

**Table 1. Mean ( $\pm$ SE) Likert scale choices in response to statement about animal welfare, relevant issues and Taiwan animal protection Law.**

Statement	Overall	Male	Female	Academic	Government	Clinic	vet	researcher	others
I know “The Five Freedom” proposed by the FAWC in animal welfare	3.06 $\pm$ 1.09	3.11 $\pm$ 1.08	2.95 $\pm$ 1.17	2.98 $\pm$ 1.29	3.31 $\pm$ 1.06	3.04 $\pm$ 0.97	3.08 $\pm$ 1.00	3.02 $\pm$ 1.26	3.08 $\pm$ 1.27
Vertebrates have the same perceptions as humans do	4.37 $\pm$ 0.89	4.29 $\pm$ 0.93	4.59 $\pm$ 0.77	4.65 $\pm$ 0.63	4.08 $\pm$ 1.01	4.26 $\pm$ 0.96	4.25 $\pm$ 0.97	4.67 $\pm$ 0.47	4.08 $\pm$ 1.23
I understand the content of current animal protection laws	3.41 $\pm$ 0.91	3.52 $\pm$ 0.89	3.12 $\pm$ 0.91	3.21 $\pm$ 0.91	3.89 $\pm$ 0.75	3.40 $\pm$ 0.91	3.40 $\pm$ 0.88	3.28 $\pm$ 0.92	4.00 $\pm$ 0.95
Veterinarians are important in communication and education about issues of animal protection	4.36 $\pm$ 0.70	3.34 $\pm$ 0.73	4.43 $\pm$ 0.61	4.51 $\pm$ 0.53	4.17 $\pm$ 0.78	4.31 $\pm$ 0.75	4.31 $\pm$ 0.73	4.53 $\pm$ 0.54	4.08 $\pm$ 0.90
Current animal protection laws are sufficient to protect animals	2.01 $\pm$ 0.94	2.08 $\pm$ 0.97	1.83 $\pm$ 0.85	2.10 $\pm$ 0.94	2.25 $\pm$ 1.03	1.86 $\pm$ 0.89	1.86 $\pm$ 0.88	2.25 $\pm$ 0.93	2.26 $\pm$ 1.21
Animal shelters in Taiwan have achieved the expected functions and goals (e.g., lost animal identification, adoption and neutralization).	2.63 $\pm$ 1.07	2.74 $\pm$ 1.05	2.31 $\pm$ 1.07	2.59 $\pm$ 1.04	3.00 $\pm$ 1.06	2.53 $\pm$ 1.08	2.57 $\pm$ 1.08	2.68 $\pm$ 1.10	2.78 $\pm$ 0.85
I will anesthetize animals no matter how long a surgical operation takes	4.22 $\pm$ 0.89	4.24 $\pm$ 0.87	4.18 $\pm$ 0.93	4.21 $\pm$ 0.91	4.12 $\pm$ 0.94	4.26 $\pm$ 0.86	4.24 $\pm$ 0.86	4.25 $\pm$ 0.88	3.95 $\pm$ 1.06
I will prevent animals from unnecessary sufferings by any means	4.48 $\pm$ 0.57	4.46 $\pm$ 0.54	4.53 $\pm$ 0.67	4.52 $\pm$ 0.60	4.44 $\pm$ 0.50	4.46 $\pm$ 0.58	4.44 $\pm$ 0.62	4.52 $\pm$ 0.51	4.54 $\pm$ 0.50
I will give a warning to the abuser that it is illegal or report it to the organization concerned when I witness an animal abuse	3.94 $\pm$ 0.74	3.94 $\pm$ 0.72	3.92 $\pm$ 0.78	3.92 $\pm$ 0.74	4.06 $\pm$ 0.70	3.91 $\pm$ 0.75	3.92 $\pm$ 0.74	3.96 $\pm$ 0.70	4.00 $\pm$ 0.90
Taking courses and trainings of animal welfare raise the image and ability of veterinary profession	3.20 $\pm$ 1.23	3.21 $\pm$ 1.26	3.16 $\pm$ 1.16	3.53 $\pm$ 1.21	2.97 $\pm$ 1.17	3.03 $\pm$ 1.23	3.04 $\pm$ 1.25	3.61 $\pm$ 1.13	2.82 $\pm$ 1.11



