WOAH–FAVA | WORLD AMR AWARENESS WEEK

Prudent antimicrobial use in companion animal clinics in Bangladesh

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BASAVA, the AMR evidence base, and a survey-led research agenda

19 November 2026

Bangladesh Small Animal Veterinary Association (BASAVA)

Excellence in Pet Animal Care



About BASAVA

A national professional association of veterinarians dedicated to advancing companion animal healthcare, veterinary education, animal welfare, and One Health in Bangladesh.

Key Facts (2024–2026)

300+	Association members
25	Central Executive Committee members (17 office bearers + 8 executive)
Tenure	**2026 – 2028** (New Executive Committee)

Current Leadership (2026 – 2028)

- **President**
  Dr. Mohammad Rafiqul Islam
- **General Secretary**
  Prof. Dr. Begum Fatema Zohara

Major Activities and Milestones (2024 – 2026)

2024

- ✓ Technical seminar on companion animal vaccination (with Bioveta)
- ✓ Training on soft tissue surgery and feline panleukopenia



2025

- ✓ Seminar on Pet Health and Disease Diagnosis (Sher-e-Bangla Agricultural University)
- ✓ **1st BASAVA Conference** (20–21 December 2025, Hotel Amari, Dhaka)



2026

- ✓ Scientific seminar on avian influenza in cats and cross-species transmission
- ✓ Installation of divisional committees (27 June 2026)
- ✓ **1st BASAVA Pet Summit** (2–4 October 2026, Cox's Bazar)



New Executive Committee (2026 – 2028)

- ✓ 25 members in total
- ✓ 17 office bearers
- ✓ 8 executive members
- ✓ Dedicated portfolios: One Health Affairs, Continuing Education (CE), Information Technology & Research, International Affairs, and others

Training and Professional Development

Dec 2024	Soft tissue surgery and feline panleukopenia
Dec 2024	Companion animal vaccination (Bioveta)
Aug 2025	Pet health and disease diagnosis
Jun 2026	Avian influenza in cats and One Health
Oct 2026	1st BASAVA Pet Summit – scientific learning, clinical updates, and professional networking

BASAVA's Focus and Future Direction

- ✓ Continuing veterinary education and clinical capacity building
- ✓ Promoting prudent antimicrobial use and AMR awareness
- ✓ Infection prevention and responsible prescribing in pet clinics
- ✓ Strengthening diagnostic and research capacity
- ✓ Collaboration with WOAH, FAVA, universities, and national One Health stakeholders

A growing professional network for better companion animal health, responsible antimicrobial use, and a One Health Bangladesh.

BASAVA's potential stewardship role

Suggested association-led clinic programme, aligned with WOAH Chapter 6.10

Veterinarian training	Case review and species-specific guidance
Owner counselling	Dose, administration, follow-up and no leftover reuse
Clinic audit	Record diagnoses, prescriptions and outcomes
Laboratory links	Access to culture and susceptibility testing

Source: WOAH Terrestrial Code Chapter 6.10; proposed BASAVA implementation.




Your Pet Care in
One Click
PET HOUSE
CALL SERVICE
Veterinary Care at Your Doorstep!
Veterinary Consultation
Basic Health Check-up
Treatment & Medical Advice
For Dogs & Cats
Available Inside Wireless Area
BDT 2,000/-


Paracetamol
500 mg
Tablets
বিড়ালকে ভুল করে নাপা খাইয়ে আফসোস করছেন?
ভেট পরামর্শ ব্যাতিত নিজে থেকে কখনো ওষুধ দিবেন না।


Changes in Appetite.
Eating Less?
Skipping Meals?
A sudden change in appetite can be an early sign that something isn't right.
Keep an eye on their eating habits.
Early attention can make a big difference.








