



# MedITEX IVF Release Notes

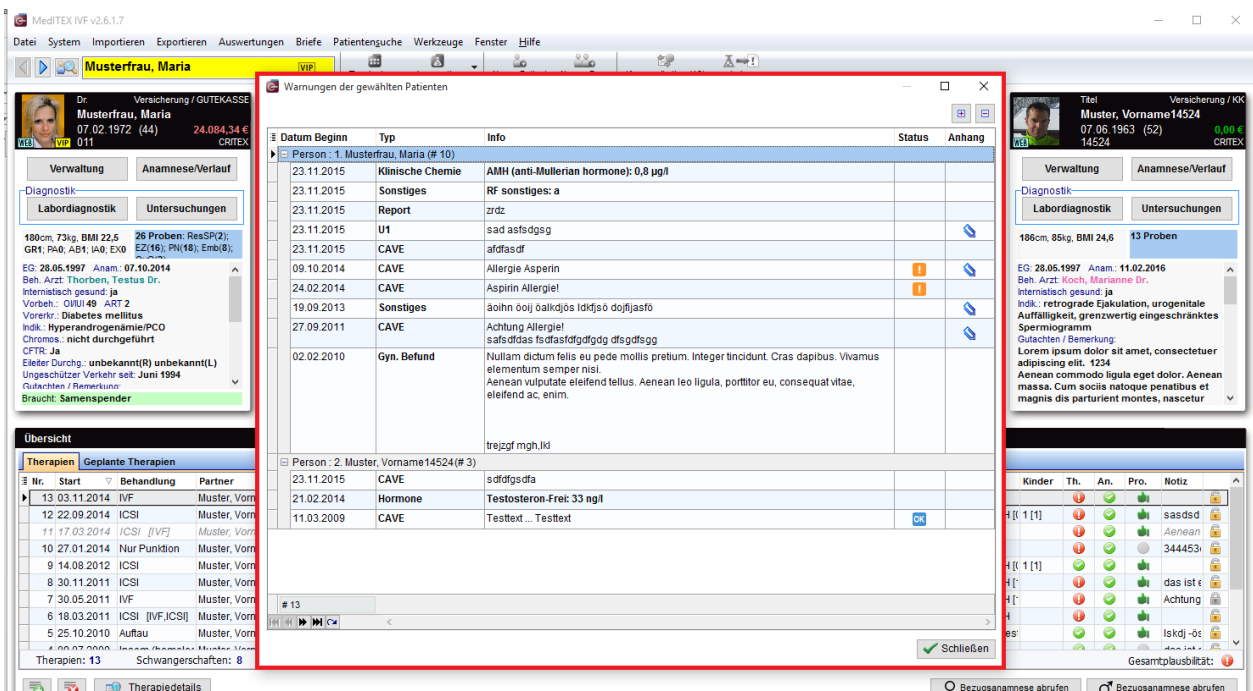
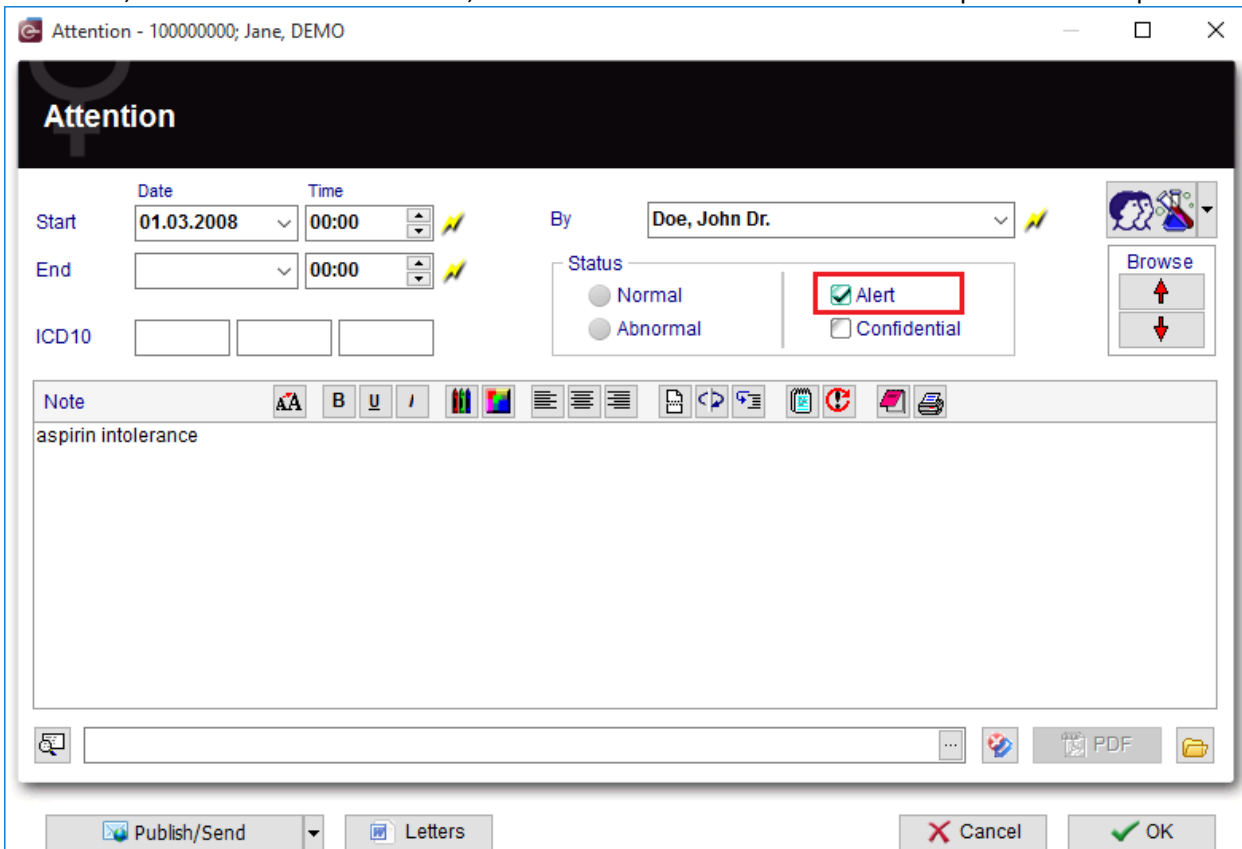
## Version 2.6.1

### Features

#### 1) Standard entry mask

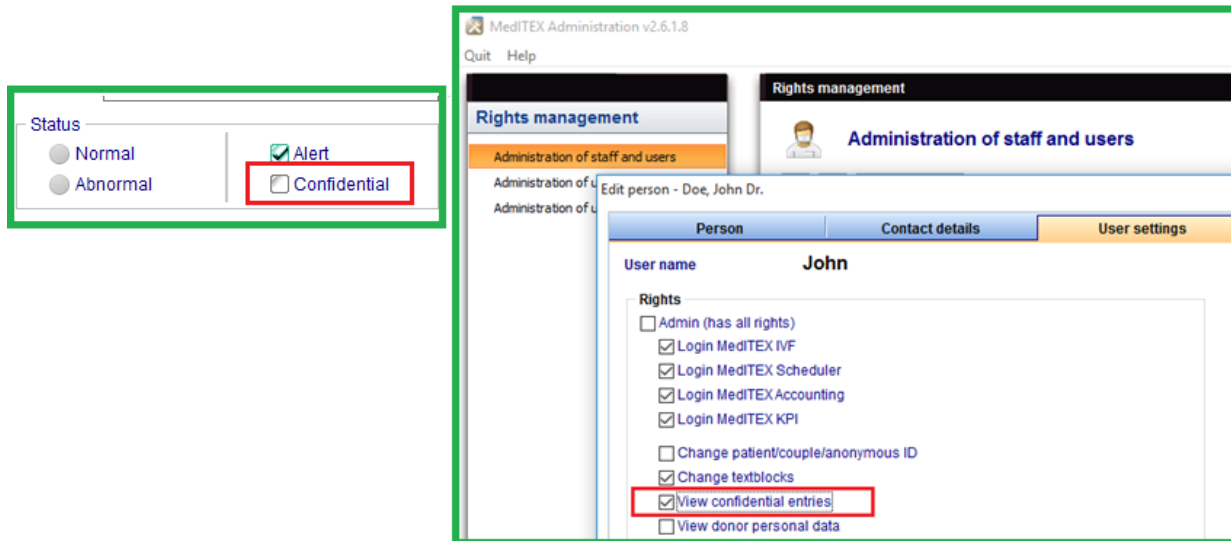
##### a. Alerts

All entries, which have "Alert" checked, will be shown in an extra window when patient file is opened.



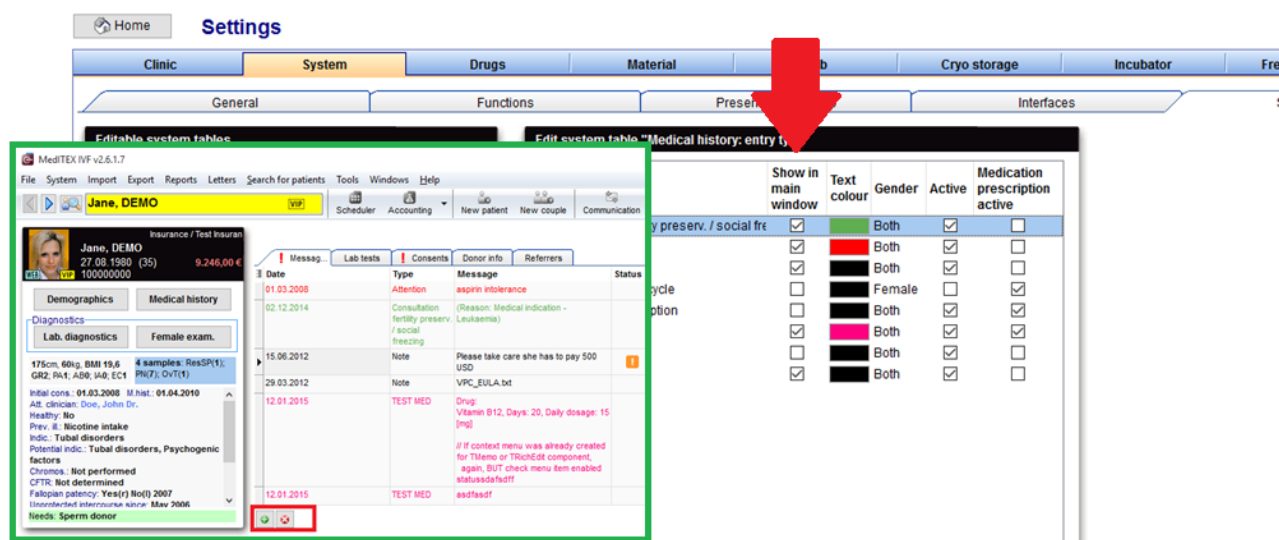
**b. Confidential entries**

The new checkbox “Confidential” is visible for users who have the corresponding right. Also only those users are able to see and open the entries where “Confidential” box is ticked.



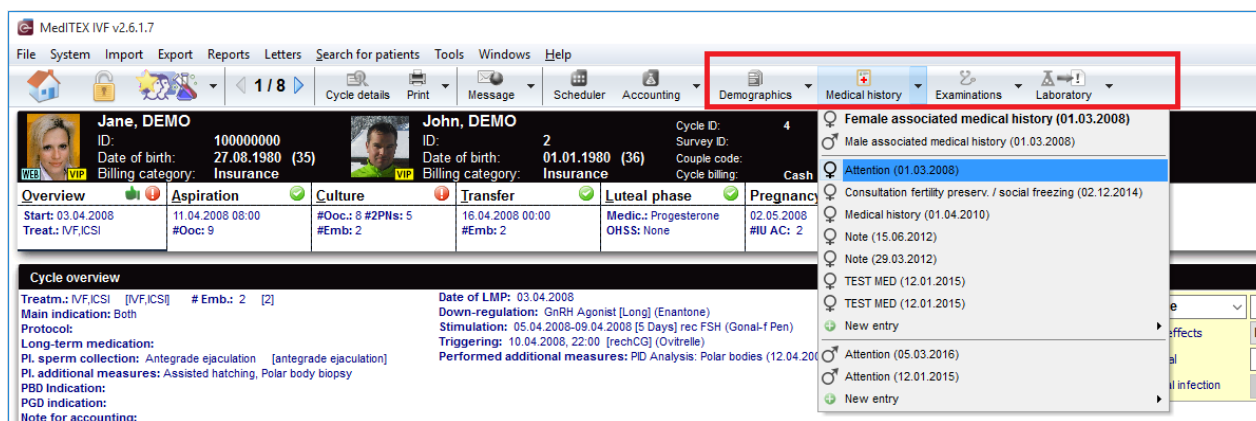
**c. New entries from main window**

From the main window tab “Messages”, new entries can be created (only the ones defined in the settings to be visible in main window).



**d. Open entries from cycle details**

All entries are accessible in Cycle view through the toolbar buttons.



## 2) Cycle

### a. Planning

#### **Group templates**

Templates can be grouped, which helps to have a better overview of the templates.

The screenshot shows the MedITEX IVF v2.6.1.7 software interface. The top menu bar includes File, System, Import, Export, Reports, Letters, Search for patients, Tools, Windows, and Help. The main window displays patient information for Jane, DEMO and John, DEMO. Below this is the 'Calendar' section, which includes a 'Cycle plan' table with columns for days 1 through 18. The table shows medication dosages (Gonal-F [IU], Ovitrelle [µg]) and lab diagnostics (FSH, LH, E2) and ultrasound (Follicle US) scheduled for various days. A dialog box titled 'Edit template name / group' is open, showing the name 'Gon-F 12' and a dropdown menu for 'Group' with options 'Long protocol' and 'Short protocol'. A 'Save as new template' menu is also visible, with 'Edit template name / group' highlighted in red. The bottom status bar shows 'Clinic: CRITEX GmbH' and 'User: ivf, ivf'.

#### **Copy dosages**

Clicking on the cell with dosage filled in and then Ctrl clicking on another cell in the same line will copy the value from the first cell to all cells in between (like in stimulation area of the cycle).

The screenshot shows the MedITEX IVF v2.6.1.7 software interface, similar to the previous one. The 'Calendar' section is visible, showing the 'Cycle plan' table. A red arrow labeled '1' points to the cell containing the dosage '150' for Gonal-F [IU] on day 1. Another red arrow labeled '2' points to the cell containing the dosage '300' for Gonal-F [IU] on day 12. A green box labeled 'Ctrl Key' is positioned below the second arrow, indicating the key used to copy the dosage from the first cell to the second cell. The bottom status bar shows 'Clinic: CRITEX GmbH' and 'User: ivf, ivf'.

## Edit drug

With double click on a drug name, it is possible to choose a different drug from the same application domain.

The screenshot shows the MedITEX IVF v2.6.1.7 interface. The 'Calendar' view displays a table with columns for 'Medication', 'Ordered', 'Dosage frequ', and 'Cycle plan' (1, 2). The 'Medication' table lists 'Gonal-f [IU]', 'Ovitrelle [µg]', 'FSH', 'LH', 'E', and 'Folli'. A red arrow points to the 'Gonal-f [IU]' entry. A 'Drug selection' dialog box is open, showing 'Gonal-f' selected with an application domain of 'Stimulation'. The dialog also includes fields for 'Time', 'Dosage frequency', 'Presentation form', 'Injection', and 'Packaging'.

## Take over of all drugs to the cycle

On generating the cycle, drugs which have no dosage filled in, will also be taken over.

The screenshot shows the 'Calendar' view with a 'Cycle plan' grid. The 'Medication' table is highlighted with a red box, showing 'Gonal-f [IU]' and 'Ovitrelle [µg]' with dosages filled in for cycles 1 through 17. The 'Lab diagnostics' table below it shows various tests like FSH, LH, and Progesterone (P) scheduled for specific days in the cycle.

## b. Cycle overview in main window

New columns were added to the cycle overview grid of main window.

The screenshot shows the main window of MedITEX IVF v2.6.1.7. The 'Cycle overview' grid is visible, showing a list of cycles with columns for 'Date', 'Stimulation', 'Str.', 'Stim. med.', 'Triggerin', 'Trig. med.', 'Cycle', 'Cryo', 'PG', 'Children', 'Cyc.', 'Med.', 'Pro.', and 'Note'. A red box highlights the 'Stimulation' column. The 'Messages' and 'Lab tests' panels are also visible, showing patient history and test results.

**c. Link documents to a cycle**

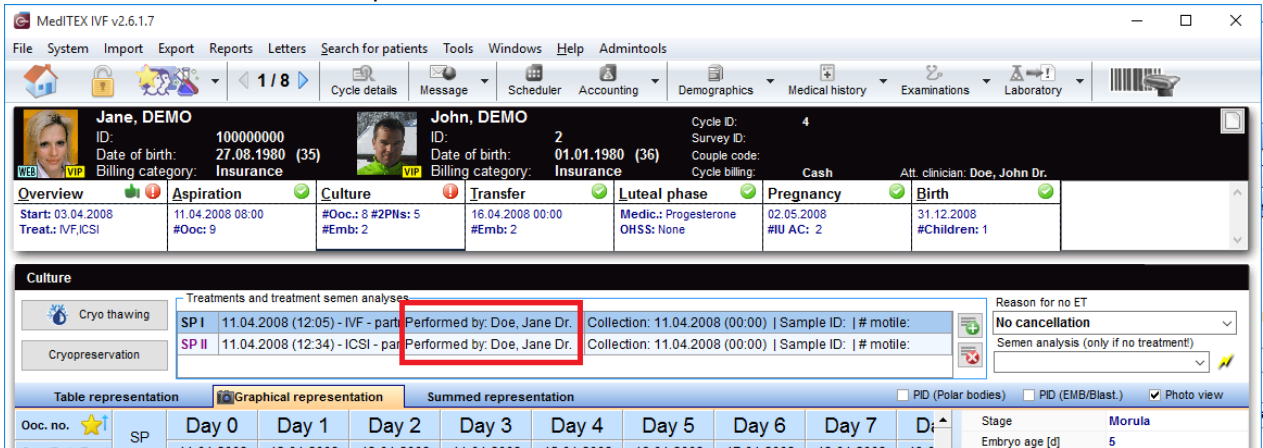
Using the new tab sheet "Documents", documents can be added to the cycle by dragging & dropping into the container area. All linked documents will also be shown in demographics document section.

**d. Follicle ultrasound**

You can switch between graphical and numerical view. The graphical view will show maximum 3 dots for follicles per size/side.

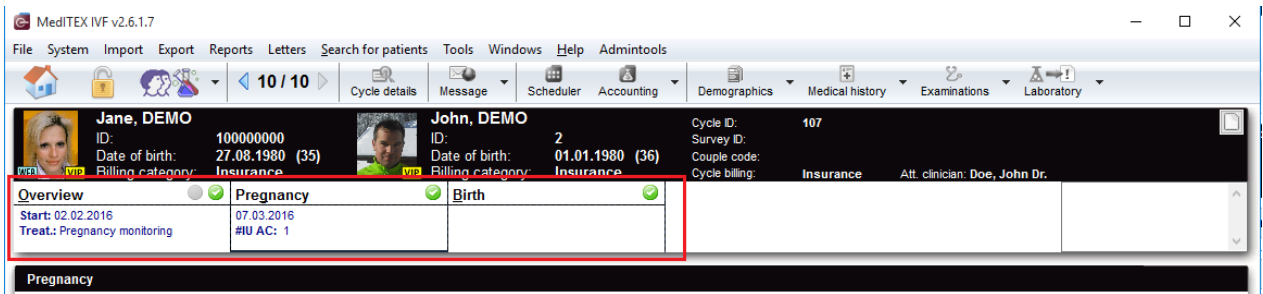
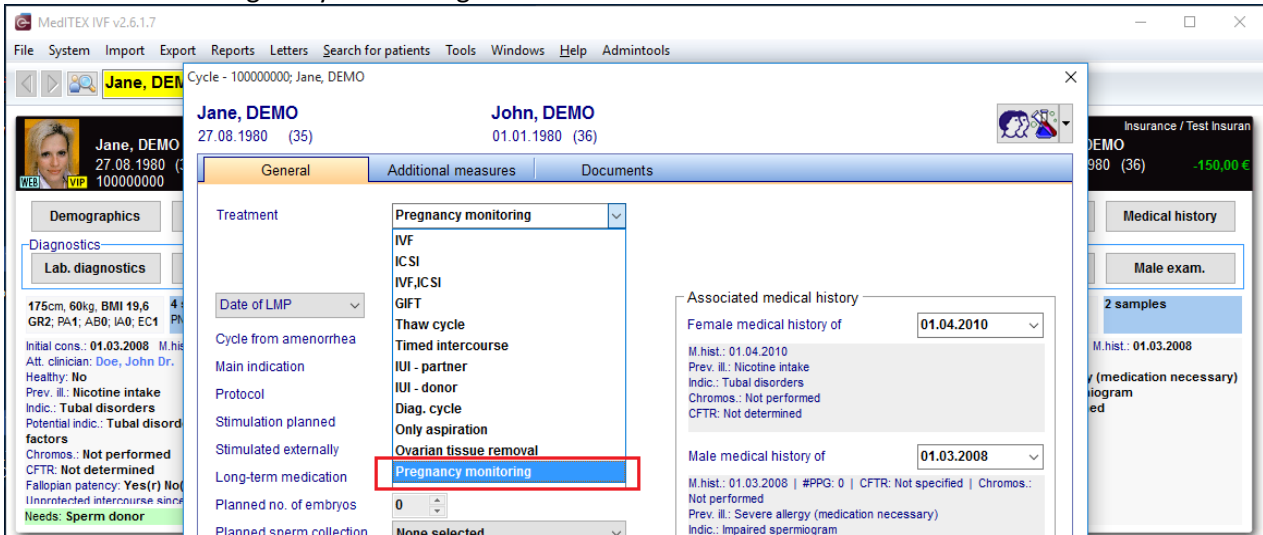
**e. IVF / ICSI performed by**

In culture it is now visible who performed the IVF or ICSI.



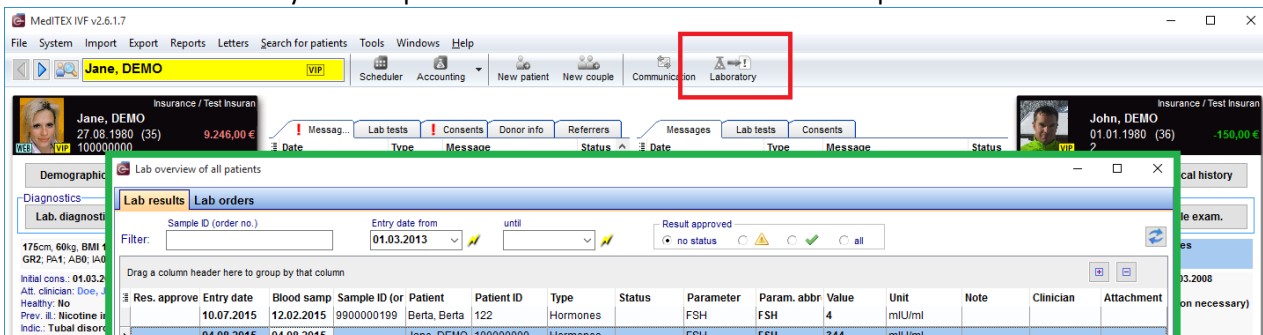
**f. Pregnancy monitoring**

New treatment "Pregnancy monitoring" is now available.



