

Introducing



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HERD MANAGEMENT TRAINING CONFERENCE



Need for Better Rx Management

- New Testing Procedures at Packing Plants
- More Scrutiny by Food and Health Officials



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Objectives of the New Rx Tools

Enable Producers and Veterinarians to:

- Create a **Drug Library**
- Identify **Conditions** to be treated
- Define treatment **Protocols**



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Objectives of the New Rx Tools

Enable producers and those treating animals to:

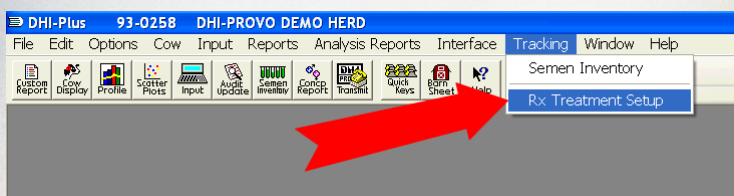
- Print daily **Treatment Lists**
- Calculate Milk and Meat **Withholding Dates**
- Identify **animals to consider releasing** from the hospital (e.g. Passed Meat and Meat Withholding Dates)
- Provide **documentation** of Rx activities
- **Transmit Rx records** to DHI-Provo for backup

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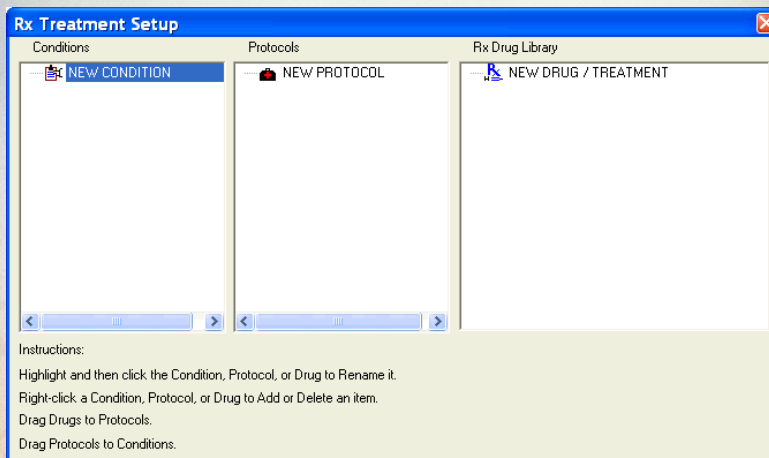
Rx Treatment Set-up



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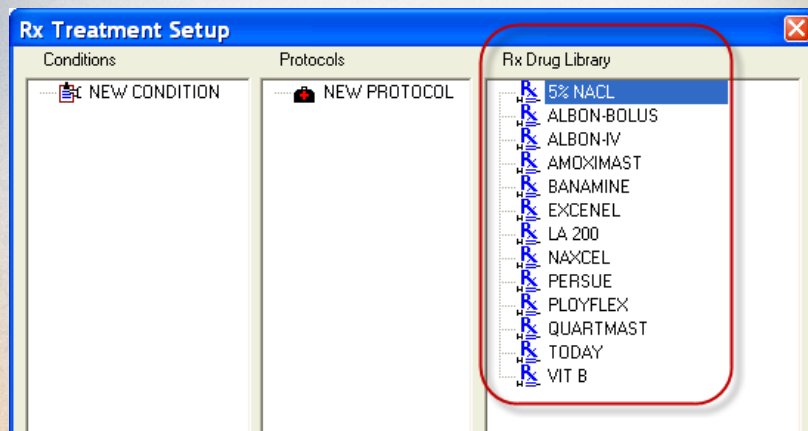
Rx Treatment Set-up



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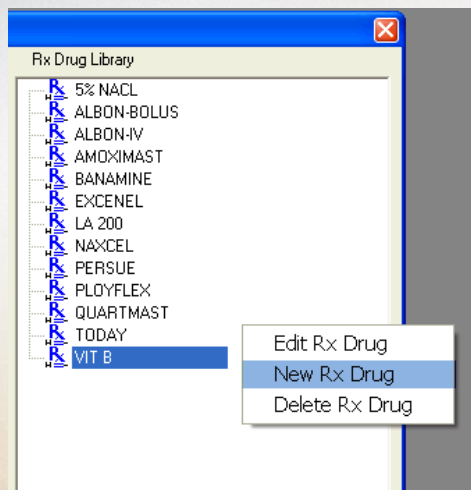
Rx Treatment Set-up



