



Orangutan Veterinary Advisory Group

VIRTUAL

Workshop 2021



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Prepared with organizing committee of the Orangutan Veterinary Advisory Group: R. Commitante, R. Jaya, Nancy Lung, P.Nagalingam, C. Nente, Y. Saraswati, Soedarmanto Indarjulianto, S. Sugnaseelan, F. Sulisty, S. Unwin, (Editors).

Orangutan Veterinary Advisory Group VIRTUAL Workshop 2021

Copies of all the Orangutan Veterinary Advisory Group (OVAG) Workshop Report of Proceedings can be found on the Orangutan Conservancy website, www.orangutan.com and the official OVAG website: www.ovag.org

All materials relating to this VIRTUAL 2021 Workshop can be found at

<https://umnadvet.instructure.com/login/canvas>

with proper login information sponsored by the

University of Minnesota College of Veterinary Medicine, U.S.

Participating Organizations/Groups:

A'Famosa Safari Wonderland, Malaysia
Anatomy Departement, Faculty of Veterinary Medicine, Gadjah Mada University
AnimalConcepts
Animal Sanctuary Trust Indonesia
Appalachian State University
Asliqewan , Indonesia
Balai Konservasi Sumber Daya Alam Kalimantan Timur
Bandung Zoological Garden
Biological Park Itanagar
Borneo Orangutan Survival Foundation (BOSF) Nyaru Mentang
Borneo Orangutan Survival Foundation (BOSF) Samboja Lestari
Borneo Rhino alliance
Chester Zoo, UK
Chimfunshi Wildlife Orphanage Trust, Zambia
Chulalongkorn University, Thailand
Cikananga Wildlife Center, Java, Indonesia
Faculty of Veterinary Medicine Gadjah Mada University, Indonesia
Faunaland Ancol
Fort Worth Children's Zoo, US
Frankfurt Zoological Society, Sumatera, Indonesia
Gembira Loka Zoo, Indonesia
Indianapolis Zoo
IPB University (Insitiut Pertanian Bogor) Indonesia
International Animal Rescue Indonesia (IAR) Indonesia
IUCN Gibbon SSA
Javan Gibbon Center, Indonesia
Journal of Veterinary Medicine
Kangwon National University, South Korea
Kebun Binatang Surabaya
Lagoi Zoo, Kepulauan Riau, Indonesian
Lombok Wildlife Park
Melaka Zoo
National Jewish Health, U.S.
OIE
Orangutan Conservancy, U.S.
Orangutan Foundation International, Indonesia
Orangutan Foundation-UK
Orangutan Information Centre, Indonesia
Orangutan Veterinary Aid (OVAID), UK
Persatuan Kebun Binatang Se Indonesia
Petting Zoo, Lost World of Tambun
Philadelphia Zoo, U.S.
PowPow Pet Care
PKBSI (Indonesian Zoo Association)
Primate Research Center, IPB University
Princeton University
Pusat Suaka Orangutan (PSO) - ARSARI
Restorasi Habitat Orangutan Indonesia
Rutgers University
Sabah Wildlife Department
San Diego Zoo Wildlife Alliance
Sarawak Forestry Corporation

Satwa gunung bayan lestari
 School of Vocational Study, IPB University
 Seoul National University, South Korea
 Sepilok Orangutan Rehabilitation Centre (SORC), Malaysia
 Sintang Orangutan Center (SOC), Indonesia
 St Louis Zoo, U.S.
 Sumatran Orangutan Conservation Programme (SOCP), Indonesia (YEL)
 Sumatran Rescue Alliance
 Sunway Lagoon Wildlife Park, Malaysia
 Taman Safari Indonesia
 Tasikoki Wildlife Rescue Center, Indonesia
 The Smithsonian Institution, U.S.
 Twycross Zoo
 Universitas Nasional
 Universiti Putra Malaysia
 University of Birmingham, UK.
 University of Liverpool U.K.
 University of Minnesota, U.S.
 Velvet Care
 Wildlife Reserves Singapore
 Wildlife Rescue Centre (WRC) Jogja, Indonesia
 Wildlife Rescue Unit (WRU), Sabah, Malaysia
 Yayasan Jejak Pulang, Indonesia
 Yayasan Kalaweit, Indonesia
 YIARI Ketapang
 York University
 YOSL-OIC
 Zoo Negara Malaysia
 ...and various independent vets working in orangutan range countries