**3) Laboratory overview**

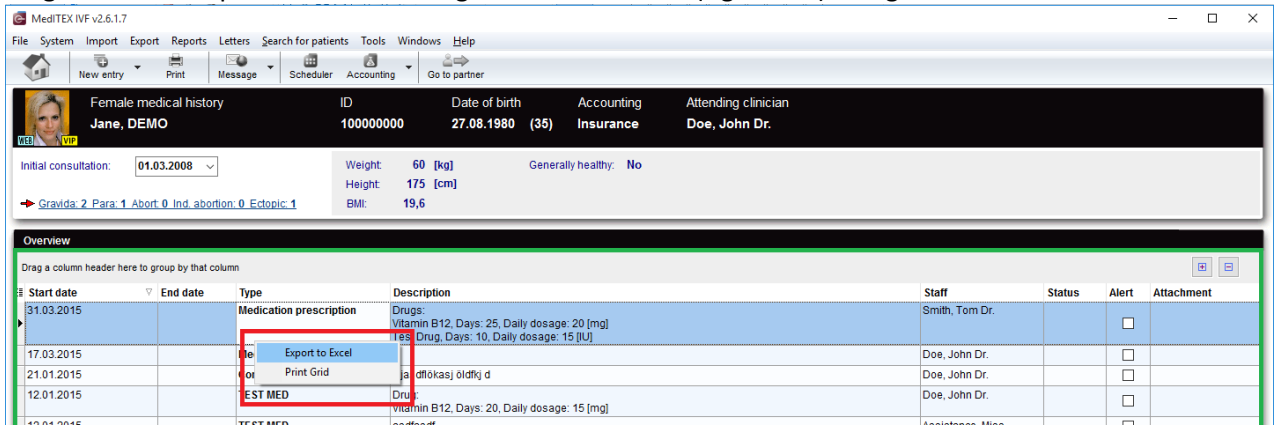
From the main window you can open an overview of all lab results for all patients.





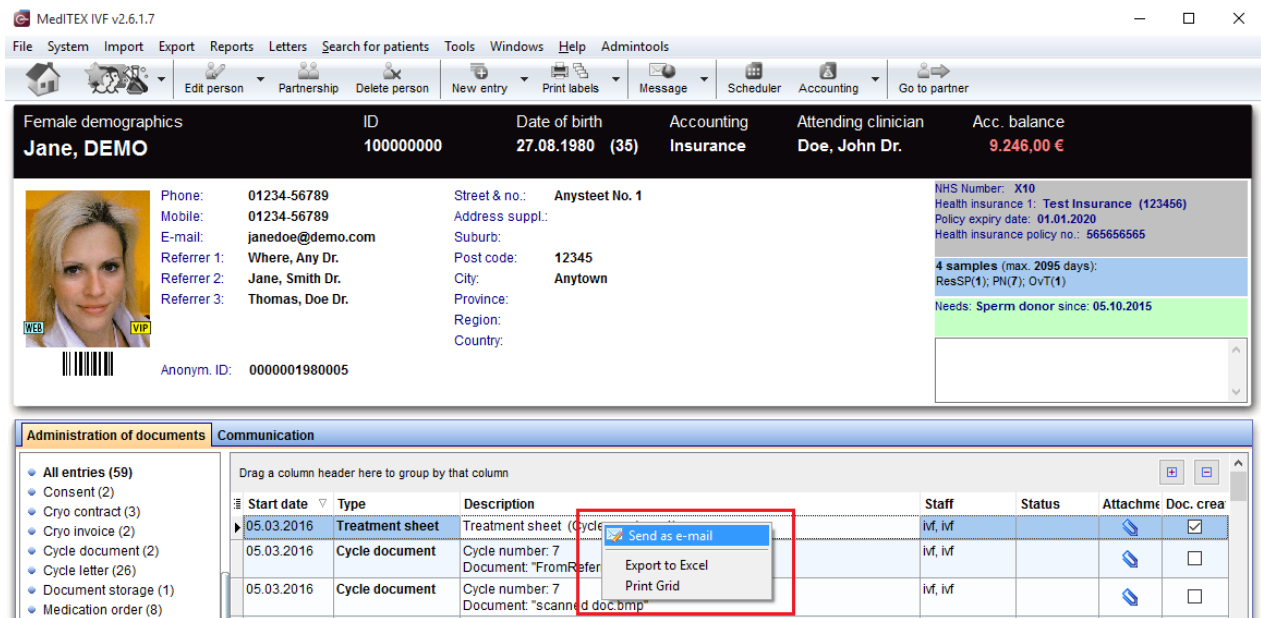
4) **Export grids to Excel**

All grids can be exported to Excel using the context menu (right click) of a grid.



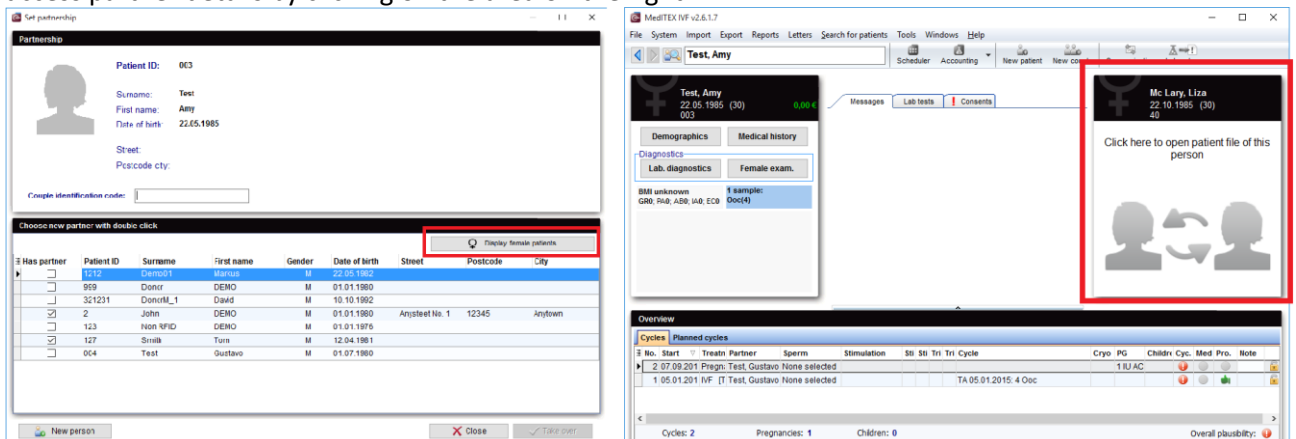
5) **Send file per e-mail**

In demographics document section, it is possible to create a new e-mail over the context menu if an e-mail client is installed.



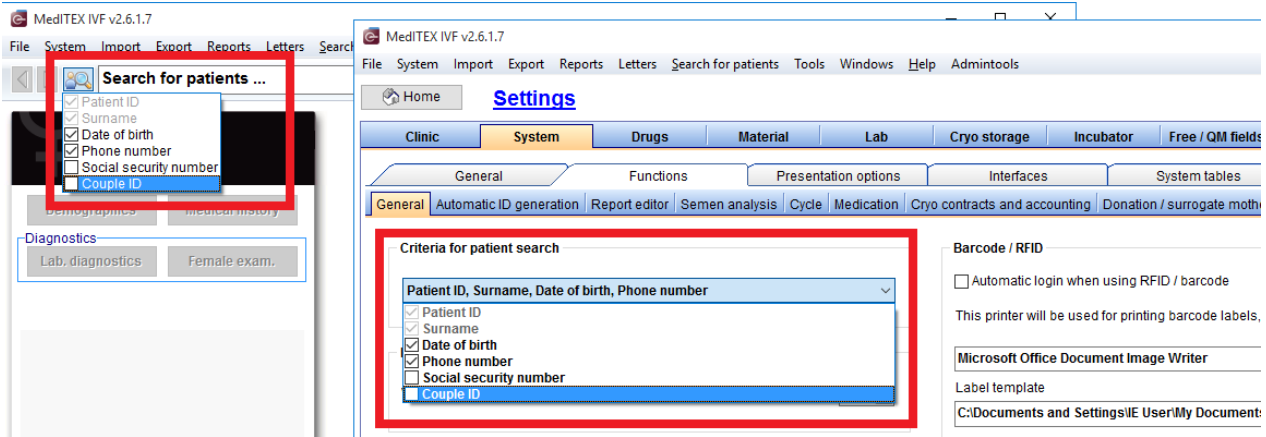
6) **Same sex couple**

In Demographics – Partnership it is possible to link two women together. In the main screen you can access partner details by clicking on the area on the right.



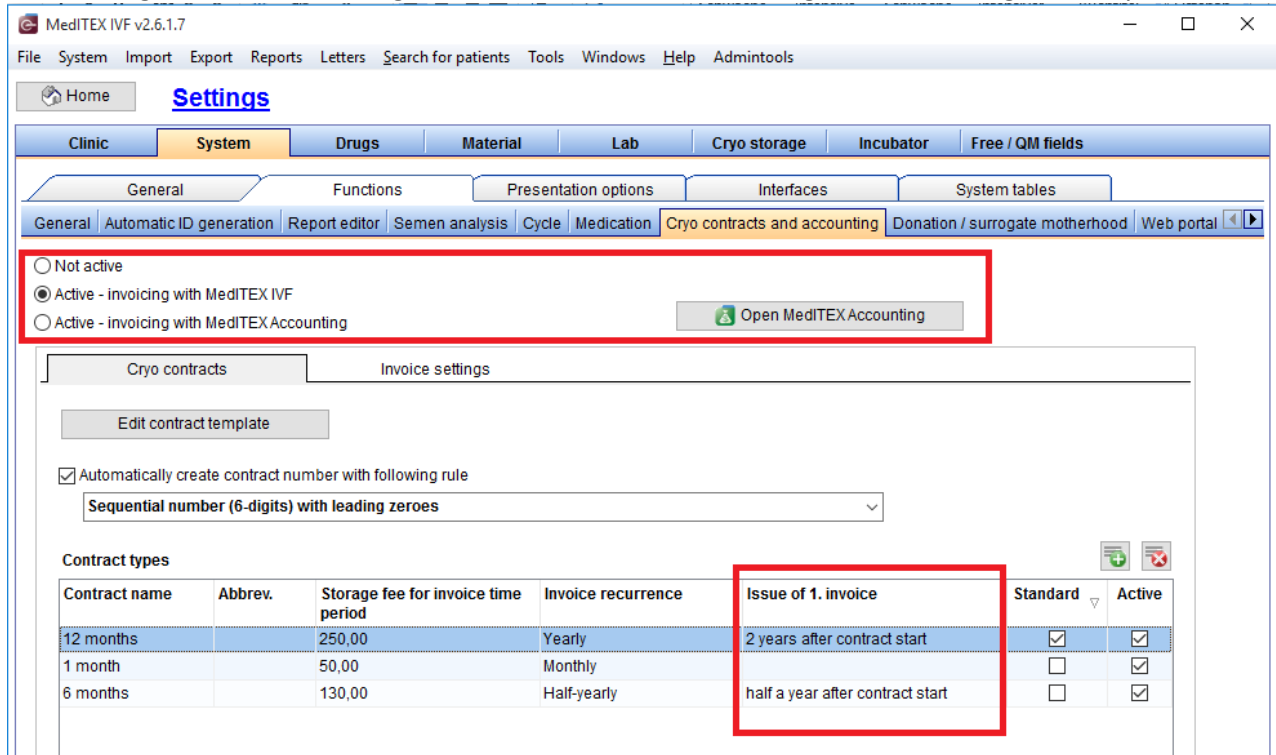
7) **Patient search criteria**

Patient search criteria can be changed. The defaults can be defined in the settings.

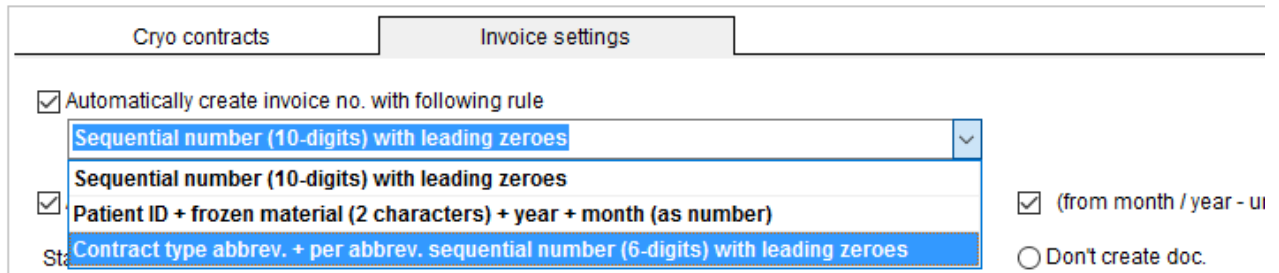


8) **Cryo contract management**

It is possible to define the due time for the first invoices in the settings or in the contract. This is helpful for all who cover the first storage period with a separate freezing / cycle invoice. Clinics using MedITEX Accounting, can activate MedITEX Accounting for the invoicing of the cryo invoices.



A new invoice rule is available, which uses contract type abbreviation and for each abbreviation a sequential number.

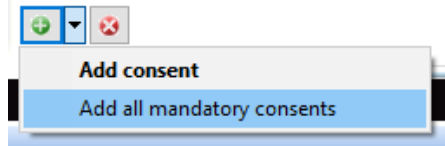




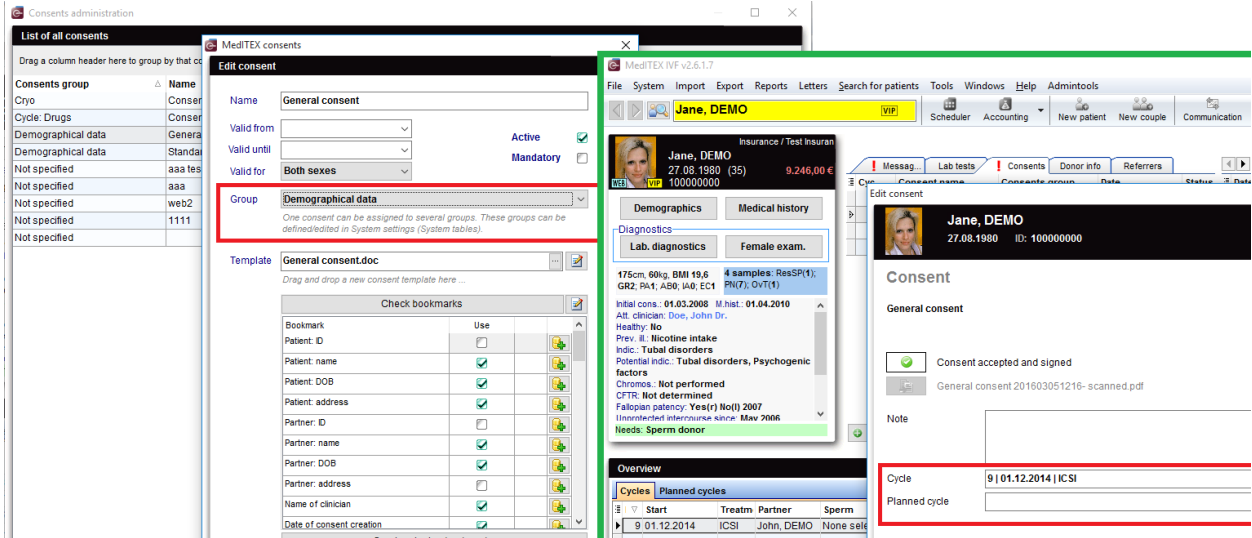
9) **Consent**

Consent administration: a consent template can be assigned to several groups.

The user can create several consents for a patient at the same time, by multi selecting them in create window or through option "Add all mandatory consents".

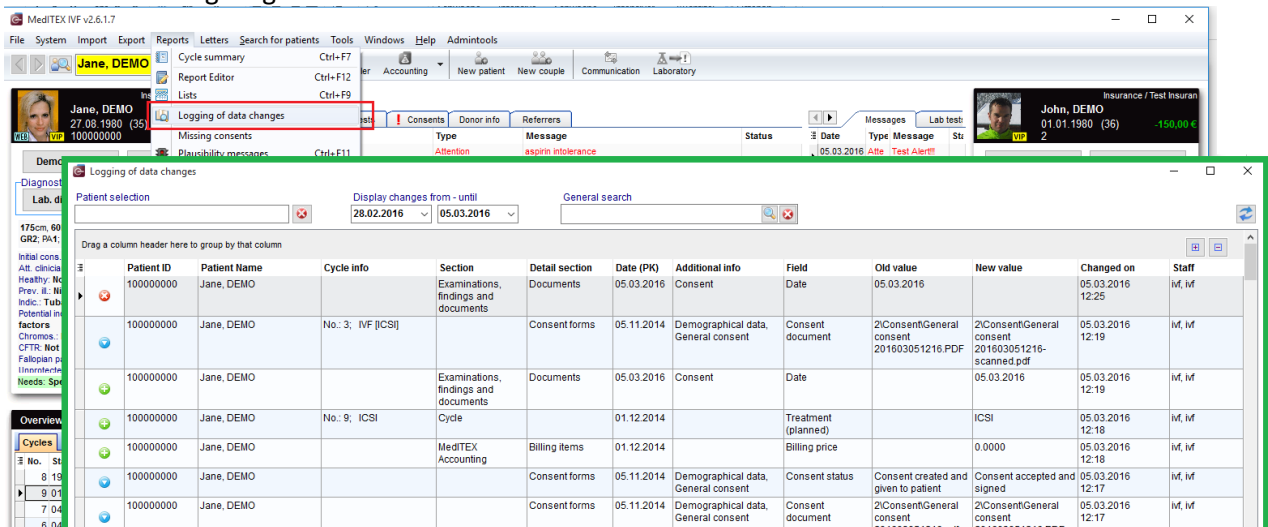


Each consent can be linked to a specific cycle.



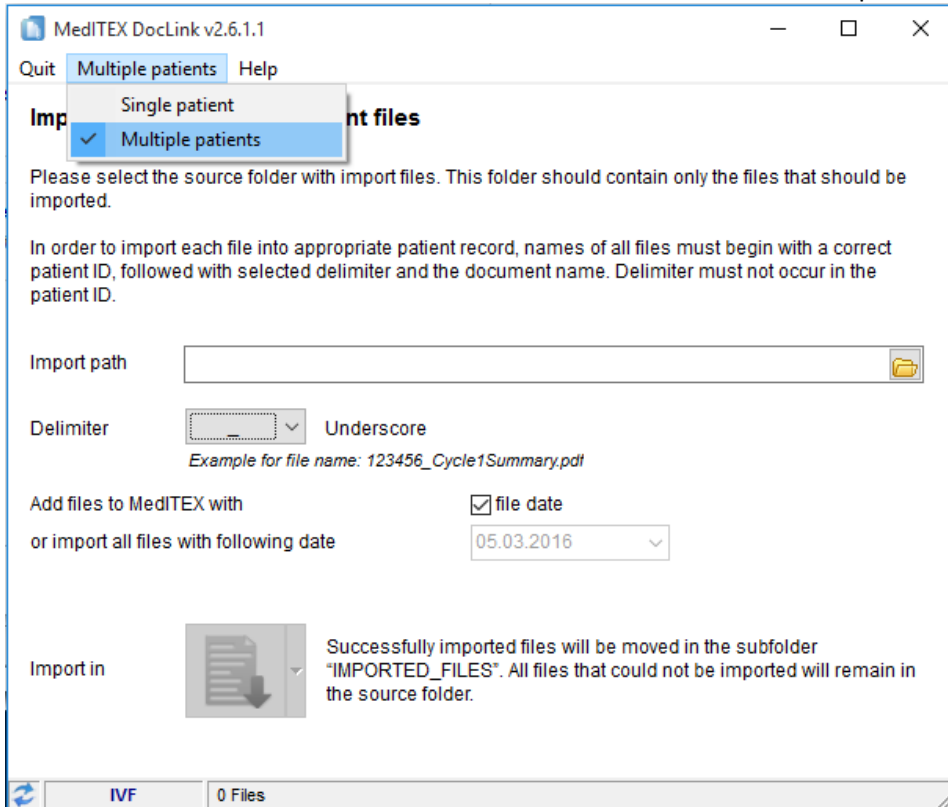
10) **Logging of data changes**

View of the change log has been revised.



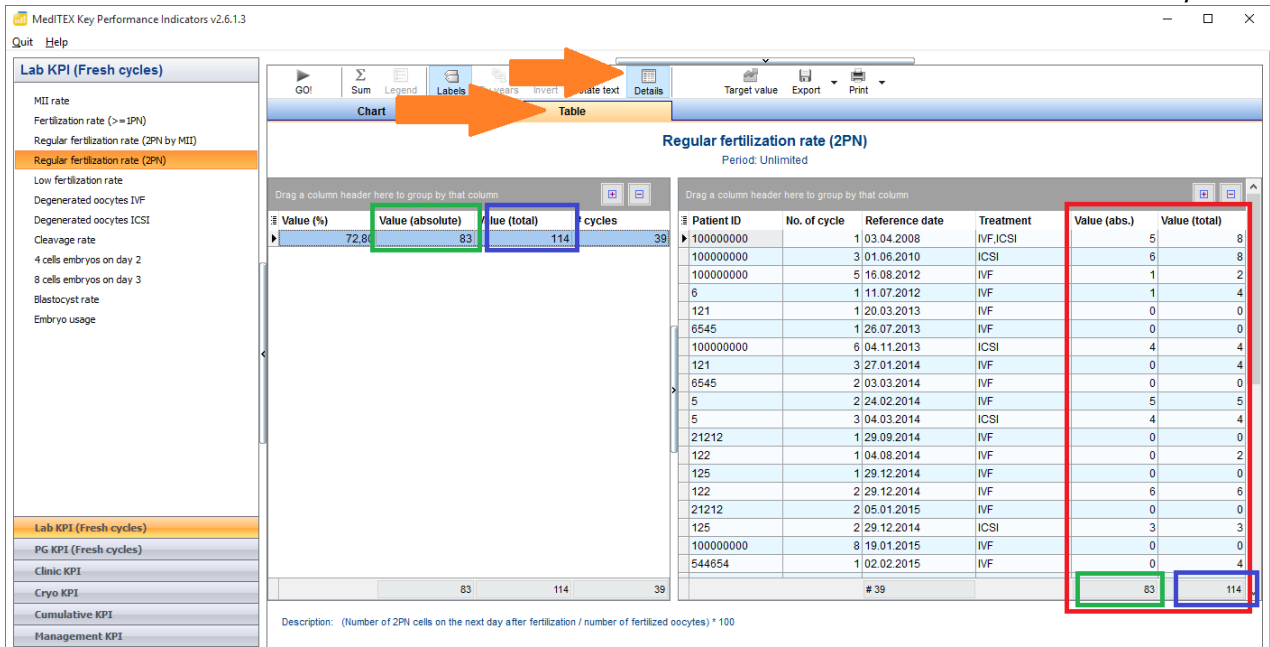
11) **MedITEX Doc Link**

It is possible to import multiple files into different patient records at the same time. To use this function, all files must be in one folder and filenames must start with the correct patient IDs.