CLOSING CEREMONY
ASAVA PET SUMMIT- 2
CO-PARTNER
ACI Animal Health




CLOSING CEREMONY


ANNUAL
SAVA PET SUMMIT-


Ultrasonography findings
Clotted blood
Free fluid in abdominal cavity
Cystolith
Hyperechoic content
bladder
BASAVA PET SUMMIT-
CO-PARTNER


ACI Animal Health


SUMMIT- 2026


SESSION-1: POLICY, BUSINESS AND CLINICAL PRACTICE
CO-PARTNER
ACI Animal Health


ACI Animal Health
SESSION-1: POLICY, BU
AND CLINICAL PRAC



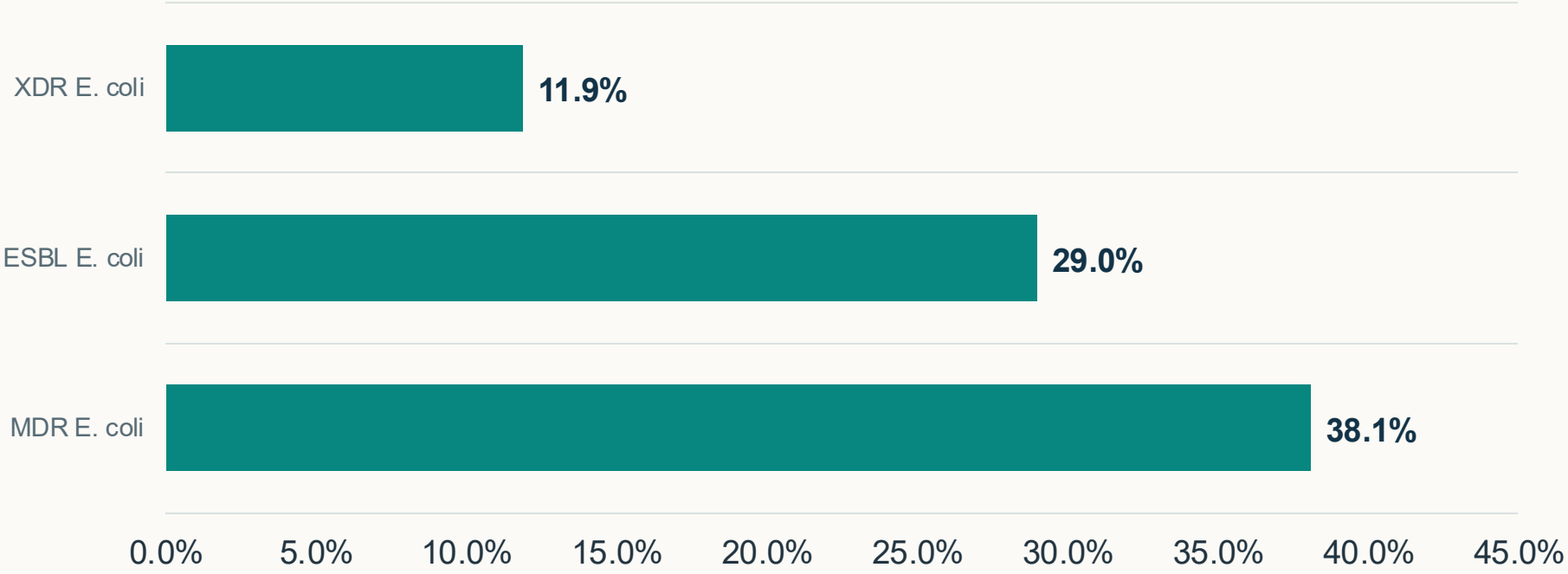

PET SUMM





Resistant E. coli in companion animal settings

Dhaka hospitals: 120 animal and environmental swabs, 2023 collection



Percent of E. coli isolates. Categories are not mutually exclusive.

Source: Rahman et al. Scientific Reports (2025), DOI 10.1038/s41598-025-01417-0.

