Med Software LLC
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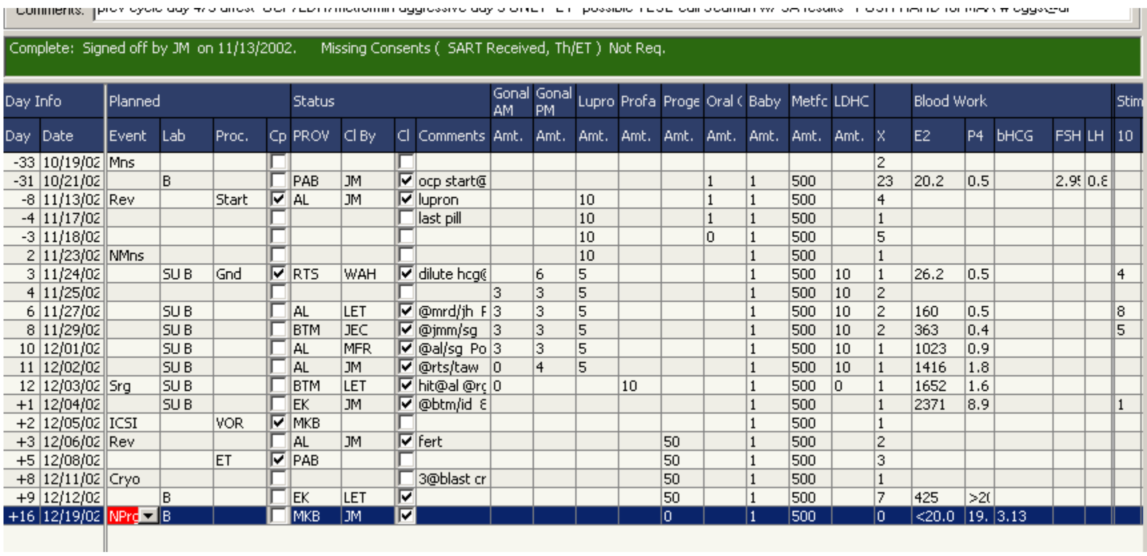
Version: 2
Page: 1 of 16

Stim Sheet

User Instruction

A Stim Sheet (stimulation sheet) is created for each cycle. Upon the creation of a cycle, a single stim row with the current date is also created – from there; the physician and nurse create stim rows as needed. A single stim row contains a cycle day number, a date and fields for: events and procedures, lab orders, called/instructions delivered medications, blood work results and ultrasound findings.



Complete: Signed off by JM on 11/13/2002. Missing Consents (SART Received, Th/ET) Not Req.

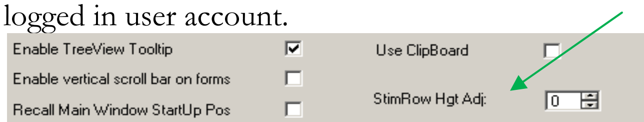
Day Info		Planned				Status				Gonal AM	Gonal PM	Lupro	Profa	Proge	Oral (	Baby	Metfc	LDHC		Blood Work					Stim
Day	Date	Event	Lab	Proc.	Cp	PROV	Cl By	Cl	Comments	Amt.	Amt.	Amt.	Amt.	Amt.	Amt.	Amt.	Amt.	Amt.	X	E2	P4	bHCG	FSH	LH	10
-33	10/19/02	Mns			☐			☐											2						
-31	10/21/02		B		☐	PAB	JM	☑	ocp start@						1	1	500		23	20.2	0.5		2.9	0.8	
-8	11/13/02	Rev		Start	☑	AL	JM	☑	lupron			10			1	1	500		4						
-4	11/17/02				☐			☐	last pill			10			1	1	500		1						
-3	11/18/02				☐			☐				10			0	1	500		5						
2	11/23/02	NMns			☐			☐				10				1	500		1						
3	11/24/02		SU B	Gnd	☑	RTS	WAH	☑	dilute hcg@		6	5				1	500	10	1	26.2	0.5				4
4	11/25/02				☐			☐		3	3	5				1	500	10	2						
6	11/27/02		SU B		☐	AL	LET	☑	@mrd/jh F	3	3	5				1	500	10	2	160	0.5				8
8	11/29/02		SU B		☐	BTM	JEC	☑	@jmm/sg	3	3	5				1	500	10	2	363	0.4				5
10	12/01/02		SU B		☐	AL	MFR	☑	@al/sg Po	3	3	5				1	500	10	1	1023	0.9				
11	12/02/02		SU B		☐	AL	JM	☑	@rts/taw	0	4	5				1	500	10	1	1416	1.8				
12	12/03/02	Srg	SU B		☐	BTM	LET	☑	hit@al @rg	0			10			1	500	0	1	1652	1.6				
+1	12/04/02		SU B		☐	EK	JM	☑	@btm/id 8							1	500		1	2371	8.9				1
+2	12/05/02	ICSI		VOR	☑	MKB		☐								1	500		1						
+3	12/06/02	Rev			☐	AL	JM	☑	fert					50		1	500		2						
+5	12/08/02			ET	☑	PAB		☐						50		1	500		3						
+8	12/11/02	Cryo			☐			☐	3@blast cr					50		1	500		1						
+9	12/12/02		B		☐	EK	LET	☑						50		1	500		7	425	>2(				
+16	12/19/02	NPro	B		☐	MKB	JM	☑						0		1	500		0	<20.0	19.	3.13			