12) **MedITEX KPI**

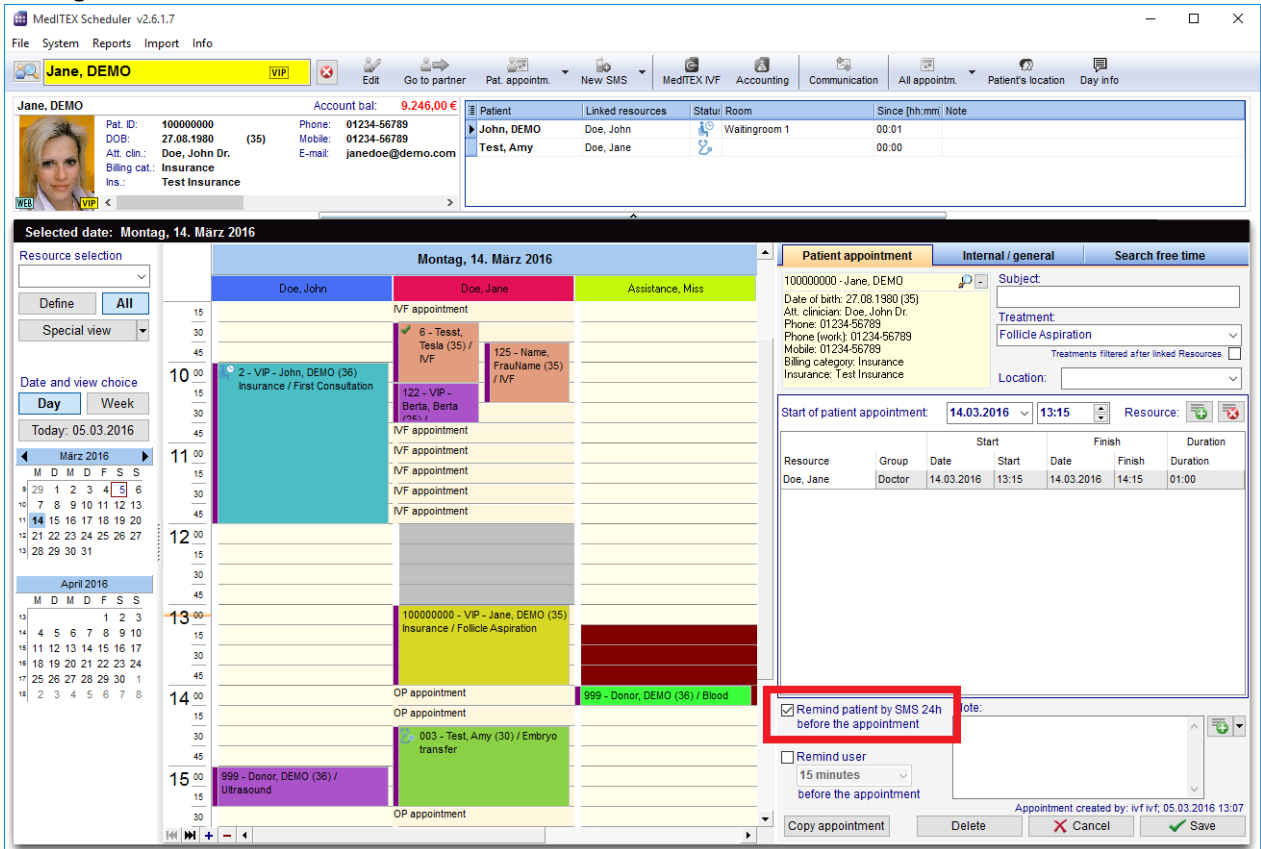
The detail table was extended with two columns to show the absolute and total numbers of each cycle.



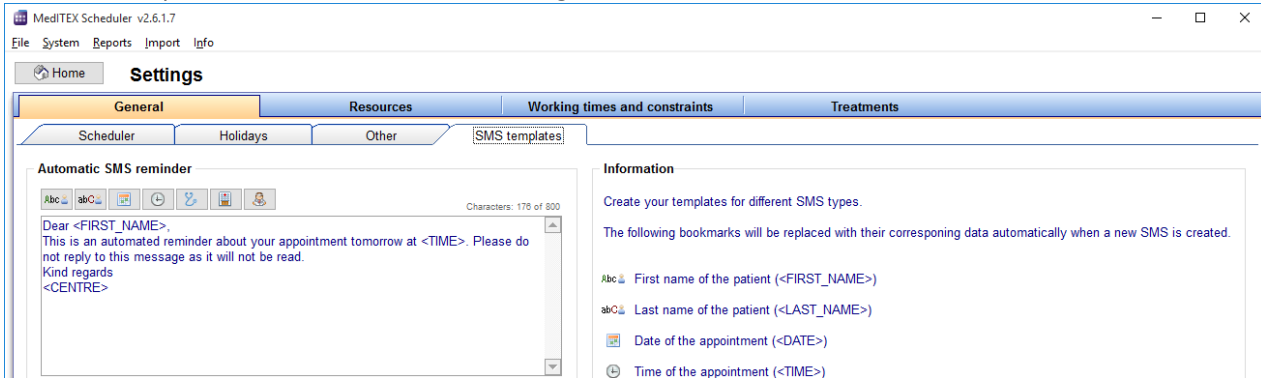
### 13) MedITEX Scheduler

#### SMS

The SMS functionality was extended with the automatic appointment reminder. In the appointment edit mask a checkbox is available to activate the reminder, which can also be predefined in the treatment settings.

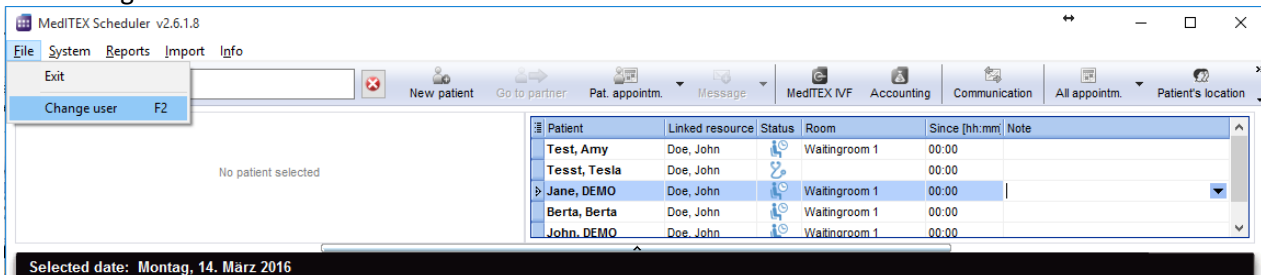


The SMS template can be defined in the settings.



#### User change

It is now possible to change the user in MedITEX Scheduler. The short cut „F2“ can also be used for the user change.



## Visit documentation

The first time an appointment gets the status "Patient in waiting room" or "App. starts / patient in treatment" this appointment will get a visit number and the timestamp is recorded. These new fields can be viewed in the appointment list.

Date	From [h:mm]	To [h:mm]	Patient	Treatment	Patient / appoint. status	Related resources	Waiting time [min]	Treatment time [min]	Visit date	Visit arrival time	Visit documented by	Visit no. (per day)	Visit no. (total)	App. created on	Created by
05.03.2016	11:00	11:45	Jane DEMO; ID: 100000000	IVF	Appointment finished	Doe, John	9	9	05.03.2016	13:33	Smith, Tom Dr.	8	15	05.03.2016 13:14	ivf, ivf
05.03.2016	11:00	11:45	John DEMO; ID: 2	IVF	Treatment cancelled	Doe, Jane	15	15	05.03.2016	13:15	Smith, Tom Dr.	5	12	05.03.2016 13:14	ivf, ivf
05.03.2016	12:00	12:30	Berta Berta; ID: 122	Ultrasound	Appointment finished	Doe, John	14	14	05.03.2016	13:18	C., Mary	7	14	05.03.2016 13:15	ivf, ivf
05.03.2016	13:00	14:00	Test Mary; ID: 121	Embryo transfer	Patient in treatment	Doe, John	5	5	05.03.2016	13:18	C., Mary	6	13	05.03.2016 13:15	ivf, ivf
05.03.2016	13:15	15:15	Test DEMO; ID: 6545	First Consultation	Patient in treatment	Doe, Jane	6	6	05.03.2016	13:15	C., Mary	4	11	05.03.2016 13:15	ivf, ivf
05.03.2016	15:15	15:45	Demo Tina; ID: 1111	Ultrasound		Doe, John								05.03.2016 13:48	C., Mary

## Access rights

Additional access rights have been introduced in MedITEX Scheduler, they can be defined in MedITEX Administration.

**Administration of user rights**

Select a user or a user group in the left panel, and assign rights to various sections and subsections on the right, using the right mouse button.

User groups and individual users who are not assigned to a group

- Full control
- Only patient data
- Read only on all sections
- Anesthesiologist, Mr (user78)
- C., Mary (Mary)**
- Smith, Tom (tom)
- Test, Test (test)

**Administration of rights for user "C., Mary (Mary)"**

You can change rights of selected section over right click of your mouse.

Program section	Access right	Can unlock data
<b>MediTEX IVF</b>		
Cryo	Full access	Can unlock data
Cycle	Full access	Can unlock data
Reports and export	Full access	Can unlock data
Settings	No access	Can unlock data
Clinics, referring doctors and insurance c	Full access	Can unlock data
Demographics	Full access	Can unlock data
Donation	Full access	Can unlock data
Examinations, findings and documents	Full access	Can unlock data
Lab diagnostics and semen analysis	Full access	Can unlock data
Medical histories	Full access	Can unlock data
<b>MediTEX Scheduler</b>		
Appointments	Full access	Can unlock data
Own appointments	Full access	Can unlock data
Other appointments	Full access	Can unlock data
Settings	Full access	Can unlock data
MediTEX Accounting	Full access	Can unlock data
Settings	Full access	Can unlock data

For the selected user or usergroup, set rights for all sections to:

- Full access to all sections
- Read only for all sections
- No access for all sections

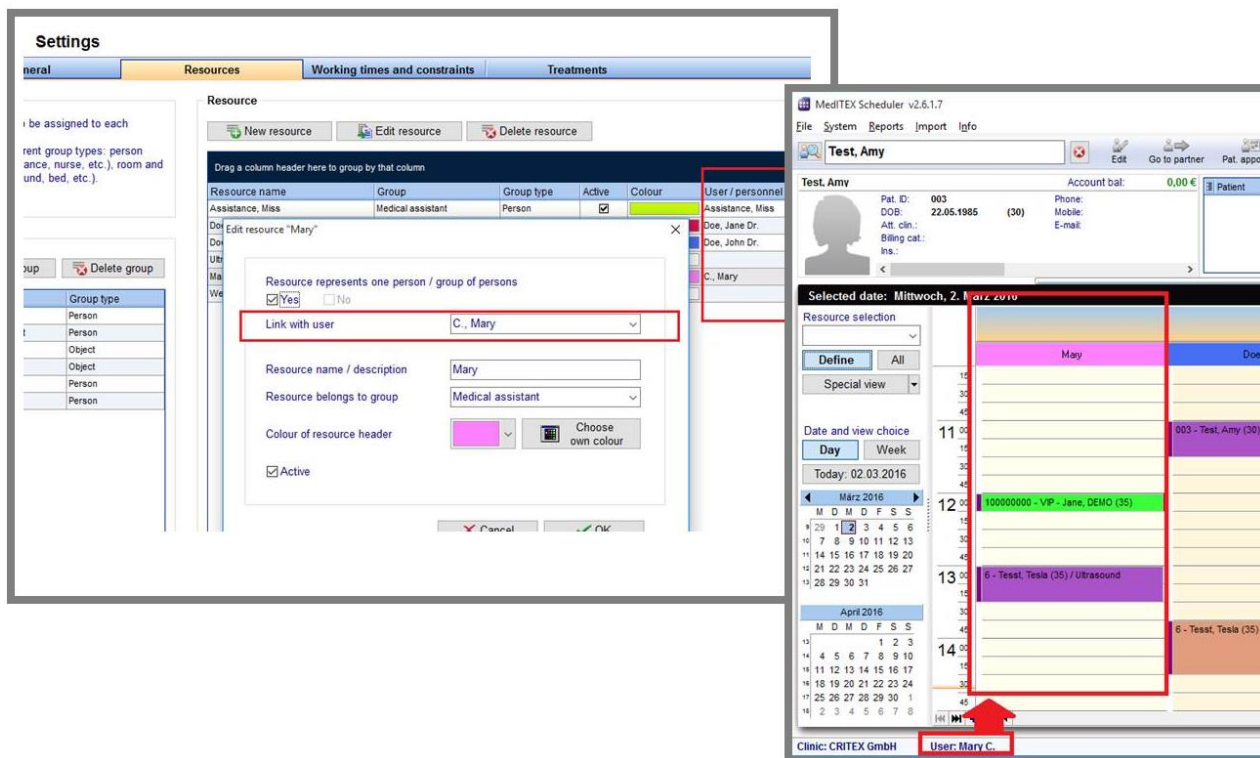
Please note:  
If a user has no access to at least one section, the right to sections "Reports and export" will automatically be set to "no access". (Except section(s) "Settings".)

Admins have all rights. Therefore users with admin right are not visible in this section.

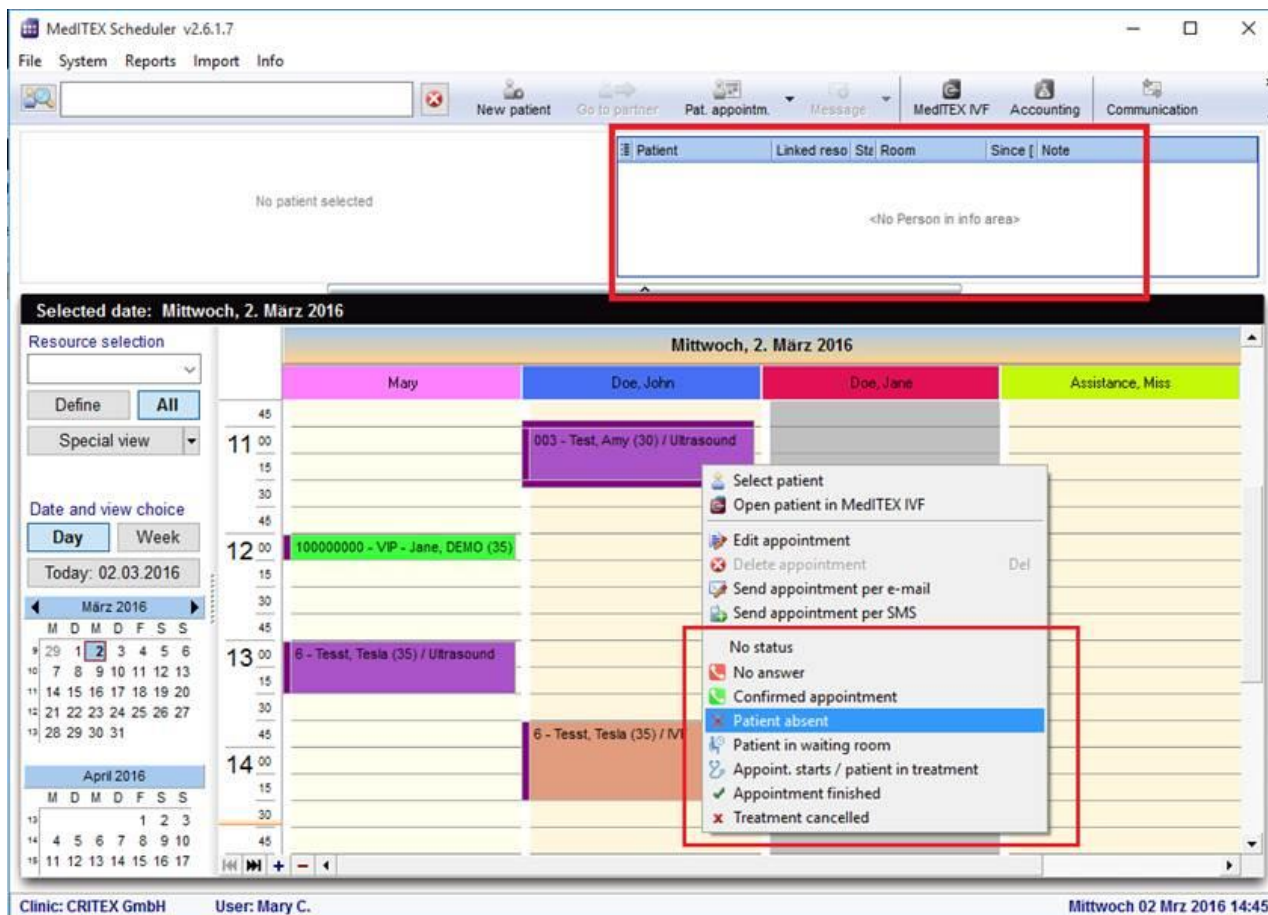
It is possible to set rights for:

- Settings (full access, no access)
- Own appointments (full access, read only, change appointment status only)
- Other appointments (full access, read only, change appointment status only)

“Own appointments” - only the appointments with the resource/calendar linked to accessing user.



“Change app. status only” - user can only change appointment status (waiting room, etc.) but CANNOT edit the appointment itself (move, delete, etc.).



## 14) MedITEX Administration

### Staff settings

Several new fields are available in staff window, also some new individual rights.

The screenshot shows the MedITEX Administration v2.6.1.8 interface. The main window is titled 'Rights management' and contains a sidebar with 'Administration of staff and users' selected. The main area shows a table of staff members with columns for Title, Name, Username, Colour, Exter, Login, Log, Logii, Login I, Pass, Active, Admin, View c, Seme, Chang, Clinici, Embry OP, Regist, Lab, Docum, Nurse, Hum, and Anac. A 'Change' button is located above the table. Below the table, the 'Edit person - Doe, John Dr.' window is open, showing the 'User settings' tab. The 'Rights' section is highlighted with a red box, showing a list of permissions: 'Admin (has all rights)', 'Login MedITEX IVF', 'Login MedITEX Scheduler', 'Login MedITEX Accounting', 'Login MedITEX KPI', 'Change patient/couple/anonymous ID', 'Change textblocks', 'View confidential entries', and 'View donor personal data'. The 'View confidential entries' checkbox is checked.

### Automatic log-off

An automatic log-off after an inactivity period can be defined for each user.

The screenshot shows the MedITEX Administration v2.6.1.8 interface. The main window is titled 'Rights management' and contains a sidebar with 'Administration of staff and users' selected. The main area shows a table of staff members with columns for Title, Name, Username, Colour, Exter, Login, Log, Logii, Login I, Pass, Active, Admin, View c, Seme, Chang, Clinici, Embry OP, Regist, Lab, Docum, Nurse, Hum, and Anac. A 'Change' button is located above the table. Below the table, the 'Edit person - C., Mary' window is open, showing the 'User settings' tab. The 'Automatic log-off' section is highlighted with a red box, showing a dropdown menu set to '0' minutes. The 'Change password' button is also visible.

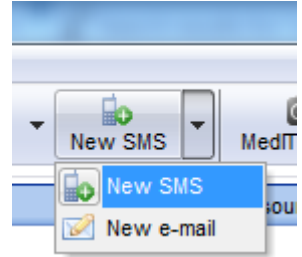


# Version 2.5.1

## Features

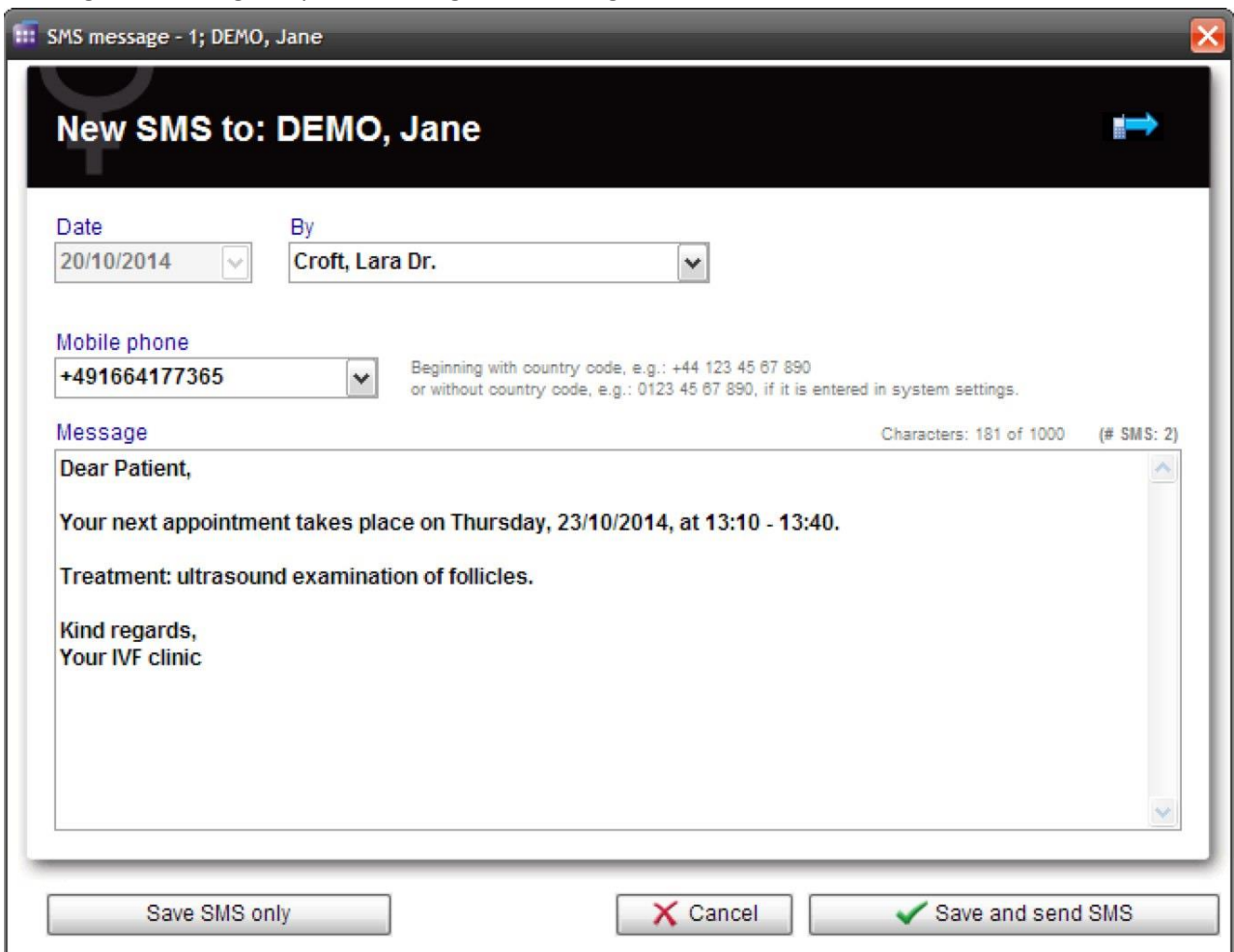
### 1) SMS Interface

The SMS interface allows MedITEX users to communicate with their patients by using SMS messages. It is now possible to send information to your patients directly from MedITEX IVF and MedITEX Scheduler, and receive their answers. For example, you can easily send information about the next appointment to patients, or even a reminder for them to take their medication.