Supporting Organizations:



Orangutan Conservancy, United States

Chester Zoo/NEZS, United Kingdom

Arcus Foundation (US)

Fort Wayne Children's Zoo (US)

The Orangutan Project (TOP) Australia

HOSTED VIRTUALLY ON CANVAS BY:

University of Minnesota, U.S.

Executive Summary

Hello OVAG Community,

In 2021 we have had to hold our annual workshop once again in a virtual setting – and I have to say, we are getting very good at this! Even though we were ‘forced’ to switch to an online virtual format, it has actually been a good thing for us as we are able to reach more people than ever before and have created an online ongoing resource that is proving to be an amazing add on to our face-to-face meetings (which we are hoping to be able to return to in 2022). However, if we can meet in person (in some way or another) we will still be maintaining our virtual presence to continue to reach as many interested members as possible in our growing conservation community.

This year, once again, with the help of Steve Unwin, Fransiska Sulisty, a wonderful and supportive team at University of Minnesota, the rest of the OVAG committee, and an amazing group of speakers, our 2021 OVAG Workshop was able to bring together 139 participants from 12 countries.

As was the case last year, people came in and out of the live sessions (as their work necessitated) but we had many that stayed with us the entire time as well as many more who were able to use and participate in the online Canvas activities. The Canvas site has remained active since last year and we will continue to update and add more resources as we move forward.

This year not only were we able to continue discussions on CoVid issues and other disease concerns, but we also were finally able to devote much needed time to the issue of mental health – something that we all struggle with and is a particular area needing focus amongst the conservation and veterinary fields.

Remember, even though our workshop is only 5 days long – we are active the balance of the 360 days of the year. We will continue to be of service to each other through our Canvas platform and our WhatsApp Group (WAG). The OVAG committee will meet regularly throughout the year to plan upcoming webinars, develop strategies for our own growth and effectiveness, and find ways to keep us all informed.

As always, we wish to thank everyone for participating, contributing to and supporting the important work we all do and in making OVAG 2021 possible!

In solidarity,

Raffaella Commitante, PhD (Cantab)
Steve Unwin, B.Sc., B.V.Sc., Dipl ECZM, MRCVS
Ricko Laino Jaya, drh.
Yenny Saraswat Jayai, drh.
CitraKasih Nente, drh., MVS (Conservation Medicine)
Fransiska Sulisty, drh., MVS (Conservation Medicine)
Sumita Sugnaseelan, DVM (UPM), PhD (Cantab)
Pakeeyaraj Nagalingam, DVM
Nancy Lung, DVM
Soedarmanto Indarjulianto, drh. PhD
and
Gavo (our mascot)

