



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. Sumita, 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, as well as material from previous workshops and webinars, can be found at

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

in collaboration with the

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

This platform will be updated throughout the year and beyond with new exciting continuing professional development material. We are also increasing our digital links via this Canvas site with our African and Asian Ape colleagues around the world *via* PASA, CPTH, Gorilla Doctors, EAZA and AZA.

www.ovag.org

Participating Organizations/Groups:

A'Famosa Safari Wonderland, Malaysia
AnimalConcepts
Animal Sanctuary Trust Indonesia
Appalachian State University
Asliqewan , Indonesia
Balai Konservasi Sumber Daya Alam Kalimantan Timur
Biological Park Itanagar
Borneo Orangutan Survival Foundation (BOSF)

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 Section on Small Apes
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.
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
York University
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 Sulistyo, 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-19 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, SFHEA, DECZM, MRCVS
Fransiska Sulistyo, drh, MVS (Conservation Medicine)
Yenny Saraswat Jaya, drh.
Citrakasih Nente, drh., MVS (Conservation Medicine)
Ricko Layno Jaya, drh
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. Symphorosa Sipangkui (Sabah Wildlife Department)	Welfare & Pain management in orangutans: Lecture and discussion Dr. Sathya Chinnadurai (St. Louis Zoo)	In-depth talk: Stillbirth in apes: diagnosis & management. (Dr. Joe Smith, Fort Worth's Children Zoo)	
09:00 - 09:30	Panelists: 1. drh. Glen Kartiko (Surabaya Zoo) 2. Bethan Morgan, Lauren Howard, & Lianne Hedditch (San Diego Zoo Wildlife Alliance)	Moderator: Nancy Lung (Orangutan SSP, Journal of Zoo & Wildlife Medicine / OVAG). Dr. Sumita Sugnaseelan, (UPM / OVAG)		Fatal tetanus infections in two Bornean orangutans (<i>Pongo pygmaeus</i>) after the implantation of reused transmitter (drh. Arga S. Kusuma, BOSF-NM)	Bacterial Respiratory Disease in Orangutan (Dr. Jennifer Taylor-Cousar, NJH)
09:30 - 10:00	Moderator: drh. Fransiska Sulisty (OVAG) Dr. drh Ligaya ITA Tumbelaka, MSc (PKBSI, IPB University)				Melioidosis drh. Agnes Pratamiutami S. (BOSF-SL)
10:00 - 10:30		break	break	break	
10:30 - 11:00	break	Panel Discussion: nutrition management for orangutans in rehabilitation centers	Emergency & Critical Care in orangutans:	COVID-19 Examination on orangutan at BOSF Nyaru Menteng (drh. Gregg, BOSF-NM)	Jeopardy / Kahoot Game
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 group discussion (1 hour) discussing selected topics on primate critical care. Reporting back and whole group discussion	A case report of two cerebral malaria suspects in rehabilitated bornean orangutans (drh. Fiet H. Pathispatika, BOSF-NM)	closing
11:30 - 12:00	Panelists: 1. drh. Citrakasih M. Nente (SOCP/OVAG) 2. Enclosure Design Tool (EDT) Team, University of Birmingham 3. Sabrina Brando (PASA / Univ. of Stirling)	Moderator: drh. Yenny Jaya (SOCP/OVAG) Dr. Sumita Sugnaseelan (UPM / OVAG)	Moderator: drh. Fransiska (OVAG) & Dr. Nancy Lung (Ou SSP, JZWM, OVAG).	Learning to be an orangutan - implications of life history for orangutan rehabilitation (Siti Nur Badriyah, YJP)	
12:00 - 12:30					
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	Pandemi Q&A:		
13:30 - 14:00	Mental Health for Vets & Conservationist: Introduction Dr. Steve Unwin & Sabrina Brando	1. A case study from one orangutan rehabilitation center (Nabila Sarkawi, SORC) 2. Break out group discussion on field operations during the Covid-19 Pandemi. Moderator: drh. Ricko Jaya (OIC / OVAG) & drh. Pakeeyaraj (Sunway Lagoon Park / OVAG)	1. Discussing questions about COVID-19 and other pandemi / emerging diseases from participants 2. Discussion on how to stop the next pandemi Facilitator: drh. Citrakasih (SOCP/OVAG)	Problem Oriented Approach & Ethical Decision Making in Clinical Settings: Dr. Steve Unwin	