Cats, owners and shared environments

Bangladesh study sampled 168 cats and 42 owner hand swabs

7.74%

S. aureus isolated from cat samples

9.50%

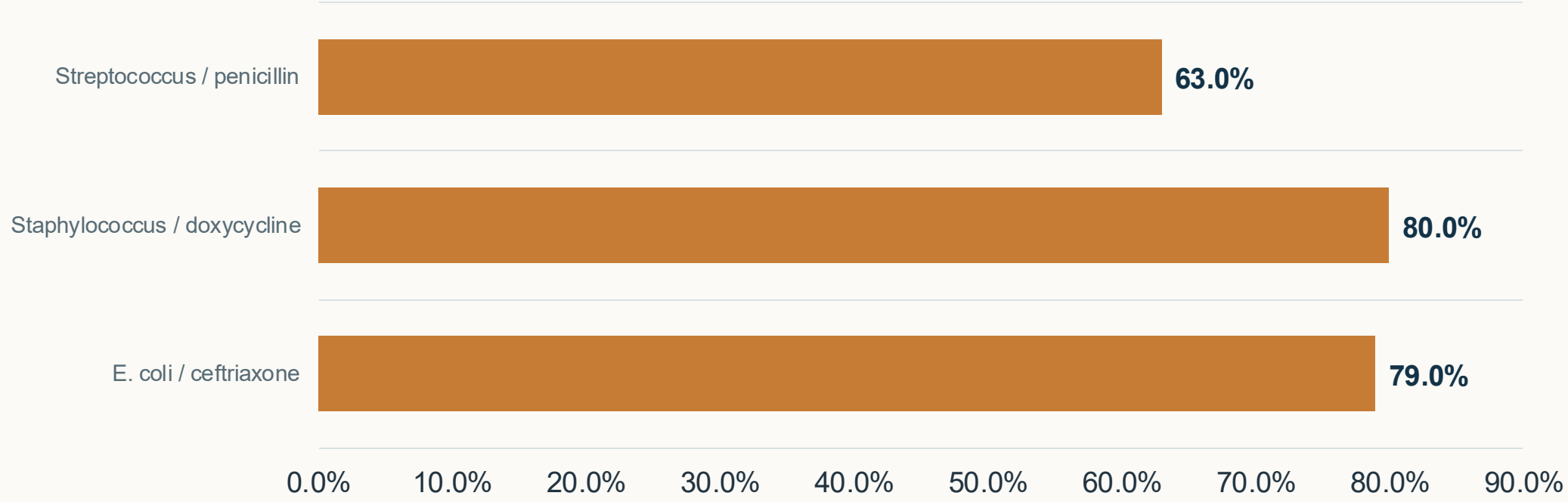
S. aureus isolated from owner hand swabs

All recovered S. aureus isolates showed a multidrug-resistant phenotype.

Source: J Adv Vet Anim Res (2023), S. aureus in pet cats and pet owners.

Dog isolates show high resistance in one hospital

Chattogram cross-sectional study: 50 swabs per anatomical site



Hospital-selected isolates, different organism–drug pairs. No national extrapolation.

Source: J Adv Vet Anim Res (2020), dog isolates in Chattogram.

AMU measurement remains a major gap

Published prescription data and behavioural research provide starting points

849

dog and cat clinical records reviewed in Chattogram

Missing national benchmarks

Prescriptions per 100 visits
Indication and drug class
Use of diagnostics
Patient outcomes

Sources: Hasib et al. 2020; qualitative COM-B study 2024, food-animal veterinarians.

A practical clinic stewardship pathway

WOAH guidance emphasizes diagnosis, targeted treatment and clear owner instructions

1. Assess History, examination and syndrome

2. Diagnose Sampling and susceptibility testing when indicated

3. Prescribe Appropriate choice, dose and duration

4. Review Document response and counsel owner

Source: WOAH Chapter 6.10.

Two surveys answer different questions

Keep veterinarian practice data separate from the companion animal owner pilot

208

Published veterinarian questionnaire (all veterinary sectors)

