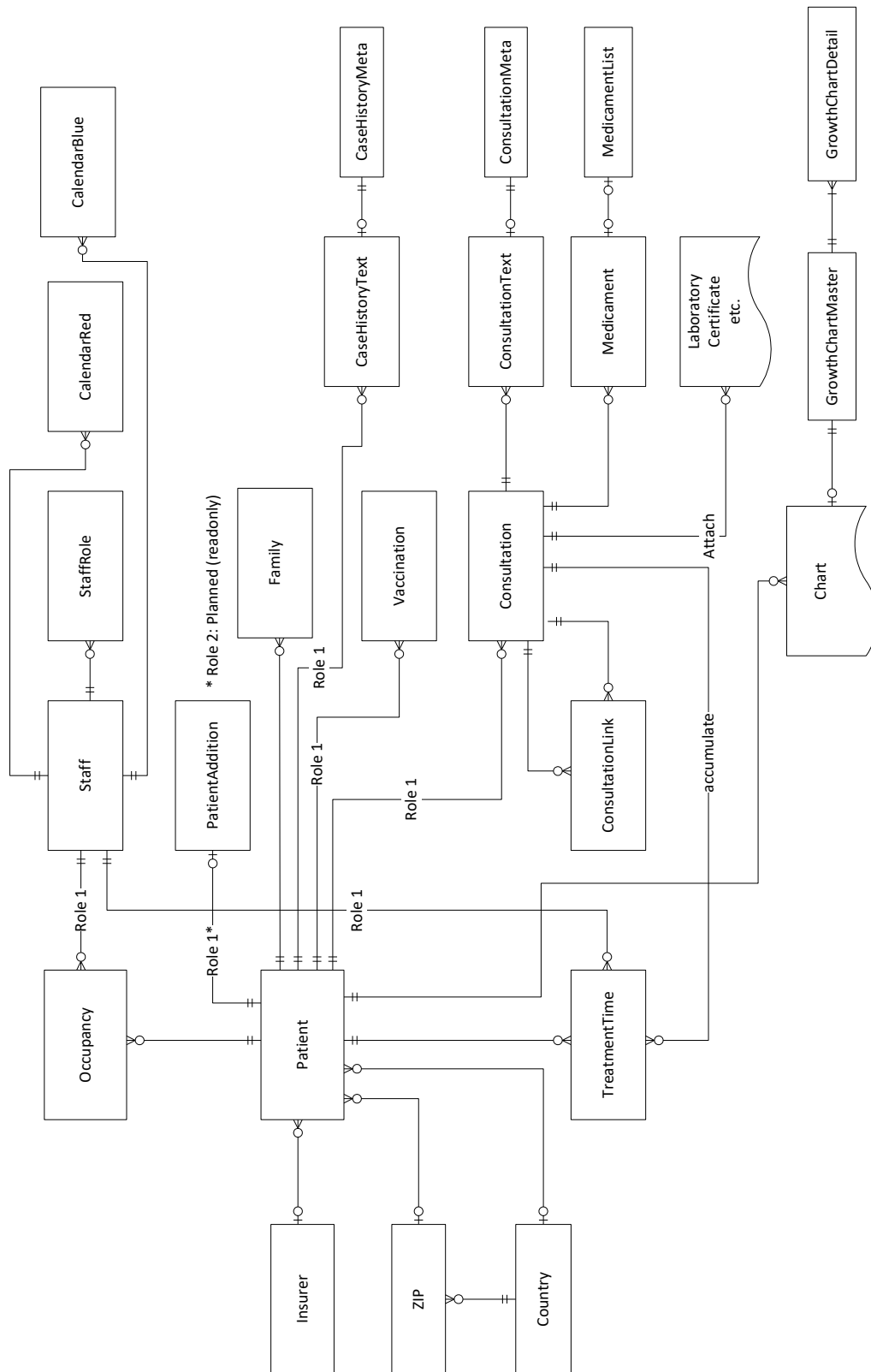
Patient [männlich]	AHV	Datum	ΣUhr	ΣZeit	Delta	Arzt
Hänsli Benno (79.10.29) (erhöhter Behandlungsbedarf)	756.0347.0856.25	27.10.2025	0'	10'	+10	Beat Heil 0002,3010

The status of a consultation, including the consultation date, is displayed in the dossier. It can be ended upon request by clicking the checkmark. The entry "end" appears in the most recent consultation.

