

AGRICULTURAL PRACTICES PROTOCOL

COURSE SETTING:

This course will be taught as a combined clinical experience for individual animal and herd/ flock medicine. A regional field service area, referrals and University-owned teaching animals comprise the case work, as well as consulting activities, on-farm investigations and activities throughout Kansas.

OBJECTIVES:

1. To enhance a student's manual and clinical skills in the areas of physical examination, therapeutic and biological product delivery, general surgical techniques, and diagnostic sampling methodology.
2. To impart on each student the necessary skills and knowledge to identify problems and to initiate and evaluate a therapeutic or managerial plan for an individual animal or herd.
3. To create an awareness of meat and milk safety, quality assurance and welfare principles in the livestock industries.
4. To apply epidemiological and production medicine principles to solve on-farm problems.
5. To develop the skills for effective written and verbal client communication.

Safety

You will be oriented as to the use of the in-hospital chutes and livestock handling facilities as part of your orientation process. You are entering an area of the practice of veterinary medicine in which some of the animals are capable of inflicting serious injury to you. Know the disposition of your patients. If you have a question, ask the owner or the attending clinician. Do not work any large ruminant alone. Avoid placing yourself or others at risk through carelessness. Plan how you are to work around a patient, then cautiously proceed. If you feel that a significant threat to your safety exists, and you cannot safely perform a certain task involving a dangerous patient, simply **do not proceed further**. Promptly report any injury to your supervising clinician or the Section Head prior to or immediately following treatment.

Orientation and Case Assignment

The Agricultural Practices Protocol will be reviewed with each student group the morning of a rotational change by the Section Head or a designate. Equipment and facilities orientation will be conducted immediately following the Protocol review. Cases will be assigned on Monday morning of each week, or on change of student assignment.

AG PRACTICE ORIENTATION

8:30 a.m	Student Reports to J-127 (FA Student Conference Room)
9:00 a.m	Meet with Designated Clinical Faculty Orientation
9:30 a.m.	Food Animal Barn Orientation
10:00 a.m.	Students meet with clinicians on floor and receive cases
11:00 a.m.	Combined Large Animal ICU Orientation

Duty Assignments

Duties within the Agricultural Practices Section are shared between in-hospital and on-farm service areas. When there are no assignments in Field Service or Production Medicine respective students must help with patients in the clinic unless told otherwise by the field service clinicians.

The Agricultural Practices client appointment hours are from 10:00 a.m. to 5 p.m. Monday through Friday. Field service or Production Medicine activities may dictate extended hours or overnight lodging. All Agricultural Practices students who do not have a field service call should be in the clinic by 7:30 a.m. for treatment of hospitalized cases. When active case work is not occurring in your assigned service, you should take the opportunity to learn about the other cases on receiving or in the hospital. If no case work is active, utilize this time for reading, researching your cases, or updating your food animal knowledge and skills.

Check with the attending clinician prior to anticipated discharge for completion of the financial and discharge instructions. **No patient should be discharged without a complete and signed financial sheet and some written form of discharge order.**

Clinical Rounds

Clinical rounds for hospitalized cases will be at 9:00a.m. Monday - Friday. All morning treatments and SOAPS must be completed before rounds. On Saturday and Sunday students should meet with the house officer and/or the clinician in charge of each case to discuss the patient's progress and the day's treatment orders.

Students assigned to field service will participate in all clinical rounds when not out of the clinic.

Similar discussions will be undertaken while proceeding to and returning from local practice calls.

Review all pertinent clinical material while in Agricultural Practices. You will be expected to be knowledgeable on all subjects discussed in clinical rounds.

Receiving

When receiving cases, you will be called to the Large Animal Desk. Greet the client in a friendly manner and ascertain as quickly as possible the clinical problem(s) being presented. In case of emergencies, be prepared to gather history, either as you are working with the animal, or after the crisis has passed.

Obtain a thorough history with questioning based upon your assessment of the clinical situation being presented. Complete the history portion of the medical case record at the time of admittance.

Check with a receiving clinician or Ag Practices Veterinary Technician in the unloading and placement of the animal(s) in the designated pen or chute. Conduct a physical examination, establish a problem list, and develop a proposed diagnostic or therapeutic plan for the case. Discuss this with the clinician on the case before making any comments to the owners.