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Rx Drug Library



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Rx Drug Setup

Rx Drug Setup: NAXCEL

OK
Cancel

Rx Drug Name: NAXCEL

Treatment(s): 1

Start on Day: []

Route: SQ - Subcutaneous

Frequency: B - Twice a day (BID)

Number of Treatments: 5

Dosage: 30 cc - Cubic Centi

Enable additional treatments for this drug with different dosages

Move to T-String: 15

Withholding:

Milk (Days): 0

Meat (Days): 3



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Route

Route

- IM - Intramuscular
- SQ - Subcutaneous
- SQE - Subcutaneous Ear
- IMM - Intramammary
- IV - Intravenous
- OR - Oral
- IU - Intrauterine
- IP - Intraperitoneal
- TOP - Topical




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Frequency

Frequency

S - Once a day (SID)
 B - Twice a day (BID)
 T - Three times a day (TID)
 Q - Four times a day (QID)
 E - Every other day



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Treatments and Dosage

Number of Treatments

Dosage


cc - Cubic centimeter
 bol - Bolus
 gal - Gallon
 gm - Grams
 l - Liter
 ml - Milliliter
 oz - Ounce
 pel - Pellet
 pil - Pill
 pt - Pint
 qt - Quart
 syr - Syringe
 tu - Tube
 un - Unit
 wrp - Wrap

Number of Treatments


Dosage

Number of Treatments

Dosage



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Move to String and Withholding

Move to T-String

Withholding:

Milk (Days)

Meat (Days)



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Conditions

Rx Treatment Setup

Conditions

- C SECTION
- DIGESTIVE
- EYE SURGERY
- FOOT ROT
- LDA SURGERY
- MAST
- New Condition
- Delete Condition