KEY FINDINGS — VETERINARIANS

70.2% sometimes prescribed remotely / without examination

Only 9.1% always or often recommended AST

56

Unpublished companion animal stakeholder pilot

KEY FINDINGS — PILOT

50.0% had heard of AMR

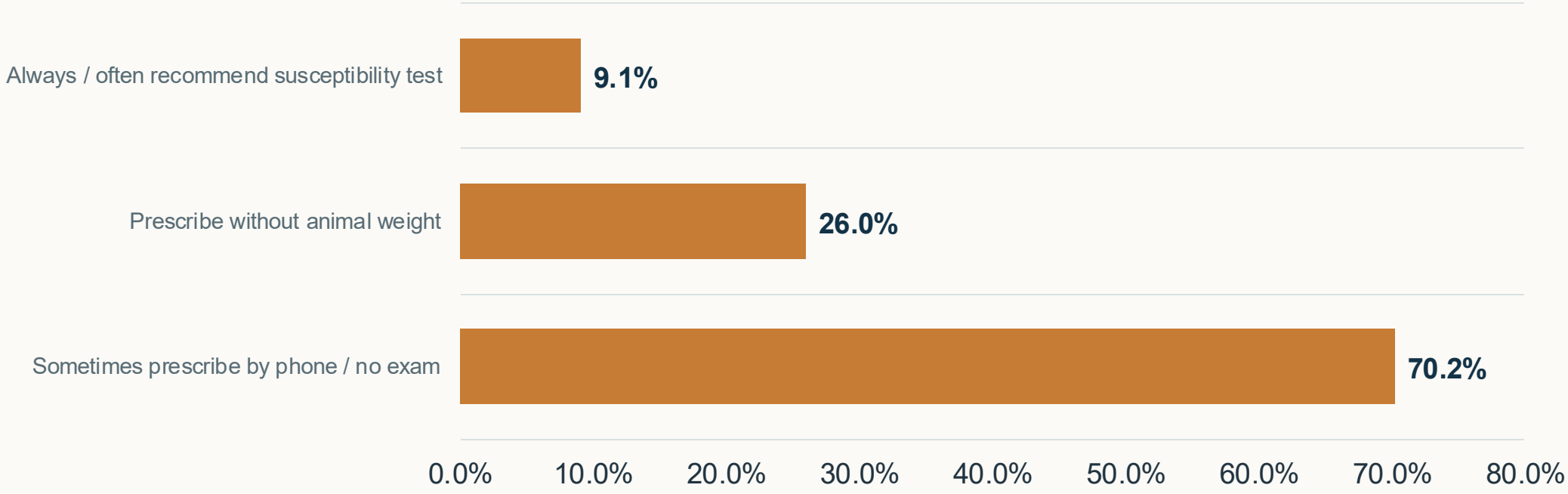
53.6% were uncertain or accepted stopping antibiotics once pets improved

Takeaway: veterinarian prescribing practices and owner knowledge require different stewardship interventions.

Sources: PLOS ONE (2024), n=208; supplied unpublished pilot questionnaire, n=56.

Reported veterinarian prescribing practices

National cross-sectional online questionnaire: 208 veterinarians (PLOS ONE, 2024)