**Table 2. Mean ( $\pm$ SE) Likert scale choices in response to statement about farm animal and lab animal welfare**

Statement	Overall	Male	Female	Academic	Government	Clinic	Vet	researcher	Others
It is important to satisfy the need of farm animals to behave normally	4.06 $\pm$ 0.68	4.04 $\pm$ 0.66	4.10 $\pm$ 0.72	4.20 $\pm$ 0.72	4.14 $\pm$ 0.50	3.93 $\pm$ 0.67	3.98 $\pm$ 0.63	4.13 $\pm$ 0.62	4.20 $\pm$ 0.76
Generally, farm animals in Taiwan are handled and treated humanely	2.45 $\pm$ 0.97	2.50 $\pm$ 0.99	2.32 $\pm$ 0.91	2.53 $\pm$ 1.01	2.55 $\pm$ 0.92	2.36 $\pm$ 0.96	2.36 $\pm$ 0.95	2.60 $\pm$ 0.94	2.59 $\pm$ 1.01
Farm animals should have sufficient space to move freely	3.95 $\pm$ 0.87	3.95 $\pm$ 0.82	3.97 $\pm$ 1.01	4.05 $\pm$ 0.91	3.87 $\pm$ 0.94	3.91 $\pm$ 0.83	3.88 $\pm$ 0.87	4.17 $\pm$ 0.77	4.04 $\pm$ 0.89
Farm animals should be stunned before slaughtering and bleeding	4.47 $\pm$ 0.61	4.43 $\pm$ 0.61	4.59 $\pm$ 0.60	4.60 $\pm$ 0.56	4.48 $\pm$ 0.50	4.38 $\pm$ 0.66	4.43 $\pm$ 0.62	4.43 $\pm$ 0.58	4.58 $\pm$ 0.57
Farm animals should have sufficient space to sprawl or crouch	4.44 $\pm$ 0.67	4.41 $\pm$ 0.60	4.51 $\pm$ 0.83	4.51 $\pm$ 0.75	4.42 $\pm$ 0.49	4.40 $\pm$ 0.67	4.43 $\pm$ 0.64	4.43 $\pm$ 0.50	4.47 $\pm$ 0.77
Farm animals should have comfortable padding to sprawl or crouch	4.12 $\pm$ 0.84	4.13 $\pm$ 0.78	4.11 $\pm$ 0.98	4.18 $\pm$ 0.94	4.04 $\pm$ 0.72	4.11 $\pm$ 0.81	4.15 $\pm$ 0.76	4.04 $\pm$ 0.87	4.08 $\pm$ 0.98
Operating procedures of laboratory animals should be strictly assessed, examined and approved	4.42 $\pm$ 0.64	4.38 $\pm$ 0.67	4.51 $\pm$ 0.55	4.45 $\pm$ 0.66	4.36 $\pm$ 0.52	4.44 $\pm$ 0.60	4.44 $\pm$ 0.58	4.34 $\pm$ 0.57	4.42 $\pm$ 0.68
Operating procedures of laboratory animal should be strictly assessed and examined by veterinarians	4.46 $\pm$ 0.63	4.43 $\pm$ 0.67	4.53 $\pm$ 0.52	4.58 $\pm$ 0.61	4.38 $\pm$ 0.49	4.40 $\pm$ 0.67	4.42 $\pm$ 0.64	4.52 $\pm$ 0.51	4.52 $\pm$ 0.63
Personnel involved in operating procedures of laboratory animal should have training of laboratory animal ethics	4.51 $\pm$ 0.56	4.48 $\pm$ 0.58	4.59 $\pm$ 0.51	4.57 $\pm$ 0.55	4.40 $\pm$ 0.49	4.52 $\pm$ 0.56	4.52 $\pm$ 0.54	4.52 $\pm$ 0.51	4.52 $\pm$ 0.58
It is necessary to reduce the use of laboratory animals whatever the	4.20 $\pm$ 0.87	4.20 $\pm$ 0.88	4.20 $\pm$ 0.83	4.29 $\pm$ 0.84	4.06 $\pm$ 0.91	4.19 $\pm$ 0.87	4.19 $\pm$ 0.87	3.86 $\pm$ 1.05	4.31 $\pm$ 0.80

purpose of the animal use is

Animal welfare status can be raised  
or improved only if the costs do not  
increase

2.91±1.14 2.96±1.15 2.75±1.11 2.87±1.19 3.17±1.10 2.86±1.12 2.92±1.14 2.89±1.16 2.95±1.10

As a consumer, I am willing to pay  
more for products with higher animal  
welfare standards

4.01±0.82 4.04±0.79 3.96±0.90 4.04±0.86 4.06±0.70 3.98±0.83 4.01±0.80 4.04±0.86 4.00±0.85