When a cycle is selected and the stim sheet appears, if the current date exists in the stim sheet it will automatically be selected – a stim row for the current date will be highlighted in green when selected, while all other dates will appear highlighted in blue when selected.

The stim sheet is divided into sections: Day Info, Planned, Status, Medications, Blood Work, Stim Ultrasound – R, Stim Ultrasound - L, USS, and Preg Ultrasound. There is a scroll bar at the bottom of the stim sheet to view the ultrasound data if it isn't visible.

TIP: On the Resource main toolbar, under **Tools**, then **Options**.
Added option to adjust the stim row height (green arrow)by a percentage (i.e. 30 = 30% increase in row height) for the logged in user account.

Resource Options Window:



Day Info

Day Info	
Day	Date

Day – represents the cycle day number. The day numbers are automatically normalized according to one event and one procedure. When the procedure of Gnd is entered, indicating the start of gonadotropin medication, the day number for that stim row becomes 3. When the event of Srg (indicating LH surge or administration of hCG) or NSrg (indicating a "normalized or theoretical" LH surge as in a synthetic cryo, recipient or OD prep cycle) is entered the following date becomes +1. All other day numbers will adjust accordingly when these are entered.

Date – stim row date. Adding new stim dates/rows is explained later in this section.

Planned

Planned			
Event	Lab	Proc.	Cp

Event – upon clicking on a field in the event column, a dropdown list will appear with all available event options for that cycle. They include, but are not limited to:

+ICN	(+) Preg Test via ICON
+OPK	(+) Ovulation Predictor Kit
-ICN	(-) Preg Test via ICON
-OPK	(-) Ovulation Predictor Kit
Canc	Cancelled
Cryo	Cryo Embryos
Deliv	Delivered
Dhit	Donor was hit with hCG
Hatch	Assisted Hatching
HOM	High Order Multiple (>=3 FH)
IC	Intercourse
ICSI	ICSI
Loss	Pregnancy Loss
Mns	Menses
NMns	Normalized Menses
NoEt	No Embryo Transfer
NPrg	Not Pregnant, (-) Serum Test
NSrg	Normalized Surge
PGD	Pre-Implantation Genetic Diag
Preg	Pregnant, (+) Serum Test
Rest	Rest this cycle
Rev	Review
Srg	Surge
TAB	Therapeutic Abortion
With	Withdrawn

Procedure - upon clicking on a field in the proc. column, a dropdown list will appear with all available procedure options for that cycle. The **Cp** (completed) column to the right of the Proc. column should be checked off when the procedure is complete. The stim sheet allows you to create stim rows for future dates and to plan for procedures – until Cp is checked off, the procedure is considered planned and not yet completed. They include, but are not limited to:

CVS	Chorionic Villus Sampling
D&C	Dilation and Curretage
Dop	Doppler
Dsch	Discharged
Ebx	Endometrial Biopsy
End	End of Cycle
ET	Embyro Transfer
FzAll	Freeze All
GIFT	Gamete Intrafallopian Tube Trans
**Gnd	Gonadotropins (start of gnd medication)
GUT	Gamete Uterine Transfer
HSG	Hysterosalpingogram
ICI	IntraCervical Insemination
Inj	Injection
ITIB	Intratubal Insemination-Bilateral
ITIL	Intratubal Insemination-Left
ITIR	Intratubal Insemination-Right
IUI	IntraUterine Insemination
LOR	Laparoscopic Oocyte Retrieval
ObLt	OB Letter Dictated
ObSnt	OB Letter Sent
OR	Surgery
PCT	Post Coital Test
**Start	Start Cycle
TET	Tubal Embryo Transfer
Th/ET	Thaw/Embryo Transfer
Thaw	Thaw
VCA	Vaginal Cyst Aspiration
VOR	Vaginal Oocyte Retrieval
VP	Vaginal Paracentesis

** Start indicates that the cycle has started, while Gnd indicates stimulation has started. The Start procedure has different definitions depending on the cycle/stim type you are dealing with.