Live Sessions Agenda

OVAG Online Workshop, 26-30 July 2021					
Time	Monday, day 1	Tuesday, day 2	Wednesday, day 3	Thursday, day 4	Friday, day 5
	Ape Husbandry & Rehabilitation	Ape Husbandry & Rehabilitation	Ape Health Management	Case Studies & In-depth Discussion / IUCN SSA Workshop (parallel)	Ape Health Management
08:00 - 08:30	Opening remarks. Ice breaker: "Wear your PPE" Competition	Panel discussion: Ape husbandry & welfare in zoo & rehab centers: learning from each other		A rehabilitated Bornean orangutan with intrauterine fetal demise in BOSF Nyaru Menteng (drh. Lia Kristina, BOSF-NM)	Mental Health for Vets & Conservationist Dr. Steve Unwin & Sabrina Brando
08.30 - 09.00	Communication strategy in Zoos	Panelists: 1. Cindy Cossaboon (Orangutan SSP) 2. Jenny Elston (Fort Worth Zoo) 3. Vanda Tirtayani (Gembira Loka Zoo) 4. drh. Yenny Saraswati Jaya (SOCP / OVAG) 5. Sylvia Alsisto (Sabah Wildlife Department)	Animal Welfare & Pain management in Apes: Lecture and discussion Dr. Sathya Chinnadurai (St. Louis Zoo)	In-depth talk: Stillbirth in apes: diagnosis & management. (Joe Smith (TBC))	
09.00 - 09.30	a. Internal & External Communicatio Strategy from an Indonesian Zoo. b. Internal & External Communication Strategy from a Malaysian Zoo. c. San Diego Zoo Wildlife Alliances: communication strategy on dealing with Covid-19 case in their gorilla troop.			COVID-19 Examination on Orangutan at BOSF Nyaru Menteng	Bacterial Respiratory Disease in Orangutan Dr. Nancy Lung (Orangutan SSP, JZWM, OVAG)
09.30 - 10.00	Moderator: drh. Fransiska Sulisty (OVAG) Dr. drh Ligaya ITA Tumbelaka, MSc (PKBSI, IPB University)	Moderator: Dr. Nancy Lung (Orangutan SSP, JZWM, OVAG)		In-depth talk: Covid-19 Screening in great apes (Dr.drh. S. Indarjulianto)	Melioidosis drh. Agnes Pratamiutami S. (BOSF)
10.00 - 10.30		break	break	FATAL TETANUS INFECTIONS IN TWO BORNEAN ORANGUTANS (Pongo pygmaeus) AFTER THE IMPLANTATION OF REUSED TRANSMITTER (drh. Arga S. Kusuma, BOSF-NM)	Jeopardy / Kahoot Game
10.30 - 11.00	break	Panel Discussion: nutrition management for orangutans in rehabilitation centers	Emergency & Critical Care in orangutans:	In-depth talk: Tetanus in primates: diagnosis and management (Dr. Nancy Lung)	
11.00 - 11.30	Panel Discussion: Human - Orangutan Interaction in Rehabilitation Setting	Panelists: 1. drh. Fransiska Sulisty (OVAG) 2. Dr. Andrea DiGiorgio (Princeton University) 3. Barbara Toddes (Philadelphia Zoo)	Break-out groups discussion on selected topics in primate critical care. Reporting back and large group discussion.	break	A CASE REPORT OF TWO CEREBRAL MALARIA SUSPECTS IN REHABILITATED BORNEAN ORANGUTANS (drh. Fiet H. Pathispatika, BOSF-NM)
11.30 - 12.00	Panelists: 1. drh. Citrakasih M. Nente (SOCP/OVAG) 2. Enclosure Design Tool (EDT) Team, University of Birmingham 3. Jenny Elston (Fort Worth Zoo) 4. Sabrina Brando (PASA / Univ. of Stirling)	Moderator: Dr. Sumita Sugnaseelan (UPM / OVAG) & drh. Yenny Jaya (SOCP/OVAG)	Moderator: Dr. Nancy Lung (Orangutan SSP, JZWM, OVAG) drh. Fransiska Sulisty (OVAG)	In-depth talk: malaria in orangutans (Dr. Sumita Sugnaseelan)	
12.00 - 12.30				LEARNING TO BE AN ORANGUTAN - IMPLICATIONS OF LIFE HISTORY FOR ORANGUTAN REHABILITATION (Siti Nur Badriyah) Supplementary talk: Orangutan Rehabilitation (Dr. Steve Unwin)	closing
12.30 - 13.00	Moderator: Dr. Steve Unwin (Univ. of Birmingham / OVAG)	break	break	break	
13.00 - 13.30	break	Human -Orangutan Rescue & Translocation during Covid-19 Pandemi 1. A case study from one orangutan rehabilitation center 2. Break out group discussion on field operations during the Covid-19 Pandemi.	Pandemi Q&A: 1. Discussing questions about Covid-19 and other pandemi / emerging diseases from participants 2. Discussion on how to stop the next pandemi		OVAG Committee Strategic Meeting
13.30 - 14.00	Mental Health for Vets & Conservationist: Introduction Dr. Steve Unwin & Sabrina Brando	Moderator: drh. Ricko Jaya (OIC / OVAG) drh. Pakeeyaraj Nagalingam (Sunway Lagoon Park/ OVAG)	Facilitator: drh. Citrakasih M. Nente (SOCP/OVAG)	Closing discussion: Problem Oriented Approach & Ethical Decision Making: Dr. Steve Unwin (Univ. of Birmingham / OVAG)	