Diagnose		15.02.2012
15.02.2012 Grippe		
28.10.2010 Diabetes Typ 2		

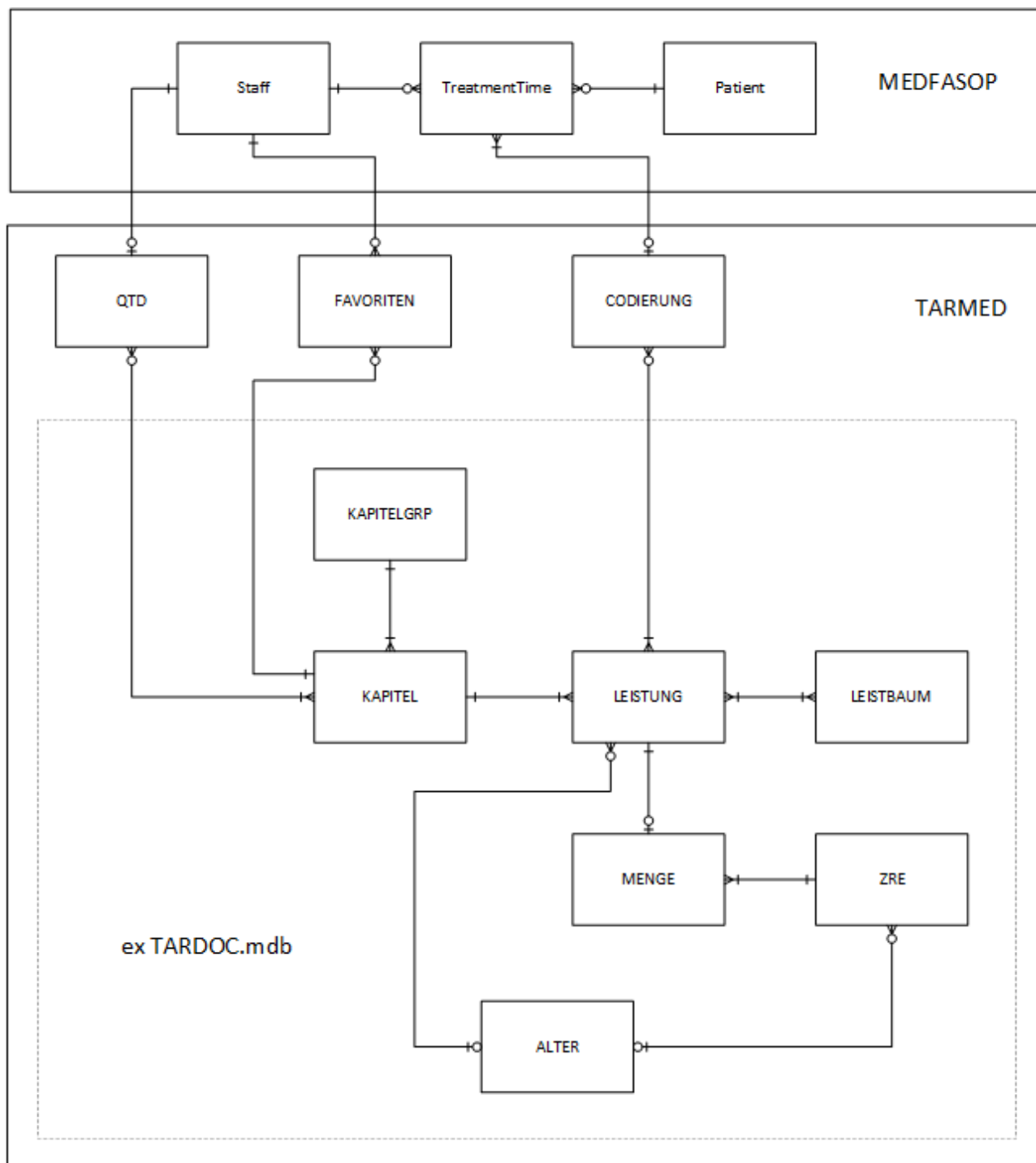
## 9 System

### 9.1 Entity Relationship Diagram MEDFASOP<sup>90</sup>



<sup>90</sup>Technical entities such as Text, Message, etc. are not shown. All tables with the prefix T\_

## 9.2 Entity Relationship Diagram TARDOC<sup>91</sup>



QTD = Qualitative TARDOC dignity (e.g. "FMH05,FMH06")

ZRE = „CT\_ZR\_EINHEIT“ ex TARDOC.mdb

<sup>91</sup>Technical entities for data import from MDB are not shown. All tables with the prefix T-

### 9.3 Folder structure on the data server

MEDFASOP	<b>MEDFASOP.Data.txt</b> <b>MEDFASOP.User.txt</b> <b>MEDFASOP License</b> <b>MEDFASOP.udl</b> <b>MEDFASOP.Client?.pdf</b>	ATTACH	Labor type=1.doc Certificate type=2.doc Brief type=3.doc	
		DOCUMENT	Patient documents	
		HTML	Generated patient files (Patient2HTML)	
		MEDICAMENT		IMPORT BAGMED2TXT.?.pdf
		PHARMACY	Recipe templates (Word.xml)	
		SQL	Templates for SQL4Server	
		TARMED	TARMED.Data.txt TARMED.udl TARMED.Print.?.html	IMPORT TARMED Import.pdf and Functionality for importing KVG and UVG data
		TEMPLATE	Templates used internally within the program	
		USER	User control	

## 9.4 Requirements

MEDFASOP-DB: Microsoft SQL Server (2014 <sup>CLR active</sup>, 2019 <sup>CLR active</sup>, 2022 <sup>CLR active</sup>) <sup>92</sup>.

MEDFASOP client: Microsoft Windows (10, 11)  
 + Microsoft .NET Framework 4.8  
 + Screen: at least 1024 x 768 pixels  
 + Microsoft Word  
 + Google Chrome | MS Edge Chromium | Brave

Data server: Microsoft Windows (10, 11) | Microsoft Server (2008 R2 Standard, 2012 R2 Standard, 2019 Essentials, 2022 Essentials)<sup>93</sup>

## 9.5 Parameters for MEDFASOP

This section covers all setup parameters and options Table 8) and MEDFASOP.User.txt ( Table 9:

Parameter	Options	Description
ARCHIVECONS=	Years	Years until the consultations were archived <sup>94, 95</sup>
ARCHIVETREAT=	Months	Months until treatment times are archived (details for form "History" only) <sup>94, 95</sup>
DBDOC=		The root name of the PDF document accessed via the question mark menu. This means without any language code or extension. At least one document for the language specified by DBLANG= must exist in the database path.
DBLANG=	English French German Italian	The application's primary language, which contains all the documents, must be specified (only one language is allowed). The application will only start if a required document is present!
DBTEMP=		Path for temporary files on the server side (data server)
DOCUMENT=		Path to the documents managed by MEDFASOP (e.g., lab reports, medical certificates).
HTMLPATH=		Path to the generated HTML dossiers <sup>95</sup>
PHARMACY=		Path to the recipe templates.
SQLCONN=		Connection to SQL Server.
TARMED=		Path to the file TARMED.Data.txt.
TEMPLATE=		Path to the folder containing the templates.
UDLCONN=		Microsoft Datalink ( → document SQL4Server)
USERPATH=		Path for user control (copies of MEDFASOP.User.txt)

**Table 8: Parameters MEDFASOP.Data.txt**

<sup>92</sup>Microsoft provides the Express version free of charge. Versions in use are listed in parentheses.

