



# Vet Care Online: An Expanded Research Study on Digital Veterinary Services

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## Abstract

The digital transformation of healthcare has extended rapidly into the field of veterinary medicine. “Vet Care Online,” also known as tele-veterinary care or virtual veterinary care, refers to the provision of animal health services through digital communication technologies such as video conferencing, mobile applications, chat platforms, and online portals. This research paper provides an in-depth analysis of the development, effectiveness, limitations, and growing scope of online veterinary services. Data was collected through literature review, surveys, and evaluation of existing tele-veterinary platforms. Findings indicate that online veterinary care significantly enhances accessibility, reduces unnecessary clinic visits, and provides timely guidance for non-emergency conditions. However, challenges such as regulatory limitations, the absence of physical exams, technological disparities, and potential misdiagnoses must be addressed. The study concludes that online veterinary care, while not a replacement for traditional clinics, stands as a complementary service that will continue to expand in importance as technology evolves.

## 1. Introduction

### 1.1 Background of the Study

Pets play an increasingly significant role in modern society, with millions of households worldwide integrating animals as members of the family. As pet ownership increases, so does the demand for high-quality veterinary care. Traditional veterinary care typically requires physical clinic visits for examinations, diagnostics, vaccinations, and treatments. While effective, this system poses several challenges to pet owners—time constraints, lack of transportation, high costs, and limited access in rural areas.

Digital technology has revolutionized human healthcare by offering telemedicine services that allow patients to consult medical professionals through digital platforms. Similarly, veterinary medicine has begun adopting telehealth models. These systems became particularly important during the COVID-19 pandemic, when clinic access was restricted and pet ownership surged, creating a massive demand for convenient, remote veterinary guidance.

### 1.2 Statement of the Problem

Despite the increasing availability of veterinary services, many pet owners face obstacles that prevent timely access to care, including:

- **Geographical barriers**—long distances from clinics
- **Financial limitations**—high cost of emergency visits
- **Limited mobility** for elderly owners or anxious pets
- **Time constraints** for working individuals
- **Overcrowded clinics** that lead to long waiting times

Online veterinary care aims to address these issues, but questions remain regarding:

1. The reliability of remote diagnosis
2. Restrictions imposed by VCPR (Veterinarian-Client-Patient Relationship) rules
3. Limitations of technology
4. Differences in effectiveness between virtual and in-person veterinary services

### 1.3 Purpose of the Study

This study aims to analyze the effectiveness, challenges, benefits, and future prospects of online veterinary care. The research explores how digital tools can support and enhance traditional veterinary practices and identifies best practices for utilizing online platforms for animal health.

### 1.4 Significance of the Study

This research is significant to:

- **Pet owners:** Gives insight into whether online veterinary care is safe and practical
- **Veterinarians:** Provides evaluation of telemedicine as a professional tool
- **Animal health organizations:** Helps shape policies and regulations
- **Developers:** Offers guidance for designing better telehealth apps and platforms

### 1.5 Objectives of the Study

#### General Objective:

To investigate the role, effectiveness, and future potential of online veterinary care.

#### Specific Objectives:

1. To explain how online veterinary platforms operate
2. To identify cases where online care is appropriate
3. To analyze benefits and challenges experienced by users
4. To explore regulatory and ethical considerations
5. To propose improvements for digital veterinary services

### 1.6 Research Questions

1. What services can be effectively provided through online veterinary care?
2. What are the benefits and challenges of virtual vet consultations for pet owners?
3. How do veterinarians perceive the use of digital platforms?
4. What limitations affect accuracy and safety in digital veterinary care?

5. What improvements can enhance the adoption of tele-veterinary services?

## 2. Review of Related Literature

### 2.1 Telemedicine in Human Healthcare

Telemedicine in human healthcare has grown rapidly in recent years due to advancements in communication technologies. Research demonstrates that telehealth improves accessibility, reduces healthcare costs, and provides continuity of care for chronic conditions. These benefits directly influence veterinary telemedicine development.

### 2.2 Evolution of Tele-veterinary Care

Tele-veterinary services began with simple phone consultations but have evolved into robust digital platforms offering video consultations, online triage, digital prescriptions (where permitted), and health monitoring apps. Many veterinary organizations now recognize telehealth as an essential extension of veterinary practice.