If time allows between admittances, gather and stage the necessary equipment and supplies to complete your proposed plan of action for non-hospitalized cases or those cases requiring action prior to hospitalization. Use a gurney or other cart to facilitate the process; avoid placing supplies on the floor. If a case is to be hospitalized, complete the stall cards and assist in transporting the animal(s) to the appropriate stall or service area.

Cleanup

You are responsible for the cleanup of all instruments, equipment, supplies and the hospital areas used in the evaluation and treatment of the clinical cases assigned to you. The clinical group assigned to the receiving duty clinician will be responsible for the policing of the receiving area at noon and the close of business each day. This activity will be supervised by the duty clinician. Do not leave equipment, medications, or syringes in or around a stall.

The students (primary and backup) assigned to after hours, holiday, and weekend duties will be responsible for the cleaning of the receiving area, stall area and local practice vehicles used while conducting clinical practice activities during their period of assignment.

Student responsibilities for cleaning:

1. Place all trash items and manure in designated containers.
2. Clean receiving area floors and walls.
3. Clean all surgical instruments and the surgery carts and return these to Central Preparation promptly. ***Remove all blades from scalpel handles and all other sharps prior to returning to Central Preparation.***
4. Soak all drapes and gowns to completely remove blood and particulate matter prior to returning to Central Preparation.
5. Take all biological material (ex., placentas, fetal material, excised material) to the outgoing cooler in necropsy.
6. Return or dispose of supplies.

Field service vehicle cleaning will routinely include:

1. Removal of all trash and debris from the seating and service areas of each vehicle.
2. Cleaning and drying of buckets and equipment and returning them to the practice vehicle.
3. Returning unused, unopened pharmaceutical, biologicals, and supplies to the Dispensary.
4. Restocking the truck as the clinician directs.

Records

All records are to be filled out completely. Indicate the admitting and attending clinician, but do not fill out the first page (final diagnosis). The medical record is a legal document. It must be legible, accurate, and current at all times. Please maintain the record in the order as described in the hospital protocol, taking care to be certain that all similar sheets are grouped together and in chronological order. Serial sheets such as ICU flow sheets must be chronologically numbered and dated. Please transcribe your observations and treatments, in a complete legible and professional manner. Records should be kept in the records room, in the slot that corresponds to the pen number. **An up-to-date problem list is required of all cases. Accurate medication records regarding the withdrawal times for milk and slaughter are absolutely critical.**

You are responsible for the daily maintenance of clinical case records. Initial daily entries are to be entered prior to 8:30 a.m. Acute deterioration in the condition of any patient should be noted in the record and reported verbally to the clinician as soon as possible. Subsequent entries can be made following clinical rounds or as additional case information is generated throughout the day. Afternoon entries should be completed prior to leaving at the end of the day. All case records and entries will follow the POVMR format. Place on the board of the record room the pen number, owners name, student responsible, and attending clinician. Return all records at the time of discharge of the animal to the Large Animal Desk.

VetStar

All financial entries for care (physical exam, surgery, drugs, hospitalization, etc.) of an animal must be entered into the VetStar computer program. Discuss with the responsible clinician or the Ag Practices Veterinary Technician as to the appropriate charges and who should enter them.

In-Hospital Patient Care

On-going case care will be completed before rounds each weekday morning. Exceptions are often made for intractable animals; treatments may be scheduled for after morning rounds in order to ensure safe handling. **All students** in Ag Practices are required to help during the morning treatments.

Lactating dairy cows are to be milked twice daily at 12 hour intervals unless other instructions are given by the attending clinician.

On weekends and holidays, case rounds between students assigned cases in the hospital and attending clinicians will be scheduled by the clinicians.

Once assigned a case, it is your responsibility to continually monitor the progress of the case until the case is discharged or you are relieved of the responsibility. If you have to leave for a field call on the morning after taking in an emergency, contact the clinician in charge so a new student can be assigned to the case.