<sup>93</sup>Recommended for multi-user operation. Versions used are listed in parentheses.

<sup>94</sup>It is used in the program «Patient2Archive» and maintained from there.

<sup>95</sup>Optional parameters



Parameter	Options	Description
ATTACH=		Path for documents added to patients <sup>95</sup>
DOSSIERSTYLE=	1 List 2 Text	Dossier style <sup>95, 96</sup> .
F43FAV=	0 Inactive 1 Active	Favorite Mode On/Off
F43POG	0 Inactive 1 Active	Print without group
F43TP=	0 Inactive 1 Active	Tax point display On/Off
EDITOR=		Text editor (for registered programs the program name is sufficient, otherwise the full path must be included).
OFFICE ACTION=	0 Inactive 1 Active	Context menu in Office window <sup>95, 96</sup>
PHARMACY=		Filename of the prescription template for the doctor.
USERTEMP=		User-side path for temporary file <sup>95</sup>
VERSION=		After installing a new software version, the user forms are reset <sup>95</sup>
WFE=	0 Off 1 On	Waiting for the operation to conclude.

**Table 9: Parameters MEDFASOP.User.txt**

to the location of USERPATH ( → Table 8) for each user on first startup <sup>97</sup>, where «User» is replaced by the corresponding ID.

## 9.6 Permissions in SQL Server

The administrator (role 3) requires the permission "sysadmin" <sup>98</sup>. For all other users, "public (read, write)" is sufficient.

## 9.7 First steps after installation<sup>99</sup>

The client and MEDFASOP.Data.txt are installed with predefined settings. If the "MEDFASOP" folder is moved, this must be reflected in the setup files "MEDFASOP.Data.txt" and "MEDFASOP.User.txt". Similarly, if the name of the data and/or SQL server changes, this must also be reflected in the files "MEDFASOP.Data.txt" and "MEDFASOP.udl".

The administrator must (a) adjust the working hours for the SYSTEM user (practice) in MEDFASOP via the Personnel menu and (b) create new users in MEDFASOP and assign roles.

## 9.8 License server

MEDFASOP can be used for 30 days without a license server. After that, as many people can <sup>100</sup>use MEDFASOP simultaneously as there are licenses available. The license server must be located in the same path as MEDFASOP.Data.txt.

<sup>96</sup>Enter only the number.

<sup>97</sup>The same thing happens if the file is no longer present.

<sup>98</sup>for pivot generation

<sup>99</sup>Initial installation is tailored to the customer's needs.

## 9.9 Scalability (Summary)

The following elements can be modified or expanded without special knowledge. Special knowledge is required for all other elements.

<b>Reports</b> Text translations for the languages English, French, German and Italian.	
<b>Medication list</b> Available for free selection in prescriptions. Data can be inserted, changed, and removed as desired. The current list contains more than 6800 entries, which are taken from the BAG specialties list. → See also folders with import functionality on page 47.	
<b>Metadata for medical history</b> Concept development and text translations for the languages English, French, German and Italian.	
<b>Metadata for consultation</b> Concept and text translations for English, French, German, and Italian. Chapter 0.0 is reserved for diagnosis, 0.1 for accident data, and 0.2 for increased treatment needs.	
<b>Growth Chart (Master, Detail)</b> Concept development and text translations for the languages English, French, German and Italian.	
<b>Texts</b> Text translations for the languages English, French, German and Italian.	
6.O.Action.4	The number in the text "Last 10 treatments" may be changed.
O.Document.#	Except for 0=All, 1=Laboratory and 2=Certificate, IDs can be removed and added as desired.
O.FamilyRole.#	The role is used for family.
O.Treatment.#	Used to specify the treatment time in more detail. 1 is reserved for the practice visit.
O.Vaccination.#	Used for selection during vaccinations.
SYS.Appointment	Controls appointment scheduling. The entries "Cache" and "File" are recognized. → Description on page 52.
SYS.Consultation.MaxColumn	Maximum number of columns for consultation series in HTML evaluation.
SYS.Country	Country code.
SYS.Flag.GrowthChart2File	Controls the generation of numbers in the user's temporary folder : TRUE=Generate; FALSE=Do not generate
SYS.Flag.Occupancy.Duration	Controls the verification of minutes during appointment booking: TRUE=Verify; FALSE=No verification, entry optional.

<sup>100</sup>Only one instance of MEDFASOP can run per user. This is ensured by an entry in T\_UserSession (for networks) and process monitoring (for computers). A maximum of 999 users can work simultaneously (sequence number in TID: 001-999).