ALL SESSIONS WERE RECORDED AND UPLOADED ONTO THE OVAG 2021 MODULE, CANVAS PLATFORM
UNIVERSITY OF MINNESOTA

Materials Covered in OVAG Workshop 2021:

1. Communication Strategies in Southeast Asian Zoos
2. Panel: Human – Orangutan Interaction
3. Mental Health Discussion
4. Panel: Ape Husbandry and Welfare
5. Panel: Nutrition management
6. Rescue and Translocation (Sars CoV 2 Pandemic)
7. Animal Welfare and Pain Management
8. Emergency Medicine and Critical Care
9. Pandemic Q & A
10. Case Studies
11. Problem Oriented Approach & Ethical Decision Making
12. Bacterial Respiratory Disease
13. Melioidosis
14. Strategies Moving Forward

The OVAG community also continues to contribute to a Canvas site which features a separate information package on non-human primate CoVid-19

Frequently Asked Questions / In-Depth Technical Information / Curated Resources / IUCN COVID19 Guidance / Materials provided by:



OVAG 2021 Analysis:

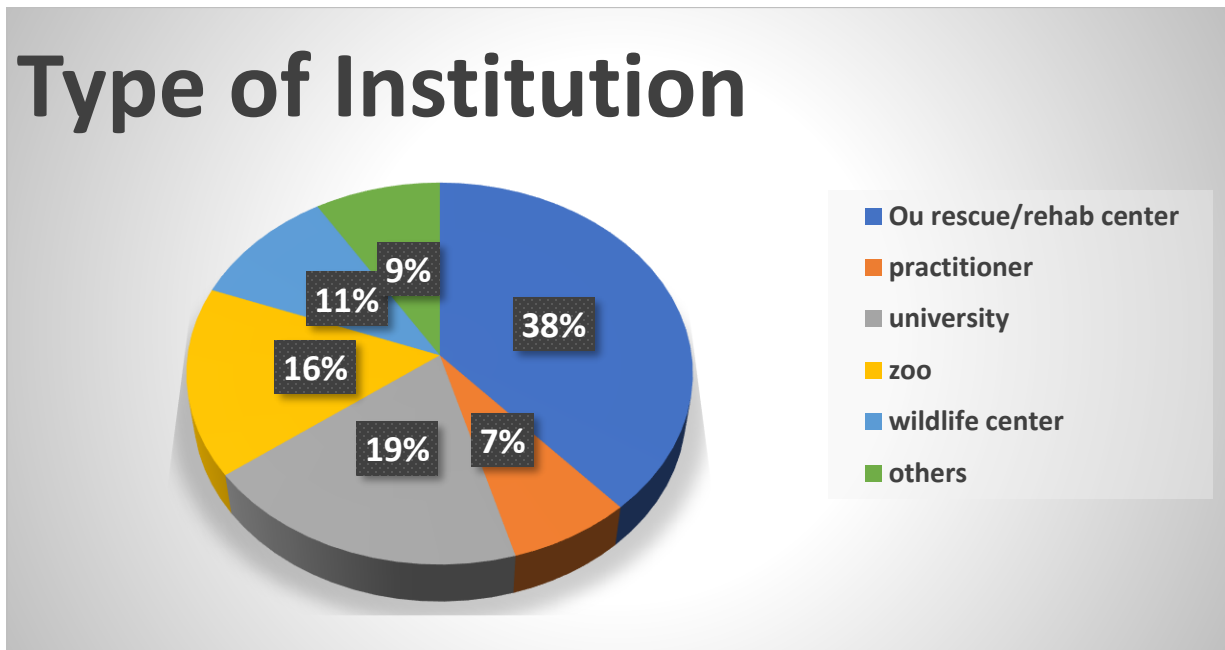
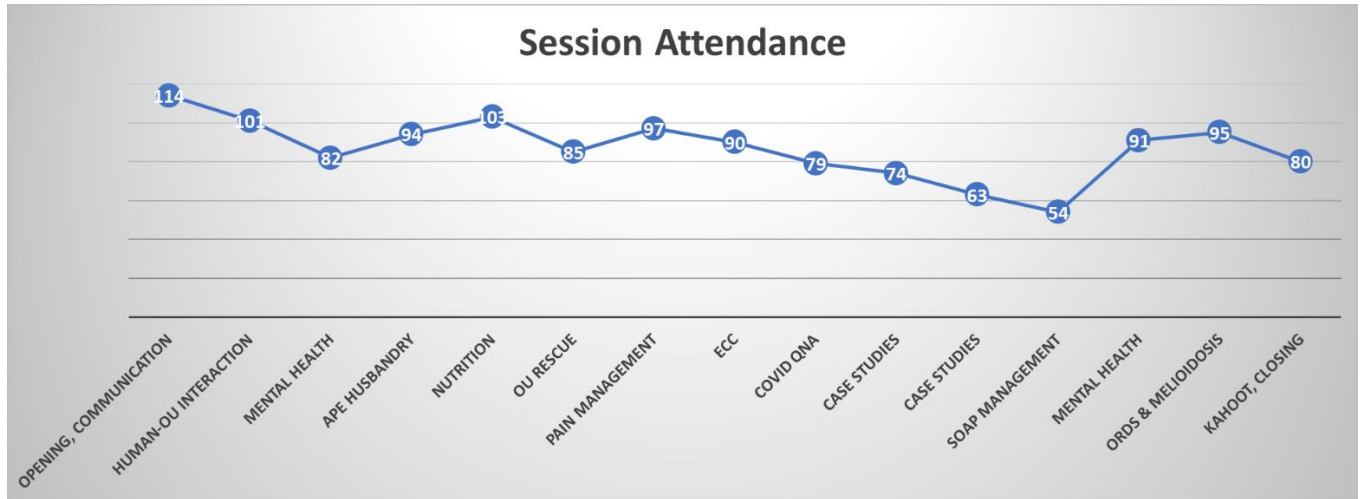
In total 139 people registered for the OVAG 2021 Virtual Workshop (daily attendance varied).

The 12 Countries represented: Australia, India, Indonesia, Japan, Malaysia, Singapore, South Korea, Spain, Thailand, United Kingdom, United States and Zambia.