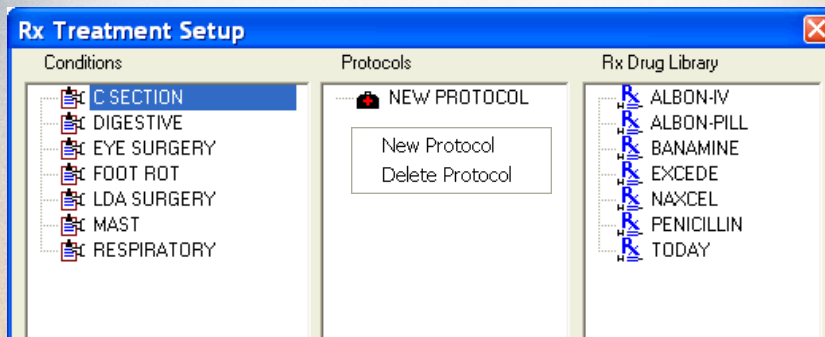


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Protocol

Assign the **Drugs** to be used to treat the **Conditions**

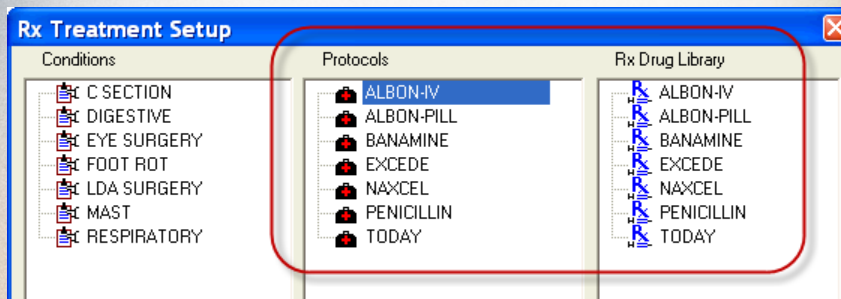


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Protocol

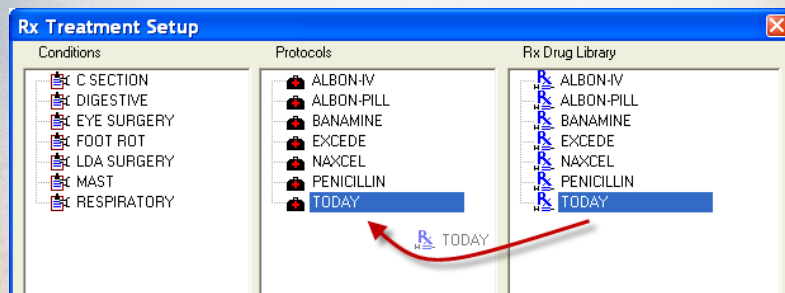
Most **Protocols** have the same name as the **Drugs**



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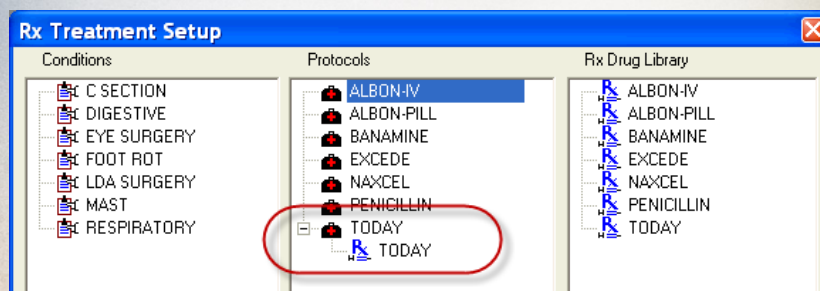
Assign the Drug to the Protocol



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Today Protocol

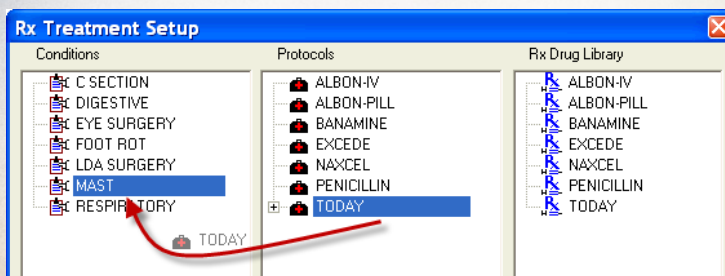


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Conditions and Protocols

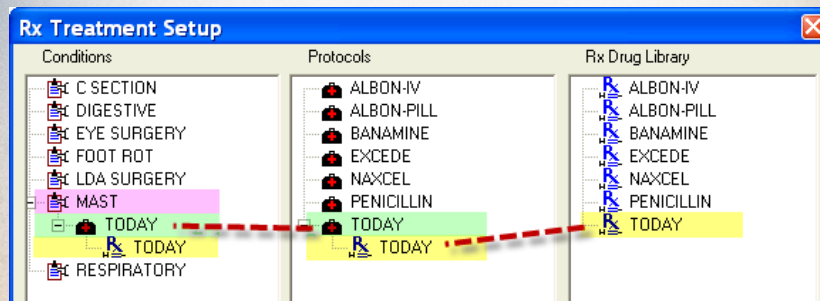
Assign the **Today** Protocol to treat **MAST**



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Rx Treatment Setup



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Protocols

The screenshot shows the 'Rx Treatment Setup' window with three panes: Conditions, Protocols, and Rx Drug Library. In the Conditions pane, 'RESPIRATORY' is selected. In the Protocols pane, a protocol for 'RESPIRATORY' is shown with 'PENICILLIN' as the drug. A red dashed arrow points from the 'PENICILLIN' entry in the Protocols pane to the 'PENICILLIN' entry in the Rx Drug Library pane.