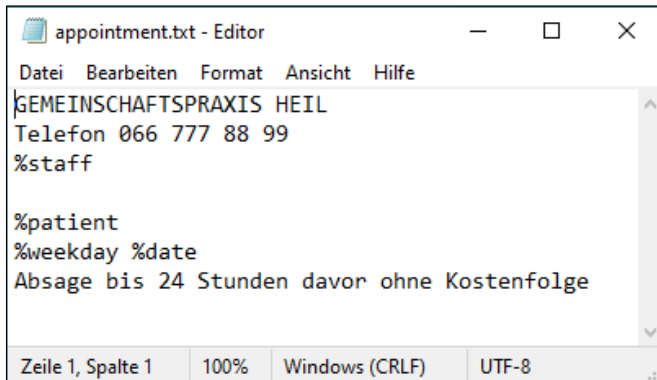
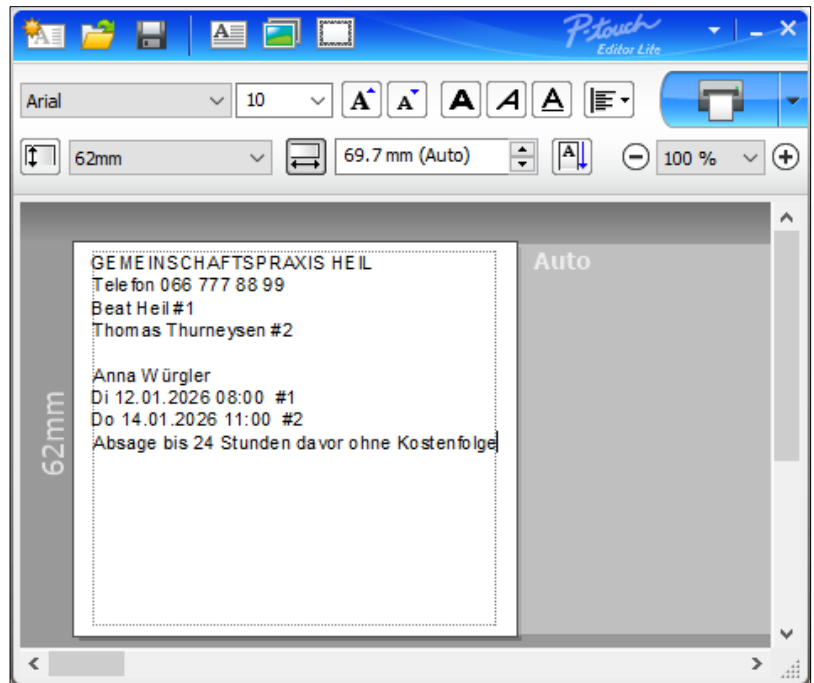
SYS.Flag.Occupancy.Duration.USER	Similar to the previous line, but only for a specific schedule (replace USER with the corresponding ID).
SYS.Flag.Occupancy.Color	Controls the coloring of occupied areas in the schedule. TRUE = color green; FALSE = white.
SYS.Occupancy.Duration	Minutes become decisive where no treatment duration is specified.
SYS.Occupancy.Duration.USER	Similar to the previous line, but only for a specific schedule (replace USER with the corresponding ID).
SYS.Pharmacy	Text constants for the recipe. Only used upon request.
SYS.TreatmentTime.MinMinutes	Defines the number of minutes until an inquiry is made if a running clock is found upon entering the dossier.
SYS.TreatmentTime.MaxMinutes	Defines the number of minutes until a prompt is issued if this time has been exceeded when the clock is stopped.
insurer	
Health insurance funds, which are allocated to patients as needed.	

**Table 10: Scalability**

### 9.9.1 Appointment scheduling

A label printer can be used to print a patient's appointment immediately after it is entered. This can also be done via the reservation list ( → 3.2 on p. 15) or the appointment information ( → 3.5.2 on p. 18). All of the patient's appointments are evaluated. Two options are available: (a) a cache, which is pasted into the label box using [Ctrl+V], and (b) the file "MEDFASOP.USERID.appointment.txt" in the USER-Temp folder, which can be dragged onto the label printer, for example, in Snap mode.

On the right is an example using the Brother QL-700 label printer in Lite mode, applying [Ctrl+V]. The index # is only displayed if "%staff" is used further down in the template and more than one schedule is affected.



The template for the example is on the left.

The appointment schedule template must be saved in the folder "MEDFASOP\TEMPLATE" under the name "appointment.txt". The template contains the keywords "%staff" for the schedule, "%weekday" for the day of the week, "%date" for the appointment date, and "%patient" for the patient name.

In → Text, one or both variants "Cache, File" must be entered in the English column for the key "SYS.Appointment".

## 9.9.2 Recipe template

The print template must be in XML (Word) format <sup>101</sup>. The recipe will be automatically inserted into a copied copy, specifically into the first available space in the text body. The example shown uses an A6 prescription form. Therefore, the template only contains the automatically populated fields "Date" and "Page/Number of Pages".

+	17.05.2020 - 1/2	17.05.2020 - 2/2
<b>Franz Peter Hügli (07.08.1985)</b> <b>Während 12 Monaten erneuerbar</b>	<b>Franz Peter Hügli (07.08.1985)</b> <b>Während 12 Monaten erneuerbar</b>	
Acidum folicum Streuli, Tabl 5 mg, 100 Stk 1 pro Woche	Livazo, Filmtabl 1 mg, 90 Stk 0-0-1	
Alvesco, Dosieraeros 80 mcg, 120 Dos 1-0-0-1	Messstreifen für Bayer Contour Grosse Packung	
Condrosulf 800, Gran 800 mg, Btl 90 Stk 1-0-0-0	Novofine 31G Injektionsnadeln einweg	
Crestor, Filmtabl 5 mg, 30 Stk (O) 0-0-1	Tresiba FlexTouch, Inj Lös 100 E/ml, 5 Fertpen 3 ml 30E am Morgen	
Insulin NovoRapid FlexPen, Inj Lös Fertigpen, 5 Fertpen 3 ml 3E 1-1-1	Vitamine B12 5 mg/ml Spray Nase 1 pro Woche	
Kombiglyze XR, Filmtabl 2.5 mg/1000 mg, 196 Stk 1-0-1		<input type="checkbox"/>
Lanzetten für Bayer Grosse Packung		

## 10 Data protection

BitLocker is included starting with Microsoft Server 2008 R2. and this also enables data protection on external media.

<sup>101</sup>The file «recipe.html» is used by the program and must not be modified.

## 11 Glossary

APID	Billing personnel identification (for health insurance company)
CLR	Common Language Runtime (Assembly)
filter	This results in a limitation of the data volume
Form	Screen mask
Button	An object that either opens and reveals information, or starts a function when a mouse click is applied.
percentiles	Percentile charts compare data from patients (especially children and adolescents) with that of their peers based on percentages.
PID	Patient ID. Unique identification of patients.
SID	Staff ID. Unique identification of employees.
Scalability	Changing system behavior without program changes (cost advantage).