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

Materials Covered in the OVAG Workshop 2021 and through the year:

1. Panel discussion: Communication Strategies in Southeast Asian Zoos
2. Panel discussion: Human – Orangutan Interaction.
3. Practitioner Mental Health Discussion. Join the conversation: and follow the material
4. Panel discussion: Ape Husbandry and Welfare
5. Panel discussion: Nutrition management
6. Focus Group Discussion: Rescue and Translocation (in the face of the SARS-CoV-2 Pandemic). Forthcoming paper. and follow the material
7. Lecture: Animal Welfare and Pain Management
8. Group Discussion: Emergency Medicine and Critical Care
9. General Discussion: Pandemic Q & A
10. Participants presentations: Case Studies
11. Lecture: Problem Oriented Approach & Ethical Decision Making
12. Lecture: Bacterial Respiratory Disease
13. Lecture: Melioidosis

Beyond the workshop

14. Webinars (COVID-19 testing and the Enclosure Design Tool)
15. Pan African Sanctuary Alliance (PASA) link – Initial module (first of 5) on: All hazard disaster preparedness and response
16. Ultrasonic investigation of the ape reproductive system
17. OVAG network strategic planning for 2022-2027
18. Multiple Whatsapp groups to keep the community alive

OVAG strategy into the future: WE NEED YOUR HELP.

Back in 2017 we went through this process together. Just like risk analysis this is an iterative process, and what we did in 2017 was designed to take us to 2022. Who would have thought we are there again!

SO, WE NEED YOUR HELP - both to make sure OVAG is focused on the participants - so YOU guys, and to allow us to evaluate our impact and prove to supporters that we are 'doin' good'.

Where are we now? Theory of change involves backward mapping, so in 2017 we started with a 20-year impact statement. This is like an organizations vision in that it is aspirational, but should also be achievable in collaboration with others:

Successful integration of One Health programmes into conservation efforts leading to successful disease mitigation in wild populations and linked public health and environmental disease issues with a proven contribution to the protection of SE Asian wildlife, habitat and human health that can be used as a model for other regions

We then all decided on a phase outcome (2017 - 2022). This is like an organizations mission; in that it should be achievable and measurable for impact:

There exists a sustainable regional cadre of professionals able to provide capacity building, advice, guidance, and management of One Health matters with wildlife in Indonesia and Malaysia

We then looked at pathways to make that phase outcome a reality. In 2017 these were:

Capacity building

Policy

Research

Advocacy

These were expanded on, and linked to assumptions made and indicators into our full ToC pathway map (available on the canvas page) then flowed to guide us to this outcome

So please do get in touch with your ideas, so we can discuss them and integrate them in 2022!

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

<https://umnadvet.instructure.com/courses/324>

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



OVAG 2021 Workshop Analysis:

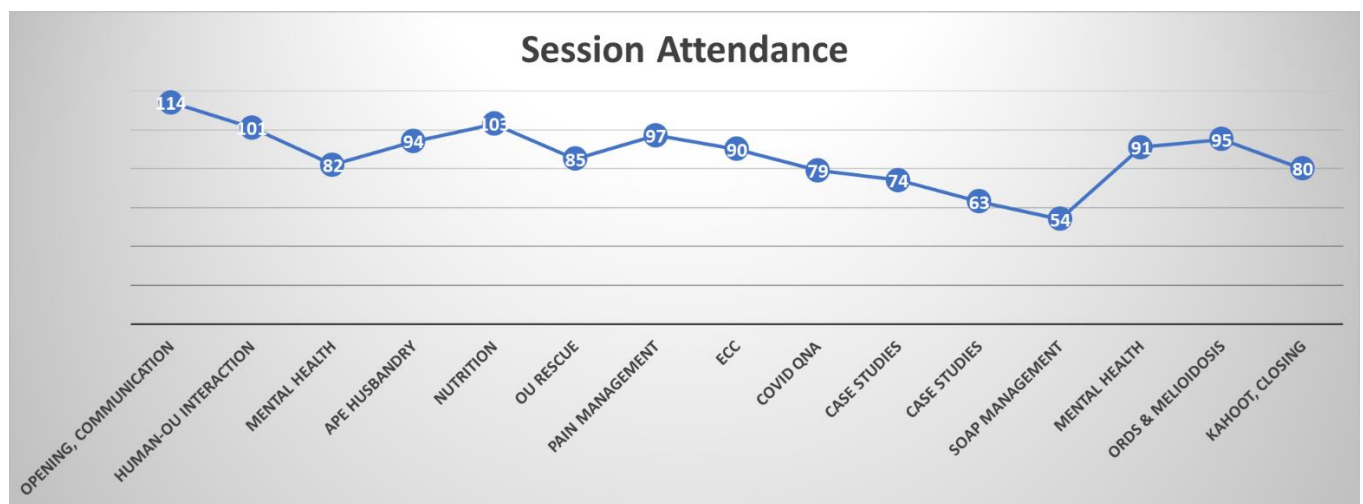
In total 139 people registered for the OVAG 2021 Virtual Workshop (daily attendance varied).