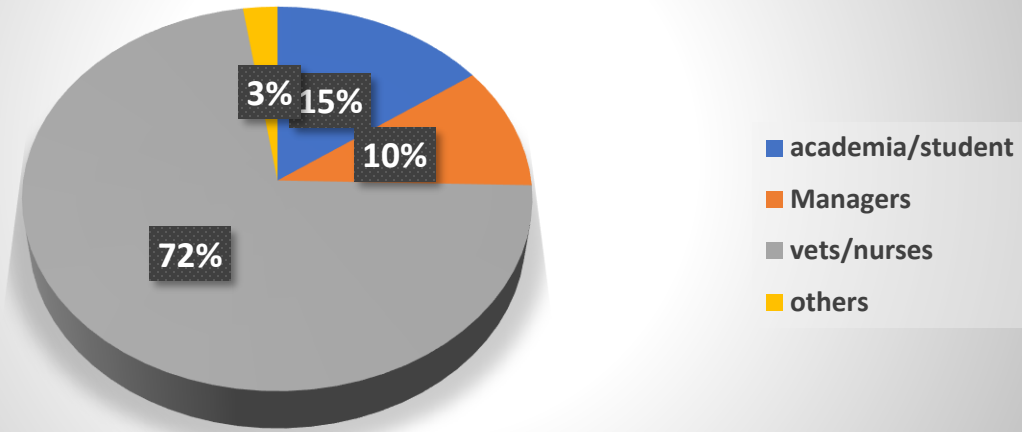
Total Number of Active Participants: 97

Of the 97 active participants, 73 people (75%) attended at least 3 days of the workshop, and over 50% attended the whole five days of the workshop, suggesting a high interest for the entire workshop.

	Monday, 26 th July	Tuesday, 27 th July	Wednesday, 28 th July	Thursday, 29 th July	Friday, 30 th July
Number of attendants daily	99	94	89	64	89



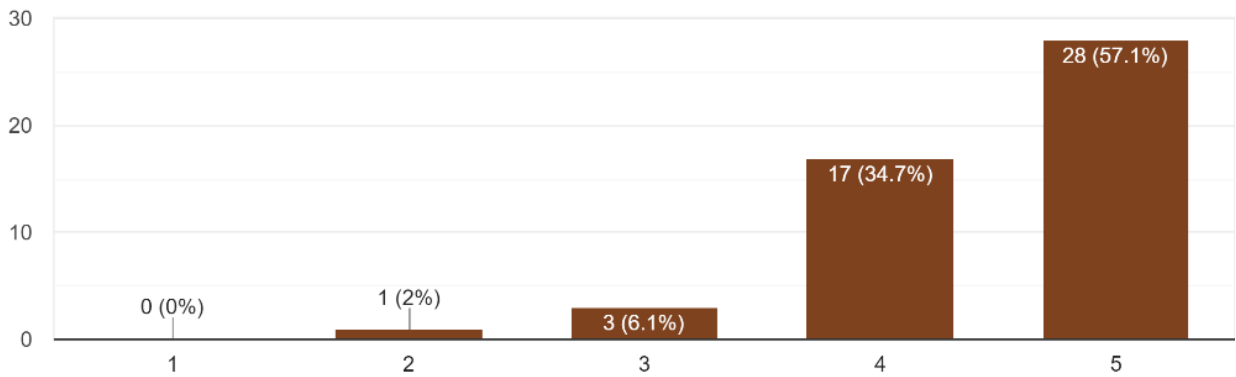
Professional Background



Participant Comments:

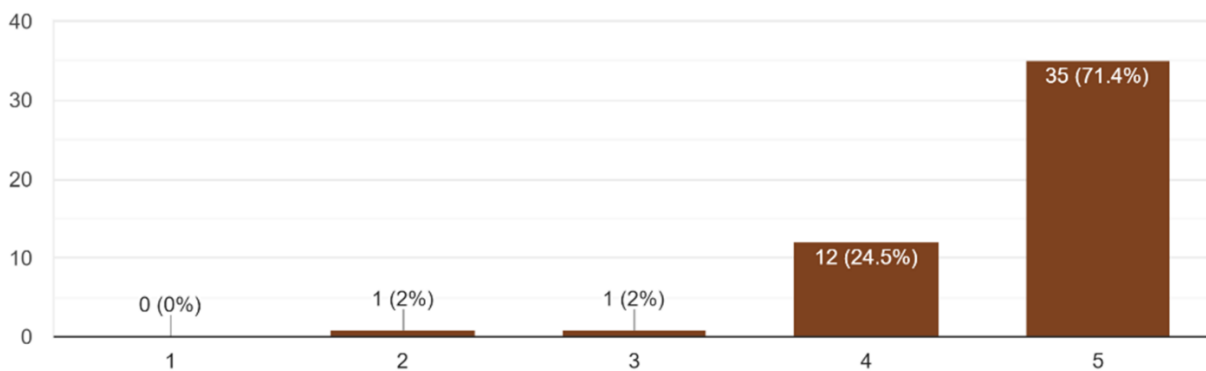
New Ideas: Did I gain new ideas that will improve the way I do my job?

