


Sperm Analysis

User Instruction



The Andrology information entered into RESource includes semen analysis results and cryopreservation records. If the male is simply entered as a partner record within the (female) patient chart, all Andrology information is entered under the female. If the male is entered as his own patient and there is no link to another patient, then the Andrology information is entered under his chart. If the male and female patient records are entered separately and then linked, it won't matter whose chart the information is entered under, but it's good practice to be consistent and enter it under the female. For more information on patient versus partner records and how to link patient charts, refer to the Patient Services section.

Sperm Analysis

The Sperm Analysis History is accessed for a patient by selecting Sperm Analysis under the Male menu, by clicking Ctrl A or by clicking the shortcut icon . The Sperm Analysis History window that appears will display all sperm analyses entered for that patient, including those from the Embryology lab (sperm analysis entry via the Embryology lab will be discussed later in this section).

Source	Date	Purpose	Vial/As#	Initial					Post Wash					NL (%)	Emb Lab	
				G0	G1	G2	G3	G4	Tot Mot	G0	G1	G2	G3			G4
aaaaa, bbbbbb M	10/12/04	N/A														<input checked="" type="checkbox"/>
aaaaa, bbbbbb M	10/12/04	N/A														<input checked="" type="checkbox"/>
aaaaa, bbbbbb M	11/24/03	IVF	3						0.00						0	<input checked="" type="checkbox"/>
Jimmy, James .	01/09/03	N/A														<input checked="" type="checkbox"/>
Jimmy, James .	06/13/02	Insemination		21	0	24	40	15	15.28	0	36	0	12	32	2.00	<input type="checkbox"/>
Jimmy, James .	06/13/02	N/A														<input type="checkbox"/>
aaaaa, bbbbbb M	01/17/02	N/A														<input type="checkbox"/>

The Sperm Analysis History window displays:

- Source** - sperm source
- Date** - analysis date
- Purpose** - analysis purpose
- Vial/As#** - vial number
- Initial G0–G4** - initial percentage of Grade 0 through Grade 4
- Initial Tot Mot** - initial total motile
- Post Wash G0–G4** - post wash percentage of Grade 0 through Grade 4
- Post Wash Tot Mot** - post wash total motile
- NL (%)** - percent normal
- Emb Lab** – when checked this indicates the analysis was done via the embryology lab (entered specifically for an embryology procedure such as IVF)

Each of the above fields simply display data entered in the semen analysis form(s).

To create a new Sperm Analysis:

1. Click the **New** button on the history form.

Note: The semen analysis form has nine sections with multiple fields. Some of these sections can be customized for your facility. Your REsource administrator can change the available options in any of the dropdown lists.

The screenshot shows a software window for semen analysis with the following sections:

- Work Required:** Wash Required (checkbox), Antibodies Required (checkbox), Wash Type: N/A (dropdown), Submit for Review (checkbox), Reviewed (checkbox), Sent: (text field), OK, Cancel, Print, Get Cryo'd.
- General:** Source: aaaaa, Joey (dropdown), Spec For: N/A (dropdown), Liquefaction: N/A (dropdown), Layers: 0 (text), Urologist: (text), Comments: (text area), Analysis Date: 05/10/2005 (dropdown), Vial Number: (text), Split Ejaculate: N/A (dropdown), Collect Date: (dropdown), Collect Meth: (dropdown), Chymotrypsin Used (checkbox), Frozen (checkbox), Percoll Vol: 0 (text), Days of Abs: (text), Media Added: (text), Performed At: Morristown (dropdown).
- Description:** Viability: (text), WBC: (text), Debris: (text), RBC: (text), Epithelial Cells: (text), pH: (text), Agglutination: (text), Fructose: (dropdown).
- Sperm Data:** Tech IA: (dropdown), Time IA: (text), Clear IA (button), Tech PW: (dropdown), Time PW: (text), Clear PW (button), Tech C: (dropdown), Time C: 12:00 AM, Clear C (button).
- Morphology:** MorphType: Standard (dropdown), Tech: (dropdown), Morph(%NI): (text), Amorph: (checkbox), %Abrn: (text), %No Acro: (checkbox), Rnd Heads: (text), Large Heads: (text), Pin Heads: (text), Neck Defects: (text), %Vac: (text), %Cyto Drops: (checkbox), Tail Defects: (text), Duplicates: (text), Tapered: (text), 2nd Morph(%NI): (text), %Elong: (text).
- Antibodies:** Direct Antibodies % Binding table, Indirect Antibodies % Binding table.
- Sperm Survival:** Clear Today, Clear 24hr, Tech, Time, Motility, Prog table.
- Recommendations:** (text area), Modify (button).

