

Creator

3.3 The Creator Workspace

By studying the history of the earth, the scientific community has discovered the dynamic nature of climate and weather. *Global weather* patterns are in a constant state of change as evidenced by alternating ice ages and warmer periods. Temperature fluctuations are a natural part of the earth's climate. However, recent changes have become a major concern of scientists.

As Professor Maria Cervantes from the Colorado Weather Research Center says:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Climate Change has generated a great deal of public and scientific attention. Ground-based monitoring indicates that worldwide temperatures have increased by 0.6°C over the last decade.^[1]

Save Saved at 10:23am

3.3.1: Go to About This Work => Info => Work, hover over to select the edit pencil, and enter the following:

- **Work Icon:** Upload an image to represent your work.
- **Title:** Change from “Untitled.” Use title case, capitalizing all main words.
- **Subtitle:** Use title case, capitalizing all main words.
- **Abstract:** A short summary.
- **Keywords** or phrases, separated by commas.

Add content by typing in text. You can also do the following (going through the icons in the toolbar from left to right):

- Emphasized text (Do not use this for headings or subheadings—use the Structure tool for this, as described Tutorial 3.5.)
- Numbered list
- Dot point list
- A quotation
- A footnote
- A superscript character or subscript character
- A special character
- Mathematical notation (using TeX), or use an app which converts handwritten math to TeX.
- Link and unlink
- Upload an image
- Upload video

- Upload audio
- Upload any other file (Word, PDF, dataset, etc.)
- Embed media (YouTube, Flickr, Qik, Vimeo, Hulu, Viddler, MyOpera, etc.)
- Copy/paste
- Find/replace
- Undo/Redo
- Expand to fill screen

Case Analysis: Cow #202

Normal Ca homeostasis	>2.0	>8.0
Subclinical hypocalcemia	1.4–2.0	7.6–8.0
Clinical hypocalcemia	<1.4	<7.6

Data from Roche J, Berry D. Periparturient climatic, animal, and management factors influencing the incidence of milk fever in grazing systems. *J Dairy Sci* 2006;89(7):2775–83.

In order to clarify the calcium status of this cow, more diagnostic tests should be performed. These could include testing the levels of calcitonin, parathyroid hormone (PTH), and Vitamin D (Figure 1). According to Degaris and Lean, this is how calcium homeostasis is maintained (2009). Because PTH increases the mobilization of calcium from bone and Vitamin D increases absorption of calcium in the gut, we would expect these values to be high in this cow. Calcitonin is the counterbalance to PTH and causes hypocalcemic situations. We would expect calcitonin synthesis to be inhibited, so calcitonin concentrations in this cow would be low (Klein, 2013).

Save

Works New

About This Work

Feedback

Reviews Annotations Recommendation Checker

Rubric Review Work Results

REVIEW CRITERIA More/Less Print

Problem List Analysis Rating: 0 to 5 Weight: 1/6

Description: How the writer narrows down the key elements of a case and develops an honest assessment of their current knowledge base relative to the case issues. Reviewers: make suggestions about other elements of the case that your colleague might add, and additional information that might be useful relevant to their current knowledge base. Don't forget you can also use the Annotations tool (Creator => Feedback => Annotations) for specific, in-text comments and suggestions.

Evidence of Appropriate Use o... Rating: 0 to 5 Weight: 1/6

Description: literature search, sources sought and documented. Reviewers: please make suggestions that will help your colleague as he/she revises their critical clinical case analysis.

Judgment of Quality of Inform...

3.3.2: When you are involved in a publishing project, before you start your work you should look carefully at:

- The project description at About This Work => Project => Description.
- The timeline at About This Work => Project => Timeline.
- The review rubric at Feedback => Rubric.
- You can discuss your work with the publishing admin at any time at This Work => Project => Dialogue.