

Orangutan Veterinary Advisory Group VIRTUAL

Workshop 2020





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

Orangutan Veterinary Advisory Group VIRTUAL Workshop 2020

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 2020 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

American Association of Zoo Veterinarians (AAZV)

Agency for Conservation of Natural (BKSDA) Resources (West and East Kalimantan) Indonesia

Asliqewan, Indonesia

Borneo Orangutan Survival Foundation (BOSF) Indonesia

Borneo Rhino alliance

Central Zoo Authority India

Centre for Orangutan Protection (COP) Indonesia

Chester Zoo, UK

Chimfunshi Wildlife Orphanage Trust, Zambia

Chulalongkorn University, Thailand

Cikananga Wildlife Center, Java, Indonesia

Fort Worth Zoo, US

Four Paws, Austria

Frankfurt Zoological Society, Sumatera, Indonesia

Faculty of Veterinary Medicine Gadjah Mada University, Indonesia

Faculty of Veterinary Medicine, Universitas Nusa Cendana, Indonesia

Gembira Loka Zoo, Indonesia

Hutan, Malaysia

IPB (Insitiut Pertanian Bogor) Indonesia

International Animal Rescue Indonesia (IAR) Indonesia

Javan Gibbon Center, Indonesia

Journal of Veterinary Medicine

Yayasan Jejak Pulang, Indonesia

Kangwon National University, South Korea

National Jewish Health, U.S.

Orangutan Conservancy, U.S.

Orangutan Foundation International, Indonesia

Orangutan Information Centre, Indonesia

Orang Juga, U.S.

Orangutan Veterinary Aid (OVAID), UK

Pan African Sanctuary Alliance (PASA), USA

Philadelphia Zoo, U.S.

PKBSI (Indonesian Zoo Association)

PONGO Alliance, UK

Royal Veterinary College, UK

Seoul National University, South Korea

Sepilok Orangutan Rehabilitation Centre (SORC), Malaysia

Singapore Zoological Garden, Singapore

Sintang Orangutan Center (SOC), Indonesia

St Louis Zoo, U.S.

Sumatran Orangutan Conservation Programme (SOCP), Indonesia

Sunway Lagoon Wildlife Park, Malaysia

Tasikoki Wildlife Rescue Center, Indonesia

The Smithsonian Institution, U.S.

Universiti Putra Malaysia

University of Birmingham, UK.

University of Minnesota, U.S.

VESSWIC

Wildlife Impact Wildlife Rescue Centre (WRC) Jogja, Indonesia Wildlife Rescue Unit (WRU), Sabah, Malaysia World Wildlife Fund -Indonesia Yayasan Kalaweit, Indonesia

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 friends.

Well, this year has certainly been different! Just like the rest of the world, we here at OVAG have had to try to make the best of a very bad situation. Who would have thought, last year, that this year, 2020, we would be dealing with a worldwide pandemic! At many past OVAG workshops we have discussed 'what if' scenarios for disease outbreaks – and here we are truly in one. Wow! Well, at least we were somewhat prepared.

Also like the rest of the world we have had to continue with our work in a virtual space. This year for the first time ever, OVAG went virtual! With the help of our co-founder Steve Unwin, our Indonesian representative Fransiska Sulistyo, and an amazing team at University of Minnesota, our OVAG Workshop 2020 was able to transition to an online platform (via Canvas hosted by University of Minnesota) and a five-day real-time workshop using Zoom.

The extensive and exhaustive online materials were made available in the Canvas OVAG 2020 platform to every person who had ever attended an OVAG workshop (since 2009) as well as many others. The live Zoom sessions had 97 participants, spanned multiple time zones, across TEN different countries. It was quite amazing! People logged into the live sessions from shared laptops and cell phones, from cozy apartments and homes to offices to zoos to sanctuaries to forests!

Our work continued virtually with a Dec 1, 2020 CoVid 19 Webinar facilitated by drh. Fransiska Sulistyo and assisted by the rest of OVAG committee. This 2 ½ -hour webinar covered a thorough review of testing capability and accuracy as well as some helpful tips and an example of protocols provided by drh. Citrakasih Nente and drh. Yenny Saraswati Jaya of Sumatran Orangutan Conservation Program. The session was followed by a lively Q & A session and was attended by 44 people including field vets, testing laboratories, academia, project managers and government personnel.