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Protocols with Multiple Drugs

The screenshot shows the 'Rx Treatment Setup' window with three panes: Conditions, Protocols, and Rx Drug Library. In the Conditions pane, 'RESPIRATORY' is selected. In the Protocols pane, a protocol for 'RESPIRATORY' is shown with multiple drugs: 'BAN + PEN', 'BANAMINE', and 'PENICILLIN'. A red dashed arrow points from the 'RESPIRATORY' entry in the Protocols pane to the 'PENICILLIN' entry in the Rx Drug Library pane. Another red dashed arrow points from the 'BAN + PEN' entry in the Protocols pane to the 'BANAMINE' entry in the Rx Drug Library pane. A third red dashed arrow points from the 'BANAMINE' entry in the Protocols pane to the 'BANAMINE' entry in the Rx Drug Library pane.



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Protocols with Multiple Drugs

The screenshot shows the 'Rx Treatment Setup' window with three columns: Conditions, Protocols, and Rx Drug Library. In the Conditions column, 'BAN + PEN' is expanded to show 'BANAMINE' and 'PENICILLIN'. In the Protocols column, 'BAN + PEN' is selected and circled in red. Red dashed lines connect this 'BAN + PEN' protocol to the 'BANAMINE' and 'PENICILLIN' entries in the Rx Drug Library column.



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Drugs with a Loading Dose

The screenshot shows the 'Rx Drug Setup: ALBON-IV' dialog box. The 'Rx Drug Name' field is set to 'ALBON-IV'. Below it are three stages: Stage 1 (Initial treatment schedule for this drug), Stage 2 (Additional treatments with a different dosage), and Stage 3 (Additional treatments with a different dosage). Stage 1 is selected. The 'Number of Treatments' is set to 1 and the 'Dosage' is set to 90 cc - Centimeter. A red circle highlights these two fields. Another red circle highlights the 'OK' button.



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Record Conditions and Treatments



Record Condition and Protocol [Close]

Date: 11/02/2009 Retain Condition and Protocol on Screen
 Control Number: 2380 Record Dry Date
 Condition: RESPIRATORY [Record]
 Protocol: PENICILLIN
 T-String: 11
 Health Event: RESPIRATORY HTech: 2



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IMM Mastitis Treatments

Route: IMM - Intramammary

Record Condition and Protocol [Close]

Date: 11/02/2009 Retain Condition and Protocol on Screen
 Control Number: 2594 Record Dry Date
 Condition: MAST [Record]
 Protocol: TODAY
 T-String: 15
 Health Event: MAST RF HTech:

Left Front Right Front
 Left Rear Right Rear
 [All Quarters]

Treatment: MAST:TODAY:1 tu: IMM RF



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Treatment List

531 - Rx Treatment List (7 Animals Selected, 24 Data Lines) -- Completed

Titles Find Run Report Print Print Multiple Print prev. Run by No. Dictnry Sort Select Logic

TSTRNG	CTL	RXDATE	RXTREAT
15	1391		
		11-05-09	\=MAST LITE: 1/2 : TODAY: 1 tu: IMM RF
		11-05-09	\?MAST LITE: 2/2 : TODAY: 1 tu: IMM RF
15	3927		
		11-05-09	\=FOOT ROT: 1/1 : ALBON-BOLUS: 3 bol: OR
		11-05-09	\=FOOT ROT: 1/1 : ALBON-IV: 60 cc: IV OR
		11-05-09	\=FOOT ROT: 1/1 : LA 200: 35 cc: IV V OR
15	4420		
		11-05-09	\=PNEUMONIA: 1/3 : VIT B: 20 cc: IV
		11-05-09	\=PNEUMONIA: 1/3 : EXCENEL: 30 cc: SQ



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Parlor Treatment List

532 - Rx Treatment List - Palor (IMM) (4 Animals Selected, 12 Data Lines) --

Titles Find Run Report Print Print Multiple Print prev. Run by No. Dictnry Sort Select Logic