---

**Table 3. Mean ( $\pm$ SE) Likert scale choices in response to statement about Five Freedoms.**

Statement	Overall	Male	Female	Academic	Government	Clinic	vet	researcher	others
Freedom from hunger and thirst	4.64 $\pm$ 0.51	4.60 $\pm$ 0.52	4.75 $\pm$ 0.46	4.72 $\pm$ 0.49	4.57 $\pm$ 0.49	4.61 $\pm$ 0.52	4.63 $\pm$ 0.51	4.68 $\pm$ 0.51	4.56 $\pm$ 0.50
Freedom from injury and disease	4.60 $\pm$ 0.56	4.56 $\pm$ 0.59	4.74 $\pm$ 0.46	4.68 $\pm$ 0.59	4.57 $\pm$ 0.49	4.56 $\pm$ 0.57	4.59 $\pm$ 0.55	4.64 $\pm$ 0.62	4.56 $\pm$ 0.50
Freedom from fear and distress	4.59 $\pm$ 0.56	4.55 $\pm$ 0.56	4.71 $\pm$ 0.52	4.68 $\pm$ 0.50	4.57 $\pm$ 0.49	4.54 $\pm$ 0.60	4.57 $\pm$ 0.58	4.64 $\pm$ 0.52	4.56 $\pm$ 0.50
Freedom from discomfort	4.54 $\pm$ 0.61	4.48 $\pm$ 0.63	4.72 $\pm$ 0.50	4.60 $\pm$ 0.58	4.57 $\pm$ 0.49	4.50 $\pm$ 0.66	4.55 $\pm$ 0.62	4.53 $\pm$ 0.62	4.56 $\pm$ 0.50
Freedom to express normal behavior	4.49 $\pm$ 0.67	4.43 $\pm$ 0.70	4.64 $\pm$ 0.57	4.54 $\pm$ 0.65	4.53 $\pm$ 0.58	4.45 $\pm$ 0.68	4.49 $\pm$ 0.66	4.49 $\pm$ 0.67	4.52 $\pm$ 0.59

**Table 4. Mean ( $\pm$ SE) Likert scale choices in response to statement about animal welfare in veterinary education**

Statement	Overall	Male	Female	Academic	Government	Clinic	vet	researcher	Others
Education or training about animal welfare is important	4.33 $\pm$ 0.59	4.30 $\pm$ 0.61	4.44 $\pm$ 0.50	4.38 $\pm$ 0.59	4.31 $\pm$ 0.55	4.32 $\pm$ 0.57	4.34 $\pm$ 0.54	4.34 $\pm$ 0.61	4.39 $\pm$ 0.65
Courses about animal welfare should be included in the compulsory curriculum of veterinary education	4.23 $\pm$ 0.73	4.18 $\pm$ 0.77	4.37 $\pm$ 0.57	4.33 $\pm$ 0.70	4.23 $\pm$ 0.66	4.17 $\pm$ 0.76	4.22 $\pm$ 0.73	4.26 $\pm$ 0.72	4.26 $\pm$ 0.75
Education or training about laboratory animals is important	4.32 $\pm$ 0.59	4.27 $\pm$ 0.62	4.46 $\pm$ 0.50	4.42 $\pm$ 0.61	4.31 $\pm$ 0.55	4.27 $\pm$ 0.56	4.30 $\pm$ 0.54	4.40 $\pm$ 0.64	4.30 $\pm$ 0.63
Courses about laboratory animal welfare should be included in the compulsory curriculum of veterinary education	4.17 $\pm$ 0.75	4.13 $\pm$ 0.77	4.28 $\pm$ 0.67	4.24 $\pm$ 0.78	4.19 $\pm$ 0.64	4.12 $\pm$ 0.75	4.16 $\pm$ 0.71	4.18 $\pm$ 0.81	4.17 $\pm$ 0.77
Education or courses about animal ethics is important	4.31 $\pm$ 0.62	4.28 $\pm$ 0.64	4.39 $\pm$ 0.56	4.38 $\pm$ 0.64	4.27 $\pm$ 0.57	4.28 $\pm$ 0.60	4.31 $\pm$ 0.57	4.32 $\pm$ 0.66	4.30 $\pm$ 0.70
Courses about animal ethics should be included in the compulsory curriculum of veterinary education.	4.15 $\pm$ 0.80	4.10 $\pm$ 0.84	4.28 $\pm$ 0.67	4.22 $\pm$ 0.79	4.25 $\pm$ 0.70	4.09 $\pm$ 0.80	4.14 $\pm$ 0.77	4.16 $\pm$ 0.83	4.30 $\pm$ 0.70
Communication skills for a potential conflict which a veterinarian may encounter during implementing animal welfare policies is important	4.43 $\pm$ 0.57	4.41 $\pm$ 0.57	4.49 $\pm$ 0.57	4.50 $\pm$ 0.59	4.46 $\pm$ 0.54	4.38 $\pm$ 0.57	4.41 $\pm$ 0.57	4.48 $\pm$ 0.58	4.43 $\pm$ 0.58
Courses about the communication skills for a potential conflict during implementing animal welfare policies should be included in the compulsory curriculum of veterinary education.	4.17 $\pm$ 0.79	4.14 $\pm$ 0.80	4.25 $\pm$ 0.75	4.18 $\pm$ 0.86	4.25 $\pm$ 0.70	4.15 $\pm$ 0.76	4.17 $\pm$ 0.78	4.15 $\pm$ 0.84	4.30 $\pm$ 0.63