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

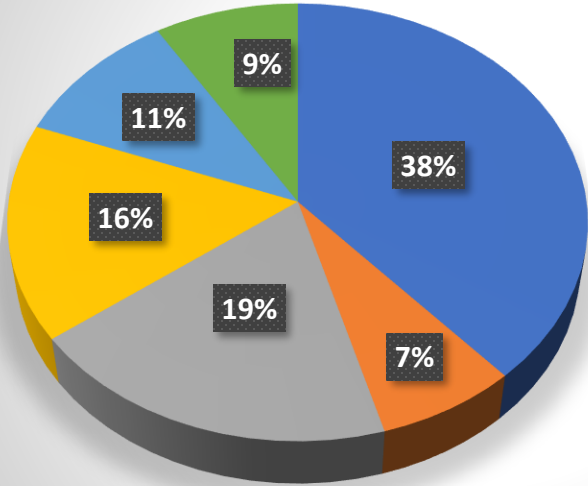
Total Number of Attending Participants: 114

Of the total attending participants, 86 people (75%) attended at least 3 days of the workshop, and over 50% attended the all 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

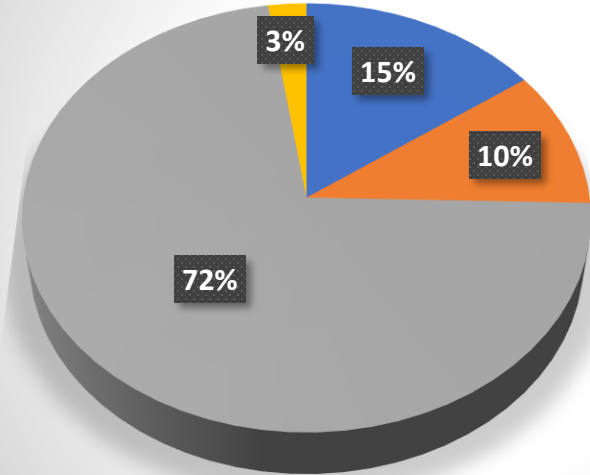


Type of Institution



- Ou rescue/rehab center
- practitioner
- university
- zoo
- wildlife center
- others

Professional Background

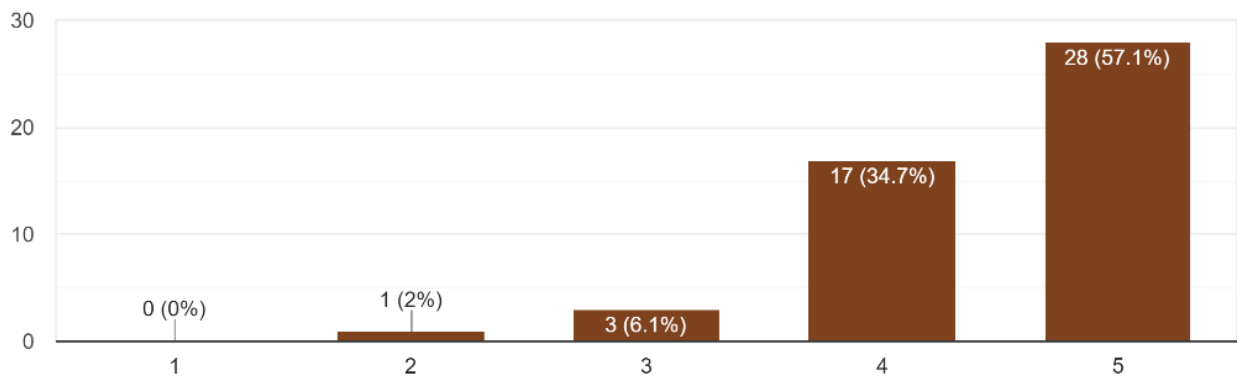


- academia/student
- Managers
- vets/nurses
- others

Participant Comments:

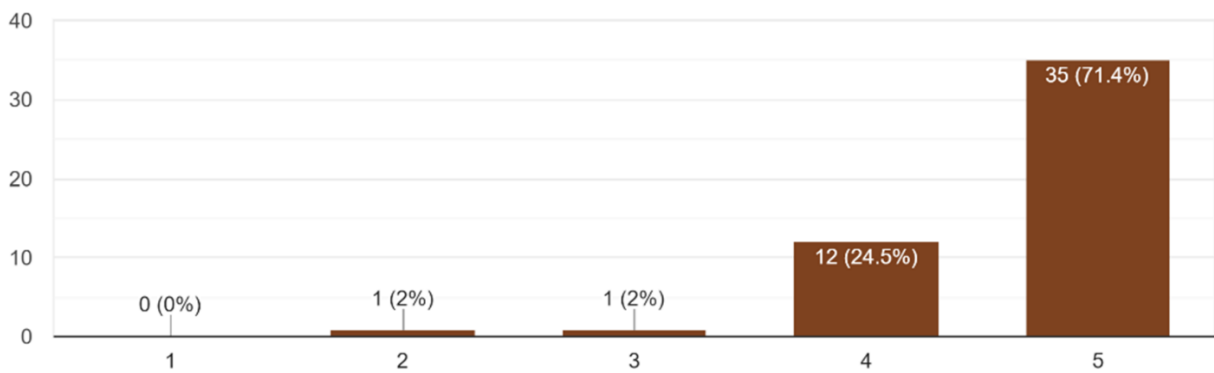
New Ideas: Did I gain new ideas that will improve the way I do my job?

49 responses



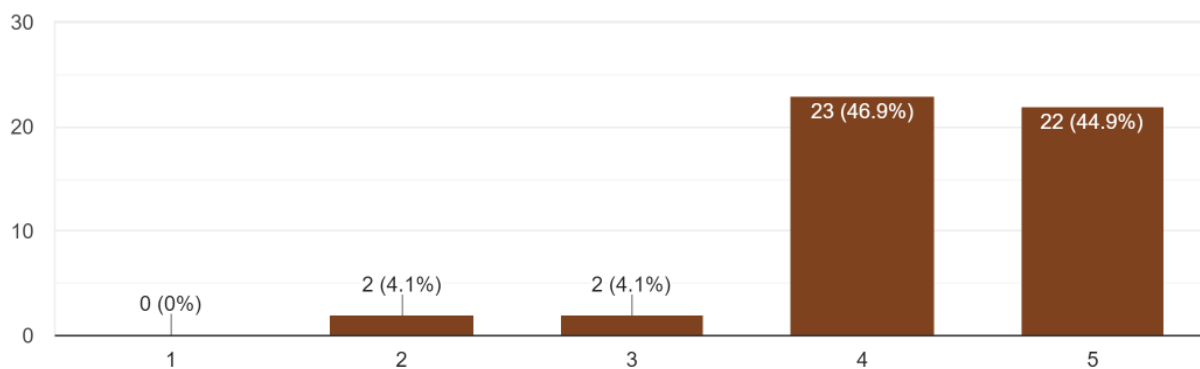
New Knowledge: Did I gain useful knowledge?

49 responses



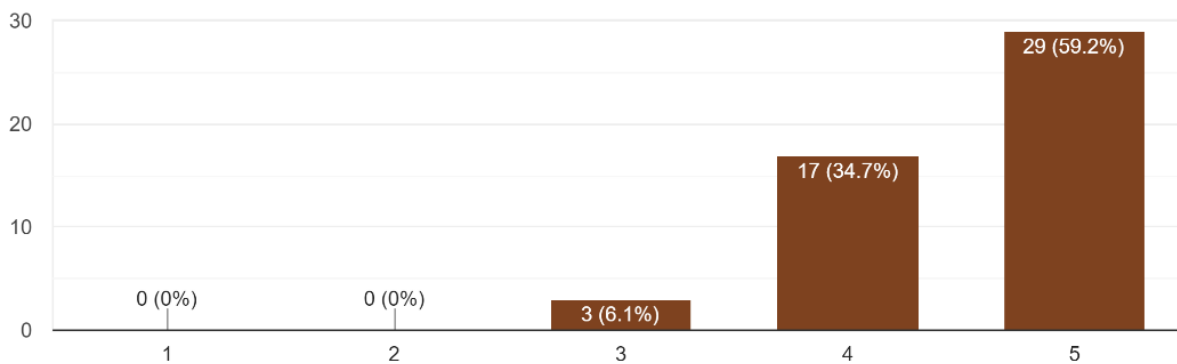
Applying the learning: Will I use the information?