Once configured in software settings, SMS functionality can be accessed through a button on the upper toolbar, just like the following image:

Sending SMS messages is possible using the following form:

A screenshot of a web-based form titled 'New SMS to: DEMO, Jane'. The form includes several input fields: 'Date' (20/10/2014), 'By' (Croft, Lara Dr.), and 'Mobile phone' (+491664177365). A message text area contains the text: 'Dear Patient, Your next appointment takes place on Thursday, 23/10/2014, at 13:10 - 13:40. Treatment: ultrasound examination of follicles. Kind regards, Your IVF clinic'. The form also shows a character count of 181 of 1000 and a note that 2 SMS messages will be sent. At the bottom, there are three buttons: 'Save SMS only', 'Cancel', and 'Save and send SMS'.

In order to send and receive SMS messages; our software uses the services of a professional and very reliable online SMS provider (*esendex.com*). You will have to create an “esendex” account and enter the connectivity parameters in MedITEX settings.

Here you can find detailed information about MedITEX SMS-interface:

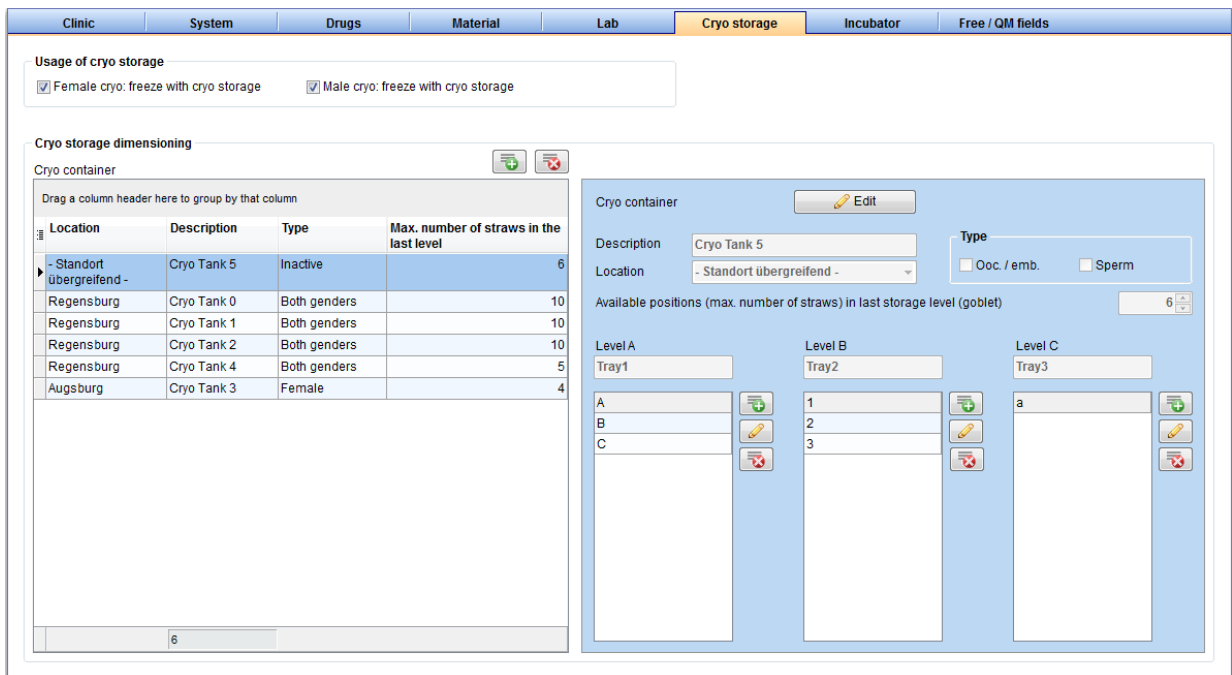
[http://wiki.meditex-software.com/index.php?title=SMS\\_interface](http://wiki.meditex-software.com/index.php?title=SMS_interface)

Here is the information about how to configure the functionality in MedITEX:

[http://wiki.meditex-software.com/index.php?title=How\\_to\\_configure\\_SMS\\_interface%3F](http://wiki.meditex-software.com/index.php?title=How_to_configure_SMS_interface%3F)

## 2) Cryo Storage:

- a. The Cryo storage in settings was completely revised. The new layout is more user-friendly. Errors have been corrected.

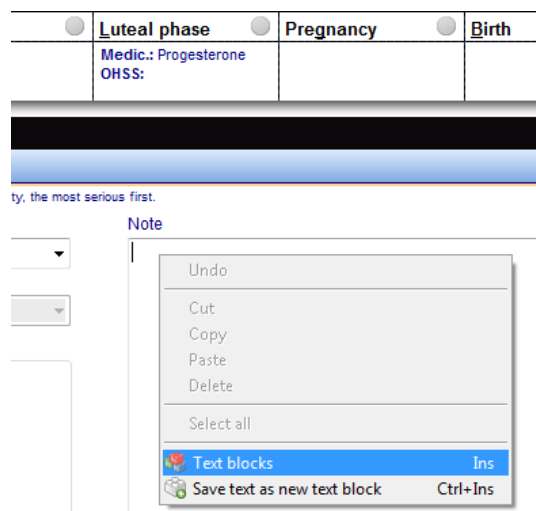


- a. You can specify an **upper limit** for the maximum straws in the last storage level. This is also taken into account during freezing. If an allocation level is **"full"**, nothing can be frozen there. This is also considered when searching for free storage places.
- b. You can assign the storage places to **different locations** in the settings (if your clinic has multiple locations..

## 3) Text blocks in Note fields:

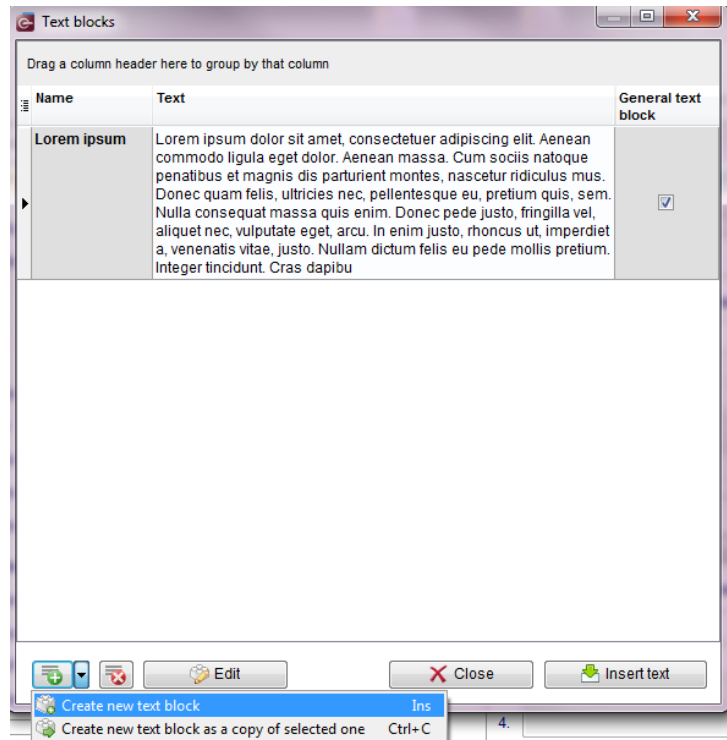
The text block functionality is available in all note fields all over the program. You can define and use text blocks with a right mouse click in the area of a note field.

With a click on "Text blocks" the window below will be opened, where you can define a new text block.



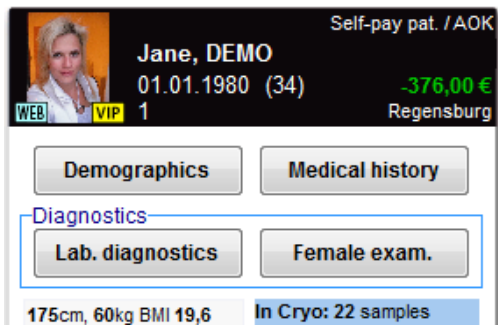
Here you can define or choose text blocks. With a double click on a line, pressing the enter key or with one click on the button "Insert text" you can insert the text into your note field.

With a checkmark at "General text block" you can also decide if your text block should be general visible or, without it, only in the defined area.



#### 4) Consents:

There is a new section called "**Consents**" in the main window. There, the consents of the patient can be created and edited. The explanations can be universal or assigned to a specific cycle.



Messages		Lab tests		! Consents		Donor info		Referrers	
Cy. No.	Consent name			Date					
	General consent			17.03.2014					
11	Consent for drug application			17.03.2014					
1	Consent for cryo storage			02.04.2014		✓			
	General consent			26.11.2013		✓			

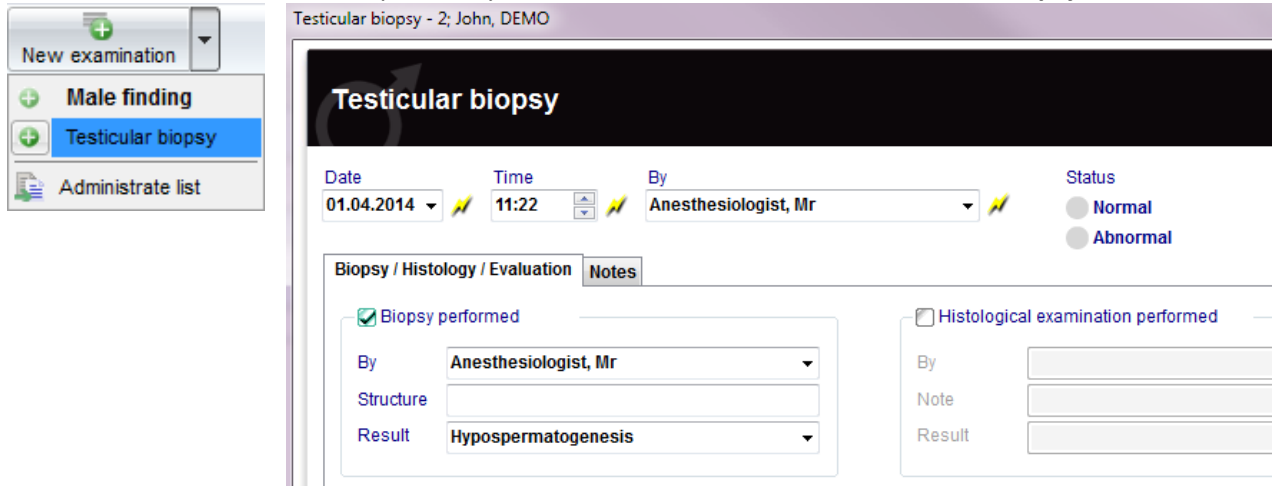
You can find the management of the consents at "System" → "Configuration / administration" → "Consents management". Here, the consent templates and forms can be configured.

Context	Name	Active	Mandatory	Valid from	Valid until	Template	
Demographical data	General consent	♂ ✓	<input type="checkbox"/>	01.04.2013	01.04.2015	A	✓
Laboratory	Lab consent	♂ ✓	<input type="checkbox"/>	02.04.2014		A	!
Cryo	Consent for cryo storage	♀ ✓	<input type="checkbox"/>			A	!
Cycle: Drugs	Consent for drug application	♀ ✓	<input type="checkbox"/>	04.03.2013	04.03.2016	A	✓

You can link male consents also with a cycle. Now consents can be used in planned cycles.

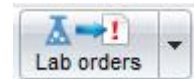
5) **Testicular biopsy:**

In the male examinations a new possibility of documentation was added "Testicular biopsy".

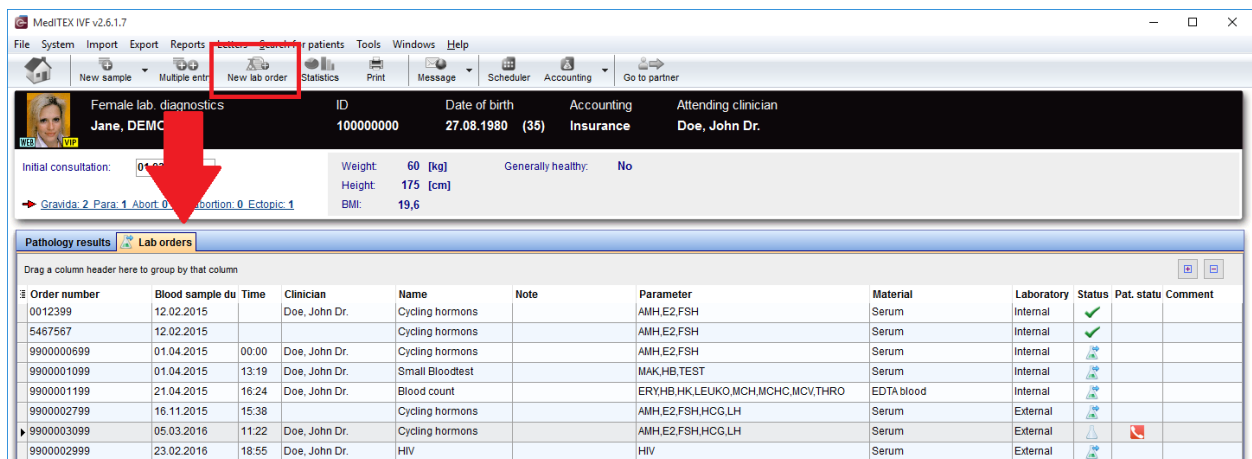


6) **Lab order:**

The "Lab order" section has been completely revised. Parameters can be selected and the lab orders can be printed. You can save templates with a parameter selection (multiple parameters or profiles), and create quickly more orders from these template profiles.



The laboratory orders can be opened in the "Laboratory diagnosis" and the "Cycle".



In the settings you can choose between manual or automatic generation of the order numbers.

("System" → "Configuration / administration" → "Settings" → "System" → "Functions" → "Automatic ID generation")

Laboratory order - 10000000; Jane, DEMO

Lab order templates | Material labels | Print order | Order status | Duplicate this order

Name:

Order number:

Blood sample due:  Time:

Clinician:

Laboratory:  Internal  External  Urgent

Lab name:

Invoice receiver:

Note:

Patient status:

Comment:

Selected parameter	Abbreviation	Material	Status
Anti-Muellerian-Hormone	AMH	Serum	
E2	E2	Serum	
FSH	FSH	Serum	
HCG	HCG	Serum	
LH	LH	Serum	

# 5

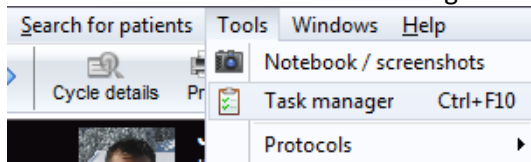
Material	Quantity / unit	Order code	Label
Serum		990000309901	

Create new task in Task Manager

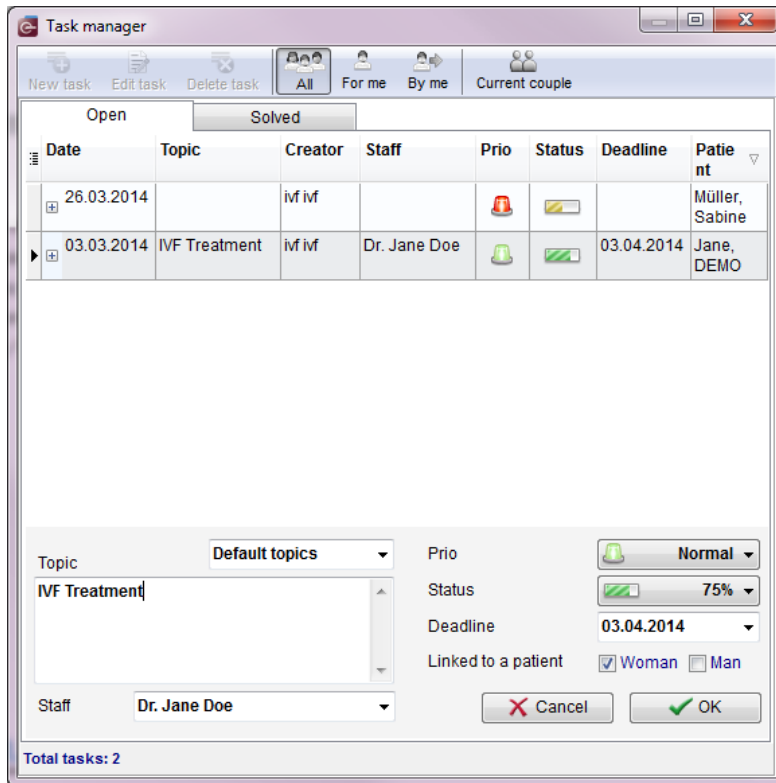
Print labels on send

## 7) Task manager:

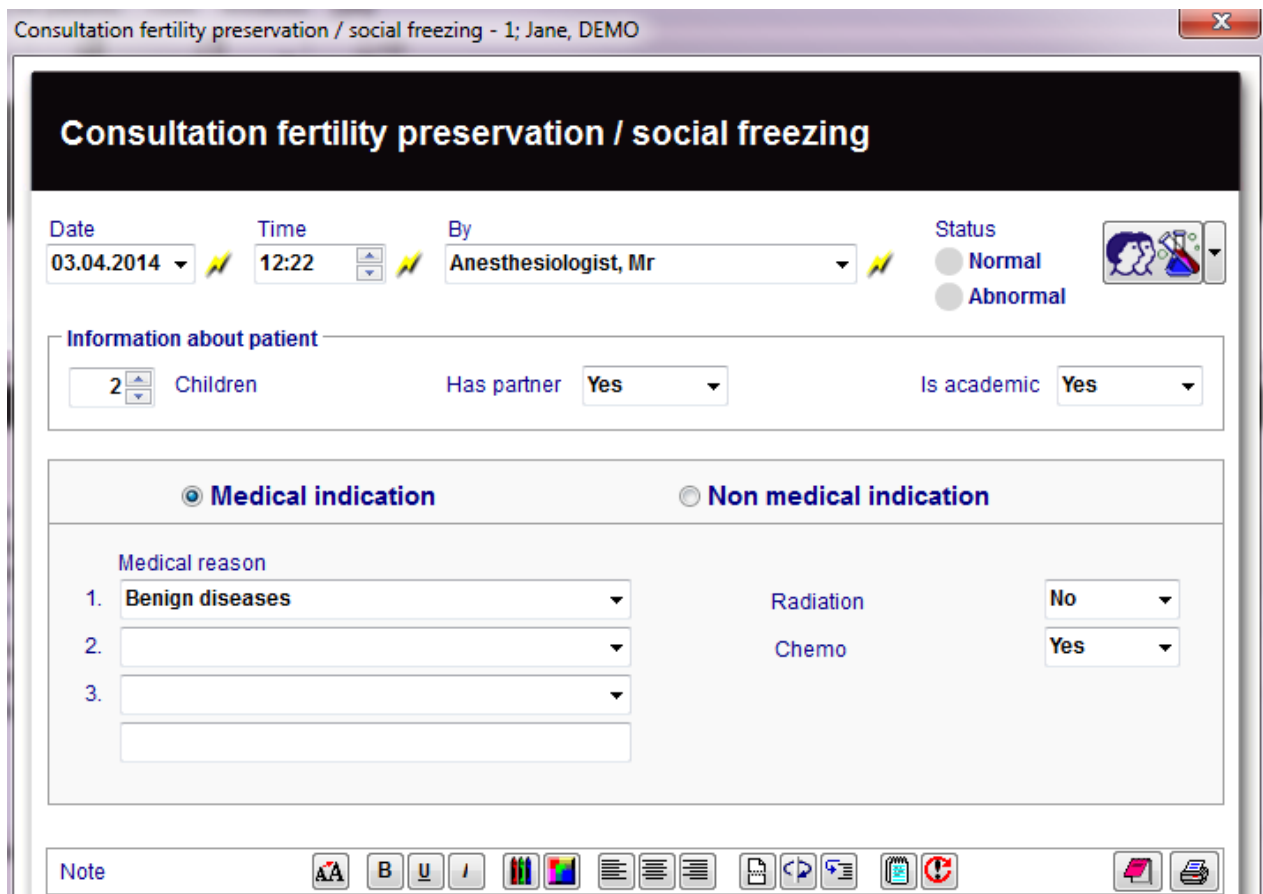
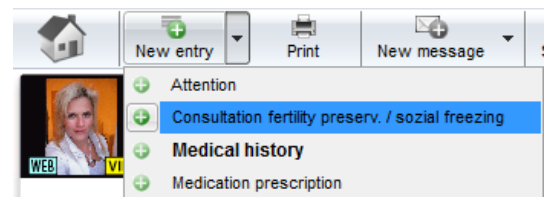
- a. There is the possibility to manage tasks with a "Task manager" or to send / assign tasks and messages to users. You can find the Task manager in the menu bar, at "Tools" -> "Task manager".



- b. With the "Task manager" you can define tasks for individuals, more than one user, or groups of users. The following options can be used:
- Views: Tasks for All, the tasks I have to do, tasks that have been created by me, tasks relating to the currently open couple in MedITEX.
  - Tabs: "Open" and "Solved" tasks.
  - If you create a new task, you can specify several details: The priority of the task, its status, a deadline, should the task be linked to a patient, the subject and the user.
  - Only the creator has the right to edit their tasks again, by a double click.
  - Text templates (in the screenshot "default topics") can be preconfigured as templates in the system tables in MedITEX IVF under "Tasks".
  - Open tasks are displayed in the footer of the main window of MedITEX IVF, next to your username.