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## 13 Window objects

#	Window object	Page
1	Main1	5
2	OccupancyBook2	18
3	OccupancyBook3	17
4	Calendar4	9
5	OccupancyBook5	16
6	PatientFind6	8
7	Office7	15
8	Doctor8	20
9	Pending9	15
10	Patient 10	18
11	Family11	19
12	Dossier 12	21
13	TypeOf13	20
14	OfficeExit14	16
15	Address15	13
16	GrowthChart16	28
17	CaseHistory17	22
18	Consultation18	23
19	Chapter 19	22
20	Consultation20	23
21	Medicament21	26
22	Vaccination22	27
23	Staff23	30
24	WorkingTime24	31
25	Absence25	31

#	Window object	Page
26	Document26	10
27	MsgHandler27	33
28	Text28	33
29	Insurer29	32
30	Medication List 30	32
31	CaseHistoryMeta31	34
32	ConsultationMeta32	34
33	GrowthchartMaster33	36
34	Growthchart Detail 34	36
35	OccupancyList35	15
36	TreatmentHistory36	13
37	TextSearch37	29
38	Growthchart38	28
39	Document39	10
40	Relation40	25
41	Relation Overview 41	25
42	TARMED42	38
43	TARMED43	39
44	Document44	10
45	TARMED45	37
46	TARMED46	37
47	Hotkey47	7
48	TARMED48	41
49	TARMED49	40

## 14 Evaluations (Examples)

Chapter (HTML or Word) → p. 56

Dossier (HTML or Word) → p. 57

Treatment history (Word) → p. 58

## 14.1 Chapter (right-click on → Word)

### Würgler Anna Bassersdorf

Datum	Kapitel	Text	Status
25.07.2011	Messungen	Gewicht (kg)	25
		Grösse (cm)	90
		BMI	30.9
30.12.2010	Anamnese	Anamnese	Die Anamnese ist die professionelle Erfragung von potenziell medizinisch relevanten Informationen durch Fachpersonal. Dabei antwortet entweder der Patient selbst oder eine dritte Person. Ziel ist dabei meist die Erfassung der Krankengeschichte eines Patienten im Rahmen einer aktuellen Erkrankung.
16.12.2010	Behandlung	Behandlung	Test von Version 4.1
21.09.2005	Diagnose	Diagnose	Rous-Hühnersarkom-Virus
	Status	Status	Kopfweh, Fieber, Atmung erschwert
	Messungen	Messungen	Blutwerte
	Behandlung	Behandlung	Das "Rous-Hühnersarkom-Virus" war ungefähr ein viertel Jahrhundert hindurch das einzige klar überschaubare Beispiel einer Ansteckungsquelle für eine Krebserkrankung. In den 30er Jahren des 20. Jahrhunderts und später wurden weitere Beispiele entdeckt. Trotzdem bleibt die Sache unklar und die Untersuchung des Krebses (Onkologie) ist eine der wesentlichen Arbeitsgebiete der Medizin.

21.03.2019

1/1



## **14.2 Dossier (right-click on → Word)**

<https://ecofor.ch/files/medfasop.client.dossier.pdf>

### 14.3 Treatment history (click or right-click on → Word)

#### Behandlungszeiten Beat Heil 20.06.2023-10.02.2025

Patient	Σ Zeitaufwand	Detail
Hügli Damian Wetzikon ZH 2015	00:14:57	10.02.2025 02:52:05 Praxisbesuch 00:00:04 > Schmerzen im Unterleib
		06.02.2025 14:27:29 Praxisbesuch 00:00:21
		05.02.2025 12:45:22 Praxisbesuch 00:00:04 > Uhr läuft
		05.02.2025 08:09:35 Praxisbesuch 00:14:28 > Uhr läuft
		05.02.2025 08:09:35 Praxisbesuch 00:14:28
Hutter Erna	00:02:48	06.02.2025 16:25:42 Praxisbesuch 00:02:30 > Test für Hutter Erna
		06.02.2025 15:06:14 Praxisbesuch 00:00:18 > Test für Hutter Erna
		06.02.2025 15:06:14 Praxisbesuch 00:00:18
Marxer Paul 1975	00:00:06	09.02.2025 10:40:43 Praxisbesuch 00:00:06 > Test für Marxer Paul
		09.02.2025 10:40:43 Praxisbesuch 00:00:06
Würgler Anna Bassersdorf 2005	00:00:16	10.02.2025 02:50:29 Praxisbesuch 00:00:02 > Grippe und Masern
		06.02.2025 16:15:21 Praxisbesuch 00:00:11
		20.06.2023 10:17:29 Praxisbesuch 00:00:03
		20.06.2023 10:17:29 Praxisbesuch 00:00:03