49 responses



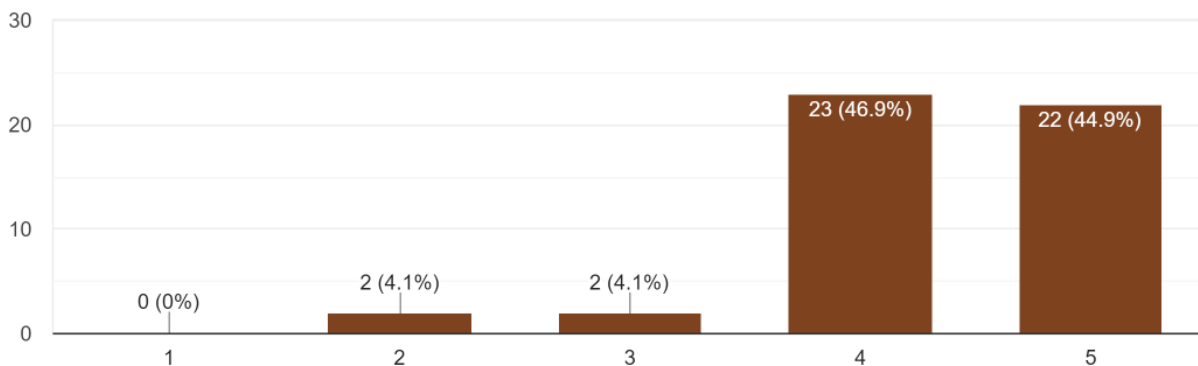
New Knowledge: Did I gain useful knowledge?

49 responses



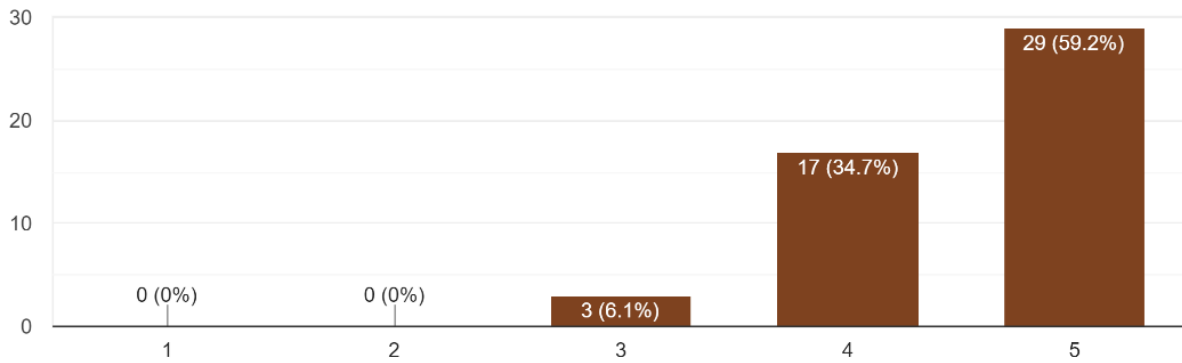
Applying the learning: Will I use the information?