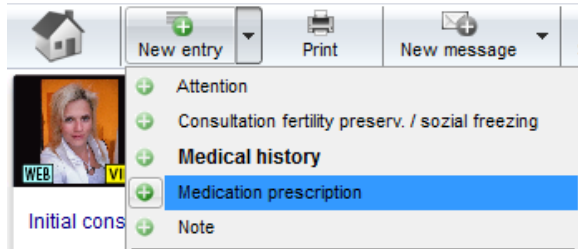
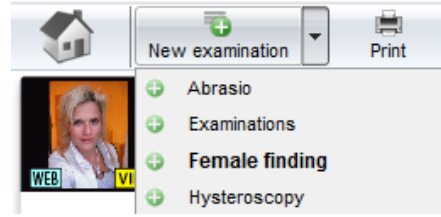
- 8) **Consultation fertility preservation / social freezing:**  
 In the medical history area you will find a new entry for the consultation of **fertility preservation / social freezing**. The entries are also displayed in the main window below messages.





**15) Standard input mask - new fields and drug prescription outside of cycle:**

For the areas "medical history" (button "New entry") and "Examinations" (button "New examination") the standard input mask was expanded with the following fields: "**Start date**", "**End date**" and "**End time**" and three fields for **ICD10 codes** (International Statistical Classification of Diseases).



Additionally, there is now a possibility for the medical history area to unlock a section called "**Medication prescription**" in this mask (via "System settings" → "Functions" → "System tables" → "Medical history: entry type").

The entry type "**Medication prescription**" was added to the list of new entries. For this entry type the new "drugs area" is already active. This allows the entry of drugs that are issued/prescribed outside of the cycle.

Medication prescription - 1; Jane, DEMO

### Medication prescription

**Start date:** 28.03.2014 **Start time:** 08:00 **By:** Anesthesiologist, Mr **Status:**  Normal  Abnormal

**End date:** 03.04.2014 **End time:** 18:00 **ICD10:** N00

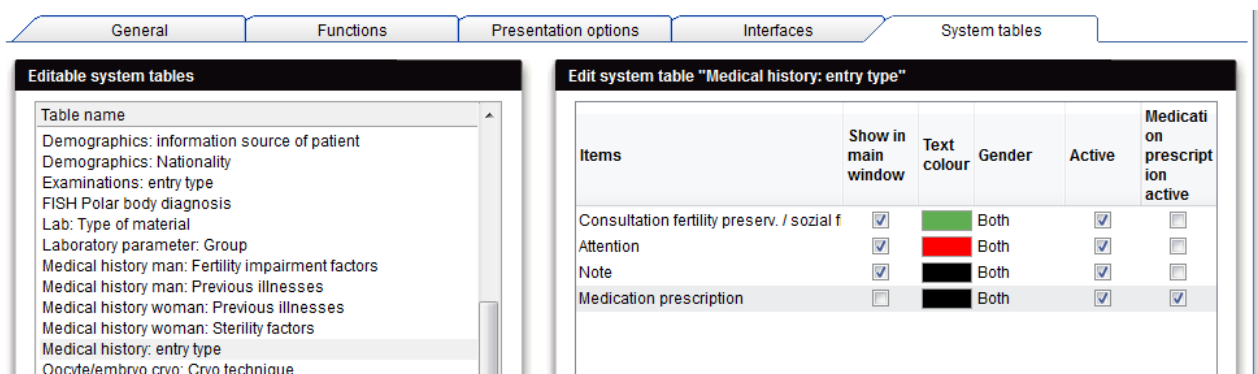
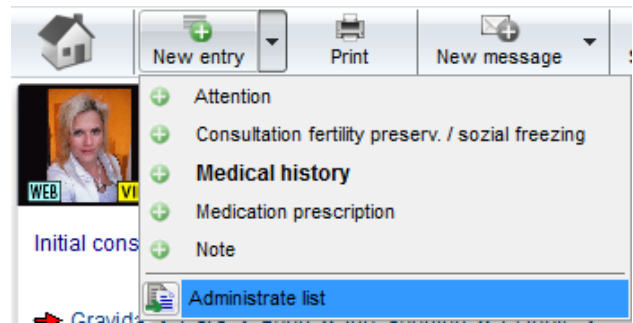
Drug	Daily dosage	Unit	Dosage frequency	From	Until	Days	Packaging	Note	Ordered
Clomifen	250	[mg]		28.03.2	03.04.201	7			<input type="checkbox"/>

Note

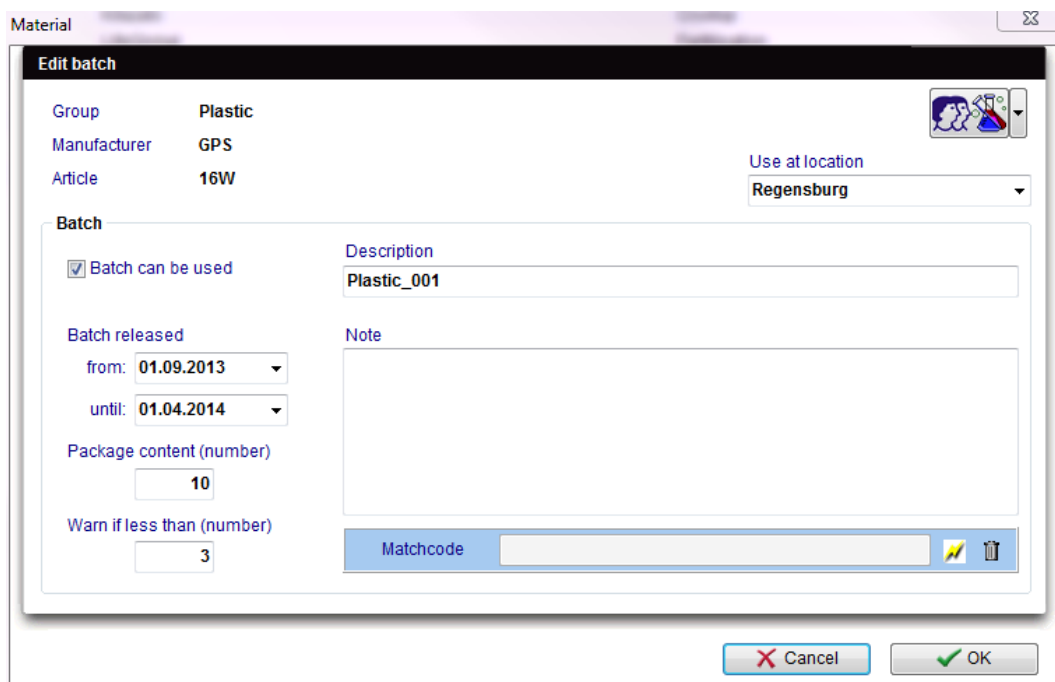
## 16) System settings:

- a. The lists for new entries in the sections "**Demographics**", "**Medical history**" and "**Examinations**" can be adapted and extended.

You can choose which entries of the **medical history area** should be displayed in the main window (tab "Messages"). To achieve a better differentiation between the entry types; define for each an individual text color. These entries can be assigned to one or both gender and it is possible to give them the status "active" or "passive". Additionally, it is possible to activate the medication prescription.



- b. The **batches** in "Materials management" section each material can be assigned to a specific package content / amount (batch). You can also set a value above which a warning should appear (for possibly re-ordering).



### 17) LDT-Importer:

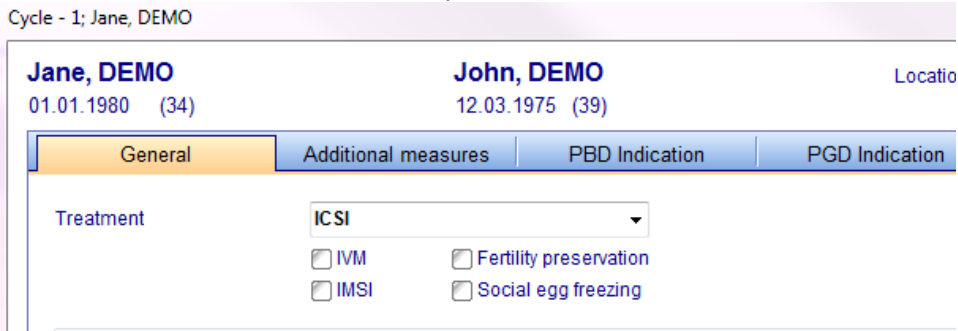
- a. It is possible to assign **lab data** at the import to the right patient, using the order number.
- b. **Referring clinicians** can now be imported with the LDTImporter.

### 18) Data changes:

In the section of data changes, the column "**Previous value**" was supplemented added. So you can not only monitor which users have made an data change, you can also see the previous value (data entry) before the change.

### 19) Cycle:

- a. New checkboxes were added in the cycle details.

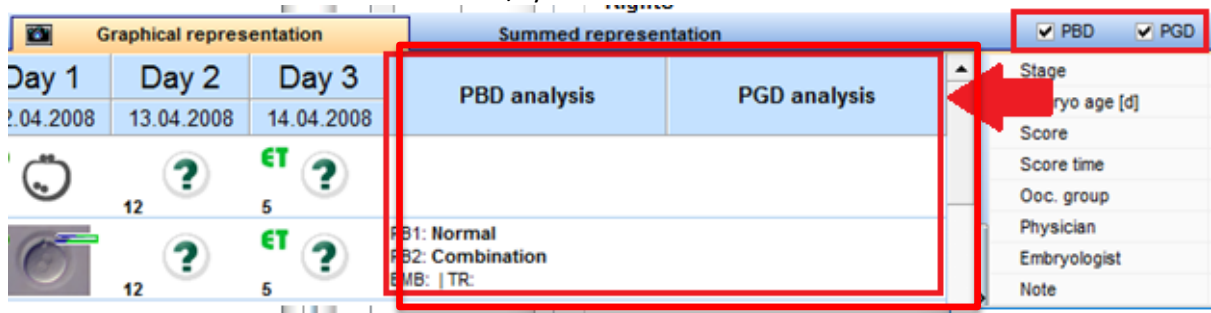


The selection choices "**IMSI**" and "**Social egg freezing**" are new. "**IVM**" and "**Fertility preservation**" were relocated.

- b. Registered additional measures will be displayed in the overview area within a cycle.

### 20) Culture:

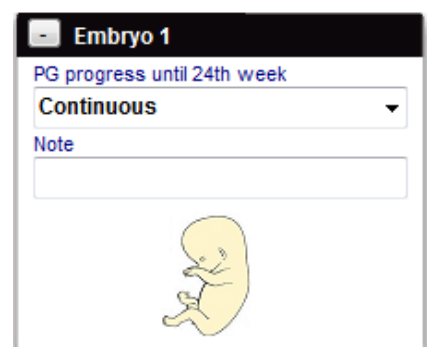
- a. In the settings you can define if the **PBD** and **PGD** analysis is performed in your clinic. Accordingly you can activate the columns with the check boxes "PBD" and "PGD" in the graphical representation. This can be decided for each individual culture/cycle.



- b. In the window "**Oocyte / embryo details**" (double click on one cell) the tab "**Classification**" was added.

### 21) Pregnancy:

In the clinical pregnancy, there is now a **note field** for each foetus.



## 22) Pictures:

- a. Patient images can be enlarged by double click.
- b. Pictures of patients in the demographics, images of embryos in culture and ultrasound images can be easily added by drag and drop.

## 23) Planned cycles:

The field "Long-term medication" is now also available in the planned cycle.

## 24) Treatment sheet:

- a. The field "Long-term medication" was added into the default treatment sheets.
- b. Additional measures are now displayed in the default treatment sheets.

## 25) Referrer:

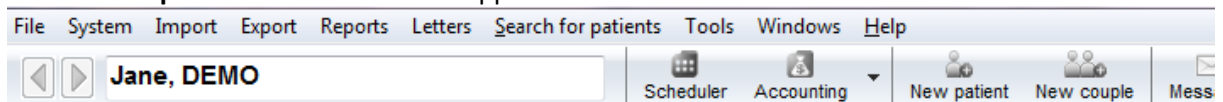
- a. You can create **labels** directly in the referrer area with the button "**Print labels**".
- b. The **search** in the referrer list is easier now.
- c. You can search for a referrer with the field "**Free search**".



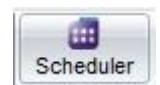
- d. If the referrer area is locked, the fields "Free search", the "New referrer"-button and the Online-help are still useable. You can also open referrer letters, but changes will not be saved.

## 26) Start mask:

- a. You find the **patient search** in the left upper corner.



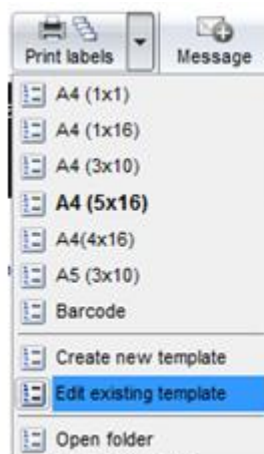
- b. Current open patients can be opened directly in MedITEX Scheduler from MedITEX IVF. For this you have to push the "**Scheduler**" button in MedITEX IVF in the toolbar.



- c. You can clear the messages of the "Messages" area with the delete key of your keyboard.

## 27) Demographics male/female:

Already existing label templates can be selected and edited with above the toolbar button "Print Labels" – "Edit existing template".



**28) Demographic details:**

- a. In the demographics the section **"Insurance / accounting"** was expanded with the possibility of adding a second **"Health insurance"** and a **"Funding source"**.
- b. The field **"Social security number"** has been added.

**29) Medical history male/female:**

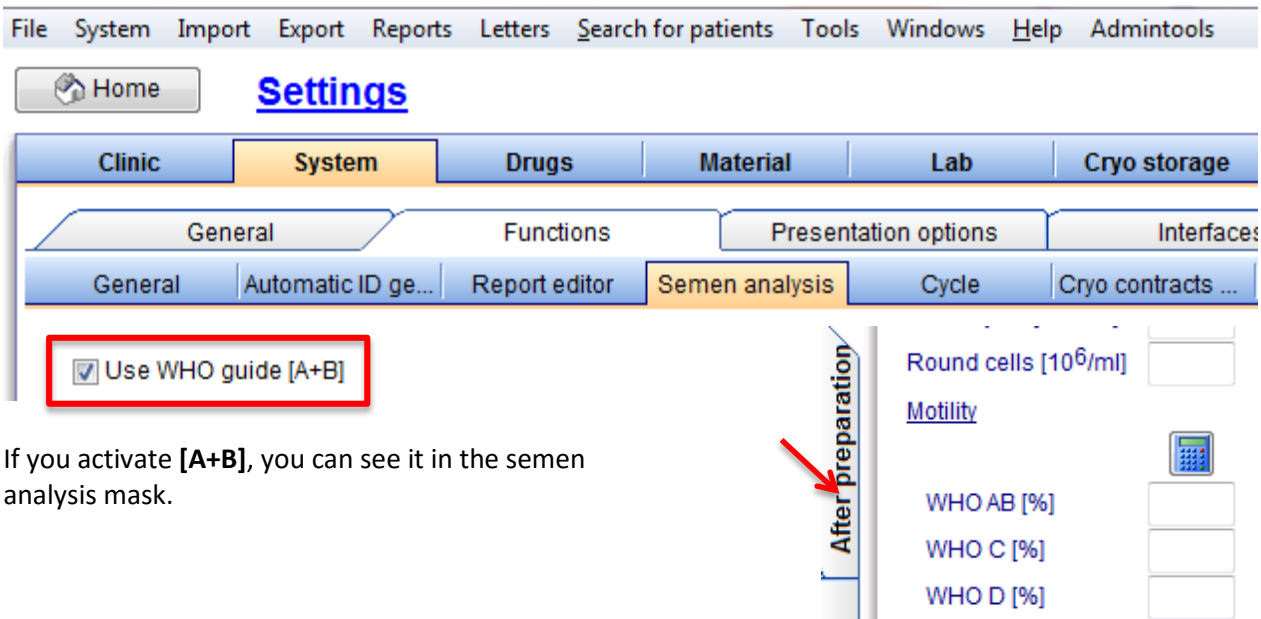
- a. If you save a medical history and the field "Attending clinician" is empty, you will be asked if the attending clinician of the partner should be entered.

- b. In the tab "General" the section **"Smoking / Alcohol / Drugs"** was added.
- c. Some fields were added in the area of medical history. A third tab, called "Genetic / Opinion" was added to the male medical history.

**30) Semen analysis:**

- a. At the selection list of the field "Purpose" the following 3 entries were added: **"IMSI"**, **"IVM"** and **"Fertility preservation"**.
- b. Liquefaction time is automatically calculated by clicking on the **flash**.
- c. The choices for the field **"Collection place"** can be edited and expanded by the users. For this purpose, the collection place is offered as a system table in the system settings.
- d. At "System" → "Configuration / administration" → "Settings" → "System" → "Functions" → "Semen analysis" you can define how the values in the sperm calculator should be rounded.

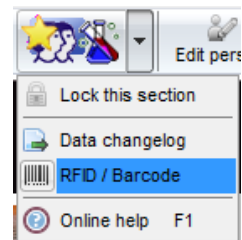
- e. The volume of a semen analysis can be bigger than 100 ml.
- f. In the "System settings" at "Functions" → "Semen analysis" can be defined if you would use the **WHO guideline [A + B]** in the semen analysis.



If you activate **[A+B]**, you can see it in the semen analysis mask.

### 31) **RFID / Barcode:**

- a. With the **QM drop-down button** barcodes can be generated quick and easy.
- b. Now, you can change the barcode generation so that only the patient ID is encoded. This setting can be found at:  
 "System" → "Configuration / administration" → "Settings" → "System" → "Functions" → "General".  
 In this area you can also change the default template for the **RFID / barcode label printing**.



### 32) **Plausibility messages:**

In the table of the plausibility messages, you can see more details in the new column **"Context"** to the right.

Children	Cyc.	Med.	Pro.	Note	
[1]	!	✓	👍		🔒
	!	✓	👍		🔒
	!	✓	👍		🔒

### 33) **Plausibility lights:**

To facilitate working with MedITEX for users with **red-green deficiency** the plausibility traffic lights of the whole program were supplemented with check marks or exclamation marks.

### 34) **Report editor:**

- a. In the table "Cycle" you can choose a **date** for the fields of the **last hormone values**.
- b. In the result window you can define, which columns you will see. So you can take a look at single columns or print your selection.
- c. You can find the fields of the form **"Consultation fertility preservation / social freezing"** under "Examinations / Medical histories".



- d. The following fields have been added:
- Cycle: Date of triggering
  - Cycle medication: Dosage, Start date, End date
  - Lab: last AMH value

### 35) MedITEX KPI:

- a. If you make a **right click** on the KPI selection (the large column to the left), the associated **description** is displayed.
- b. The **grouping area** has been extended with the point's **stimulation protocol, drugs and location**. You can choose a maximum of two grouping parameters.
- c. The result window in the tab "Table" has been extended with a **detailed table**. Open it via the "**Details**" button in the toolbar, with a double click on a result row in the left table or by clicking on the splitter.

The screenshot shows the MedITEX KPI interface. The toolbar includes buttons for GO!, Sum, Legend, Labels, By years, Invert, Rotate text, and Details (highlighted in red). Below the toolbar, there are tabs for Chart and Table. The main content area displays 'MII rate' for the period 11.03.2008 - 31.03.2014, with age groups < 26, 26 - 30, 31 - 35, 36 - 40, > 40. There are two tables: a summary table on the left and a detailed table on the right.

Value (%)	Value (absolute)	Value (total)	# cycles
20,30	30	148	29
	30	148	29

Patient ID	No. of cycle	Reference da	Treatment
12389	4	01.03.2013	ICSI
111111	4	03.01.2013	ICSI
123456789	2	18.11.2011	IVF
3434	12	27.03.2014	Only aspir
3434	10	21.03.2014	ICSI
12389	5	01.04.2013	ICSI
3434	4	18.03.2014	IVF,ICSI
12389	6	01.03.2013	ICSI
12389	7	01.03.2013	ICSI
		# 29	

### 36) MedITEX Administration:

- a. If you have **several locations**, there is now the ability in the rights management to choose if the user can **open patient data** only from their own location or have access to all locations.

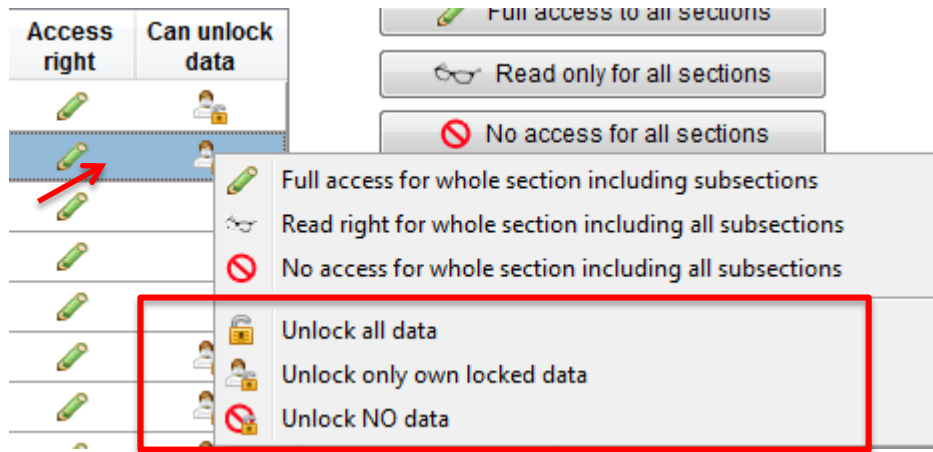
Location

User has access to patient data from:

own location  all locations

If users are assigned to a location the user will also be filtered based on the user location.