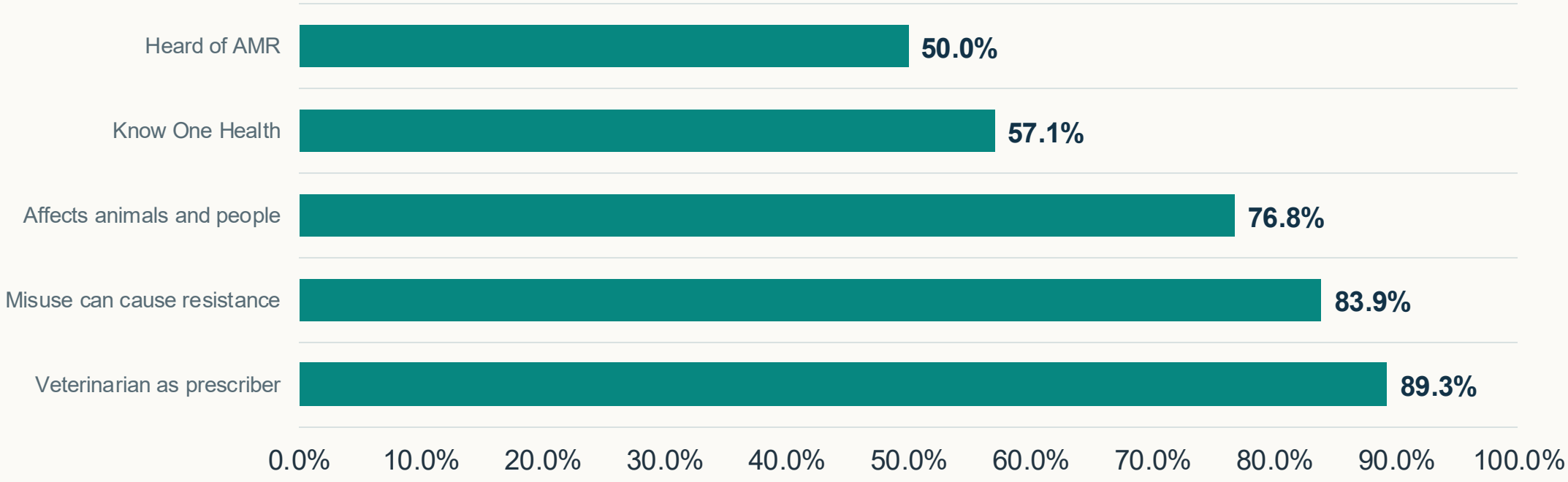


Indicators use different questionnaire response options.

Source: PLOS ONE (2024), doi:10.1371/journal.pone.0308324.

Pilot survey: awareness exceeds familiarity with AMR

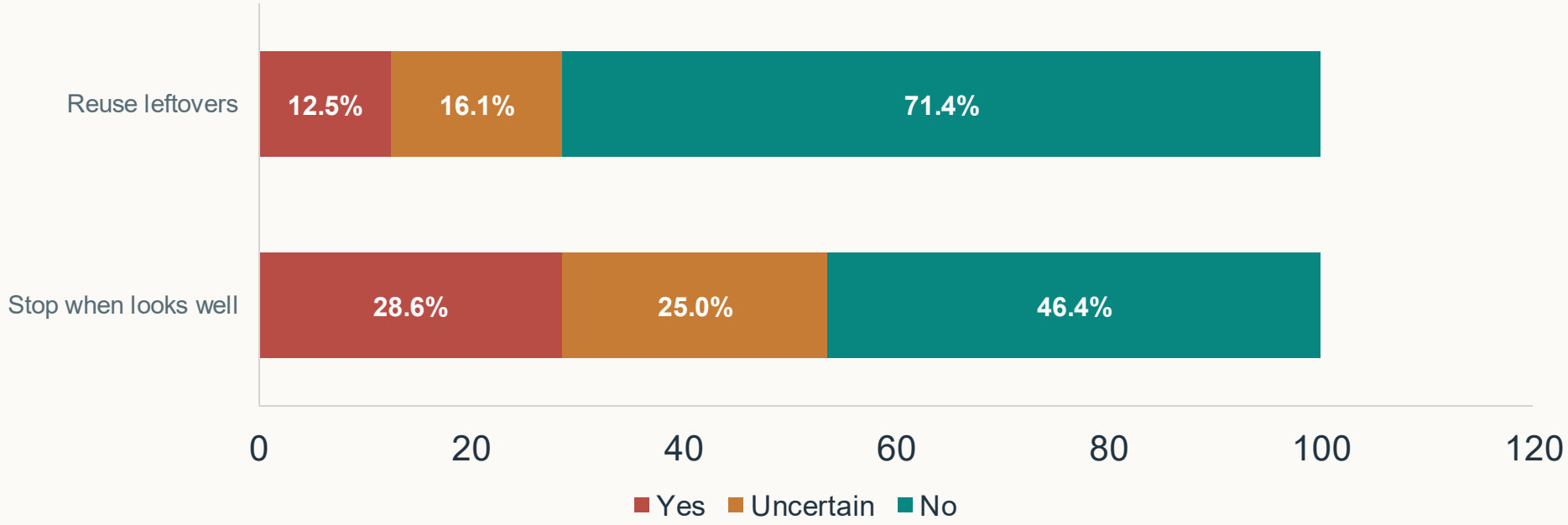
56 self-reported responses. Mostly pet owners, including veterinary-trained respondents



Source: supplied pilot questionnaire, n=56.