Cycle/Stim Type	Start	Gnd
RE	Mns (Day 1)	Upon stimulation
ER (synthetic)	Lupron	Upon stimulation
Microflare	NMns (Day 1)	Microdose Lupron
LDR	Lupron	Upon stimulation
Antagonist	NMns or Mns	Upon stimulation
Cryo Synthetic	Lupron	Estrace
Cryo Natural	Mns	Day 3 (to normalize cycle)

Entering Events and Procedures in the stim sheet also has an effect on the cycle status. The system will automatically change the cycle status according to items entered in the stim sheet; however the cycle status can always be manually changed to override any system change. Please see Appendix A, attached to the end of the Clinical section, for all system rules and status changes associated with Events and Procedures.

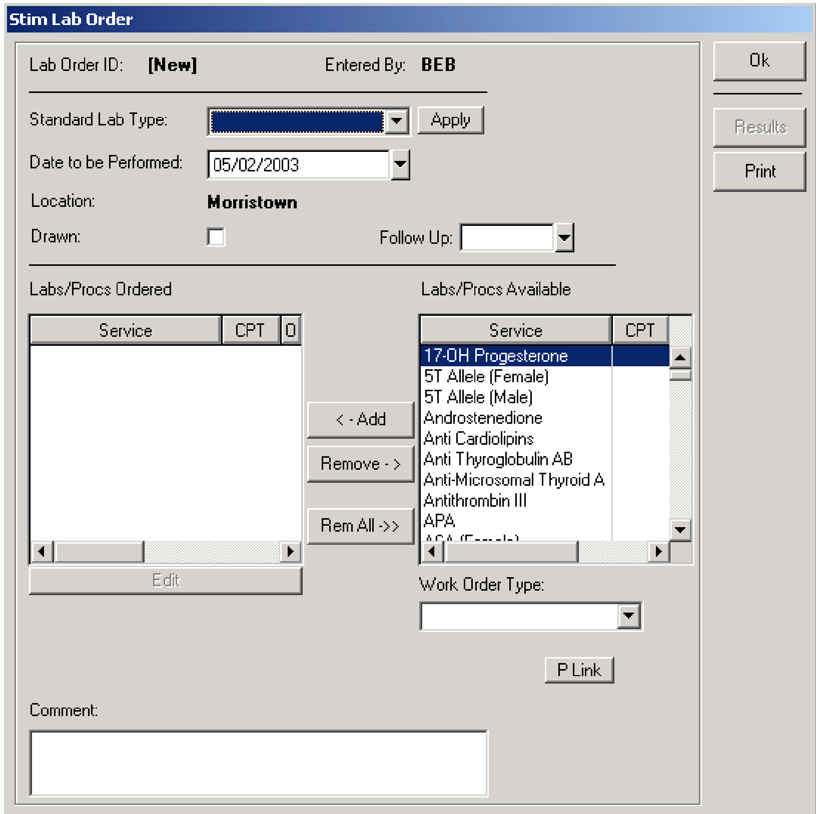
There is a Mail Reminders feature in RESource that allows an e-mail to be sent to select individuals when a particular event or procedure is entered in the stim sheet. For example, when Cp is checked off for the Start procedure, an e-mail can automatically be sent to the patient's primary physician, primary nurse and/or any other recipient indicated. This feature is set up by a RESource administrator and can be applied to any event and any procedure available in the stim sheet.

Lab – the Lab column is where lab orders are entered. Lab orders do not have to be limited to blood work orders only – any service can be set up as a "lab" and available in a lab order (i.e. baseline uss, pap).

To create a new lab order:

1 – select the patient and cycle in the patient explorer

2 – on the desired date (create a new stim row if needed), double click on the Lab field or right click and select Modify Lab Order. The Stim Lab Order form will appear.



3 – the Lab Order ID, Entered By, Date to be Performed and Location will automatically be entered. To change the Date to be Performed, select a date from the calendar dropdown. Note that the Date to be Performed should always match the given stim date.

4 – select a lab order group from the Standard Lab Type dropdown list and click Apply

AND/OR

Select a lab from the Labs/Procs Available list and click Add. You may apply multiple lab groups from the Standard Lab Type list and you may also add individual labs from the Labs/Procs Available list in combination with any lab groups. Any labs orders will appear in the Labs/Procs Ordered list.

To remove an ordered lab, select the lab in the Labs/Procs Ordered list and click Remove. To remove all ordered labs click the Rem All (Remove All) button.

