

The OVT Charting System

Norman Roskin, DVM

The OVT Charting System is a group of computer applications that will allow you to compile, compare, and share data on breeding bitches. The computer applications consist of a desktop program, web site, and handheld devices, all of which can be synchronized.

The objective of these computer applications is to allow veterinarians throughout the world working in canine reproduction to easily compile that data on the bitches they breed and in turn share their data with other veterinarians through a web site, www.ovtveter.com. By sharing such data, all veterinarians working in this area of canine reproduction could through a large number of cases gain information such as:

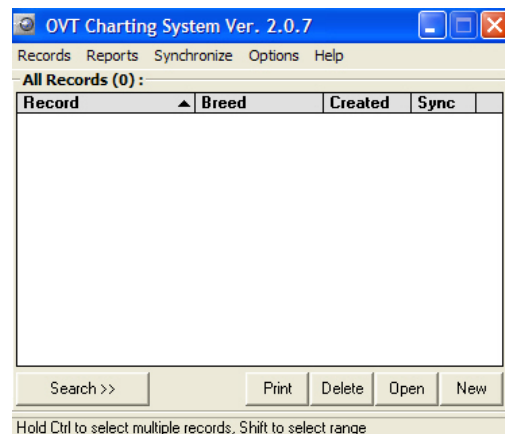
- progression of P4 levels during the bitch's cycle
- day(s) inseminated relative to P4 levels
- types and methods of insemination being used
- what is the average length of gestation
- what quantity of motile sperm are needed for pregnancy
- liter size relative to timing and types & quality of semen
- a variety of puppy data

At this time, we would like to briefly discuss the desktop application. More details for this application can be found on the web site, which can be downloaded, in the form of a pdf file. After discussing the desktop application, we would like to discuss how the cases on your desktop application can easily be synchronized to the web site. Finally, with time permitting, we would like to briefly discuss using the OVT Charting system on various handheld devices, such as a Palm or Pocket PC.

Any veterinarians working in the area of canine reproduction are welcome to visit the web site, www.ovtveter.com, and after registration, download the desktop version of the OVT Charting System. You can also download the documentation and a version of the application that will run on a handheld device. If you choose to use a Palm or Pocket PC, those cases can be synchronized with the desktop or web site.

Using the Desktop Application.

When you first open the desktop application you will see the main screen as shown below:



The easiest way to start a new case or new record is to click on New and you will see the main data entry screen as shown below:

You will note that the cursor is flashing in the Name field. Enter the pet's name. Suggest using the Pet's name, Owner's last name. For example the Name could be Fluffy Jones. To move through the fields, the easiest way is to click on the next field or you can use the tab key. You will note above the Name field is a field called Record. This is used to save the record and will be discussed below.

In the Breed field you can use the dropdown menu to select the breed. To get to one of the breeds lower on the list you can initially click on the dropdown menu and then enter the first letter of the breed's name. The system will quickly scroll to the breeds that start with that letter and you then simply click on the desired breed. You can also simply continue to scroll down the list of breeds and click on breed name needed. If the specific breed does not appear in the list, recommend selecting other, until we can update the breed list. The breed list is based on those recognized by the AKC. We realize that there are different breeds throughout the world. Please email us, through the web site, to give us information on breeds commonly used in your country and we will add them to the breed list. Any new breeds will be updated to the desktop when you synchronize your records with the web site.

Next you can select the type of test you are using, progesterone (P4) or LH. To make your selection you can use the dropdown menus. For progesterone the selections are RIA, Elisa, or Chem. Luminescence. For LH the selections are LH Kit or RIA.

Entering the DOB, date of birth, can be done by directly entering the date, using the convention of MM/DD/YY, for example, 07/25/98. Alternatively you can use

the calendar icon and create the birth date. The computer automatically calculates the age field after date heat started has been entered.

The field, Date Heat Started is very important. By entering this information, the computer will fill in the chart with dates. This will make it easy to enter data. Note, that the three fields are Date, which is month and day of the month, the Day field will be the day of the week, and #Days refers to the time in the bitches cycle, for example, the date her heat started will be day 1.

The initial data is now complete. If there is no data to enter, **MAKE SURE TO SAVE THE RECORD BEFORE CLOSING.** When you click in the field, Record, the computer will create a record name automatically. This record name will consist of the name you first created plus an extension for the year this record was created, for example, Fluffy Jones 02. Then you can simply click **Save** and the record will be saved. Using the extension for the year will help distinguish another record for this bitch if she is bred again in the future.

ENTERING DATA INTO THE CHART GRID

Important: to move around the grid you can either click on an entry field or use the up/down arrow keys. When you enter progesterone values, click on the appropriate cell, enter the progesterone value, and then arrow down or mouse click on another cell in the grid. As soon as you change to another cell the computer will convert the progesterone value in ng/ml to the equivalent value in nmoles/dl and the reverse.