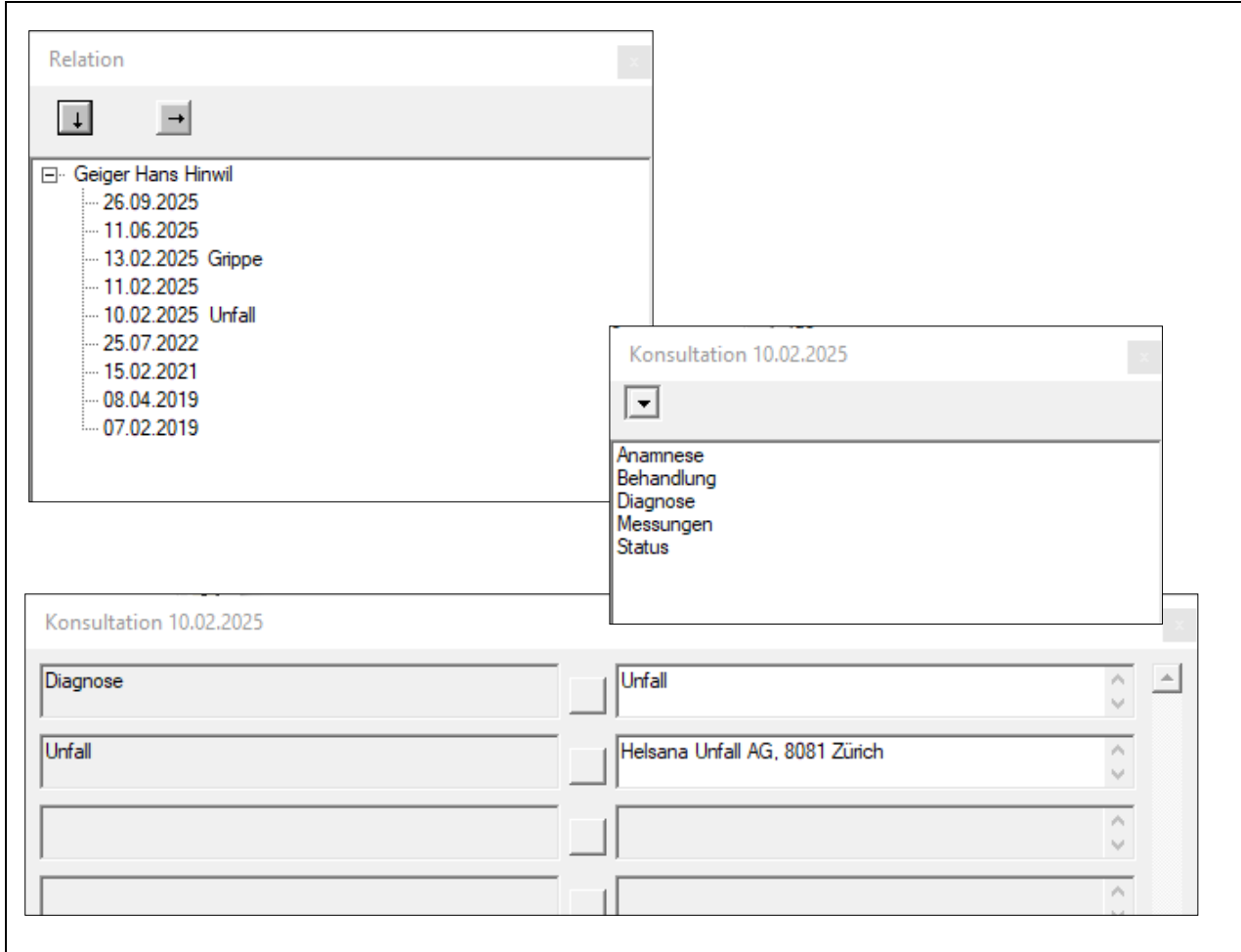
10.02.2025

1/1

## 15 Application example: Accident

The first consultation regarding the accident took place on February 10, 2025. In the Diagnosis section, the insurer was entered first in line "0.1 Accident," which automatically affects TARDOC for all group members ( → p. 62). Whenever a new consultation related to this event is opened later, it should be immediately linked to the first consultation. In this example, this is done retrospectively for demonstration purposes.

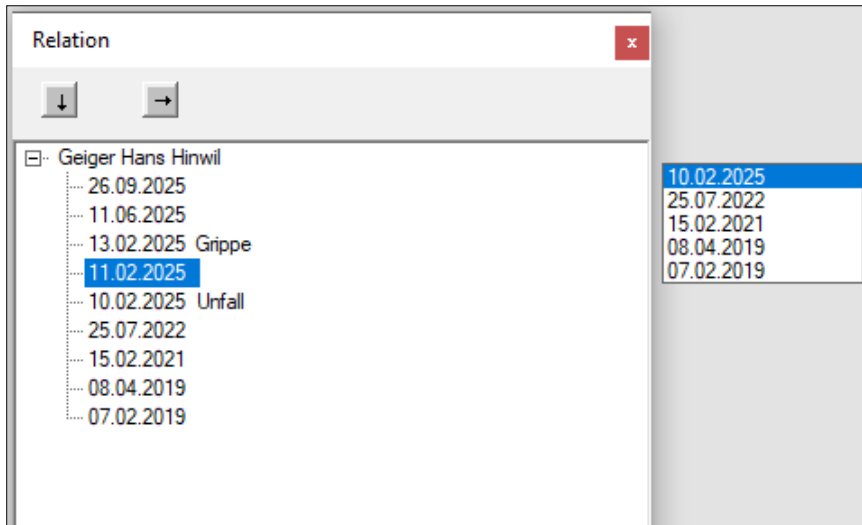
Picture 1 shows the situation without links, but using position «0.1 Accident» in the Diagnosis chapter.



The screenshot displays the MEDFASOP interface. At the top left, a 'Relation' window shows a list of dates and events for 'Geiger Hans Hinwil': 26.09.2025, 11.06.2025, 13.02.2025 Grippe, 11.02.2025, 10.02.2025 Unfall, 25.07.2022, 15.02.2021, 08.04.2019, and 07.02.2019. Below this, a 'Konsultation 10.02.2025' window is open, showing a list of medical history items: Anamnese, Behandlung, Diagnose, Messungen, and Status. At the bottom, a 'Konsultation 10.02.2025' form is visible, with fields for 'Diagnose' (containing 'Unfall') and 'Unfall' (containing 'Helsana Unfall AG, 8081 Zürich').

**Picture 1 Situation without link**

Following the accident, all subsequent appointments, except for the one for "flu," were also related to the accident. However, this is not apparent without linking the accident treatments ( → Picture 1). Therefore, all accident treatments are now being linked ( → Picture 2 using the example "11.02.2025").