5 – enter any comments in the comment area at the bottom of the form

6 – click OK

Standard Lab Type – a dropdown list containing pre-determined groups of lab orders (a shortcut to selecting each individual lab from the available labs list). For example:

Confirm Surge – E2, LH, P

Day 3 without FSH/LH – Day3 E2, P
Day 3 with FSH/LH – Day3 E2, Day3 FSH, Day3 LH, P
Donor – 5T Allele, Baseline USS, CBC, Chlamydia, Cystic Fibrosis, GC, HbsAg, HCV antibody, Hemoglobin Electro, HIV, HIV-2, HTLV-1, Mycoplasma, PAP, PE, Psych Eval, RPR, SED Rate, SMA 20, Type&Screen, Urine Drug Screen, Vital Signs
Female Screening - 5T Allele, CBC, CMV IgG, CMV IgM, Cystic Fibrosis, HbsAg, HCV antibody, HIV, HTLV-1, Prolactin Fasting, RPR, Rubella, SED Rate, Type&Screen, TSH
Preg Test – BHCG, E2, P
PreOp – BHCG, CBC
Stim – E2, P

Location – reflects the stim row location (where the order is to be completed). Each stim row will reflect the location of the prior stim row unless manually changed. By default, the first stim row of a cycle will be assigned the location where the cycle was created.

To change a stim row location:

1 – select the stim row, right click and select Stim Location

2 – select the desired location from the dropdown and click OK

Drawn – to be checked off when the phlebotomist has drawn the blood

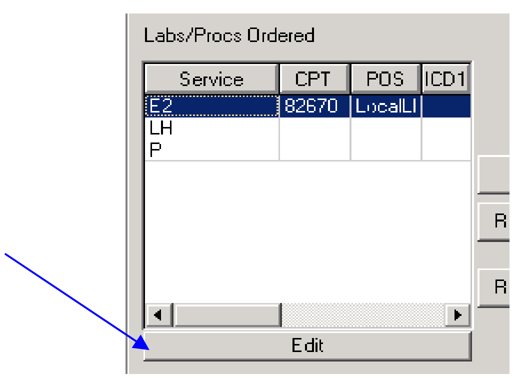
Follow Up – the date the lab order is to be followed up on (optional). If a date is selected, the primary nurse and primary physician will receive a reminder when logging on to RESource that day.

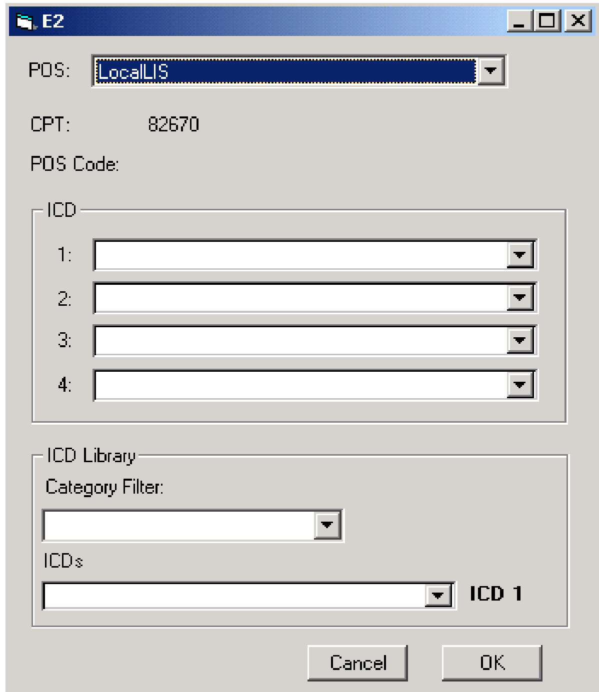
Labs/Procs Ordered – lists each lab/procedure/service that has been ordered

CPT – CPT (procedure) code for the lab

POS – Point of Service for the lab. A default POS may appear – to change the POS, double click on the POS field for that lab or click the Edit button

ICD – ICD 9 (diagnosis) code for the lab. A default ICD may appear – to change the ICD, double click on the POS field for that lab or click the Edit button





To change the POS for the lab, select an option from the POS dropdown. To assign one or multiple (up to 4) ICD codes for the lab:

1 – in the ICD Library section, select the appropriate Category Filter – if you don't know what filter to use simply select All

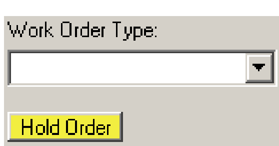
2 – select the desired ICD from the ICDs dropdown (ICD 1 will appear next to it) – this will assign ICD number 1

3 – repeat steps 1 and 2 for each ICD you wish to assign to the lab. Click OK when done. All changes will now appear associated with the lab in the lab order.

Labs/Procs Available - lists each lab/procedure/service that is available for ordering. You will notice POS and CPT fields for each lab – default values may appear, but you cannot edit them until the lab is ordered.

Lab Hold Order - In a lab order, allows indicated labs bound for a particular POS to be flagged for Holding. This means the POS will hold the electronic order for processing when the patient arrives at the POS with the paper requisition for draw.