2. Fill out the required field in this window. Many of the fields are straightforward and are not individually defined – others are listed below, by section within the form.

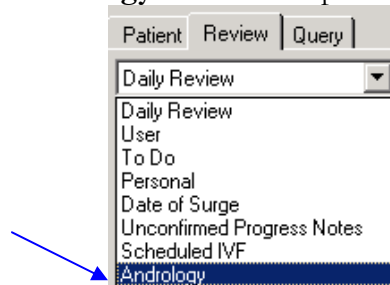
Work Required

This section pertains to the testing that will be performed on the specimen. Select accordingly.

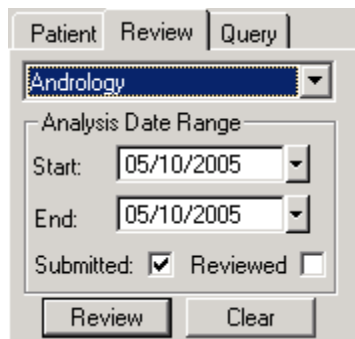
Review

- **Submit for Review** – when the semen analysis has been completed and the form is ready for review (by a lab director, etc), ‘Submit for Review’ can be checked. The reviewer can then access all analyses submitted for review via the Patient Explorer:

1 - In the Patient Explorer, click the **Review** tab and select **Andrology** from the dropdown list



2 – Select a date range by entering a start date and an end date (the date range applies to the analysis date)



3 – check off **Submitted** and click **Review**. The patient list will appear in the explorer where each analysis history can be accessed and the analyses reviewed (see below).

- **Reviewed** – when the semen analysis has been reviewed, **Reviewed** can be checked. All reviewed analyses can be accessed through the Patient Explorer:

1 – Follow steps 1 and 2 above

2 – Check off **Reviewed** and click **Review**. The patient list will appear in the explorer


- **Sent** – this field will populate with a date and time when the semen analysis has been printed.

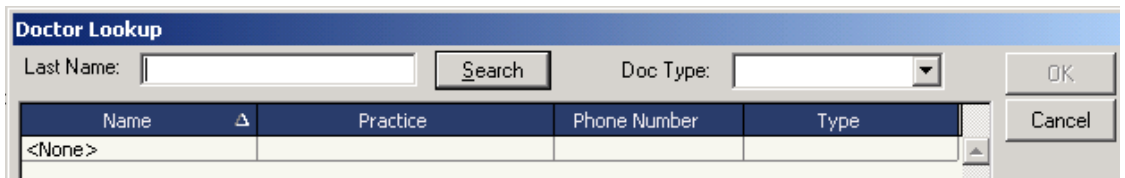
NOTE: This only applies to SA forms completed via the embryology lab and to SA forms completed for reference patients. (A reference patient is

someone who is utilizing the laboratory only and who has **Ref Pat** checked off in their Patient Details – see the Patient Services section for more details)

General

In this section, there are fields that refer to the semen analysis testing. Those fields are self explanatory. Other field definitions are defined below:

- **Source:** Select patient whose sample was collected.
- **Analysis Date:** Select date of collection. The field will automatically default to the current day's date.
- **Analysis Time:** This will default to the current time the window was opened.
- **Collection Date:** If different than the current date, select the date the specimen was collected.
- **Collection Time:** If different than the current time, manually enter the time of specimen collection.
- **Urologist** – clicking the lookup button  will display a Doctor Lookup window. Enter the doctor's last name and click **Search**. Select the correct physician from the list that appears and click **OK**. (For more information on how to use the Doctor Lookup see the Patient Services section.)



Name	Practice	Phone Number	Type
<None>			

- **Days of Abs** – Days of Abstinence
- **Percoll Vol** – enter the amount of Percoll or other medium/gradient solution used (Enhance S-Plus, Isolate)
- **Media Added** – enter the amount of media added to the specimen (viscous specimen, low semen volume, specimen wash, etc)

Description

Each field in this section, with the exception of Fructose is a text field where numbers or letters can be entered. A (+) or (-) sign can also be entered.