In cases of approved excused absences, it is your responsibility to find a stand-in to complete your clinical case duties. In case of an emergency, notify the clinician in charge of the case, the Large Animal desk or the Emergency Desk. In situations requiring feed, bedding, or stall changes, notify the animal caretaker or Paul Wagoner to request assistance and write these changes on the stall cards.

Keep the animal clean and comfortable. Monitor feed and water consumption at least twice a day. Know the approximate water and feed intake required for the metabolic state of each animal under your care.

Animals requiring anesthesia should be scheduled with the large animal surgery tech and the anesthesia service by 3:00 p.m. the day prior to the planned anesthetic procedure. Scheduling forms may be obtained from the anesthesia service. Emergency procedures should be brought to the attention of the anesthesia service as soon as possible to facilitate their handling. Check with clinician in charge of case regarding feed and water withholding times.

Every case for which a surgical procedure has been performed must be accompanied by a surgical report. Details of the surgical procedure including the surgical dissection, the appearance of those tissues, tissues resected and suture size, type and pattern are all important details which should be included in the surgery report. **A surgical report form must be completed for all surgeries by 24 hours after completion of the procedure.**

Ag Practice Field Service, Production Medicine – Arrive in the hospital no later than 7:45 a.m.

While on field service calls, you are a guest on the farm or ranch of the client. Professional conduct should be practiced at all times. Clean coveralls and washable boots are required on all calls. Information gained while on field service calls related to disease and management are confidential and should not be shared with anyone outside the Veterinary Health Center. The time spent on the farm premise should be focused on that particular client's cases or herd work. While on the premise, conversations should be related to the animals and/or production issues being discussed. Current cases in the hospital, small or large animal, should not be discussed unless they are directly relevant to the current case or production issues (if other cases are directly related, remember client confidentiality). Past or upcoming weekend plans, or class events should not be discussed. While on the farm, we focus on that client and his or her needs for veterinary service.

The ambulatory truck should be kept stocked. Keep track of supplies used and replace them in the truck promptly upon your return. Make sure all equipment is washed and sanitized for the next use, and the water tank is full.

Always be prepared with clean coveralls and boots and adequate clothes to leave on short notice and be gone for an extended period. Field service calls may begin early in the morning and return late in the evening or require overnight stays. Always be prepared with thermometer and stethoscope for all calls including production medicine calls where no individual cases are anticipated. **Mandatory:** 2 pair of clean coveralls/day.

LARGE ANIMAL (LA) ICU/EMERGENCY DUTY COVERAGE

Review this material carefully to delineate your responsibilities when assigned Emergency Care and LA ICU Care in Agricultural Practices. Primary and backup students are scheduled on a daily basis by the departmental administrative staff.

Between 5 p.m. and 10 p.m., treatment of in-house is the responsibility of the emergency on-call student. The LA ICU student is responsible for treatment of cases from 10 p.m. to 8 a.m.. In most instances, one or two treatments are scheduled, and the student scheduled on emergency may drive in from home to complete the treatments. In some cases, however, the patient must be monitored continuously, and the emergency student must then remain in the clinic if directed by the clinician.

Necropsy

Animals from regular client herds or the KSU herds are accessioned as clinical cases in the large animal clinic. If your case dies or you receive a dead animal for a necropsy examination, contact the clinician responsible as soon as possible and take it to the necropsy cooler as quickly as possible. If you are the receiving student, get a complete history and use this information to complete the necropsy request. If your case dies and a necropsy is desired, give the pathologist all pertinent information when filling out the necropsy request, but do not leave the record at necropsy. If possible, be present when the necropsy is performed.

Check with the clinician to see what level of necropsy is necessary or if additional tests are to be performed (i.e., culture, histopath, etc.). **You are responsible for following the necropsy case to completion. This includes all ancillary diagnostic tests.** You must check to make sure that the necropsy reports are completed and filed in the medical record in a timely manner.

The diagnostic lab will accept APR's for necropsy ONLY if the necropsy level is indicated on the APR. Please review the protocol and make certain you indicate the necropsy level each time you submit an APR.

<u>Procedure Description</u>	<u>Client Price</u>
Necropsy Lv 1 Gross Only	N/C
Necropsy Lv 2	\$50
Necropsy Lv 3	\$80
Necropsy Lv 4	\$100
Necropsy Lv 5	\$125
Necropsy Lv 6 Additional Tt	VAR

A Disposal Fee must be charged on all necropsies.