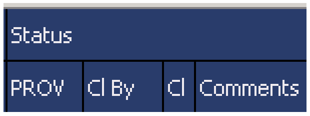
If any POS's are checked for Hold on an order the button will display in Yellow.



Currently, only the Quest interface supports this feature. Quest requisitions will indicate PSC Hold on the paper order when printed from the LIS.

NOTE: All labs/procedures/services ordered via lab orders will appear in the Lab Log. The Lab Log and entering lab Results will be discussed later in this section.

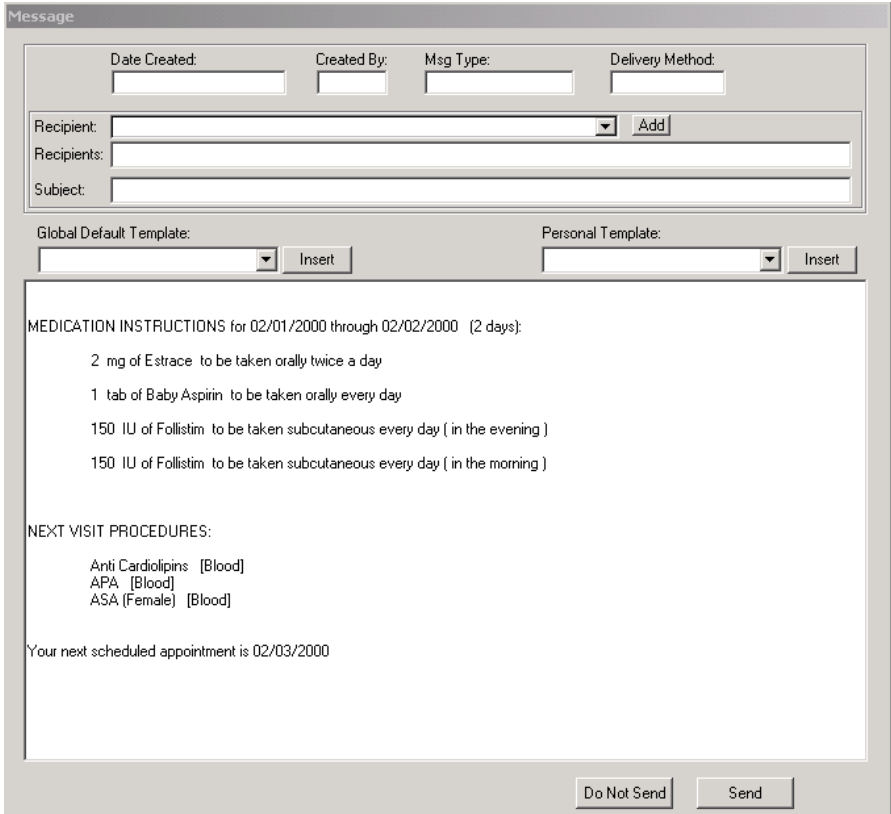
Status



PROV – the provider responsible for reviewing the patient's stim that day. If the patient had a procedure completed that day (IUI, VOR, ET) it should reflect the provider who completed the procedure.

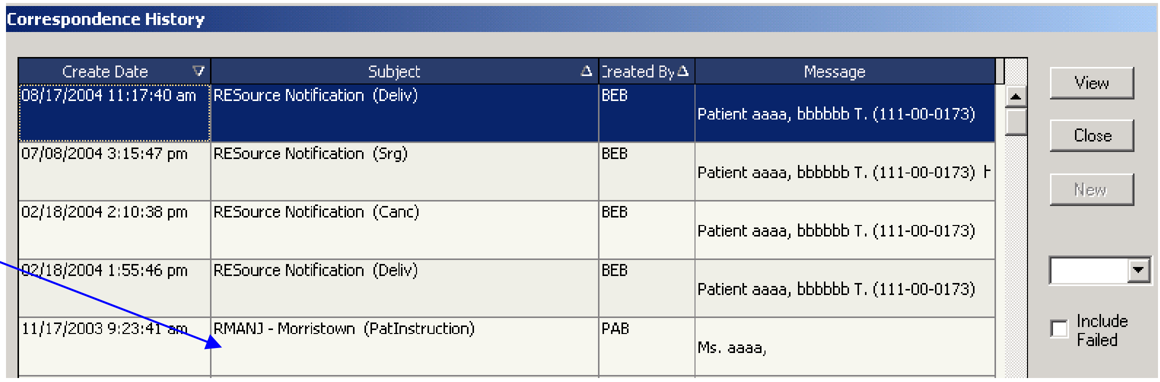
Cl By – the nurse/physician who called the patient with her results/instructions that day. The **Cl** (called) column to the right of Cl By should be checked off when the instructions have been delivered.