If you are entering your results from vaginal smears, you can click on the appropriate cell, and enter the percentage of different types of epithelial cells, p for parabasal, I for intermediate, and s for superficial. If using the cells for RBC and WBC use a relative value, for example, if there is a heavy concentration of RBCs you can type "+4" and the same for WBC. The area set up for comments can be used for notes on the stage of the bitch's cycle, for example, proestrus, etc. We also use this area to forecast insemination dates when the progesterone data becomes meaningful, for example, we'll pick our Day 0 or LH peak and then calculate days to inseminate. When doing this the chart would look like:

[jenny jones_03] - Not Edited

Record: jenny jones_03 Save Delete Print Synchronize Data Complete

Name: jenny jones Breed: Labrador P4 Assay: Chem Illuminescence DOB: 3/1/1999

Date Heat Started: 2/19/2003 Group: Sporting LH Assay: Age: 3 years

Note: Age is calculated on Date Heat Started

Month	Date	Day	#Days	Progesterone/LH	Vaginal Cytology	Comments
				ng/ml	nmoles/L	
Feb	25	Tue	7	1.6	5.09	
Feb	26	Wed	8			
Feb	27	Thu	9	2.8	8.9	0
Feb	28	Fri	10			1
Mar	1	Sat	11	4.6	14.63	2
Mar	2	Sun	12			3
Mar	3	Mon	13	9.8	31.16	4
Mar	4	Tue	14			5
Mar	5	Wed	15	16.4	52.15	6
Mar	6	Thu	16			7
Mar	7	Fri	17			
Mar	8	Sat	18			
Mar	9	Sun	19			

1st Insemination

Insemination Date: 3/3/2003 Type of semen: Chilled Semen Type of Insemination: Vaginal AI

Semen Vol: 4 cc Conc/cc: 120 min Quality: P3 Motility: 75 % T.Sperm: 360 min

2nd Insemination

Insemination Date: 3/5/2003 Type of semen: Type of Insemination:

Semen Vol: 38 cc Conc/cc: 110 min Quality: P3 Motility: 75 % T.Sperm: 314 min

Estimated Whelping Dates: For 1st Insem: 5/3/2003 For 2nd Insem: 5/5/2003

Pregnancy: Not Pregnant Actual Whelping Date: Gestation: For 1st Insem: For 2nd Insem:

#Pups Conceived: M F Alive at Whelping: M F Alive at Weaning: M F

Comments:

Again, remember after each time new data is entered, make sure you Save.

Note: after you enter the insemination date(s) the computer will highlight the line corresponding to that date of insemination. Therefore, when reviewing charts it is easy to note when the bitch was bred.

Entering Insemination Data

To enter information into this area you can mouse click on the required field or use the tab key to scroll from field to field. We will discuss each of the fields.

1st Insemination: the easiest way to enter the date is to:

Click the calendar icon

Locate the appropriate date and click that date and the information will be entered

Then tab to the next field

Type of Semen: use the dropdown menu to selection either fresh, chilled or frozen semen and tab to next field

Note: if you are using frozen semen, the fields will be:



The image shows a portion of a software interface with two adjacent input fields. The first field is labeled 'No. of Containers:' and the second is labeled 'Conc./Cont.' followed by the unit 'mln'.

Where No. (number) of Containers relates to straws or vials (used for semen frozen in pellets) and Conc./Cont.

(concentration per container) or number of sperm per container.

Type of Insemination: use the dropdown menu to select either Natural Breeding, Vaginal AI, Tran cervical-NP (Norwegian Pipette), Tran cervical-Endo (Endoscopic) or Surgical and tab to next field

Semen Vol: (volume in CCs) enter the quantity of semen to be inseminated and then tab to the next field

Conc./cc: (concentration, sperm count, per cc) (note: if you selected frozen semen as type of semen, then the fields for semen volume will change to read No. of Containers and Conc./Cont.) enter the appropriate information and tab to next fields

Quality: use the dropdown menu to select a P score (quality of progressive motility) – P1, P2, P3, P4, and P5 and then tab to next field.

Motility: enter the percent (%) of motile sperm. Once this information is entered the computer will calculate the T.Sperm (total motile sperm in this insemination).

If there is a second insemination, that data can be entered in the same manner.

Note that when the insemination dates are entered the computer will calculate an estimated whelping date for each of the inseminations. The calculation is based on 61 days from the insemination dates.

Whelping Data

The lower area of the chart is devoted to entering the results of the breeding. We think it is also important to publish the data associated with the bitches that do not get pregnant. It then gives all the users the ability to analyze results that were not successful. Furthermore, it may help to determine things like the minimum quality of semen or lower sperm concentrations that are required for success.

The first two fields in this area, Estimated Whelping Dates, will be calculated by the computer based on 61 days from the insemination(s).

When you tab to the next field, Pregnancy, use the dropdown menu to make your selection of either Not Pregnant or Pregnant and then tab to the next field, Actual Whelping Date.