In general, Lv 2 covers a gross necropsy plus histopathology and Lv 3 covers gross necropsy plus histopathology plus special stains or bacteriology. The other levels will be primarily for specific disease; for example, Lv 4 will cover bovine/porcine abortion, pig/calf scours, etc.

Necropsy Lv 6 Additional Tt is to be used for delayed billing in complicated cases (toxicology, multiple animals) and requires prior approval by the client. Also, Necropsy Lv 6 can not be selected as the only necropsy code - Necropsy Lv 6 must be in addition to Lv 2, Lv 3, Lv 4, or Lv 5 (not Lv 1).

Equipment Needs and Attire

Coveralls and rubber boots are desirable, but must be clean at all times. You will want to have changes of clothes available. You will have on your person at all times the following items:

- Thermometer
- Pen
- Stethoscope
- Scissors
- Name Identification Badge

A vital component to your professional success lies in your appearance and demeanor. Soiled clothing should be changed promptly. Shirts must be tucked in. Cleanliness and professional behavior are expected and required at all times.

STUDENT EVALUATION CRITERIA

The evaluation of a student's performance is a continuum while in this rotation. Students who, in the opinion of the faculty, are not progressing satisfactorily during a clinical rotational period will be notified of the deficient category(ies). Upon notification the student will schedule a meeting with the Section Head and representative faculty to discuss the deficiencies and to outline a program of self-improvement. In some instances, unsatisfactory performance may occur and be noted toward the end of a clinical rotation, particularly in cases of acute judgmental error, at which time the student will be informed by the Section Head of the unsatisfactory completion of the rotation.

SUMMARY

The expectations for senior students in the Agricultural Practices rotation can be summarized as follows:

1. Punctuality
2. Professionalism
3. Participation
4. Patient care
5. Problem lists

Kansas State University
Yr4 Vets

Evaluated By : evaluator's name
Evaluating : person (role) or moment's name (if applicable)
Dates : start date to end date

*indicates a mandatory response

Evaluation of Student Performance in Agricultural Practices (Field Service)

Click on a number for each specific item that correlates with your opinion of the student's ability.

Comprehensive patient diagnosis (problem solving skills), appropriate use of clinical laboratory testing, and record management

	1 Far Below Expected	2 Below Expected	3 Expected	4 Next 25%	5 Top 5%	N/A Could Not Be Evaluated
Demonstrates adequate analytical/diagnostic (problem solving) skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrates adequate history taking and patient evaluation skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Comprehensive treatment planning including patient referral when indicated

	1 Far Below Expected	2 Below Expected	3 Expected	4 Next 25%	5 Top 5%	N/A Could Not Be Evaluated
Provides adequate patient care	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrates comprehensive planning and recognizes indications for referral.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>













Anesthesia and pain management, patient welfare

	1 Far Below Expected	2 Below Expected	3 Expected	4 Next 25%	5 Top 5%	N/A Could Not Be Evaluated
Demonstrates understanding of pharmacology of drugs and therapeutic options	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrates empathy and care of the patient	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>







Basic surgery skills, experience, and case management

	1 Far Below Expected	2 Below Expected	3 Expected	4 Next 25%	5 Top 5%	N/A Could Not Be Evaluated
Knowledge of surgical principles and techniques	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrates adequate surgical skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>













Basic medicine skills, experience, and case management

	1 Far Below Expected	2 Below Expected	3 Expected	4 Next 25%	5 Top 5%	N/A Could Not Be Evaluated
Generates an appropriate diagnostic rule out list/differential diagnosis						
Demonstrates an adequate knowledge of pathophysiology of diseases						







Emergency and intensive care case management

	1 Far Below Expected	2 Below Expected	3 Expected	4 Next 25%	5 Top 5%	N/A Could Not Be Evaluated
Provides competent and proficient care and treatment of emergency and critical care patients						







