Figure 1. Directed Acyclic Graph: Minnesota Veterinary Technicians Study – Age

DAGs FOR ALL FACILITY TYPES
Figure 2. Directed Acyclic Graph: Minnesota Veterinary Technicians Study – Type of Facility
Figure 3. Directed Acyclic Graph: Minnesota Veterinary Technicians Study – Years Worked in a Veterinary Facility

- Years worked in veterinary facility
  - Age
    - Sufficient time for proper restraint
  - Volume of animals
  - Number of animal types
    - Work-related Bite Injury
  - Type of facility
- Owner allowed or not allowed to restrain animals
- Adequate equipment
  - Adequate staff
- Owner present
  - History of Prior bite injury
  - Employer support to restrain property
  - Restraint training
Figure 4. Directed Acyclic Graph: Minnesota Veterinary Technicians Study – Hours Worked Per Day

- Hours worked per day
  - Confidence using restraint
    - Years worked in veterinary facility
  - Number of animal types
    - Age
    - Volume of animals
      - Sufficient time for proper restraint
  - Work-related Bite Injury
    - Owner allowed or not allowed to restrain animals
    - Likelihood of using proper restraint in presence of owner
  - Type of facility
    - History of Prior bite injury
    - Employer support to restrain properly
    - Restraint training
  - Adequate equipment
    - Adequate staff
    - Owner present
Figure 5. Directed Acyclic Graph: Minnesota Veterinary Technicians Study – History of Prior Bite Injury

- Hours worked per day
- Adequate equipment
- Confidence using restraint
- Owner allowed or not allowed to restrain animals
- Adequate staff
- Likelihood of using proper restraint in presence of owner
- Owner present
- Work-related Bite Injury
- Employer support to restrain properly
- Years worked in veterinary facility
- Age
- History of Prior bite injury
- Number of animal types
- Sufficient time for proper restraint
- Volume of animals
- Type of facility
- Restraint training
Figure 6. Directed Acyclic Graph: Minnesota Veterinary Technicians Study – Years Since Most Recent Restraint Training
Figure 7. Directed Acyclic Graph: Minnesota Veterinary Technicians Study – Adequate Staff Help Available for Restraint
Figure 8. Directed Acyclic Graph: Minnesota Veterinary Technicians Study – Volume of Animals Handled on a Typical Day
Figure 9. Directed Acyclic Graph: Minnesota Veterinary Technicians Study – Number of Animal Types Handled on a Typical Day
Figure 10. Directed Acyclic Graph: Minnesota Veterinary Technicians Study – Animal Owners Present During Exams and Procedures

- Hours worked per day
- Confidence using restraint
- Years worked in veterinary facility
- Number of animal types
- Age
- Volume of animals
- Sufficient time for proper restraint
- Owner allowed or not allowed to restrain animals
- Likelihood of using proper restraint in presence of owner
- Adequate equipment
- Adequate staff
- Work-related Bite Injury
- Type of facility
- Prior bite injury
- Owner present
- Employer support to restrain properly
- Restraint training
Figure 11. Directed Acyclic Graph: Minnesota Veterinary Technicians Study – Animal Owners Allowed to Restrain Pets

- Owner allowed or not allowed to restrain animals
- Adequate equipment
- Adequate staff
- Owner present
- Employer support to restrain properly
- Prior bite injury
- Restraining training
- Type of facility
- Work-related Bite Injury
- Sufficient time for proper restraint
- Number of animal types
- Volume of animals
- Age
- Years worked in veterinary facility
- Confidence using restraint
- Hours worked per day

Likelihood of using proper restraint in presence of owner

Input parameters:
- Work-related Bite Injury

Output parameters:
- Employer support to restrain properly
- Prior bite injury
- Type of facility
- Work-related Bite Injury
- Sufficient time for proper restraint
- Number of animal types
- Volume of animals
- Age
- Years worked in veterinary facility
- Confidence using restraint
- Hours worked per day
Figure 12. Directed Acyclic Graph: Minnesota Veterinary Technicians Study – Adequate Equipment Available for Proper Restraint

- Hours worked per day
- Confidence using restraint
- Years worked in veterinary facility
- Number of animal types
- Age
- Volume of animals
- Sufficient time for proper restraint
- Work-related Bite Injury
  - Owner allowed or not allowed to restrain animals
  - Likelihood of using proper restraint in presence of owner
- Type of facility
- Prior bite injury
- Employer support to restrain properly
- Adequate equipment
- Adequate staff
- Owner present
- Restraint training
Figure 13. Directed Acyclic Graph: Minnesota Veterinary Technicians Study – Adequate Support from Employer to use Proper Restraint

- Hours worked per day
- Confidence using restraint
- Years worked in veterinary facility
- Number of animal types
- Age
- Volume of animals
- Sufficient time for proper restraint
- Owner allowed or not allowed to restrain animals
- Adequate equipment
- Likelihood of using proper restraint in presence of owner
- Adequate staff
- Owner present
- Work-related Bite Injury
  - Prior bite injury
  - Type of facility
  - Employer support to restrain properly
  - Restraint training
Figure 14. Directed Acyclic Graph: Minnesota Veterinary Technicians Study – Felt Confident when Applying Restraint Techniques
Figure 15. Directed Acyclic Graph: Minnesota Veterinary Technicians Study – Sufficient Time Allowed to Perform Adequate Animal Restraint
Figure 16. Directed Acyclic Graph: Minnesota Veterinary Technicians Study – Just as Likely to Use Proper Restraint in Presence of Owners as if Owners Not Present