49 responses



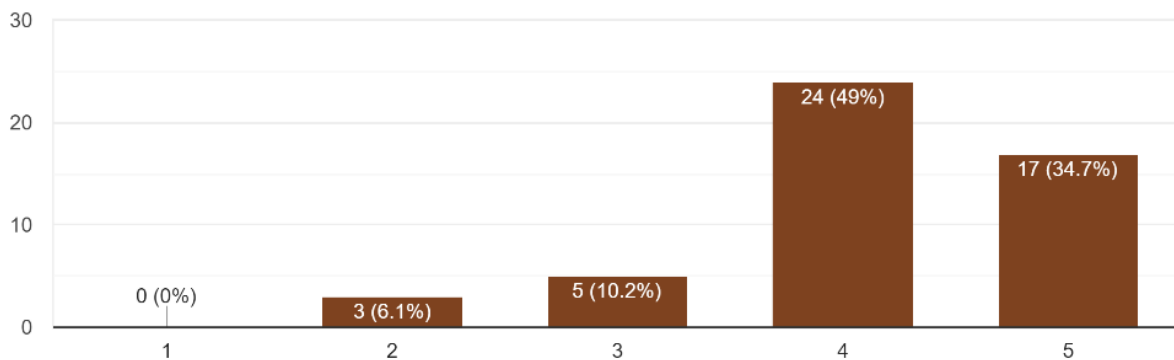
Effect on results: Do I think the ideas and information provided at this workshop will improve the way I do my job?

49 responses



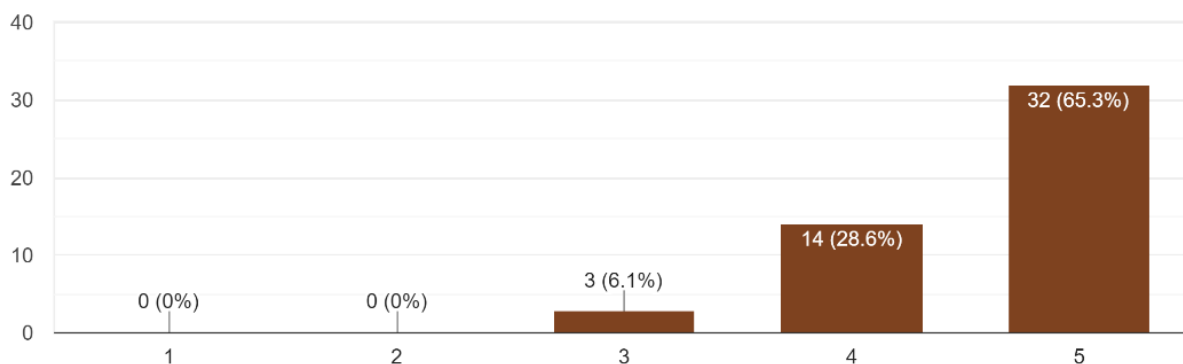
Applying the learning: Have I been shown how to impart this knowledge to colleagues and managers?

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 relevant publications and activities (including conference presentations, official externa reports etc) by OVAG network participants (in bold) 2020-21

Unwin S, Commitante R, Moss A, Bridges E, Farmer KH, Jaya RL, Saraswati YS, Nente C, Soedarmanto I, Sulistyo F, Sugnaseelan S. Evaluating the contribution of a wildlife health capacity building program on orangutan conservation. *Am J Primatol.* 2021 May 21:e23273. doi: 10.1002/ajp.23273. Epub ahead of print. PMID: 34018623.

Sherman J, **Unwin S**, Travis DA, **Oram F**, Wich SA, **Jaya RL**, Voigt M,, Santika T, Massingham E, James D, Seaman I,, Meijaard E,, **Ancrenaz M** 2021. Disease risk and conservation implications of orangutan translocations *Front. Vet. Sci* DOI: 10.3389/fvets.2021.749547

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!!!!