If the patient is eligible to receive her instructions via e-mail, checking the Cl checkbox will bring up an e-mail form with her results/instructions for the day already generated (according to what has been entered into the stim sheet). A patient is eligible to receive her instructions via e-mail when she has signed the appropriate consent and the Activate checkbox has been checked off in her Patient Details. Her e-mail address should be entered in the Email field in Patient Details.



Any of the auto-generated text can be edited/removed, and any additional text can be included. There are also two template dropdown lists: the Global Default Template will display any default templates set up for your user-group (MD/Nursing) and the Personal Template will display any templates you have set up in your personal template editor under the Patient Correspondence category. The Recipients field will automatically display the e-mail address for the patient (as indicated in Patient Details) – any additional recipients can be added by selecting from the Recipient dropdown list and clicking the Add button. The recipients available in the dropdown list are those in your personal contacts (as listed in Outlook). To send the e-mail, click the Send button at the bottom of the form. Click the Do Not Send button if you opt not to send the e-mail.

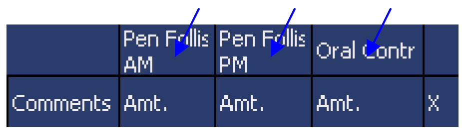
Any auto-generated e-mails sent to the patient from the stim sheet will be saved in the patient's Correspondence History (Patient – Correspondence History), along with any e-mail reminders generated from the stim events and procedures.



Comments – a text field to indicate any comments for the particular stim date (regarding specific ultrasound results, instructions, etc). Double clicking on the field will bring up a zoom window displaying the text in its entirety.

Medications

When cycle and stim sheets are initially created, no cycle medications will appear. As each medication is added to the cycle, the system inserts the appropriate columns into the stim sheet (between the Comments column and the X column) - if the medication has been set up in the system as a gonadotropin, an AM and a PM column will appear when the medication is added to the cycle.

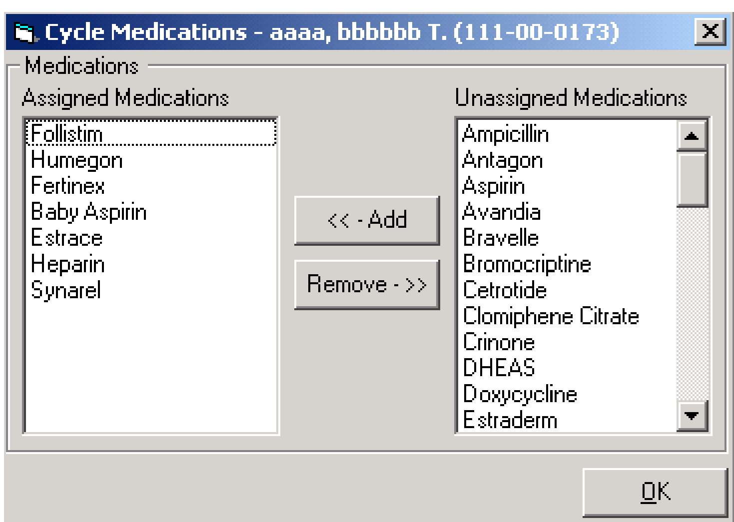


To add a medication to a cycle/stim sheet:

1 – select the patient and cycle in the patient explorer

2 – go to the main menu and select Cycle – Cycle Medications

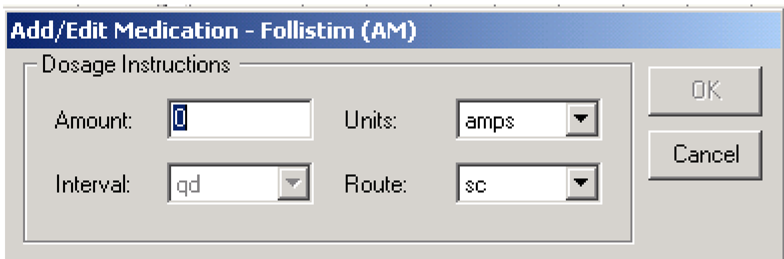
3 – select the desired medication(s) from the Unassigned Medications list and click Add



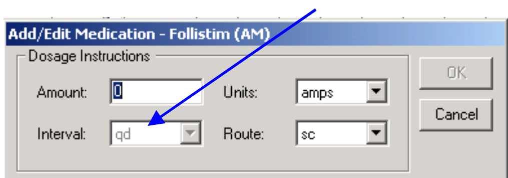
4 – click OK. Any medications selected will now appear as columns in the stim sheet.

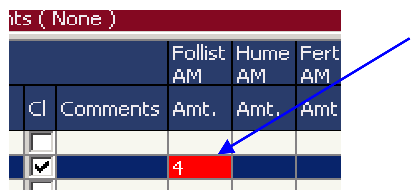
To remove an assigned medication (that has not been used in the cycle), select the medication from the Assigned Medications list and click Remove.