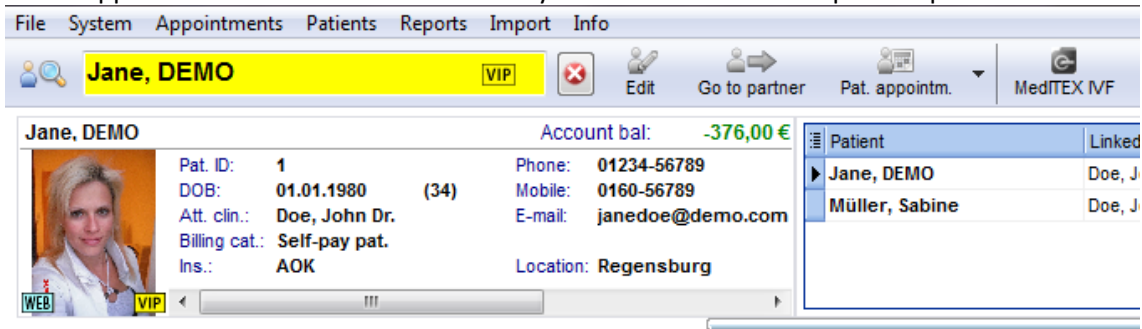
- b. Administrators can specify whether and when the **validity of the password** of a user expires. After the expiration date, the user is prompted on login to enter a new, never used password.
- c. User names can be up to 10 characters long.
- d. Additionally to the rights management in the area of "rights assignment" you can also set rights for the unlocking of data. By a right-clicking on the desired area a submenu is displayed in which you can choose between three options:



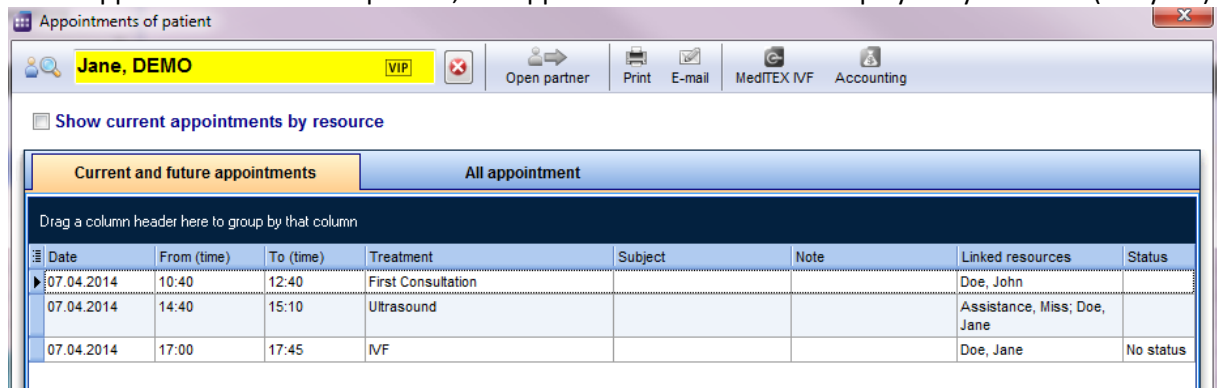
- The user (group) can unlock all data
- The user (group) can only unlock own locked data
- The user (group) can unlock no data

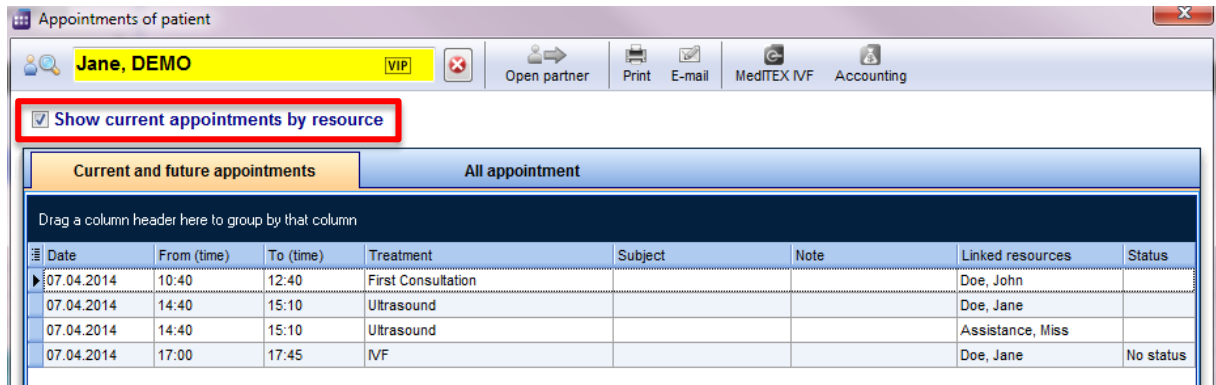
### 37) MedITEX Scheduler:

- a. In the upper left corner of the main window you can find the most important patient information.



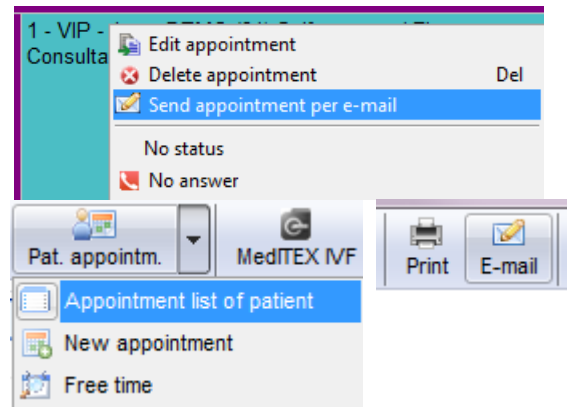
- b. Now you can define **different locations** in the scheduler. Calendar, treatments and patients can be assigned and filtered by location.
- c. You have two new status possibilities on an appointment (for the right mouse click): no answer, confirmed appointment.
- d. In the appointment list of the patient, the appointments can also be displayed by resource (diary list).





- e. Also new is the ability to send appointments or whole entire lists by **e-mail**. However, this function is only applicable if an appropriate e-mail program is installed on the computer.

To send a single appointment, simply make a right click on the appropriate date and choose "**Send appointment via e-mail**".



To send an appointment list, select in the toolbar "**Pat. appointm.**" → "**Appointment list of patient**" and then click on the "E-Mail" button in the toolbar.

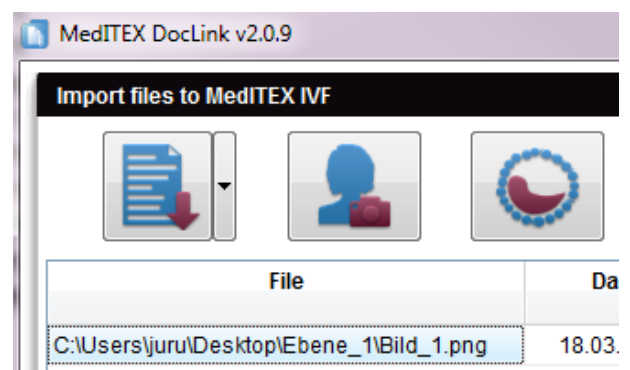
- f. In the settings at the tab "**Treatments**" you can define, if the treatments should be sorted alphabetically in the appointment detail mask.
- g. When you create a calendar with selected staff, the color of the selected person is taken if no color has been entered for this employee.

### 38) **MedITEX DocLink:**

You can transfer **patient images** into MedITEX IVF with the second button in MedITEX DocLink.

### 39) **MedITEX Accounting:**

There is a new program "MedITEX Accounting", which can be used for invoicing.



## Bugs

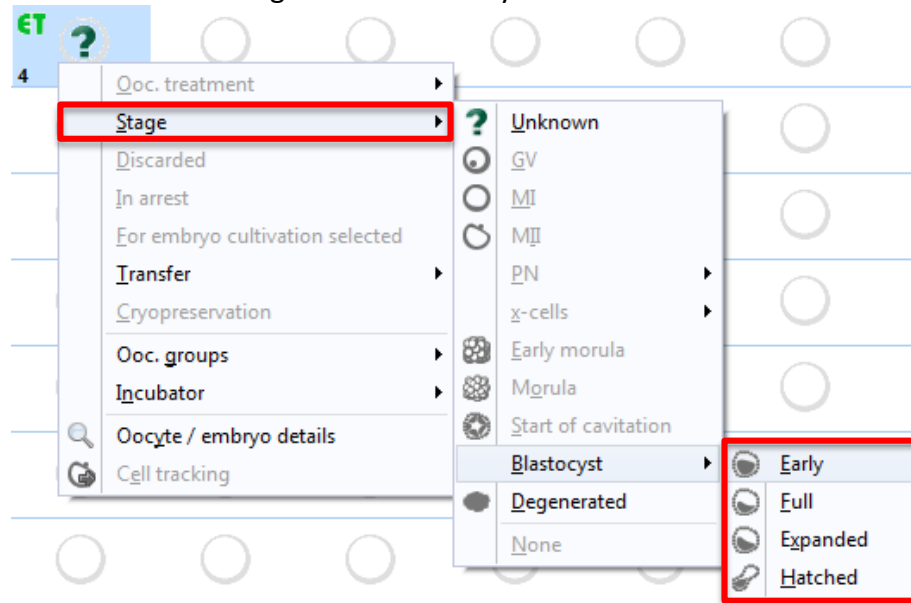
### 1) **Cycle:**

- a. In the cycle details the calculator function to compute the LMP date is always available.
- b. The data of the cycle overview will be updated immediately.

- c. The cycle overview displays what was actually transferred and not was available for transfer.
- d. Planned ultrasound examinations can be deleted later in cycle again.
- e. The "last bHCG value" is displayed correctly in the pregnancy mask.
- f. The traffic light for "birth" in cycle overview will be only green when data is entered for a child.
- g. The number of children is properly displayed again at the main window in cycle overview.

## 2) Culture:

- a. The order of the stages of the blastocyst has been corrected.



- b. The number of transferred embryos in a thaw cycle now is complete the same in the table and graphical representation.
- c. The maximum number of embryos per transfer was revised. No error message occurs again.
- d. Treatment semen analysis in the culture:  
For the selection for the semen analysis you can use also a sample from the "Cryo storage" that is not linked to a semen analysis. Because after choosing a sample, a new semen analysis with the thawing date immediately will be created, which is linked as a treatment semen analysis. This is also possible with cryo samples from a donor.

## 3) Cryo contracts and accounting:

- a. The residual material in "Cryo contracts and accounting" will be indicated correctly.
- b. The months in the invoice title will now be correctly determined.

- 4) Using the "Search" button in the "Cryo storage" you can search for available/free storage places.

- 5) In the section "Lists" the number of filtered documents is displayed in the footer.
- 6) If you have several locations, personnel lists are filtered by user corresponding to the location set for each user.
- 7) When you are thawing a semen analysis, the validity of the charges in the QM fields depends on the thawing date.
- 8) In the patients' search the actually searched patient is displayed, regardless in which view you are.
- 9) **Report editor:**
  - a. Now you have the possibility to create reports / evaluations about incubators.
  - b. Cycles with "fertility preservation" and "ovarian tissue cryopreservation" can be evaluated now.
  - c. You can create queries for all newly created entries for findings.
  - d. Date fields can be grouped by month and year. In addition, the format of these fields is free selectable now.
- 10) Lab values can be imported error-free with the LDTImporter.
- 11) The field "Previous pregnancies" is displayed correctly again in the "Cycle summary".
- 12) Now the plausibility messages are running faster than before.
- 13) QM fields for free text in the letter generation can be used again without automatic line break.
- 14) If you start MedITEX KPI (Key Performance Indicators MedITEX) the first time, it works correctly.
- 15) **Medical history:**
  - a. In the findings mask the correct descriptions of the respective findings are displayed again.
  - b. After changing the user, the field of the attending clinician in the findings mask is filled again.
- 16) In the semen analysis list you can activate a column called "Notes".
- 17) **MedITEX Scheduler:**
  - a. More patient appointments in which no patient is linked (e.g., because it is a new patient who is not yet in the system) can be "seated the waiting room".
  - b. The font size of the appointments in the calendar can be customized in the settings.
  - c. If one possesses the right "Change PatientID", this can also be applied in the scheduler.

- d. Treatments can be assigned to different locations.
- e. You can't delete a patient who already has appointment entries.

## Version 2.0.2

### Features

#### 1) Online Help:

From every section of MedITEX IVF it is now possible to access the corresponding online help. Just press "F1" or click on the appropriate link in QM button submenu.

#### 2) User-specific language setting:

Each user can now define its own program interface language. Via the menu "System" -> "Configuration / administration" -> "Personal Settings" it is now possible to choose between all languages available in MedITEX. Field contents will however still be displayed in the system (default) language.

#### 3) Patient search:

Patients can now be searched for using home and cell phone number.

#### 4) Start mask:

You can now use two controllers to individually change the division of the start screen. Especially with large displays it enables more information to be viewed at once, such as the overview of recent medical history or the messages.

The screenshot displays the MedITEX IVF v2.5.0 software interface. The main window is titled "Jane, DEMO" and shows patient information for "Jane, DEMO" (01.01.1980, 34, Regensburg) and "John, DEMO" (01.01.1980, 34, Regensburg). The interface includes a menu bar (File, System, Import, Export, Reports, Letters, Search for patients, Tools, Windows, Help, Admintools) and a toolbar (Scheduler, Accounting, New patient, New couple, Messages). The main content area is divided into two panels, each showing patient demographics, medical history, and a list of messages. The left panel shows messages for Jane, DEMO, and the right panel shows messages for John, DEMO. A green arrow points to the "Messages" column header in the left panel, and another green arrow points to a message entry. A green box highlights the "Overview" section at the bottom of the interface, which displays a table of cycles and planned cycles.

No.	Start	Treatment Partner	Sperm	Stimulation	Cycle	Cryo	PG	Children	Cyc.	Med.	Pro.	Note
13	13.11.2013	IVF	John, DEMO	Donor	FA 25.11.2013: 4 Ooc	4 PN	None					
12	25.02.2013	ICSI, IVF	John, DEMO	Antenatal, placental	26.02.2013: 17d	FA 04.03.2013: 7 Ooc	ET 07.03.2013: 2 F 2 EMB	1 III	1 AC			



**5) Patients referrer:**

In MedITEX main page a new tab sheet "Referrer" was introduced, for both woman and her partner. The tab sheet will be shown if there is at least one referrer associated to the patient, and contains name, contact and note data of all (up to three) associated referrers. The data can be copied to clipboard and used in other windows programs.

Messages				Lab tests				Donor info				Referrers			
Name		Clinic		Contacts		Note									
Dr. Any Where		Anystreet No. 2 Anytown		01234-56789 01234-567890 hno@praxis.net		Lorem ipsum Aenean com natoque pena ridiculus mus.									
Dr. Steven Stone		Dr. Stone and Partner 144 Dixie Street				Lorem ipsum Aenean com									

**6) Semen analysis:**

In addition to the motility counter two new keyboard counters have been introduced, for sperm concentration and morphology properties.

The screenshot shows the 'Semen analysis - 2; Dr. John, DEMO' window. It features several input fields for collection date, time, sample ID, and purpose. A 'Native' parameter table is visible, with a 'Morphology' section containing keyboard counters for 'Normal forms [%]' and 'Abnormal forms [%]'. Two smaller windows are overlaid: 'WHO sperm morphology counter' and 'Morphology counter'. The 'Morphology counter' window shows a grid of buttons for different defect types (Head, Neck and midpiece, Tail, Excess residual cytoplasm) and a 'Sperm counter' configuration section with numerical inputs for total sperm count and percentages of normal and abnormal forms.

**7) Sperm thawing:**

Thaw a sperm sample by creating a new semen analysis directly. The collection and thawing date will be filled out automatically.

This screenshot shows the 'Semen analysis - 2; Dr. John, DEMO' window with the 'Purpose' dropdown set to 'None'. A large green arrow points to a button labeled 'Thaw from cryo storage' located in the bottom right corner of the main window. The button features a snowflake icon and a water drop icon.

## 8) Lists:

For better clinical organization the new list "Anticipated aspirations" has been introduced (available over the menu "Reports" → "Lists"). The list contains all cycles that have not been cancelled and the aspiration has not yet been performed. The expected aspiration date and the calendar week are calculated as: start date of stimulation + 13 days. The list contains all planned cycles also, based on the "Planned stimulation start" date.

## 9) Faster input:

Every personal field is now possible to quickly fill in with your name by clicking on the lightning button to the right. It works however only if your name is present in the drop-down list.

Operating clinician  ⚡  
Embryologist  ⚡

## 10) Long-term medication:

New field was added in 'Cycle details' mask. It can also be seen from cycle overview.

The screenshot shows the 'Cycle - 1; Dr. Jane, DEMO' mask. The 'Long-term medication' field is highlighted with a green box and an arrow pointing to the 'Cycle overview' panel on the right. The 'Cycle overview' panel shows the following details:

- Treatm.: ICSI [IVF,ICSI] # Emb.: 1 [2]
- Main indication: Female
- Protocol: ultralong
- Long-term medication: Euthyrox
- Pl. sperm collection: Antegrade ejaculation
- Pl. additional measures:
- PBD Indication:
- PGD indication:
- Note for accounting:

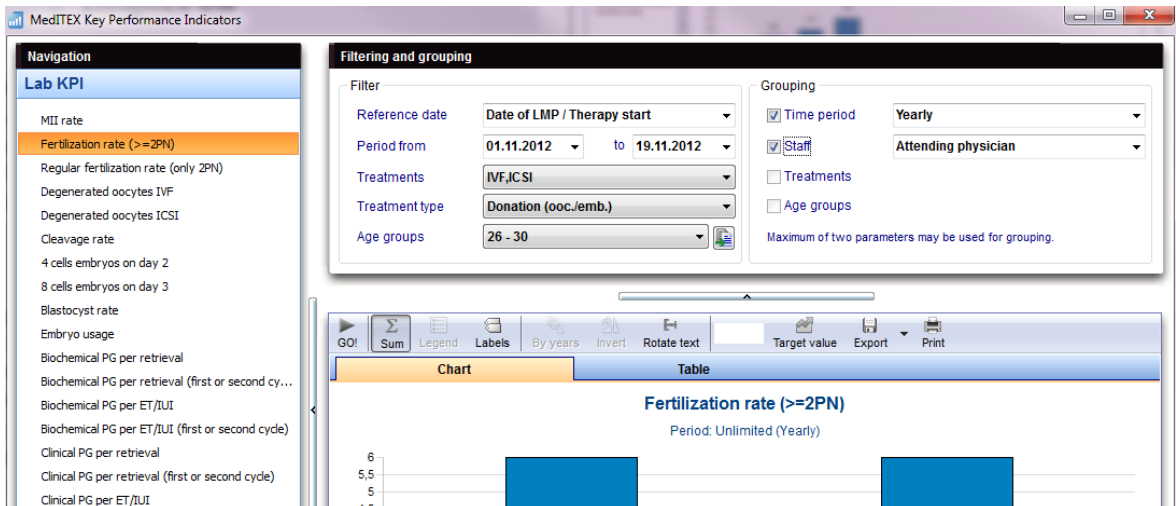
## Bugs

- 1) The additional information fields of follicle aspiration are also available in report editor.
- 2) Semen used for treatment in the culture section:
  - a. If several cryo samples of the same semen have been thawed, the line "Treatments and semen analysis" in the culture will be correctly displayed.
  - b. If the thaw was directly documented via the "Treatment semen analysis", the selected semen analysis is immediately linked to the cycle.
- 3) QM fields of cryo data can be edited as usual.
- 4) Locked records can neither be changed nor deleted.

## Features

### 1) New modules:

- a. The new tool **MedITEX KPI - Key Performance Indicators** – integrates, in the background of your system, different data sources (Lab, Cryo, Management, etc...) and allows various statistical analyzes in real time. It recognizes progress, but most importantly, it identifies setbacks in their early stage.



➔ Follow this [link](#) to learn more about it.

- b. **MedITEX Administration** is another new module, which centralizes the management of users, data, and database maintenance. It allows administrators to create, delete and edit users, their permissions and members in self-defined groups.

Title	Name	Username	Colour	Login Mes	Admin	View dor	Activat	Change	Externa	Active	Clinicic	Embryo	OP	Regist	Lab	Docum	Nurse
Anesthesiologist, Mr		user78		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Assistance, Miss		user77		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dewar, Lucas	M			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dr.	Doe, Jane	user75		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dr.	Doe, John	user74		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

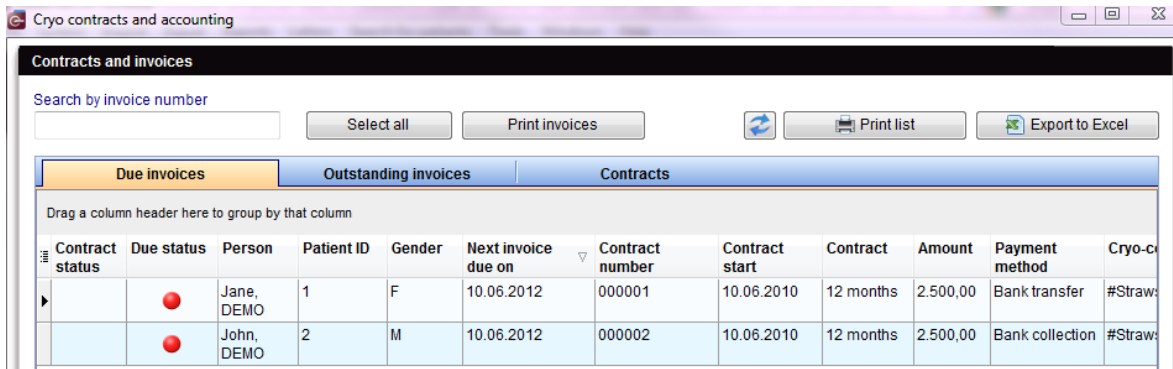
➔ Detailed information is available [here](#).

- c. The new module **MedITEX DocLink** allows for a quick and easy importing of documents, pictures and various files in the different areas of MedITEX IVF. The imported files can either be sent with a right-click of the mouse to MedITEX DocLink or can be dragged and dropped into an opened MedITEX DocLink window.

➔ Click [here](#) to read more details.

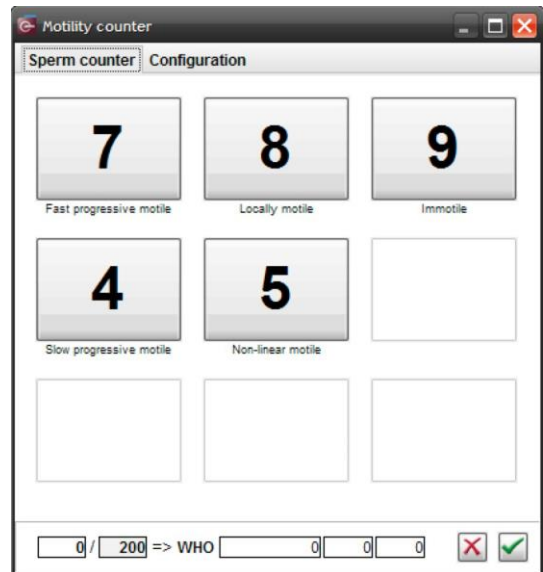
### 2) General Functions:

- a. Through the new feature **Cryo contract and accounting**, you can create with just a few mouse clicks, cryo contracts, invoices, lists of overdue invoices and reminders, as well as managing and printing them.



➔ Please follow [this link](#) to learn more about this important MedITEX functionality.

- b. With the new **Motility Counter** it is not possible to count different categories of motile sperms directly from MedITEX. Just use the numeric keys on your keyboard – or an extra numeric pad connected over USB port to a computer – to count Progressive- Motile, Non-Progressive motile and immotile sperms and obtain total counts and percentage values in MedITEX automatically.



Fully configurable, the new Sperm Motility Counter allows each user to define personal keyboard layout. Counting range is set by default to 200 and can also be adjusted individually.

➔ Detailed information about new Motility Counter is available [here](#).

- c. In the new view **Cycle Summary**, all relevant data of a patient or a couple are shown. If the user has the right permissions, it can the layout of the list.  
➔ Find out more [here](#), about MedITEX Cycle Summary.