49 responses



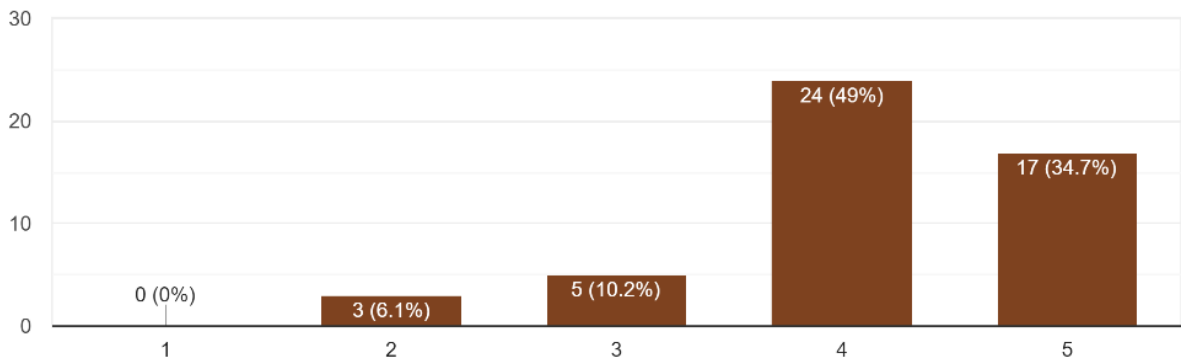
Effect on results: Do I think the ideas and information provided at this workshop will improve the way I do my job?

49 responses



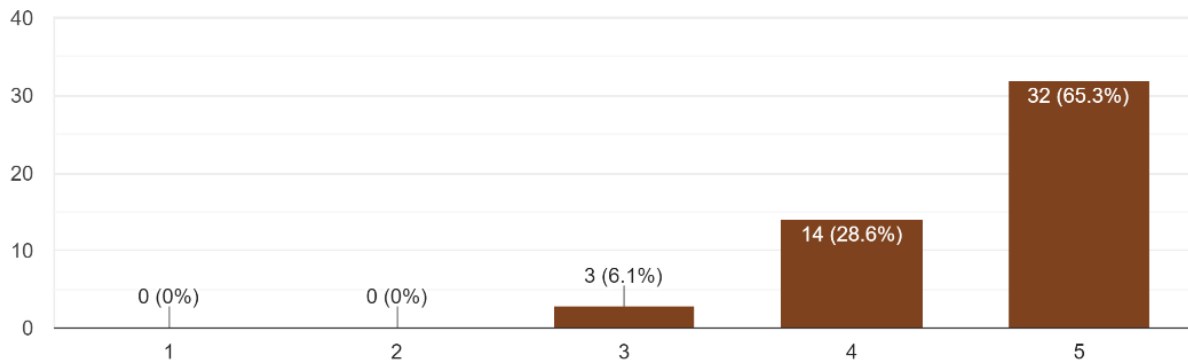
Applying the learning: Have I been shown how to impart this knowledge to colleagues and managers?

49 responses



Effect on results: Do I think the ideas and information provided at this workshop will improve the health of the animals under my care?

49 responses



Favorite Aspects of 2021 Workshop:

- Discussion: panel discussion delivers better message without the exhaustion of listening to didactic lecture, break outs provide chance for everyone to speak up, in general there is an active discussion among participants
- mental health
- case studies
- sharing expert thoughts, consultation
- networking
- infectious diseases
- pain management

Things to Improve upon:

- Break out room (technical, more time)
- case study (more cases, more time, speakers better prepared)
- Request for OVAG to create a SOP for orangutan
- How to balance time between working and trying to attend all 5 days

Suggested Topics for 2022:

Emergency & Critical Care
SARS-CoV-2
Animal behavior and animal welfare
Radio imaging
Herbal medicine / Traditional Chinese Medicine
Communication
More Dentistry
More Nutrition

Anesthesia
Fluid therapy
AMR
Reproduction
Necropsy
Malaria
More pain management
Wound management
Vaccination

OVAG 2022: Our hope is that we will all be safe to travel and will be in person in Indonesia or Malaysia for this next workshop tentatively scheduled for mid July.

Thank you!!!!