Each medication is assigned a default unit, route and interval when created in the system. Double clicking on a specific medication field for a stim row will display the default values – the unit and route can be changed for any given entry in the stim sheet through the Add/Edit Medication form. Note that some medications may be limited to applicable units only (i.e. only amps and IU for gonadotropins).



You can enter the medication amount in the Add/Edit form, or you can enter a value directly into the stim sheet. For gonadotropin medications, an error message will be displayed if entering an invalid IU or amp amount (for example, 6 IU's or 75 amps). And if an entry of X amps was previously entered, but the unit for that entry is changed to IU, the system will automatically convert the value to (X * 75).



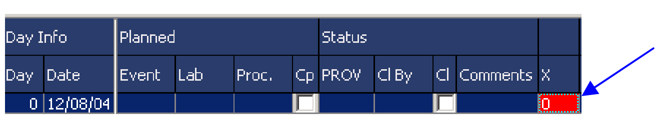


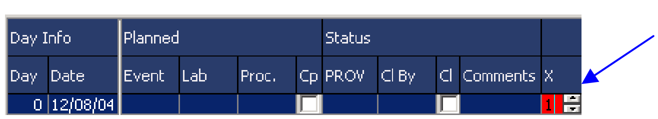
X

The X column indicates the number of days until the next stim row. The last stim row in the stim sheet will always read 0 - this column can be used to add stim rows.

To add a stim row from 0:

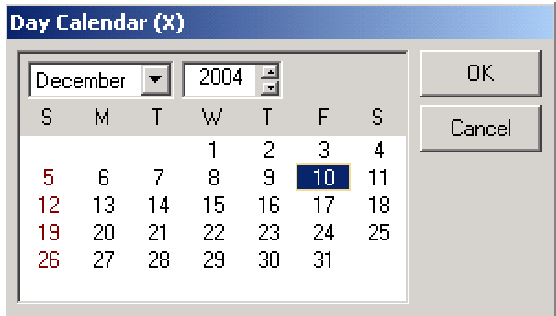
1 – go to the X column in the last stim row and enter a number in place of the 0 – hit <Enter>. This number should be the number of days from the selected stim date that you want a row to be created for.



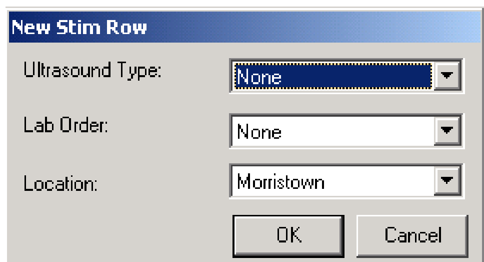


OR

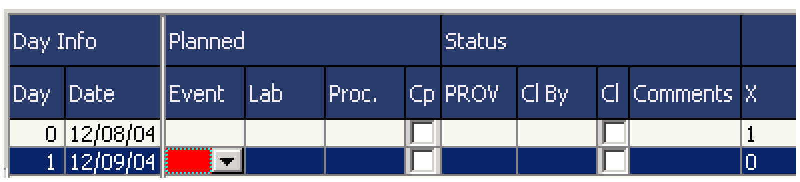
Double click on the 0 and select a date from the calendar that appears – click OK



2 – a New Stim Row prompt will appear allowing you to order an ultrasound, choose a standard lab order group and/or change the location for the stim row/lab order. If you do not want to create a lab order at this time, select None for the Ultrasound Type and None for the Lab Order. Click OK



3 – a new stim row will appear (and will contain a lab order if selected in step #2)



New stim rows can also be added between existing rows, not just at the end of a stim sheet.

To insert a stim row between two others:

1 – select the stim row either immediately before or after the date you would like to insert

2 – right click and select Insert Stim Before or Insert Stim After, whichever applies. The Insert Stim Row prompt will appear.

3 – select an Insertion Date from the dropdown calendar and select an ultrasound and/or lab order if desired

4 – click OK. A new stim row will be inserted.

Blood Work

Blood Work				
E2	P4	bHCG	FSH	LH

Results for the 5 "stim" labs will be displayed on the stim sheet: E2, P4, bHCG, FSH and LH. When the lab order for a given day contains any of these labs and has been marked as Drawn, 'Pnd' will appear in the appropriate field on the stim sheet. Once lab results have been entered for these labs, the actual results will appear. Even though these labs appear on the stim sheet they will also appear in the Lab Log.