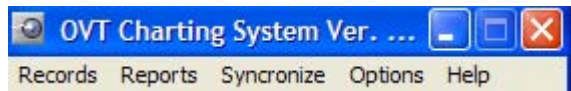
Note: the record can be published to the web site even if the bitch's pregnancy status has not been determined at that time or it is best to wait to pups are actually born. The record can be updated later when pups are born. Such a record that appears on the web site will indicate a question mark (?) in the field for pregnancy.

The date can be entered directly using the standard convention, MM/DD/YY, or you can use the calendar icon to set the date. After the Actual Whelping Date is entered the computer will calculate the respective gestation(s) based on the insemination dates. Then you tab to the various Puppy data fields entering the required information. When all the available data is entered, click the box marked Data Complete, which is very important. When you mark the Data Complete the computer will update the reports and data search areas in the computer application.

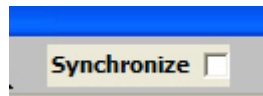
The final field is the comments field. You can enter any comments that would be pertinent to that record. If there are no comments just leave this field blank.

Synchronize - Transferring Records between Desktop and Web Site

You can send records to the web site and return records to the desktop by using the Synchronize function which appears in the upper command line of the desktop.



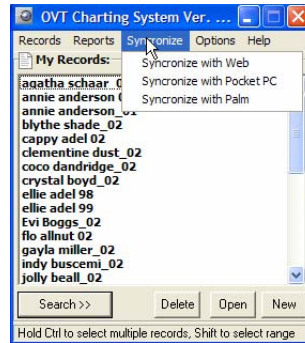
What are we Synchronizing? Initially, if the record has not been transferred to the web site, you can perform this function. When you create a new record, you will note in upper right portion of the screen a check box (see below):



When this box is checked, that record will be transferred to the web site the next time you synchronize. When do you synchronize? This can be done any time but practically speaking, we would recommend waiting till you have accumulated most of your data, but synchronization can be done at any time. If you have two records (with the same name) on web site and desktop and the one on the desktop is more recent, it will travel to the web site and overwrite the older one.

Records can be synchronized two ways, from the desktop to the web site or from the web site down to the desktop. Before synchronizing you must make sure you are connected to the Internet. After connecting, you can minimize the internet connection and then bring up the main screen of the desktop application.

From the main screen on the desktop application click on synchronize and you will see the screen as shown below:

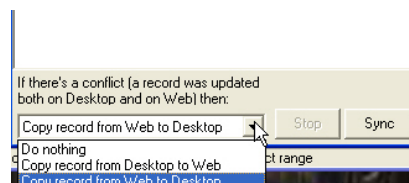


When you click “Sync” and the records begin to transfer as shown in the screens below:



The program will indicate when the synchronization is complete, you will note, Done, at the bottom of the information displayed. You can then close the synchronizing screen and then close the main screen of the desktop application when finished.

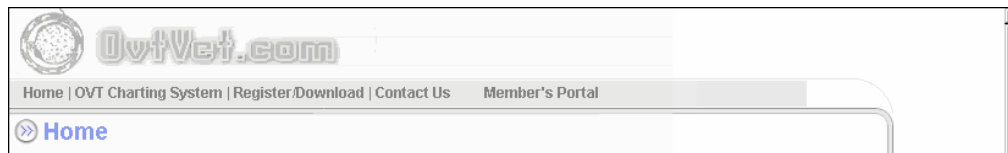
If there is a conflict, records have been changed on both platforms since the last synchronization, the dropdown in the lower left corner (see below):



allows you to select in which direction the records should flow.

The Web Site – www.ovtvvet.com

The web site was designed to function identically to the desktop. For those veterinarians that cannot download the desktop application, for example they use Macs for which the desktop application was not written, they can use the web site directly to enter records, due various searches, and analyze reports. The Home page and the page titled, OVT Charting System discusses the objectives of these applications and gives you a brief introduction to the chart. The main pages of the web site are listed below:



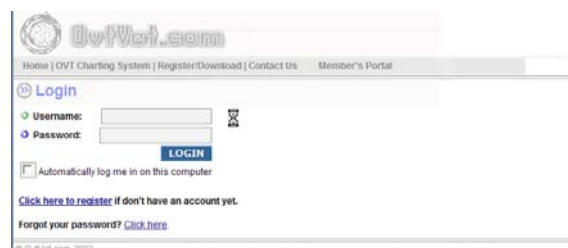
If it is your first visit to the web site click, Register, and a brief Welcome statement will highlight the objectives of these applications. You will be asked to complete the registration form. This registration is designed to insure that the individuals using the site are veterinarians and that those veterinarians publishing information to the web site can feel confident that they are sharing case information with only other veterinarians.

After the registration is complete, you can click Submit, and you will be presented with the 3 different applications you can download (see screen below) and documentation for using the desktop and the website:



Using the Web Site

After you have registered, you can login by clicking Member's Portal and enter your username and password as shown below:




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Creating New Records on the Web Site – Internet

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