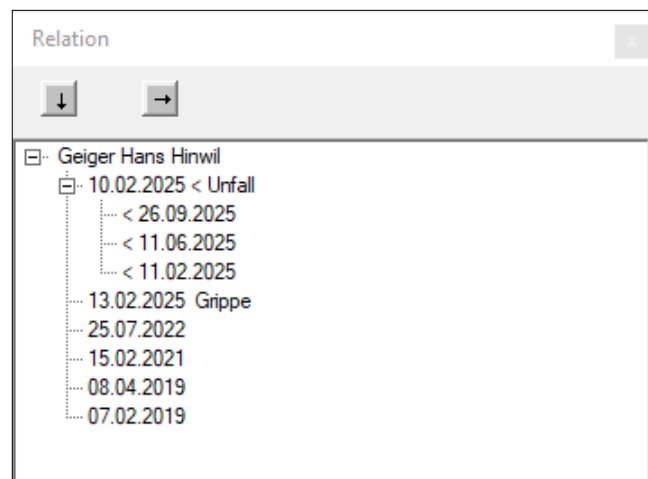


For 11.02.2025, either right-click → "Link to ->" or <sup>102</sup>use a hotkey. Then click 10.02.2025 in the small window.

**Picture 2 Link**

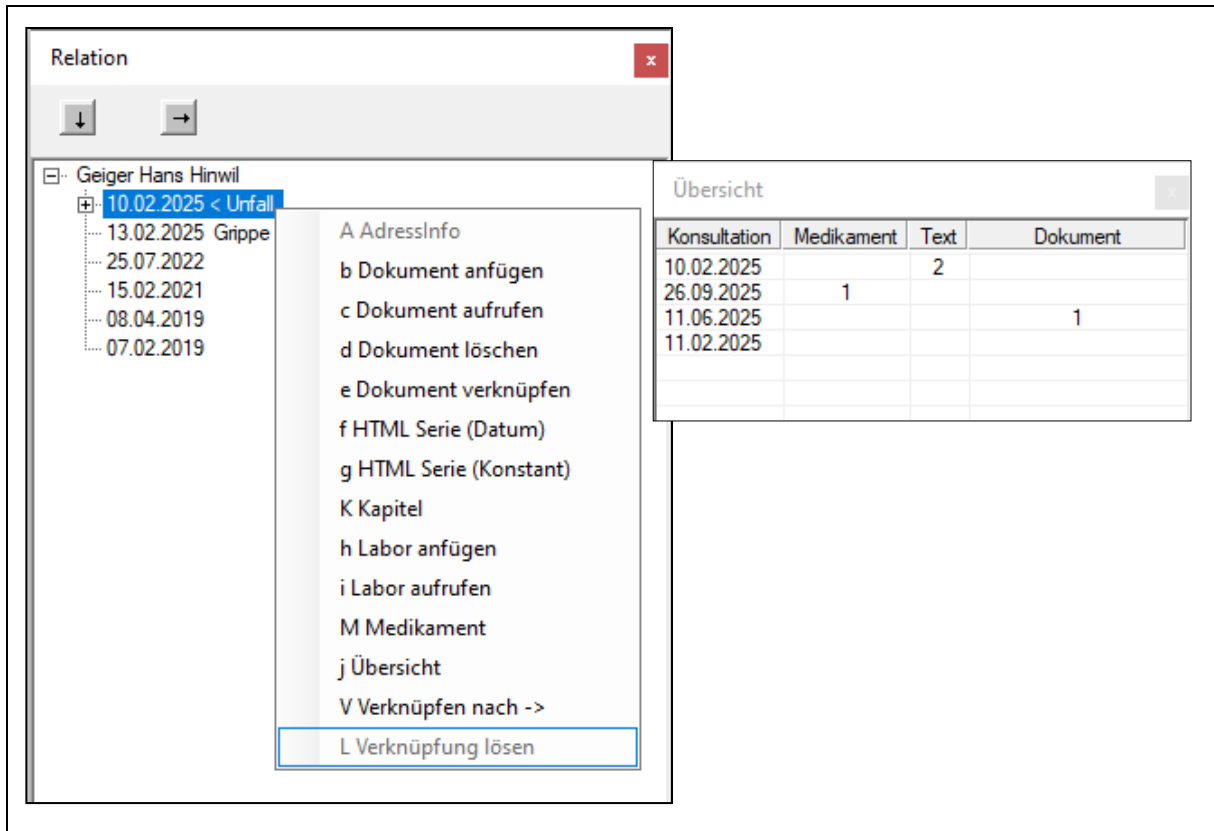
After "11.06.2025" and "26.09.2025" were also linked, "10.02.2025" contains all treatment dates for the accident (→ Picture 3 and Picture 4).

After clicking on the [+] of the node or double-clicking on the group, all treatment appointments are visible.



**Picture 3 Node opened in accident**

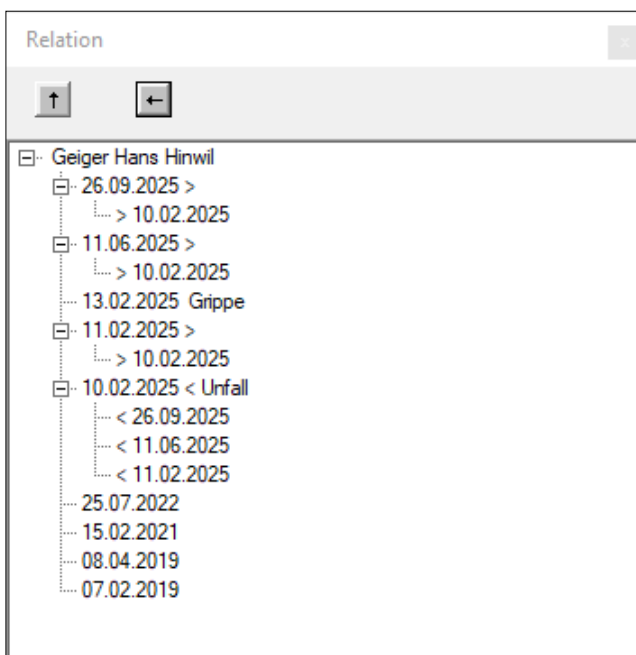
<sup>102</sup>[V] as hotkey as shown in Picture 4.



Picture 4 Node accident closed

After right-clicking on node 10.02.2025 and selecting "Overview", <sup>103</sup>all consultations of the group are evaluated. Details can also be accessed from the overview by right-clicking.