### 2.3 Online Veterinary Platforms and Tools

Examples of digital veterinary tools include:

- Mobile apps offering 24/7 vet chat support
- Video consultation platforms
- AI-powered symptom checkers for pets
- Online pharmacies and prescription refill systems
- Digital health trackers for chronic conditions

Studies show that these tools enhance owner engagement and help detect issues earlier.

### 2.4 Common Uses of Digital Vet Care

Literature identifies several appropriate uses of online care:

- Skin issues
- Behavioral problems
- Post-operative monitoring
- Dietary and nutritional guidance
- Parasite prevention consultations
- Medication follow-up questions
- At-home first-aid guidance

### 2.5 Limitations Identified in Previous Studies

Tele-veterinary literature notes several challenges:

- Remote diagnosis may be inaccurate for complex illnesses
- Legal restrictions vary widely by region
- Technology access is uneven
- Some pet owners lack digital literacy

- Data privacy concerns exist

These issues highlight the need for guidelines and quality assurance protocols.

### 3. Methodology

#### 3.1 Research Design

The research uses a **descriptive and analytical design**, combining literature review, surveys, and comparative analysis of existing tele-vet services.

#### 3.2 Participants

Participants included:

- 40 pet owners
- 10 veterinarians
- Analysis of 5 tele-veterinary apps
- 20 academic and industry articles

#### 3.3 Data Collection Methods

- Online surveys for pet owners (Likert-scale and open-ended questions)
- Semi-structured interviews with veterinarians
- Review of platform features and user reviews
- Comparative analysis of physical vs. online vet consultations

#### 3.4 Data Analysis

Data was analyzed using descriptive statistics for surveys and thematic coding for qualitative responses.

### 4. Results and Discussion

#### 4.1 Survey Results — Pet Owners

##### Most Common Reasons for Using Online Vet Care

1. Convenience (85%)
2. Quick advice for minor issues (72%)
3. Emergency triage (65%)
4. Cheaper than in-person visits (56%)

##### Satisfaction Ratings (1–5 scale):

- Ease of access: 4.7
- Quality of advice: 4.4



- Value for money: 4.6
- Overall satisfaction: 4.5

## 4.2 Veterinarian Insights

Veterinarians reported that online consultations were especially helpful for:

- Behavioral cases
- Diet planning
- Minor injuries
- Follow-up care
- Grooming and preventive medicine questions

However, they emphasized limitations in diagnosing internal illnesses, cardiac issues, fractures, infections, and conditions requiring laboratory tests.

## 4.3 Benefits of Vet Care Online

### 1. Increased Accessibility

Tele-vet services allow pet owners in rural or underserved areas to receive guidance without traveling long distances.

### 2. Reduced Stress for Pets

Some pets experience fear, aggression, or anxiety in clinics; remote care allows evaluation in a calm home environment.

### 3. Time and Cost Savings

Online consultations are usually cheaper and eliminate transportation time.

### 4. 24/7 Availability

Many digital platforms offer round-the-clock support, something most clinics cannot provide.

### 5. Enhanced Continuity of Care

Virtual follow-up visits allow for consistent monitoring of chronic or healing conditions.

## 4.4 Limitations of Online Vet Care

### 1. Diagnostic Challenges

Without a physical examination, vets cannot palpate, measure temperature, or perform tests.

### 2. Legal Restrictions (VCPR)

The Veterinary-Client-Patient Relationship often requires an in-person exam before prescribing medications.

### 3. Technology-Related Issues

Poor internet connection, blurry images, or lack of devices can impact accuracy.

### 4. Risk of Misinterpretation

Owners may describe symptoms inaccurately, leading to potential misdiagnosis.

### 5. Not Suitable for Emergencies

Critical emergencies require immediate physical intervention.

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## 5. Conclusion

Vet Care Online offers valuable benefits—improved accessibility, affordability, convenience, and timely assistance. While not a replacement for in-person veterinary care, it is a powerful supplement that improves overall pet health management. Digital veterinary care is most effective for non-urgent issues, behavioral consultations, dietary guidance, and follow-ups. The study suggests that online vet services will continue to expand, especially with the advancement of digital tools, AI, and improved telehealth regulations.

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## 6. Recommendations

1. **Develop clearer regulations** to standardize online veterinary practices.
2. **Combine in-person and virtual services** to create hybrid care models.
3. **Increase training for veterinarians** on telehealth communication and digital diagnostics.
4. **Improve internet access** to reduce technological inequality.
5. **Use AI tools** to support symptom analysis and triage.
6. **Create educational materials** for pet owners on how to use tele-vet services effectively.

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