Health promotion, disease prevention/biosecurity, zoonosis, and food safety

	1 Far Below Expected	2 Below Expected	3 Expected	4 Next 25%	5 Top 5%	N/A Could Not Be Evaluated
Applies proper principles of preventive medicine to animal populations (vaccination, biosecurity)						
Understands and applies knowledge of zoonotic diseases and drug residue avoidance as appropriate						







Client communication and ethical conduct

	1 Far Below Expected	2 Below Expected	3 Expected	4 Next 25%	5 Top 5%	N/A Could Not Be Evaluated
Demonstrates a sense of empathy with clients						

Strong appreciation for the role of research in furthering the practice of veterinary medicine

	1 Far Below Expected	2 Below Expected	3 Expected	4 Next 25%	5 Top 5%	N/A Could Not Be Evaluated
Independently identifies resources and finds answers to problems						

Personal traits and attributes

	1 Far Below Expected	2 Below Expected	3 Expected	4 Next 25%	5 Top 5%	N/A Could Not Be Evaluated
Interaction with students, staff, and faculty						

	1 Far Below Expected	2 Below Expected	3 Expected	4 Next 25%	5 Top 5%	N/A Could Not Be Evaluated
Demonstrates professional demeanor at all times, e.g., work ethic and punctual						

Comments:

****Don't forget to click on the Edit Grade link at the top of the form before you submit the evaluation.****

The following will be displayed on forms where feedback is enabled...
(for the evaluator to answer...)

Evaluation of Student Performance in Agricultural Practices - (In-House - Medicine and Surgery)







Comprehensive patient diagnosis (problem solving skills), appropriate use of clinical laboratory testing, and record management

Comprehensive treatment planning including patient referral when indicated













Anesthesia and pain management, patient welfare

Basic surgery skills, experience, and case management













	1 Far Below Expected	2 Below Expected	3 Expected	4 Next 25%	5 Top 5%	N/A Could Not Be Evaluated
Demonstrates adequate surgical skills						

	1 Far Below Expected	2 Below Expected	3 Expected	4 Next 25%	5 Top 5%	N/A Could Not Be Evaluated
Knowledge of surgical principles and techniques						













Basic medicine skills, experience, and case management

	1 Far Below Expected	2 Below Expected	3 Expected	4 Next 25%	5 Top 5%	N/A Could Not Be Evaluated
Generates an appropriate diagnostic rule out list/differential diagnosis						
Demonstrates an adequate knowledge of pathophysiology of diseases						







Emergency and intensive care case management

	1 Far Below Expected	2 Below Expected	3 Expected	4 Next 25%	5 Top 5%	N/A Could Not Be Evaluated
Provides competent and proficient care and treatment of emergency and critical care patients						
Recognizes subtle changes in patient status and responds appropriately						

Health promotion, disease prevention/biosecurity, zoonosis, and food safety

	1 Far Below Expected	2 Below Expected	3 Expected	4 Next 25%	5 Top 5%	N/A Could Not Be Evaluated
Understands and applies knowledge of drug residue avoidance						
Demonstrates knowledge and management of zoonotic diseases						

Client communication and ethical conduct

	1 Far Below Expected	2 Below Expected	3 Expected	4 Next 25%	5 Top 5%	N/A Could Not Be Evaluated
Effectively communicates medical issues and demonstrates empathy with clients (oral and written discharge summary)						

Strong appreciation for the role of research in furthering the practice of veterinary medicine

	1 Far Below Expected	2 Below Expected	3 Expected	4 Next 25%	5 Top 5%	N/A Could Not Be Evaluated
--	-------------------------------	------------------------	---------------	------------------	----------------	-------------------------------------

	1 Far Below Expected	2 Below Expected	3 Expected	4 Next 25%	5 Top 5%	N/A Could Not Be Evaluated
Independently identifies resources and finds answers to problems						

Personal traits and attributes

	1 Far Below Expected	2 Below Expected	3 Expected	4 Next 25%	5 Top 5%	N/A Could Not Be Evaluated
Interaction with students, staff, and faculty						
Demonstrates professional demeanor at all times, e.g., work ethic and punctual						

Comments:

****Don't forget to click on the Edit Grade link at the top of the form before you submit the evaluation.****

The following will be displayed on forms where feedback is enabled...
(for the evaluator to answer...)