- d. In demographics, medical history, lab. diagnostics and examinations, the attending physician (agent in carrying out medical history last) will now appear to the right of the accounting type.

- e. New feature enables **SMS notification**. Using a Skype account, send SMS from MedITEX to patients. This option is in the menu bar placed in "New Message".



➔ Click [here](#) to get more information about.

- f. The mobile number of the patient was added to the description box (in gray).  
g. Abortions are indicated in the therapy summary (start screen) in the column "children".  
h. Auto-complete for Username at the Login window and selection of users.

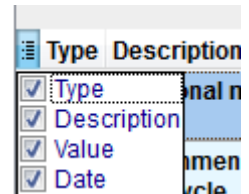
- i. It is possible for every employee to set the colour that will represent his/her activities throughout the program.
- j. The picture of the patient can be enlarged in every area of the program by double-clicking it.

**3) Medical history:**

- a. Supplement in the mask of the medical history of the woman: data on births (gravida/para) were extended with abortions, induced abortions and Ectopic pregnancies.
- b. Additional free text fields were introduced in medical history:
  - i. Sterility factors of the female.
  - ii. Previous illnesses of the male.
  - iii. Fertility impairment factors of the male.
  - iv. All fields have the option of auto-complete.
  - v. Free field "Medical reports / Remarks".
- c. Options added and changed to the "Menstruation" area at the "General" tab.
- d. In the "Med. history" button on the male, in the second tab under "Performed treatment", the fields Anti-inflammatory actions, Hormonal treatment and Surgical will only accept a year value.

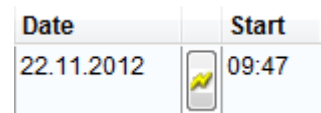
**4) QM/Free fields:**

- a. Any user can choose in the QM/free fields, which columns should be displayed. The configuration of each user is stored individually and you can adjust the columns by clicking on the button on the left of the list header.



- b. The option to add a voice memo will always be available at the QM window.

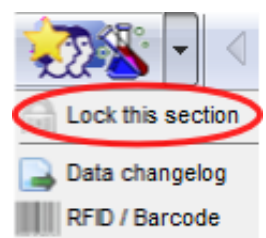
- c. Pressing the lightning symbol will auto-complete both Date and Start fields.



**5) Data security:**

Three complex functionalities were implemented to ensure the reliability, confidentiality and security of data.

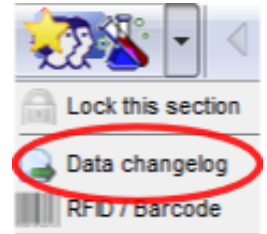
- a. **Data lock.** To prevent accidental or malicious deletion or changing of data, there is now the option of locking individual data, entire therapies and areas. The unlocking of data can only happen through entering the password of the person who had locked it or a user with admin rights. You can lock the data by clicking on the arrow next to the QM button. To lock entire therapies, click on the lock symbol.



➔ Learn more about locking of data [here](#).

- b. **Change logs.** Through the change log, you can visualize all modifications that were made. You can also access this functionality at any point over the QM button. The changes are displayed on a list and will present the following information:

- Modified date;
- Name of user;
- Field names of the changed data;
- Area name;
- Date of the record.



The five last changes of each record are documented. If a sixth change happens, the oldest saved change will be deleted in the log. The number of recorded changes can be set under System -> Configuration -> Settings -> System -> Functions -> General:

**Logging of data changes**

Number of last changes that should be logged, excluding creation of data record

5

- ➔ Changes on the demonstration user "ivf" are never documented. To ensure complete data security, we recommend blocking "ivf" in MEDITEX Administration by removing all rights assigned to it. Therefore, each person using the tool should have their own account created by an administrator.
- ➔ More information about it can be found [here](#).

- c. **Rights management.** An important extension of MedITEX system is the rights management. The user with administrative privileges can now edit the rights for the viewing, reading and/or writing information for different individuals or groups of people for all MedITEX areas.

➔ Here you can learn how to assign such rights to your employees: [MedITEX Administration instructions](#).

## 6) **Semen analysis:**

- a. The morphology of a field "multiple defects" was added.
- b. If the checkbox "sperm from donor" is selected, this information will be displayed at the column "Collection method".
- c. **Quality assessment.** The details of the workplace, examination name and examination method have to be entered before the counting starts. Before, they have to be defined in the settings. It is possible to enter and save the concentration, motility and morphology separately. For a better understanding of the calculation method, formulas were added to the Results tab. A long-term evaluation shall be given separately for each measured variable. The program contains an automatic reminder.
- ➔ Further information is available [here](#).



## 7) Donation:

- a. The **sperm donor** area has been completely revised and expanded with personal characteristics of the donor and other data and functions. In patient management/woman you will find a new green highlighted field. Click on it to get information on the donation.
- b. (Only for the UK version!)  
Entries in Ethnic groups in person and donor have been replaced: White British, White Irish, Any other white background, Indian, Pakistani, Bangladeshi, Chinese, Any other Asian background, Black Caribbean, Black African, Any other black background, White & Asian, White & Black Caribbean, White & Black African, Any other mixed background, Any other ethnicity.  
➔ More information about sperm donation functionality are available [here](#).  
Automatic unlocking of donor sperm samples if storage is greater than 180 days, HEP B, C, TPHA and HIV negative. Otherwise, the samples for the duration of the quarantine will be locked. The quarantine period (180 days by default) can be changed in the program settings.

## 8) Transfer:

- a. In the transfer mask, an additional (second) transfer date can be documented. This date is also in the Report editor under Therapy -> Transfer to find. This date is not linked with embryos. The crucial date is only the first date of transfer.

Date of transfer    16.04.2008    ⚡

Date of 2. transfer    14.11.2008    ⚡

## 9) RFID/Barcode:

- a. Existing codes can be linked to a material. A button activates the "scan" function so it is possible to read a bar code and assign it to a material.
- b. The users who are using RFID technology can log in automatically into the MedITEX system:

**Barcode / RFID**

Automatic login when using RFID / barcode

This printer will be used for printing barcode labels, RFID tags, etc.

## 10) Laboratory diagnostics:

- a. Expansion of laboratory diagnosis of males with "Multiple entry" button.
- b. When creating a "new sample" the option "other" was added in order to create a laboratory sample without pre-defined parameters.
- c. In the area of laboratory diagnostics man/woman in the menu bar, a new button "**lab order**" was added. With this function, it is now possible to read the sample number using a barcode scanner and create a corresponding lab order for the lab.  
You can create new lab orders in the opened window. Enter the order number and if necessary, a comment. The other columns are added automatically.

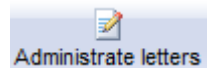
## 11) Cryo:



- a. New Field "Stored by" in Cryo Gyn and Cryo Andro input masks were implemented to ensure the accurate documentation of the samples.
- b. Change the layout in Cryo Gyn for a better overview of the reserved straws and the history.

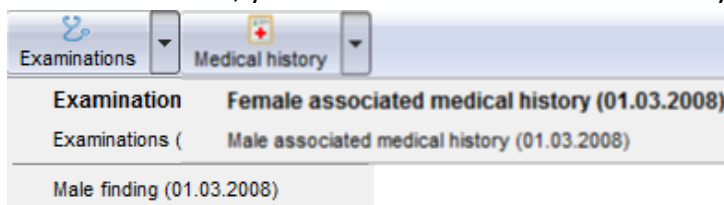
### 12) Report editor:

- a. It is now possible to create lists and analyzes to see whether documents are already available and which status is assigned to them. This information can be found at the Report editor under "Administration" -> "Documents."
- b. The letter templates can now be edited directly in the Report editor and in the program preferences. Please use this button:



### 13) Therapy:


- a. Window for creating a new therapy (treatment details): The input field "Survey ID" has been extended to another entry field "Randomization group".
- b. In the new toolbar, it is possible to open by pressing the "examinations" all examinations of the patient pair. Clicking on it opens the newest examinations. When clicking on the arrow next to the button, it is possible to select older ones chronologically.
- c. Also, on the menu bar of the therapy window, a new button "Medical history" was added. From this button, you can have the last medical history displayed.



### 14) Pregnancy:

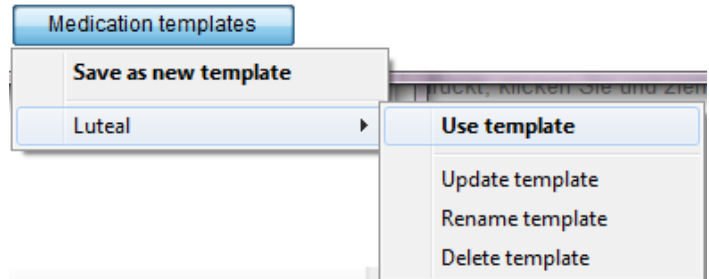
- a. It is now possible to document the pregnancy ultrasounds separately. Under Therapy -> Pregnancy -> "**Ultrasound**" you have another way of documenting the US of a therapy weekly.
- b. If a biochemical pregnancy was found and afterwards no clinical PG ("No PG") was detected, a new information will be displayed at the cycle overview as: "No (Biochem)".

### 15) Medication:

- a. **Medication prescription.** There is now the possibility to order new drugs immediately after the prescription of those medications, or during treatment planning. Please use the corresponding button on the medication mask. 

- b. "Drug code" was added to the Drugs editor in the Settings.

- c. The administration of medications was made easier with the addition of the button "Medication templates". Here you can create a template from the existing medication or save it for future prescriptions.



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## Bugs

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A number of diverse bugs has been fixed, among others:

**1) General:**

- a. The overall responsiveness of the program has been improved.

**2) Cycle:**

- a. The speed of dragging with a CTRL + click has been improved.  
b. Problems with the transfer of drug entries were corrected.  
c. Security check when editing billing type of a patient and it is different for the individual cycle and the medical history.

**3) Cryo:**

- a. Problem when opening the QM fields in the history of Cryo storage has been solved.  
b. Transferring of cryopreserved SPs of a sample ID was corrected in the Sperm cryo storage.

**4) QM / free fields:**

- a. List of material entries is alphabetically sorted.  
b. Queries with QM entries that have a start time later than their end time now display the correct result. The times are also listed.

**5) Quality assessment:**

- a. Floating point numbers are allowed in the counting fields. At WHO A, the number 0 can be set as result count.  
b. Concentration will only be retrieved after entering both counts and they are correct.  
c. Now it is possible to select a staff member to perform the counting.

**6) Report editor:**

- a. The fields "Sum of thawed cells" and "Planned start stimulation" were added in the Report editor.

#### **7) Culture:**

- a. The thaw day can be manually set to day 0.
- b. Some names of methods and terms were changed.
- c. The reason for aborting "Pronuclear stage arrest" is now accepted.
- d. Allocation of oocyte to the incubator was corrected.

#### **8) Pregnancy:**

- a. At the pregnancy calculation in the thaw cycles, the exact age of the embryo is taken into account.

#### **9) Plausibilities:**

- a. Problem solved when displaying plausibility messages.

#### **10) Ultrasound:**

- a. The entire ultrasound image is shown in the preview.

#### **11) Donation:**

- a. The Anonymous-ID of the donor is indicated in the tab "Donor info" in cycle overview and in "Treatments and treatment semen analysis" under Culture. It is only visible if an Anonymous ID had been created for this patient and the option is set in the system settings (System -> Configuration -> Settings -> System -> Functions -> Donation).
- b. Changes to the "visibility" of the donation area for each patient.

#### **12) Only for Italy:**

- a. It is possible to transfer five embryos.

## **Version 1.3.0**

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### **Features**

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#### **1.) General features:**

- a. An automatic text completion feature was integrated. In many text fields the program will offer entries previously entered in that field, filtered according to typed keys. Additionally, in note fields it is possible now to use the key combination Ctrl+Space to open a drop down list with all previously entered texts, filtered also according to typed keys.
- b. The new interface with "Labotect" incubators allows the automatic import of incubator protocols in MedITEX IVF.

## 2.) Cryo storage:

- a. Cryo storage mask was extended with a number of new fields, including the freezing and thawing methods and additional straw colour.

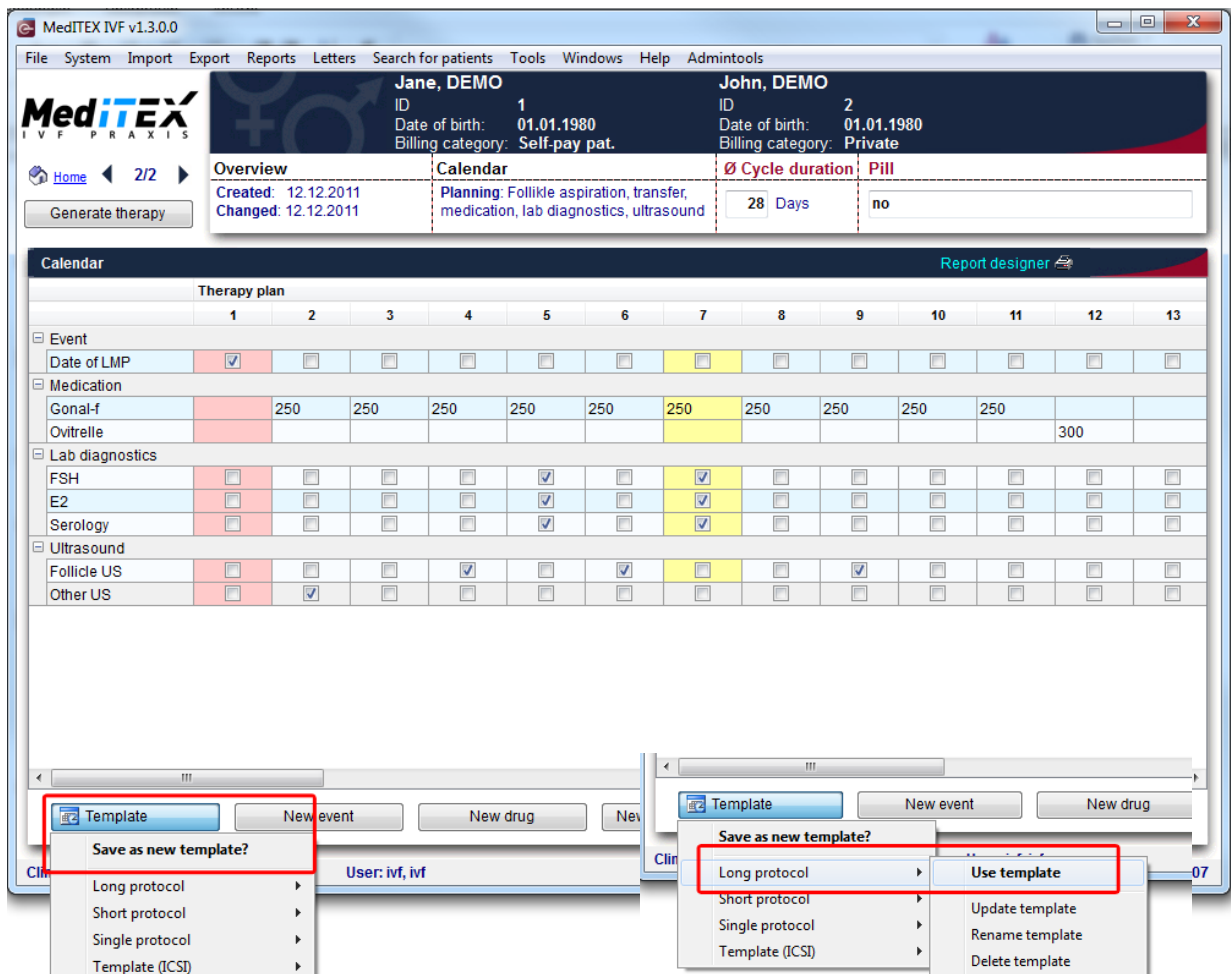
## 3.) Home screen:

- a. Among other important data from the medical history, the name of attending physician is also displayed.
- b. Therapies (cycles) are per default ordered by start date.

Fin: 01.03.2008 | Att. phys.: Doe, John | M.hist.: 01.04.2010 | Pretreat.: OP 0, OMIUI 0, ART 0 | CFTR: Not determined Chromos.: Not performed  
 Weight: 60 [kg] | BMI: 19,6  
 Prev. ill.: Nicotine intake

## 4.) Planned cycles:

- a. In therapy planning and in the form for creating new therapies it is now possible to choose a treatment protocol.
- b. The new functionality in calendar area offers the possibility to save the complete current planning as a template for future use. In this way, using the button "Template" in the lower left corner, the current plan for drugs administration, lab and ultrasound examinations, and other important events can be saved in one cycle and easily restored in another, without the need to enter all the data again.



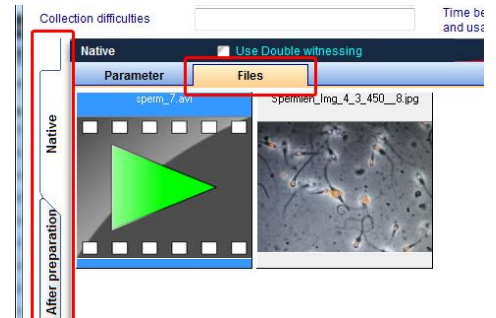
- c. After creating an active cycle out of planned therapy, the days with planned laboratory and ultrasound tests will be marked with a small red triangle and a hint "Examination planned".

## 5.) Transfer:

The development stage of the embryo is now also explicitly shown: “4 cells”, “8 cells” etc.

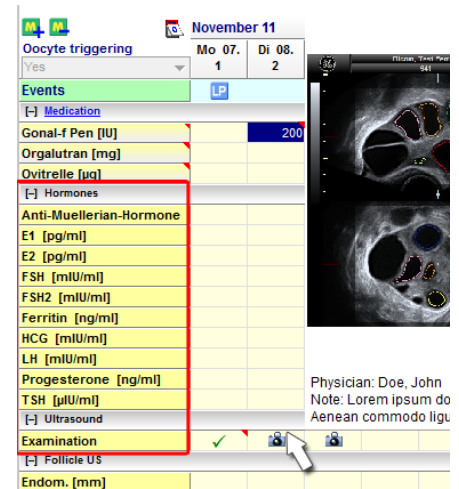
## 6.) Semen analysis (spermiogram):

- It is now possible to add videos and various documents in spermiogram.
- A dozen of new fields considering analysis and morphology of the sperms have been added.



## 7.) Cycle overview and luteal phase:

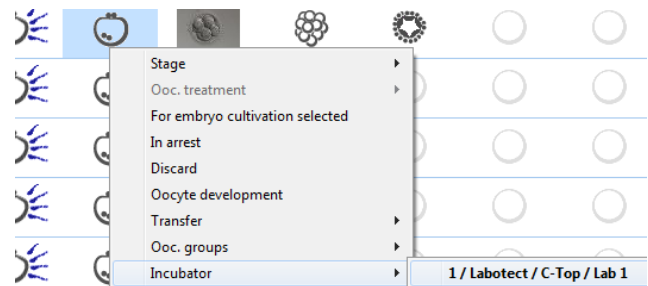
- Between Hormone and Follicle U.S. the new rows "Ultrasound" and "Examination" were inserted. In this way it is also possible to enter ultrasound data not directly related to follicle examination. If an image is available, a camera icon will be shown. If no image is available the green check symbol is displayed.
- In ultrasound form it is possible to enter the physician and the note, and to attach videos.
- Physician name, note and ultrasound preview image will be shown in a hint, if the mouse stands over a cell with a camera or check symbol.
- The parameters shown in the overview are no more constrained to 5 most important hormones. From now on it is possible to select any laboratory parameter for display in the cycle overview (see point 10.b.ii). The parameters are grouped automatically into groups that can be collapsed and expanded at will.



## 8.) Culture:

- New embryo stadium is introduced: “Start of cavitation”, between “Morula” and “Early blastocyst”.
- Besides images, it is now possible to attach videos also.

- For each oocyte/embryo it is now possible to enter the incubator data, either over the context menu in the graphical culture representation, or in the development form for each embryo. Information about incubators used in the clinic can be defined in system settings.

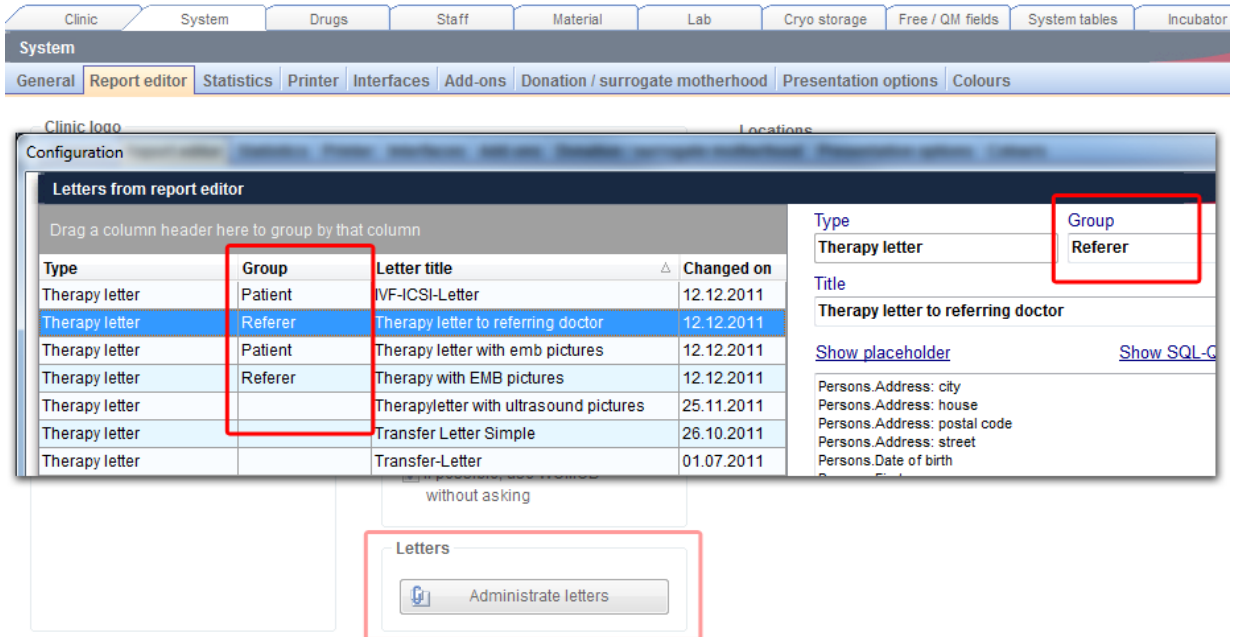


## 9.) Patient data:

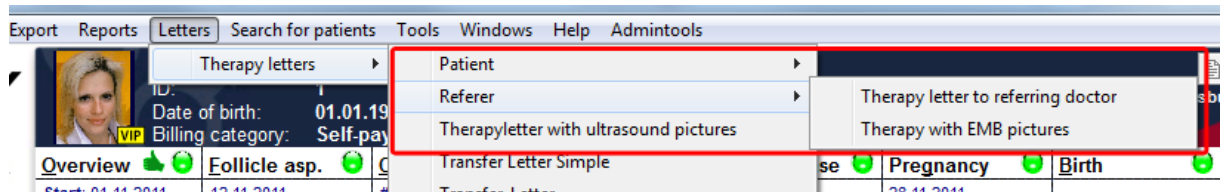
Two new fields have been added: “Birth place” and “State”.