Sperm Data

- **Tech IA** – Tech Initial Analysis
- **Time IA** - Time Initial Analysis
- **Clear IA** – clicking this button will clear all initial analysis information
- **Tech PW** – Tech Post Wash
- **Time PW** – Time Post Wash
- **Clear PW** – clicking this button will clear all post wash information
- **Tech C** – Tech Collection (only enabled when accessing the SA form through the embryology section)
- **Time C** – Time Collection (only enabled when accessing the SA form through the embryology section)
- **Tot Mot** – Total Motile. This value is calculated by the system.
Formula: $(\text{Grade1} + \text{Grade2} + \text{Grade3} + \text{Grade4} / 100) * \text{Concentration} * \text{Volume}$

Morphology

Each field in this section, with the exception of Morph Type and Tech, represent percentages.

- **Morph Type** – Select the type of standard (such as Kruger) used to evaluate the morphology of the sperm.
- **Tech** – Select the initials of the tech who examined the morphology of the sperm.

Antibodies

This section has a grid for direct and a grid for indirect antibody binding. Enter percentages where appropriate.

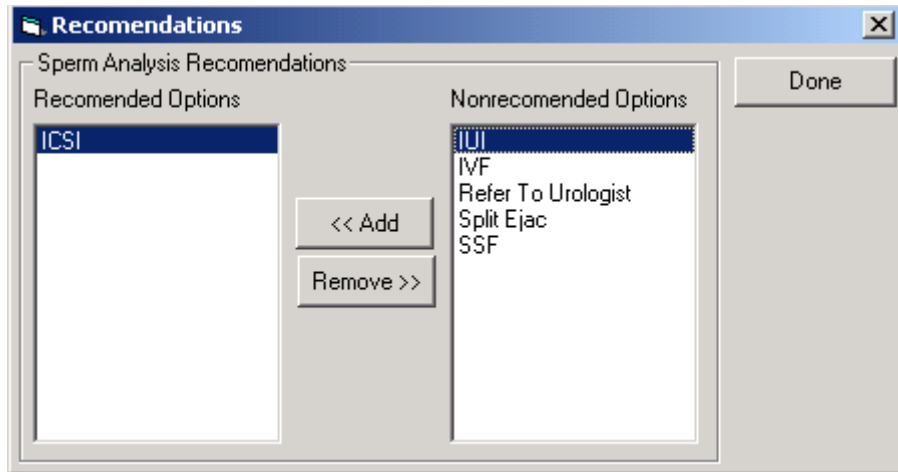
Sperm Survival

- **Clear Today** – clicking this button will clear all information in the Today row of the grid
- **Clear 24hr** – clicking this button will clear all information in the 24 hr row of the grid
- **Motility** – enter a number
- **Prog** – enter a number for Progression

Recommendations

This is a comment section to indicate any recommendations

- **Modify**- click this button to display the Recommendations window. Select any applicable options from the **Nonrecommended Options** list and click the **Add** button. Your REsource administrator can add additional available options.



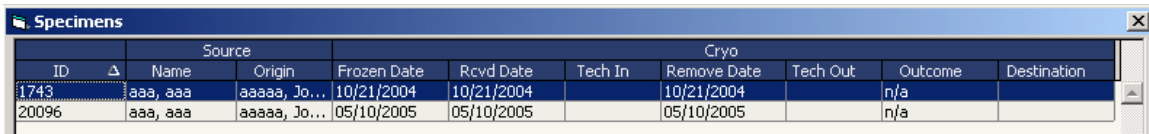
Useful Links

On the right hand side of the sperm analysis window are two useful buttons:



Print: Clicking the print button will print out the semen analysis form. Note that if you do not have sufficient permissions (i.e. Admin or Andrology), the form must be marked as Reviewed in order to be printed.

Get Cryo'd: When in a new semen analysis form, clicking this button will display the Specimens window which contains any specimens the selected patient has logged in the cryo tanks. To check out a specimen for analysis, select the specimen and click Check Out. Any applicable fields will populate with the information from the stored specimen.



ID	Source			Cryo					
	Name	Origin	Frozen Date	Rcvd Date	Tech In	Remove Date	Tech Out	Outcome	Destination
1743	aaa, aaa	aaaaa, Jo...	10/21/2004	10/21/2004		10/21/2004		n/a	
20096	aaa, aaa	aaaaa, Jo...	05/10/2005	05/10/2005		05/10/2005		n/a	

3. Once finished testing, evaluating and entering, click **OK** to return to the 'Sperm Analysis History window.'