The two arrows in the form header have the following effect in the present situation:

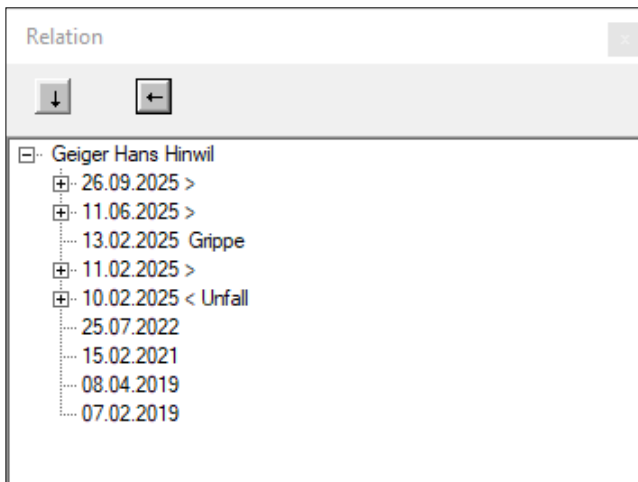


Picture 5 Both arrows clicked

(a) Click both arrows!

The date is displayed in descending order, as if there were no link. However, it shows the details.

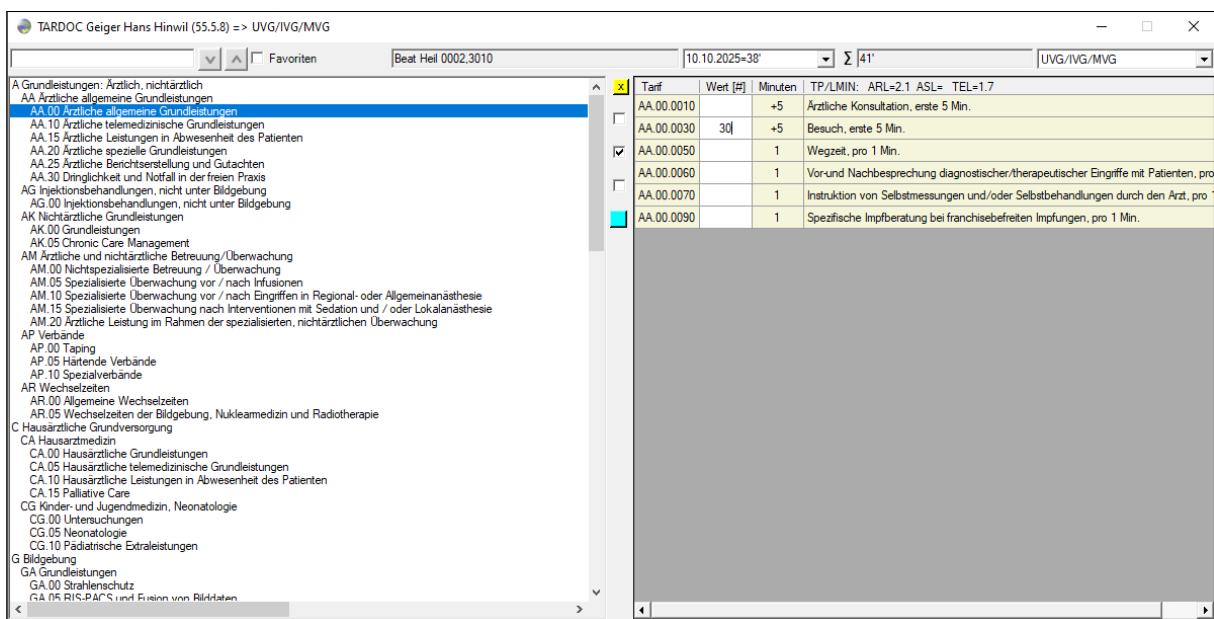
<sup>103</sup>Clicking on the node and entering [J] achieves the same result.



(b) Right arrow clicked!  
Date in descending order, as if there were no link.

Picture 6 Right arrow clicked

## 15.1 TARDOC



Picture 7 Invoice 10.02.2025

When TARDOC is accessed, if the "Diagnosis" section in the "0.1 Accident" row contains an entry, the tariff area "UVG/IVG/MVG" is automatically determined ( → excerpt in Picture 8). The entry is also displayed in the generated report (HTML or Word) ( → Picture 9). This applies automatically to all group members.

10.10.2025=38' <span>Σ</span> 41' UVG/IVG/MVG				
<input checked="" type="checkbox"/>	Tarif	Wert [#]	Minuten	TP/LMIN: ARL=2.1 ASL= TEL=1.7
<input type="checkbox"/>	AA.00.0010		+5	Ärztliche Konsultation, erste 5 Min.
<input type="checkbox"/>	AA.00.0030	30	+5	Besuch, erste 5 Min.
<input checked="" type="checkbox"/>	AA.00.0050		1	Wegzeit, pro 1 Min.
<input type="checkbox"/>	AA.00.0060		1	Vor-und Nachbesprechung diagnostischer/therapeutischer Eingriffe mit Patienten, pro
<input type="checkbox"/>	AA.00.0070		1	Instruktion von Selbstmessungen und/oder Selbstbehandlungen durch den Arzt, pro
<input checked="" type="checkbox"/>	AA.00.0090		1	Spezifische Impfberatung bei franchisebefreiten Impfungen, pro 1 Min.

Picture 8 Tariff area

TARDOC per 26.10.2025 13:19

UVG/IVG/MVG

Rechnungsadresse

Helsana Unfall AG, 8081 Zürich

Hans Geiger  
Hilpertweg 20  
8340 Hinwil

Patient [männlich] AHV

Datum

ΣUhr

ΣZeit

Delta Arzt

Geiger Hans (55.5.8) 756.0347.0856.25 10.10.2025 38' 30' -8 Beat Heil 0002,3010

Picture 9 Evaluation HTML