## 10.) System settings:

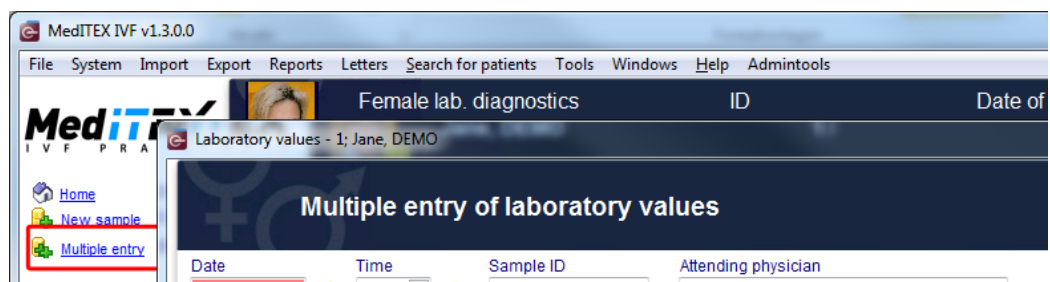
- a. Grouping of letters: in the administration of report editor letters (Settings→System→Report editor→Administrate letters) it is now possible to define a “subgroup” for each letter. It is enough to write the group name in the field “Group”, or to select one of the existing ones.



The letters belonging to the same group will be grouped in a submenu item with the group name.



- b. In the "lab" tabsheet it is now possible for each parameter to define the following:
- If a parameter should appear in the home screen, in the list of lab tests. The result of the most recent examination will be shown.
  - If a parameter should appear in the calendar of therapy overview (as described in the point 6.d).
  - If a parameter should be offered in the mask for fast entry of more parameters at once, “Multiple entry in laboratory values”, in laboratory diagnostics.



- iv. Validity period for each parameter. The choices offered are "unlimited", "2 weeks", "1 month", "3 months", "6 months" and "12 months". If the validity period of a parameter shown in the lab diagnostics or in the home screen has expired, or the parameter has not been examined at all, the parameter row will be marked in red.

- c. The item list of the field "Group" for lab parameters can now be freely extended by user defined groups, in "System→Settings→System tables→Laboratory parameter: group".
- d. In the clinic data, it is now possible to enter the clinic's state/province. Provinces can be added/edited in "System→Settings→System tables→Provinces".
- e. Different personal customizations can be saved per user, in the "Edit staff data" form of the staff area. So it is possible to set the visibility of "up/down" buttons in the table representation of culture, or to define the size of the preview images in hints (embryo images in culture and ultrasound images in therapy overview).
- f. The basis for the automatic calculation of the current pregnancy week, abort week and birth week can be set as
- Fertilization day (default), or
  - Reference date (Last menstrual period or treatment start date).

## 11.) Report editor:

- a. A certain number of tables and fields in report editor have been revised, in order to ease the creation of user-defined queries. As a consequence it may happen in rare cases that some existing queries can no more be executed.

If you encounter such a problem, please contact directly the software support. We will help you to restore the query in question. The support can be reached

Mon. to Thu. **from 8:30 CET to 17:00 CET**  
 Friday **from 8:30 CET to 14:00 CET**  
 Hotline **+49 941 56 99 87 70**  
 Email [support@critex.de](mailto:support@critex.de)  
 Fax **+49 941 56 99 77 40**



- b. In the report editor results window it is now possible to refresh the result with the "Refresh" button, without the need to go back to query design window and run the query again.
- c. For letter templates created in Word module there are several new "additional placeholders" now available: for ultrasound images, similarly to embryo images, and for current date and time.
- d. To facilitate evaluations over different couples, the new field "couple" in therapy and inseminations table was introduced.

## 12.) System settings – interface to MedITEX Scheduler:

Automatic generation of appointment proposals in **MedITEX IVF** (possible only in conjunction with the **MedITEX Scheduler** - see also feature point 16):

In "System settings→System→Interfaces→MedITEX Scheduler" you will find a list of certain events, which trigger the automatic generation of appointment proposals.

The screenshot shows the MedITEX Scheduler interface. At the top, there are tabs for 'Clinic', 'System', 'Drugs', 'Staff', 'Material', 'Lab', 'Cryo storage', 'Free / QM fields', 'System tables', and 'Incubator'. The 'System' tab is selected. Below this, there are sub-tabs for 'General', 'Report editor', 'Statistics', 'Printer', 'Interfaces', 'Add-ons', 'Donation / surrogate motherhood', 'Presentation options', and 'Colours'. The 'Interfaces' sub-tab is selected. Underneath, there are two sub-sections: 'Intern' and 'Extern'. The 'Data import' section contains two input fields: 'Path to FM data tank' and 'DEMO database' (with the value 'C:\DB\ESHREVRT.FDB'). Below these are two buttons: 'Import QM from FM (data tank)' and 'Import data from DEMO database'. The main section is titled 'MedITEX Scheduler' and contains a table of 'Automatic appointment suggestions - triggering events'.

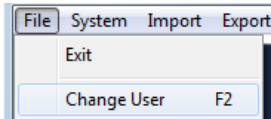
No.	Event	Active	h (hours)	Appointment / Treatment	Rule	Description
1	Ovulation induction (insemination)	<input checked="" type="checkbox"/>	36	Insemination	None	Prescription of a drug for oocyte triggering generates automatically an appointment proposition (start date and time (drug) + h (time after the event, in hours)).
2	Ovulation induction (follicle aspiration)	<input checked="" type="checkbox"/>	36	Follicle aspiration b	None	Prescription of a drug for oocyte triggering generates automatically an appointment proposition (start date and time (drug) + h (time after the event, in hours)).
3	Transfer date	<input checked="" type="checkbox"/>	0	Transfer	None	Setting of a transfer date generates automatically an appointment proposition (trasfer date + time + h (time after the event, in hours)).
4	Transfer date	<input type="checkbox"/>	336		If appointment falls on weekend, propose it on following Monday	Setting of a transfer date generates automatically an appointment proposition (trasfer date + time + h (time after the event, in hours)).

In this way it is possible to define appointment proposals for insemination, aspiration, transfer, or pregnancy test. If an event is triggered, an appointment proposal will appear in MedITEX Scheduler, with the patient name, estimated appointment date and time, and treatment. The administration of an oocyte-triggering drug, for example, will generate an appointment proposal for oocyte aspiration, which should take place 36 hours after the drug administration. In another example the setting of a transfer date in MedITEX IVF in the future will generate a transfer appointment proposal in MedITEX Scheduler.

The user can change the following settings for each of predefined events:

- **Active:** Defines if an event triggers an appointment or not.
- **h (time after the event):** Defines the start of the appointment, in hours, after the date and time of the triggering event.
- **Appointment / Treatment:** All treatments defined in Scheduler can be chosen here.
- **Rule:** An additional condition for the start time of the proposed appointment.

**13.) Main menu:**

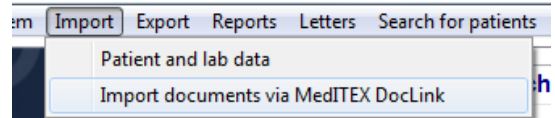


Over the menu item "File→Change User" users can now only switch to another user, or log off. In order to continue using the program with the same user it is necessary to enter the password first.

**14.) Interfaces:**

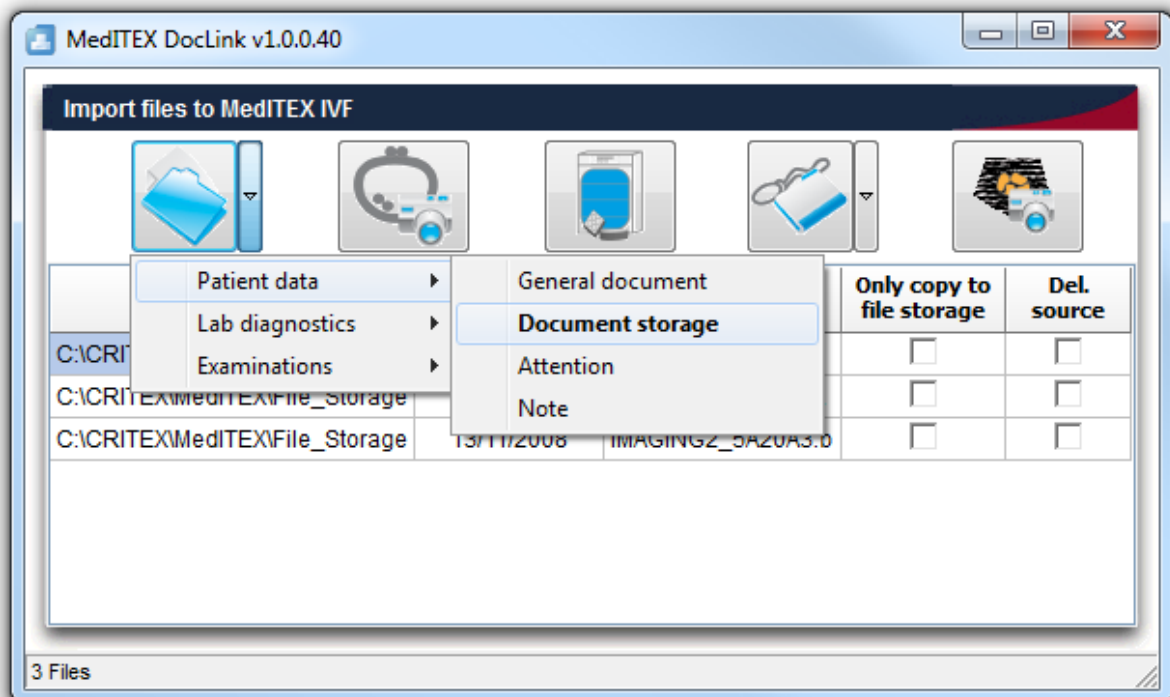
- a. Interface to **Synlab**: Web orders of laboratory parameters with Synlab.
- b. **MedITEX DocLink**

The new Add-On "MedITEX DocLink" enables quick and easy importing of files into the different areas of MedITEX IVF.



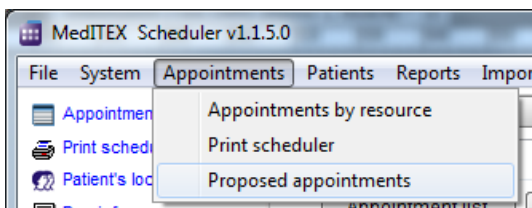
The files to be imported can be sent with the right mouse click directly to MedITEX DocLink. The other possibility is to drag and drop them directly into the opened MedITEX DocLink window. Using the buttons in top area the document(s) can be stored for one patient in different program areas:

1. Patient document storage
  - a. Patient data (general document, attention message, note)
  - b. Laboratory diagnosis (grouped after laboratory values)
  - c. Examination (in all existing examination types)
2. Oocyte/Embryo development
3. Incubators
4. Semen analysis (general, native, preparation)
5. Ultrasound examinations

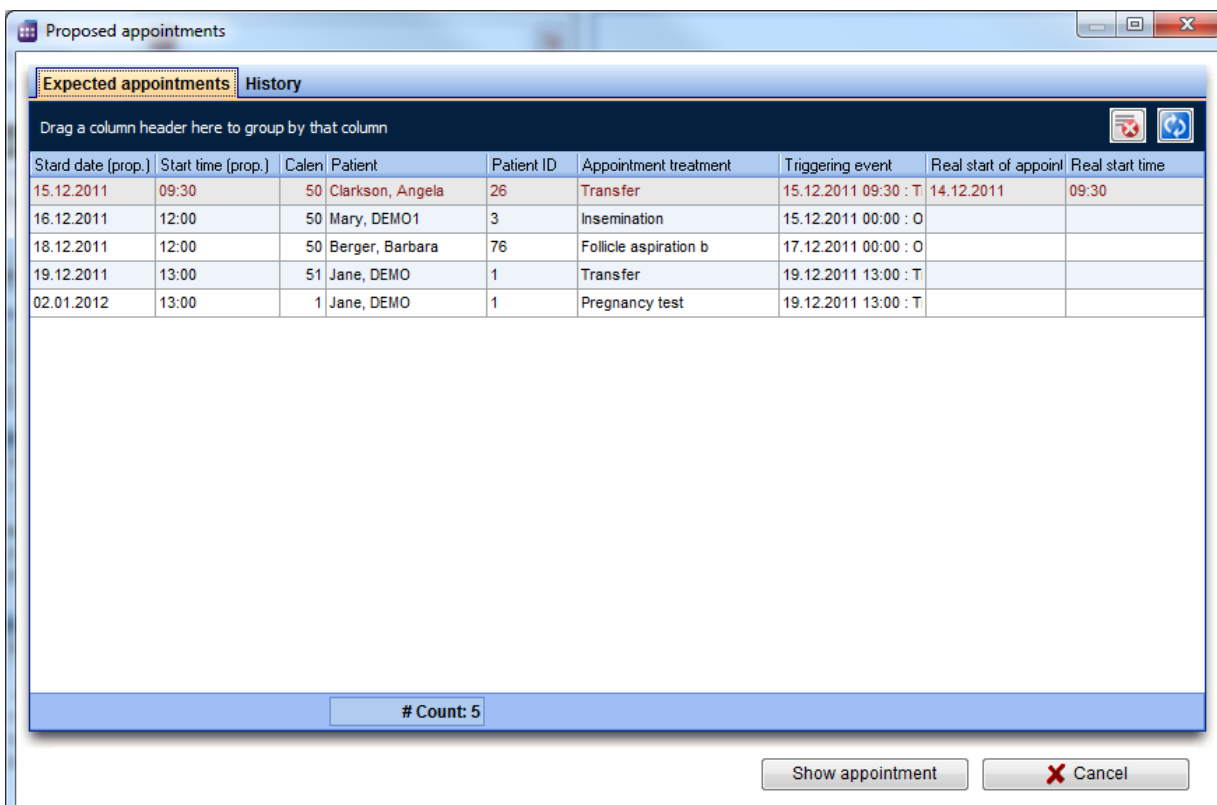


## 15.) MedITEX Scheduler

### a. Automatic proposal of appointments:

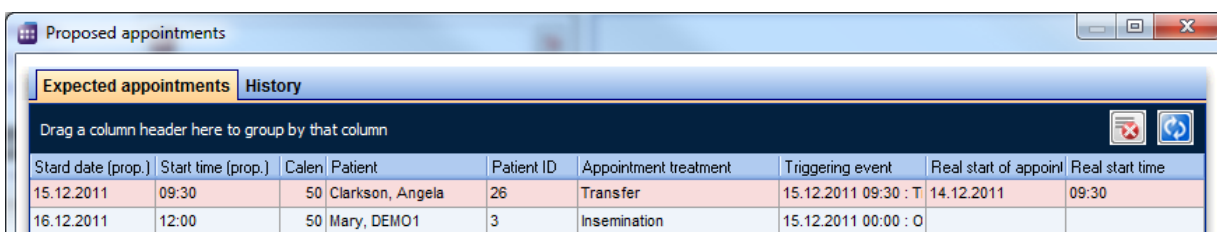


An automatic generation of proposed appointments is now possible (e.g. for aspiration, insemination, transfer etc.). If the appropriate rules have been defined and activated in system settings of MedITEX IVF (see also point 12), the corresponding event will automatically generate a proposed appointment in the scheduler, if the date is not in the past. All proposed appointments can be reviewed in MedITEX Scheduler under “Menu→Appointments→ Proposed appointments”.

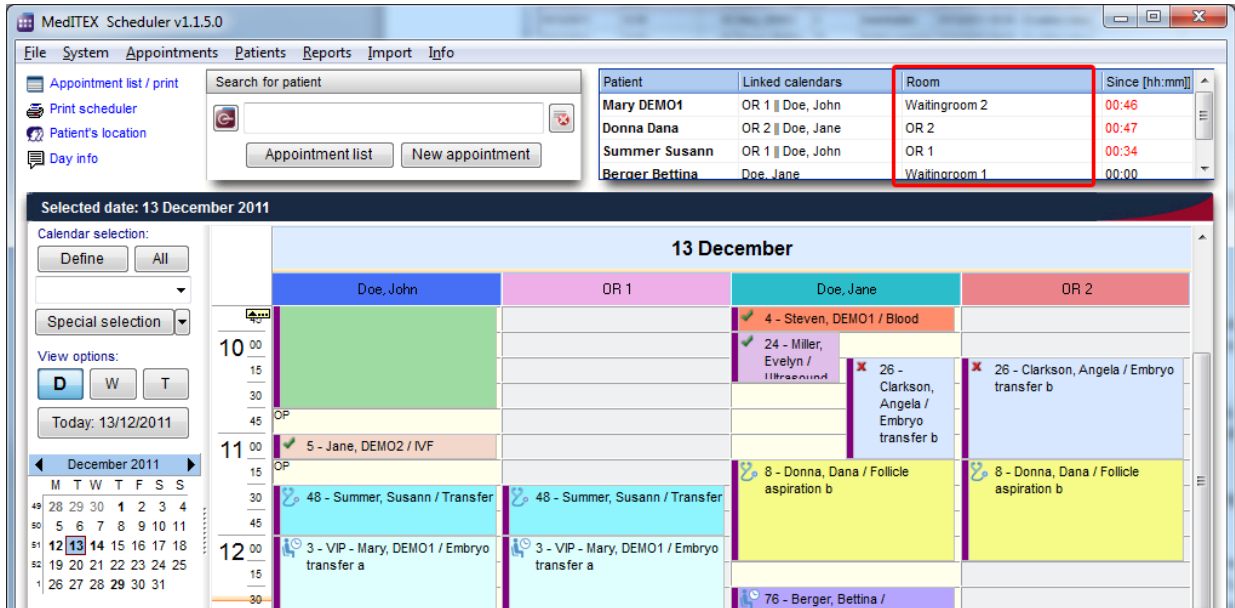


By double clicking on a cell (or by clicking the button "Take over appointment"), the appointment input mask will be opened with the proposed data - patient, treatment, appointment start – already filled out, if no active appointment already exists. User can now edit the appointment data and save it, thus creating an active and “real” appointment. The corresponding proposed appointment will automatically be transferred to the tab-sheet “History”, with the information about the start of the generated appointment. By double-clicking the line with the proposed appointment to which an active appointment already exists (e.g. has already been generated), the “real” appointment will be opened.

If the triggering event in MedITEX IVF has changed in time, the corresponding appointment will be automatically transferred back to the tab-sheet "Proposed appointments", and marked in red (only if the corresponding “real” appointment lies still in the future). In this way the user can immediately react if something changes in the planning.

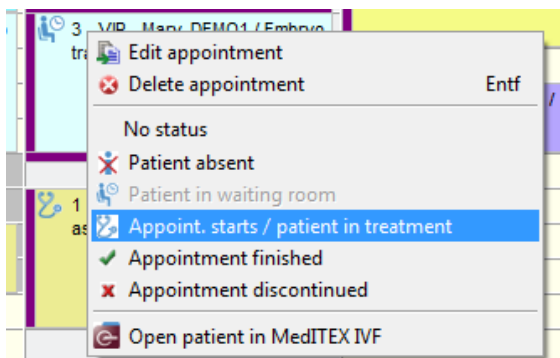
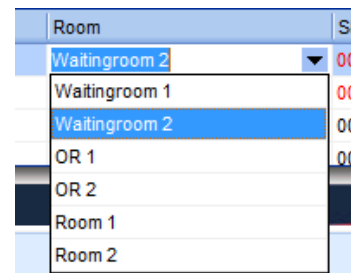


b. Patient location:



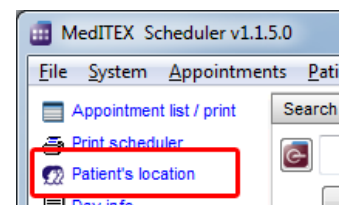
The virtual waiting room has been expanded and converted into the “patient locator”. In the column "Room" it is now possible to select a room where the patient is presently located. In the column "Since [hh:mm]" the time is displayed, since when the person is in that room.

As before it is possible to drag the whole appointment and drop it in the patient location area. The “Waiting room 1” will be automatically entered in the location column, and the appointment status will be set to “Patient is in waiting room”.



The status of the appointment can be edited via the context menu that appears on right-clicking the appointment, or via the context menu in the patient location area.

In the details window "Patient's location", which can be invoked over the link in the upper left corner of the main window, it is possible to see more details about the actual location and appointment of each patient currently present in the clinic. Here it is also possible to filter the data by a particular calendar, so that only the appointments related to that calendar are displayed.



Patient's location

Patients

Filter after resource: **Doe, John**

Patient	Appointment begin	Treatment	Resource	Patient in room	Since [hh:mm]	Total time sir
Mary DEMO1	13/12/2011	Embryo transfer a	OR 1    Doe, John	Waitingroom 2	01:10	01:11
Summer Susann	13/12/2011	Transfer	OR 1    Doe, John	OR 1	00:18	01:10
Jane DEMO	13/12/2011	Follicle aspiration a	OR 1    Doe, John	OR 1	00:15	00:16

The rooms can be defined in the program settings (Menu: "System→Settings") as a calendar with the **group type** "Room". Additionally it is possible in general settings to specify the total number of all waiting rooms.

System

Waiting limit

The colour of the waiting time in the virtual waiting room changes to red if a patient is waiting longer than the limit.

Number of waitingrooms

MedITEX Scheduler v1.1.5.0

File System Appointments Patients Reports Import Info

## SETTINGS

Home

General **Calendar** Working times and constraints Treatments

A group has to be assigned to each calendar. The groups differ in the type person/staff (doctor, assistance, etc.) and the type object (room, device, etc.).

**Group**

Name	Group type
Doctor	Person
Medical assistant	Person
Room	Room
Device	Object
Co-worker	Person

**Calendar**

Drag a column header here to group by that column

Calendar name	Group	Group type	Active calendar
Assistance, Miss	Medical assistant	Person	<input checked="" type="checkbox"/>
Doe, Jane	Doctor	Person	<input checked="" type="checkbox"/>
Doe, John	Doctor	Person	<input checked="" type="checkbox"/>
Jones, Mary	Medical assistant	Person	<input checked="" type="checkbox"/>
OR 1	Room	Room	<input checked="" type="checkbox"/>
OR 2	Room	Room	<input checked="" type="checkbox"/>
Room 1	Room	Room	<input checked="" type="checkbox"/>
Room 2	Room	Room	<input checked="" type="checkbox"/>