Our canvas platform as well as our OVAG Whatsapp group remains active and is providing much needed communication and assistance between participants on a daily basis. The OVAG committee continues to meet weekly to review any new developments and to continue reaching out to new partnerships in our ongoing efforts to build a more inclusive and extensive network.

We wish to thank everyone for the huge effort made in making OVAG 2020 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 Sulistyo, drh., MVS (Conservation Medicine)
Sumita Sugnaseelan, DVM (UPM), PhD (Cantab)
Pakeeyaraj Nagalingam, DVM
Nancy Lung, DVM
Soedarmanto Indarjulianto, drh. PhD
and
Gavo (our mascot)

Budget (U.S. Dollar)

| Indonesian expenses 2019-2020\$ | 200.00 (miscellaneous) |
|--------------------------------------|------------------------|
| Indonesian Representative Retainer\$ | 5,000.00 |
| Steve Unwin Retainer (Chester Zoo)\$ | 6,552.67 |
| | |
| TOTAL\$ | 11,752.67 |



Live Sessions Agenda

| A A | OVAG Live Sessions, 6-10 July 2020 | | | | |
|---------------|---|---|---|---|--|
| | Monday, 6 July 2020 | Tuesday, 7 July 2020 | Wednesday, 8 July 2020 | Thursday, 9 July 2020 | Friday, 10 July 2020 |
| Time | Biosecurity for air borne pathogen management | OVAG Research Projects | Orangutan Clinical & Husbandry | Case Study Presentations (Moderated by Dr. Sumita Sugnaseelan & Dr. Indarjulianto) | Extended Discussion and Interactive Quizz |
| 08:00 - 08:30 | Welcoming Session OVAG Committee | | | Case 1. OCTAGO NAL SHAPED ORANGUTAN SOCIALISATION CAGE (drh. Jati Waluyo) | Continued discussion on Biosecurity for air borne pathogen management |
| 08.30 - 09.00 | Epidemiology of Airborne Pathogen | Enclosure Design Tool (EDT): Refining EDT as A Pre- and Post- Release Assessment Tool: Dr. Susannah Thorpe & EDT Team, University of Birmingham Moderator: Ricko | Anesthesia in Great Apes: Dr. Nancy Lung & Dr. Sathya Chinnadurai Moderator: Pakee | Case 2. COMPARTMENT SYNDROME IN AN ADULT ORANGUTAN AT BORNEO ORANGUTAN SURVIVAL FOUNDATION (drh. Arga Sawung Kusuma) | Continued discussion on OVAG Research Projects |
| 09.00 - 09.30 | Outbreak: Dr Marie McIntyre & Dr. George Omondi Paul Moderator: Ricko | | | Case 3. Bone Surgery Treatment and Post-Operative Maganement of an Adult Bornean Orangutan (drh. Agus Fahroni) | Continued discussion on Orangutan Clinical & Husbandry |
| 09.30 - 10.00 | Wode and Andrew | | | Case 4. COMPLETE BLOOD CHECK RESULT OF EIGHT INDIVIDUALS OF MACACA NIGRA IN ONE SOCIALIZATION GROUP (drh. Annisa Rahmawati) | |
| 10.00 - 10.30 | SARS-CoV-2 (CoVid19) in human | Tb surveillance & diagnostic updates in Asia & Africa: Dr. Steve Unvin,Dr. George Omondi, drh Siska Sulistyo Moderator: Citra | Dentistry: basic diagnostic & importance of dental management for great apes reintroduction programs: Dr. Bonnie Bloom Moderator: Siska | Case 5. A CASE REPORT OF TWO FATAL CHROMOBACTERIUM VIOLACEUM INFECTIONS IN REHABILITATED BORNEAN ORANGUTANS (PONGO PYGMAEUS) (drh. Greggy Poetra) | Online trivia quizz with OVAG Committee |
| 10.30 - 11.00 | population & non human implications: Dr. Jennifer Taylor-Cousar Moderator: Pakee | | | Case 6.INTESTINAL DASTRUCTION DUE TO MULTIPLE INTESTINAL BANDS IN AN INFANT BORNEAN ORANGUTAN (drh. Vivi Dwi Santi) | |
| 11.00 - 11.30 | | | | Case 7. Orangutan Conservation In An Increasingly Fragmented World (Dr. Marc Ancrenaz & Julie Sherman) | Workshop evaluation & feedback form |
| 11.30 - 12.00 | Developing a contingency plan for your | | Nutrition for Orangutans in Captivity: milk replacer for infants Barbara Toddes Moderator: Yenny | replacer for infants Barbara Toddes Moderator: Vanny | Total of Colonia Colon |
| 12.00 - 12.30 | facility to manage a respiratory disease outbreak and staff roles in that biosecurity plan : Dr. Steve Unwin | Microbiome in Orangutans: drh. Yenny Jaya M oderator: Siska | | COVID-19: Recommendation & Best Practices from OVAG Community (Moderator: Dr. Steve Unwin & Dr. Raffa ella Commitante) | Clasing |
| 12.30 - 13.00 | Moderator: Citra | | | | |
| 13.00 - 13.30 | Molecular Detection and Identification of Pathogens: | Research Collaboration: Molecular Screening of Orangutan Parasites: | | | |
| 13.30 - 14.00 | Dr. Reuben Sharma Moderator: Yenny | Dr. Reuben Sharma | | | |