TSTRNG	CTL	RXDATE	RXTREAT
15	1391		
		11-05-09	\=MAST LITE: 1/2 : TODAY: 1 tu: IMM RF
		11-05-09	\?MAST LITE: 2/2 : TODAY: 1 tu: IMM RF
15	3344		
		11-05-09	\=MAST LITE: 1/2 : TODAY: 1 tu: IMM LR LF
		11-05-09	\?MAST LITE: 2/2 : TODAY: 1 tu: IMM LR LF
15	4758		
		11-05-09	\=MAST MOD: 1/8 : PIRSUE: 1 tu: IMM LF
		11-05-09	\=MAST MOD: 1/2 : TODAY: 1 tu: IMM LFF
		11-05-09	\?MAST MOD: 2/2 : TODAY: 1 tu: IMM LFF



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Animals With Milk Withhold

534 - Cows being Withheld for Milk (3 Animals Selected, 11 Data Lines) -- Comple

Titles Find Run Report Print Print Multiple Print prev Run by No. Dictnry Sort Select Logic Save

TSTRNG	CTL	RXMILKOK	RX\DATE	RX\RECD
16	2098	12-22-09		
			11-04-09	\\DRY:QUARTMAST.QUARTMAST
15	3927	11-13-09		
			11-04-09	\\FOOT ROT:FOOT ROT.LA 200{3
			11-04-09	\\FOOT ROT:FOOT ROT.ALBN-B
			11-04-09	\\FOOT ROT:FOOT ROT.ALBN-B
			11-05-09	\\FOOT ROT:FOOT ROT.LA 200{6
			11-05-09	\\FOOT ROT:FOOT ROT.ALBN-B
15	4758	11-15-09		
			11-04-09	\\MAST MOD:MAST MOD.TODAY{
			11-04-09	\\MAST MOD:MAST MOD.PIRSUE



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Cow Display Withholding Dates

Cow Display

Vital Statistics | Identification | Production | Previous Lactations | Progeny | Breeding and Health | User Fields

Control Number 3927 Live Files Archive

Status 1 Lact. 2 Birth 07-12-06 Sire 11H9291 Misc

NOT BRED Calved 08-22-09 74 DIM 3-1 Age at Calving

OK to Breed 74 Open Planned Sires

Times Bred 0 DSB Sire 1 - Sire 2 -

Bred Date Sire Tec Interval Classification Score

Vet Check Body Con.

Print... Milk 11/13/09 Meat 11/17/09

Due To Dry	53	Prev Dry	Test Date	DIM	Milk	%F	%P	SCC	SCC
Date Due		Age Due	09-01-09	11	70.0				
Projected Calving Interval		Months	09-01-09	11	70.0	3.4	3.5	281	4.54

Calf. ID Sire Lact to Date: Days 26 Milk 1690

5460 F 7H8165 Ext Milk 19980 % Rel Value 92

String: Perm 0 Date Health Event Tec Date Field User Defined Event

Temp 15 11-04-09 FOOT ROT 11-05-09 \\FOOT ROT:FOOT ROT.



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Rx Records are Transmitted to DHI-Provo



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Desired Additional Developments

- Rx Tools on Pocket-PC:
 - Diagnostic Tools
 - Recording of Every Treatment
 - Incorporation of TenXsys SmartBolus® Temperature and Motion Data
- Export and Import Protocols
- Print List of Protocols
- Additional Summary Reports:
 - Cost Analysis
 - Drug Usage
 - Analysis of Conditions



SmartBolus™
by TenXsys

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Rx Treatment Costs

The screenshot shows the 'Rx Plus Manager' application window. On the left is a navigation menu with options: Rx Library, Rx Summary, and Milk Price. The main area displays a table with columns for Condition, Tx Cost, Lost Milk, and Total. The table lists several conditions with their respective costs.

Condition	Tx Cost	Lost Milk	Total
MAST SEV	\$74.48	\$678.72	\$753.20
MAST MOD	\$26.40	\$521.16	\$547.56
RESPIRATORY	\$52.56	\$727.20	\$779.76
MAST LITE	\$110.00	\$193.92	\$303.92
METRITIS	\$13.50	\$327.24	\$340.74
FOOT ROT	\$3.45	\$60.60	\$64.05

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Benefits of Better Rx Management

- Improve compliance to Rx protocols:
 - Healthier animals
 - Better use of drugs
- Easy to create treatment lists
- Calculated milk and meat withholding dates
- Documentation of protocols and treatments

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