WASHINGTON STATE UNIVERSITY
VETERINARY MEDICINE EXTENSION

Outcomes Driven Health Management

Good Health Records Maintenance Guide for DHI-Plus® Rx-Plus Users

A guide to maintaining recording practices (preventing Protocol Drift)
for the major diseases of dairy cattle on the farm

Dr. Sarah K. Giebel DVM, MS
Dr. John R. Wenz DVM, MS

Preparation & Data Collection:

1. Obtain and open a recent back-up file.
2. Open 'Custom Reports' within DHI-Plus®.
3. Create 2 new Reports:
   a. RX Error Reports
      i. Report fields to use: CTL, CALVDATE, STATUS, RX\\DATE, RX\\RECD
      ii. Select Logic to use: See 1st image to the right[1].
   b. HTHDGN Error Reports
      i. Report fields to use: CTL, CALVDATE, STATUS, -HTHDTE, -HTHDGN
      ii. Select Logic to use: See 2nd image to the right[1].
4. Run both reports in Step 3.
   a. Export the reports to Excel®
      i. There should be two worksheets in this Excel® document; one for each report. Rename each worksheet to match the report.
   b. Save as an Excel® workbook and name accordingly.
5. Browse through the entries in both worksheets, deleting those conditions/diseases not in the dairy's Health Entry Protocols.
   a. This is especially important in the HTHDGN sheet where you will see all the reproductive data as well.
      i. Sort by RX\\RECD and –HTHDGN in each respective sheet and delete events that are not related to health.
6. Calculate the DIM at the time of the entry by:
   a. Inserting a new column.
   b. Subtract CALVDATE from RX\\DATE or HTHDTE.
7. Combine the RX and HTHDGN reports by creating a new sheet called "COMBO".
   a. Copy data from "RX" and paste it into "COMBO".
   b. Insert 2 columns before "RX\\DATE": "HTHDTE" and "HTHDGN".
   c. Insert a column after "RX\\DATE": "COMMENTS".
   d. Sort "COMBO" by ID then RX\\DATE.
   e. Sort "HTHDGN" by ID then HTHDTE.
   f. Paying attention to ID and dates, copy over the HTHDTE and HTHDGN information and paste in the 2 new columns in "COMBO".
      i. If there are HTHDGN entries (ILL, TREATED, etc. and specific disease entries) without a corresponding RX entry, copy the whole row from the "HTHDGN" worksheet and insert the line in the "COMBO" worksheet.
         1. If the STATUS is 7, 8 or 9, then this could be the reason for removal so this isn't needed in "COMBO".

Note: If the dairy is using multiple drugs within 1 RX protocol, each drug will be in its own line. To account for this either: drag HTHDTE and HTHDGN down all rows for that episode OR highlight the blank cells to keep track of an episode.

8. Create a new sheet for each disease recorded to use in Error Checking below.
   a. Copy and paste the corresponding disease entries from the "COMBO" worksheet to the individual disease worksheets.

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[1] Be aware that the current date in DHI-Plus is today's date. If you didn't get the file on the same day you are running the report, adjust the amount of days subtracted

Error Checking:
For RX-Plus herds:
1. In "COMBO" look for HTHDGN entries that don't have an RX associated entry.
    a. In the "COMMENT" column, for each case type "Not in RX".
2. In the individual disease worksheets, scan for the following common errors:
    a. Duplicate Entries
    b. Subsequent Entries while Still on a Protocol
    c. Missing Quarter or Limb (this may only be in the HTHDGN column)
    d. New Protocols (while not entry errors, if not set-up properly could lead to other errors)
        i. Creating the need to enter two protocols for one problem, if more than one treatment is given then combo protocols need to be made
    e. Entering diseases only in the Hlth Diag field and not entering them in RXPlus.
    f. Giving a cow a condition for a disease that the cow does not have simply to get the antibiotic associated with the condition.
    g. Forgetting to enter 'No Treatment' cows or cows that have a disease but will be sent to beef instead of receiving a treatment.
    h. Pay close attention to the DIM for RP and Metritis associated entries, making sure that the disease definition matches when the entries are made.
3. For each entry with an error within the disease worksheets, write an applicable reason in the "COMMENT" column.
4. Within the disease worksheets, sort by "COMMENT".
    a. Count the errors and enter the number of errors under the heading "Errors".
    b. Count the total entries for that disease and enter that number under the heading "Entries".
        i. Remember that 1 entry may have multiple lines, so only count those with an asterisk in the "RX\\RECD".
5. Return to "COMBO".
    a. Add up the errors from the individual disease sheets as well as those within the "COMBO".
        i. Enter this value to the right of the entries under the heading "Total Errors."
    b. Add up the entries from the individual disease sheets as well as those within the "COMBO" that weren't classified as specific diseases.
        i. Enter this value to the right of "Total Errors."
    c. Calculate % Errors by dividing "Total Errors" by "Total Entries".
        i. Enter this value to the right of "Total Entries."

Error Reporting:
1. Create a word document.
2. Report to the dairy their overall error rate.
3. Copy the lines with "COMMENTS" and paste as an image into the document under appropriate headings.
4. Add additional comments and descriptions as needed to convey the errors.