Stim Ultrasound (R and L)

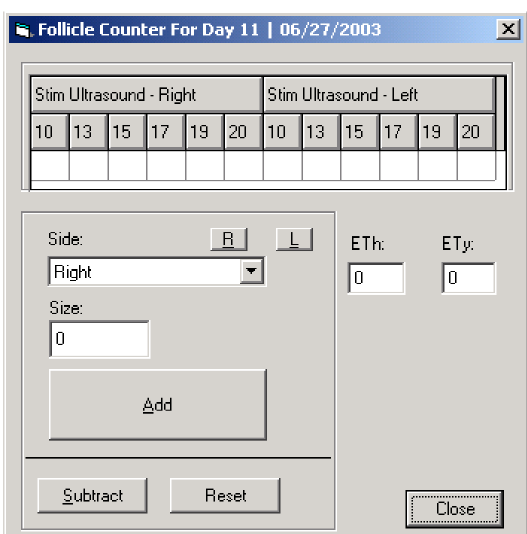
Stim Ultrasound - R						Stim Ultrasound - L					
10	13	15	17	19	20	10	13	15	17	19	20

The stim ultrasound columns are divided by right (R) and left (L) sides, and by follicle size: 10 (<=10), 13 (11–13), 15 (14-15), 17 (16-17), 19 (18-19) and 20 (>=20). The ultrasound results are entered directly into these fields on the stim sheet.

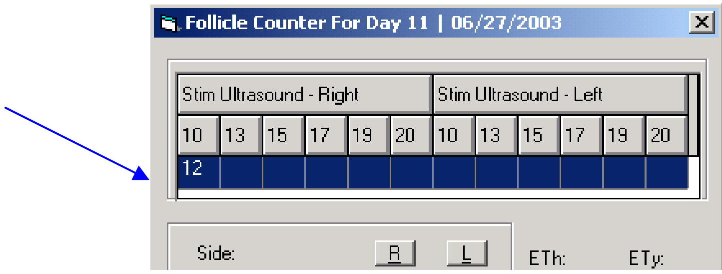
Many times the results are collected on stim sheet print outs during the ultrasound and entered later that morning, but you can also use a function in the stim sheet to tally follicle counts real-time:

1 – with the patient and cycle selected in the patient explorer, click on the desired stim row

2 – right click and select Ultrasound Values or hit Alt U. The Follicle Counter window will appear



Follicle counts can be entered as completed/whole values, by selecting the field and entering the number, or they can be entered in increments/decrements of 1 using the Add/Subtract buttons.



3 – if entering whole values into the result boxes, hit Close when data entry is complete. If using the tally feature, select the side by either clicking on the R or L button, or by selecting Right or Left from the Side dropdown list.

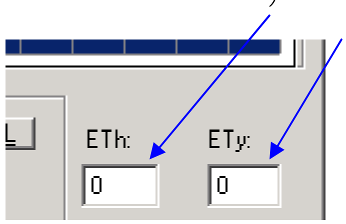
4 – in the Size field, enter the follicle size

5 – click Add. For each click of Add, one follicle will be added to the corresponding result field – you will notice the counts changing. As you click the Add button, the cursor will automatically re-select the Size so that you can quickly change from one size to another.

6 – repeat steps 4 and 5 until all follicles have been tallied

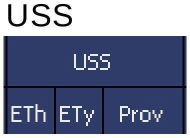
To remove a follicle from a result, enter the follicle size and click Subtract – for each click one follicle will be removed from that size.

7 – enter ETh (Endometrial Thickness) and ETy (Endometrial Type)



8 – click Close

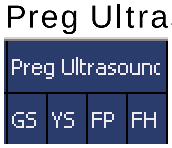
USS



Endometrial Thickness (ETh) and Endometrial Type (ETy) can be entered as described above, but can also be entered directly into the stim sheet.

Prov - the provider performing the ultrasound

Preg Ultrasound



Pregnancy ultrasound results are entered directly into the stim sheet. Numeric values for the following can be entered:

GS – Gestational Sac
YS – Yolk Sac
FP – Fetal Pole
FH – Fetal Heart

Stim Templates

Stim Templates can be created by an administrator allowing stim rows to be automatically inserted when prompted. For example, on day of Srg you may want to automatically insert a stim rows for X number of days after to allow for entry of IUI(s), VOR, ET, or even the first pregnancy test. The templates will not insert any stim events or procedures, but will apply the stim date and any associated lab order.

To apply a stim template:

1 – from the patient's stim sheet, highlight the stim row that you would like the template to insert after – right click and select Templates from the menu

2 – select the template name from the dropdown and click Apply. An 'Apply Stim Template' prompt will appear outlining the stim rows/dates that will be inserted, along with any associated lab orders. Click Yes to the prompt.

3 – adjust any stim dates and add any stim events/procedures as needed

TIP: A user has the option to adjust stim row height for easier viewing: On the Resource main toolbar, under **Tools**, then **Options**. Adjust the stim row height (green arrow)by a percentage (i.e. 30 = 30% increase in row height) for the logged in user account.

Resource Options Window: