



Bovine Birthing and Ultrasound Simulator

Quick Start Guide

Use the Bovine Birthing and Ultrasound Simulator to give your students hands-on practice conducting bovine ultrasounds and birthing calves with a variety of calf positions and using pulling straps. The Ultrasound Simulator uses sensing technology to simulate 14 ultrasound situations. Students can diagnose bovine pregnancy and common issues. Incorporate the included digital curriculum for a complete experience.



Product includes:

- Portable, tabletop-sized Birthing Simulator
- Removable ultrasound and birthing reproductive tracts
- Birthing Calf Model
- Birthing tools: strap and handle
- Ultrasound Simulator: probe and tablet
- Storage bag
- 1-year limited warranty
- Online access to curriculum

NOTICE! To access your curriculum, visit:

<https://www.realityworks.com/bovinebirthing-downloads>

BOVINE BIRTHING AND ULTRASOUND SIMULATOR

Parts identification:

- 1. Frame
- 2. Support beam
- 3. Pull pins
- 4. Wing nuts
- 5. Ratchet straps
- 6. Pelvic girdle
- 7. Birthing Calf Model
- 8. Birthing tract and genitalia
- 9. Ultrasound tract
- 10. Ultrasound tract bolts
- 11. Tablet and ultrasound probe
- 12. Hide



Assembly instructions:

Frame

1. Unstrap the frame and lower the front until the brackets latch.
2. Extend the frame out the rest of the way until the lower beams are straight.
3. Insert the pull pins on each side of the frame.
4. Straighten out the support beam, then slide it into the brackets of the frame and insert the pull pins.



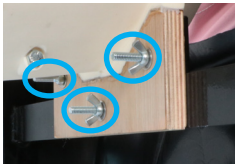
Birthing tract

1. Align the top grommet of the birthing tract (zipper facing up) with the top bolt of the genitalia and slide the grommet over the bolt.
2. Pull the birthing tract through the back of the frame, then insert the bolt of the genitalia into the top hole of the frame. Then secure it with a wing nut.
3. Attach the rest of the genitalia and birthing tract to the frame, sliding the birthing tract grommets over every third bolt and securing all bolts with wing nuts.



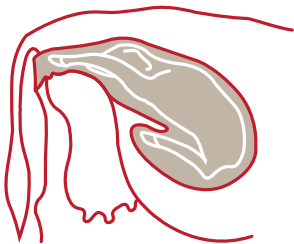
BOVINE BIRTHING AND ULTRASOUND SIMULATOR

- 4. Loosen the wing nuts on the bolts of the pelvic girdle.
- 5. Slide the bolts into the notches of the frame below the birthing tract, then tighten the wing nuts.
- 6. Attach the loops of the birthing tract to the metal hooks on the front of the frame.
- 7. Place the Birthing Calf Model into the birthing tract in different calving positions for students to practice.

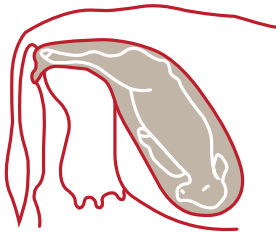


Calving positions

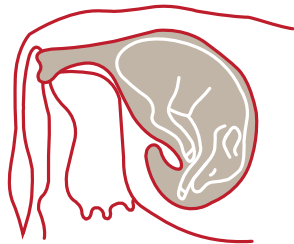
Below are a few of the calving positions that can be practiced with the simulator.



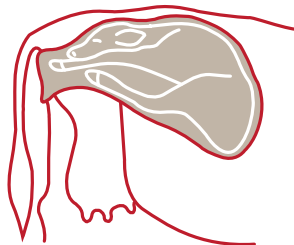
Normal Calf Presentation



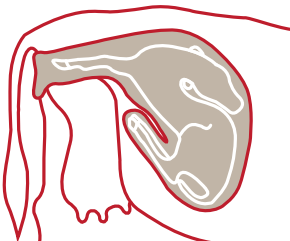
Posterior Presentation



Posterior Presentation Without Feet (Breech)



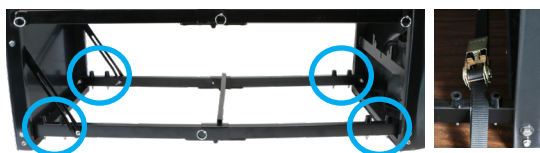
Transverse Presentation



Feet Presented, Head Turner Back (Head Back)

Ratchet straps

1. Loop the ratchet straps under the table and between the bumpers on the frame.
2. Tighten the ratchet straps to secure the frame in place.



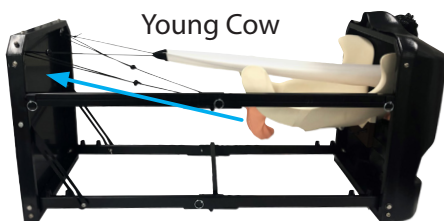
Note: The ratchet straps are needed for the birthing simulation but are optional for the ultrasound simulation.

Ultrasound tract

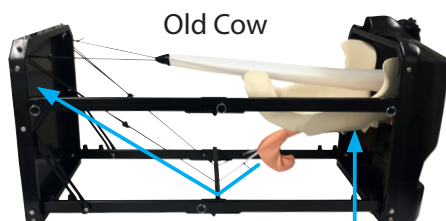
1. Pull the ultrasound tract through the back of the frame, then insert the four bolts and secure them with wing nuts.
2. Attach the loops of the ultrasound tract to the metal hooks on the front of the frame.
3. Tighten the loops on the reproductive tract until it hangs level.
4. Tighten the loops on the digestive tract until the ninth tag is at the end of the uterine horn, or 19" from the rear of the frame.



Note: To represent a young cow reproduction tract, hang directly under the digestive tract. To represent an older cow reproduction tract, route the strings of the tract under the support beam.



Young Cow



Old Cow

5. The pelvic girdle can be used with the ultrasound tract if desired.

Hide

1. Line up the snaps of the hide with the fasteners on the frame and press them into place.

Note: The hide can be used for birthing and ultrasound simulations at the discretion of the instructor.



BOVINE BIRTHING AND ULTRASOUND SIMULATOR

Admin instructions:

Access admin menu

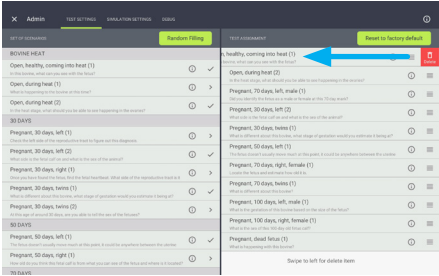
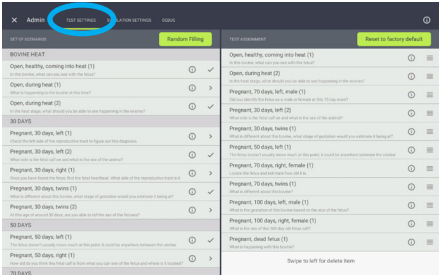
1. Open the Bovine Ultrasound app on the tablet by tapping the icon.
2. When the Bovine Ultrasound app opens, tap the star in the Realityworks logo to access the admin menu.



Note: If the admin menu does not appear, close the app and try again.

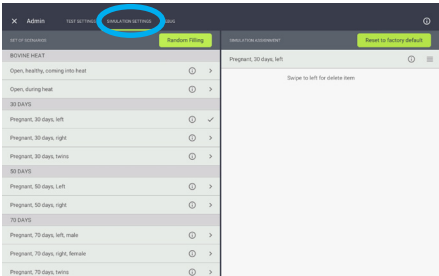
Test settings

1. Tap **Test Settings** at the top of the screen.
2. Tap the ⓘ icon to review information regarding each test scenario.
3. Select scenarios in the left column to add them to the test assessment that students will access.
3. Drag the scenarios in the right column to rearrange them.
4. Swipe left on scenarios in the right column to remove them from the list.
5. Scenarios can also be added by tapping **Random Filling**.
6. Tap **Reset to factory default** to reset scenarios to the default setting.

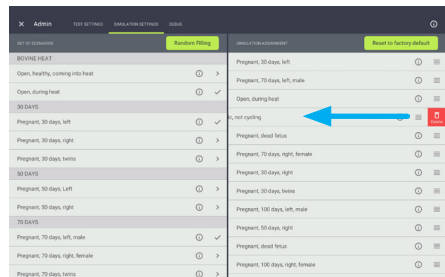


Simulation settings

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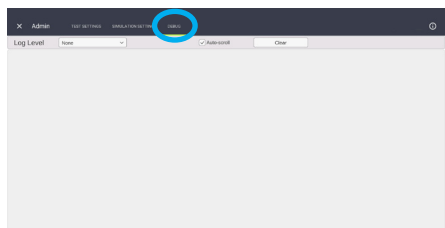


4. Drag the scenarios in the right column to rearrange them.
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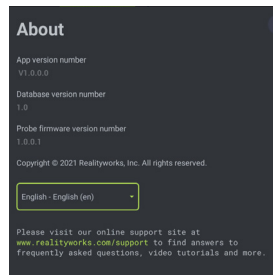
Debug

1. Contact Realityworks's Product Support Team.
2. Tap **Debug** at the top of the screen and follow directions given by product support.



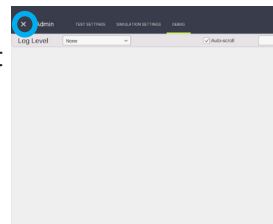
Version information, language, and support

1. Tap the  icon on the top right corner of the app.
2. Review version information.
3. Click the dropdown to change languages.
4. Contact product support if needed.



Exit admin menu

1. To exit the admin main menu and access the student menu, tap the **X** at the upper left corner of the screen.



BOVINE BIRTHING AND ULTRASOUND SIMULATOR

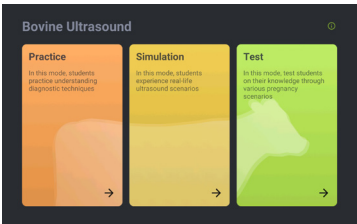
Student instructions:

Access student menu

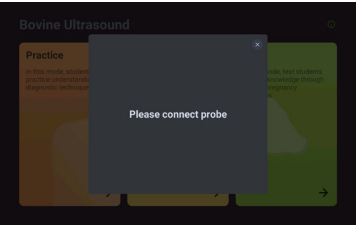
1. Plug the ultrasound probe into the tablet.
2. Open the Bovine Ultrasound app on the tablet by tapping the icon.
3. Select the mode you will be working in and tap it to begin.



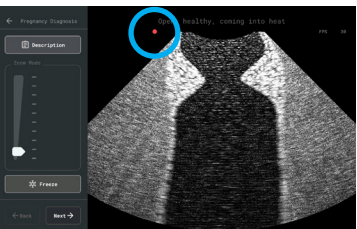
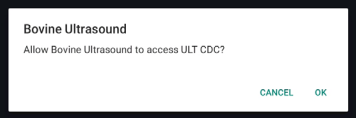
4. If the probe is not connected properly, a window will pop up, asking you to connect the probe.



5. Once the probe is plugged in, you will see a prompt to allow the probe to access the tablet. Tap **OK**, then close the pop-up window to continue.

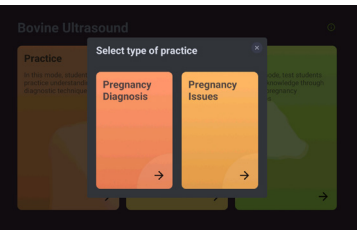


Note: If the probe becomes disconnected while in **Practice**, **Simulation**, or **Test** mode, the green dot near the top of the ultrasound screen will turn red.

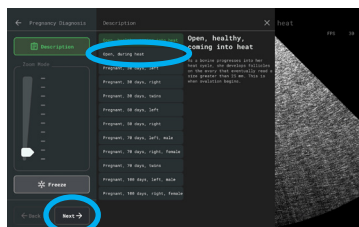
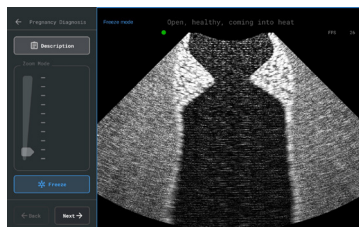
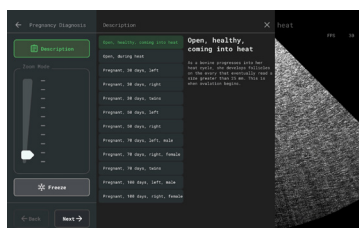


Practice mode

1. Tap either **Pregnancy Diagnosis** or **Pregnancy Issues**.

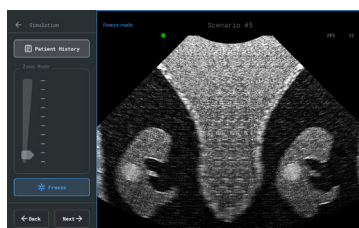
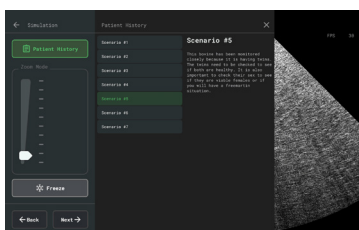


2. Tap **Description** to view information on each scenario and use the ultrasound probe to identify each.
3. Use the zoom function to focus in a specific spots on the ultrasound. Tap **Freeze** to freeze the ultrasound frame and study details on the screen.
4. Tap **Next** or on another scenario in the **Description** menu to move through the scenarios.
5. Tap the arrow in the top left corner to return to the home screen.



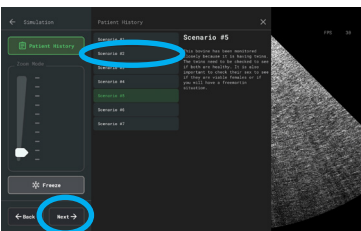
Simulation mode

1. Tap **Patient History** to view information on each scenario and use the ultrasound probe to complete each situation.
2. Use the zoom function to focus in on specific spots on the ultrasound. Tap **Freeze** to freeze the ultrasound frame and study details on the screen.



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- 3. Tap **Next** or on another scenario in the **Patient History** menu to move through the scenarios.

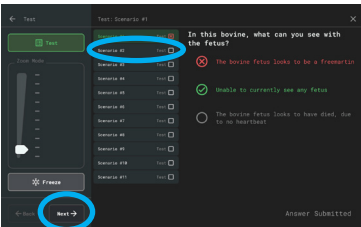
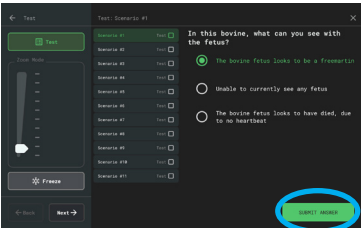
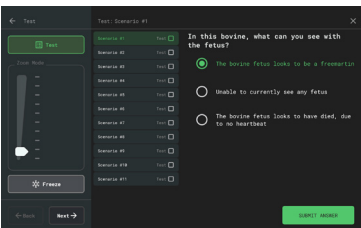


- 4. Tap the arrow in the top left corner to return to the home screen.

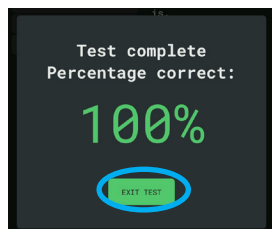
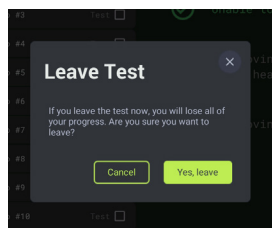


Test mode

- 1. Tap **Test** to view information on each scenario and use the ultrasound probe to answer each question.
- 2. Use the zoom function to focus in on specific spots on the ultrasound. Tap **Freeze** to freeze the ultrasound frame and study details on the screen.
- 3. Select your answer, then tap **SUBMIT ANSWER** to find out if you are correct.
- 4. Tap **Next** or on another scenario in the **Test** menu to move through the scenarios.

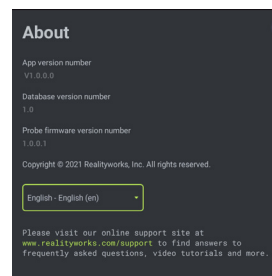


5. If you want to exit the test early, tap the arrow in the top left corner to return to the home screen. A window will pop up, verifying that you want to leave the test before it is complete.
6. Once you have completed all of the questions, a box will pop up with your grade. Tap **EXIT TEST** to return to the home screen.



Version information, language, and support

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Cleaning instructions:

Birthing Calf Model, frame, and ultrasound tract

- Use disinfecting wipes or mist with dish soap and water mix, then wipe dry with a cotton cloth

Hide, carrying bag, and birthing tract

- Put in washing machine on gentle cycle, then air dry

NEED MORE HELP?

Additional help and information

Online Product Support

We're here to help! Our online Product Support features video tutorials, downloadable documents, frequently asked questions and product notices, all of which make it easy for you to get support for products, software and more, day or night. Find our online product support area here: <https://www.realityworks.com/knowledge-base/>

Online Store

Supplies, accessories, select simulators, curriculum and more are available for purchase from our online store 24 hours a day! Find our online store here: <https://www.realityworks.com/>