Owner counselling gaps concern treatment decisions

Pilot survey, n = 56. Response proportions from two separate questions

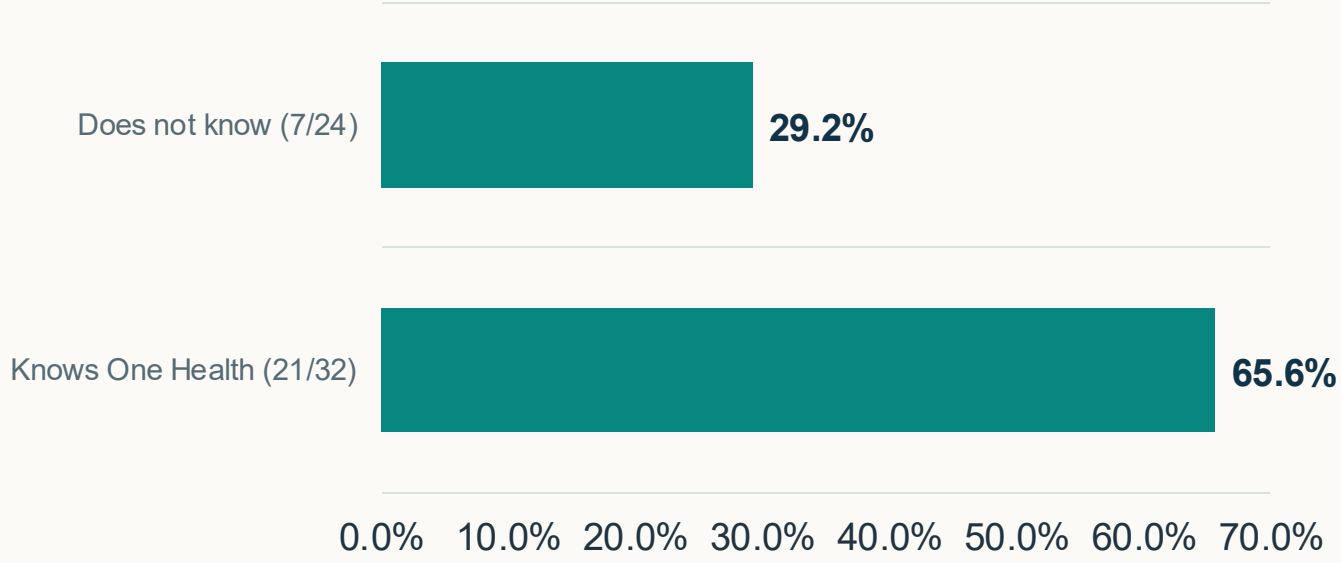


Action for owners: follow the prescribed plan; call the veterinarian before changing treatment.

Source: supplied pilot questionnaire, n=56.

One Health knowledge correlates with AMR awareness

Exploratory 2 × 2 test in the 56-response pilot



4.64

Crude odds ratio

95% CI 1.48–14.54

Fisher exact p = 0.0143

Association only; non-random pilot with unadjusted comparisons.

Source: pilot analysis, n=56. Fisher exact p=0.0143; crude OR=4.64.

Research needed next in Bangladesh

A staged companion animal stewardship programme

01 Survey Veterinarian-only multicentre KAP with sampled clinics

02 Audit Prospective AMU per 100 consultations and indication

03 Surveillance Standardized AST plus companion animal–human–environment sampling

04 Evaluation Cluster study of clinic education and prescribing outcomes

05 PAPUM **Practitioner Antibiotic Prescription Use Model**

Sources: WOAH Chapter 6.10; study limitations and research gaps from literature.

ONE HEALTH, ONE ACTION

Make every pet consultation a stewardship opportunity

BASAVA can convene the clinics. Research can measure the results

Professor Dr. Kohei Makita (RGU)
Dr. Md Kaiser Rahman (UMK)
Dr. Ridoan Pasha (CVASU)

Scientific sources and standards

Research citations used in the talk

WOAH. Terrestrial Animal Health Code, Ch. 6.10 (2024).

Rahman et al. Scientific Reports (2025). DOI: 10.1038/s41598-025-01417-0

Companion cat S. aureus study. J Adv Vet Anim Res (2023). PMC10636086.

Dog pathogen AMR study. J Adv Vet Anim Res (2020). PMC7774779.

Veterinarian KAP survey. PLOS ONE (2024). DOI: 10.1371/journal.pone.0308324

Hasib et al. J Adv Vet Anim Res (2020). DOI: 10.5455/javar.2020.g405

Peer-reviewed sources and WOAH standards; full URLs in speaker notes.