ALL SESSIONS WERE RECORDED AND UPLOADED ONTO THE OVAG 2020 MODULE, CANVAS PLATFORM
AT UNIVERSITY OF MINNESOTA

Materials Covered in OVAG Workshop 2020:

1. Epidemiology

Discussion about epidemiology of airborne pathogens, including SARS-CoV-2. Materials provided by Dr Marie McIntyre from the University of Liverpool, UK.

2. Biosecurity

Discussion about the concept and measures of biosecurity in animal sanctuaries/zoos setting, mostly focused on SARS-CoV-2. Materials provided by Dr Steve Unwin from OVAG and University of Birmingham, UK.

3. SARS CoV-2 and COVID-19 Discussion

Everything about the current global pandemic, introduction of the Nonhuman Primate COVID-19 Information Hub on Canvas website https://umnadvet.instructure.com/courses/324, as well as discussion on what can be done by the OVAG community, finalization of OVAG Specific COVID-19 Guidance. Monitored by Dr Steve Unwin, Fransiska Sulistyo (OVAG), and George Omondi (University of Minnesota).

4. SARS-CoV-2 in Humans

Discussion about the most recent knowledge about the clinical signs, treatment, and epidemiology of COVID-19 in human in the US population. Material provided by Dr Jennifer Taylor-Cousar from National Jewish Health, US.

5. Molecular Diagnostics

A refresher lecture about the basic of molecular diagnostics, what can and can't be done in a field situation. Material provided by Dr Reuben Sharma from Universiti Putra Malaysia.

6. Enclosure Design Tool

A continuation from last year's topic, this year the EDT team has moved to a research project, investigating at the use of the EDT protocol as a pre- and post- release assessment in orangutan reintroduction. Materials provided by Dr Susannah Thorpe and Dr Jackie Chappell from University of Birmingham, UK.

7. Tuberculosis in Great Apes: Investigations and Update from Africa and Asia

Discussion about the current issues and challenges in the diagnostic of Tuberculosis in great apes. A new surveillance project is about to start within the PASA community in Africa. Monitored by Siska Sulistyo and George Omondi.

8. Orangutan Microbiome

A short refresher about microbiome and sharing of results from a pilot project investigating microbiome in an orangutan captive population. Materials provided by Yenny Saraswati Jaya from Sumatran Orangutan Conservation Programme (SOCP), Indonesia.

9. Anesthesia in Great Apes

A back-to-basic and comprehensive lecture about anesthesia and discussion about specific anesthesia in great apes. Materials provided by Dr. Sathya Chinnadurai from St. Louis Zoo, US.

10. Dentistry

A back-to-basic and comprehensive lecture about veterinary dentistry and discussion about specific dental problems / procedures in great apes. Material provided by Dr Bonnie Bloom, Texas A&M Baylor College of Dentistry, US.

11. Nutrition

Discussion about designing a milk replacer formula for orphaned orangutan in sanctuaries. Materials provided by Barbara Toddes, Philadelphia Zoo, US>

12. Case Studies

During this session, seven talks about medical cases and conservation issues in orangutans and other primates were presented by participants from Sintang Orangutan Center (SOC), Borneo Orangutan Survival Foundation (BOSF), and Tasikoki Wildlife Rescue Center, and Hutan/Wildlife Impact.

13. Zoos as Conservation Partners

Discussion about the role of modern zoos in conservation. Materials provided by Hannah Khwaja from Chester Zoo, UK.

The OVAG community also contributed to another 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:















Live Sessions Participants:

| No | Country | | |
|----|---------------------------------|-------------------------------|--|
| 1 | Jogkjakarta Indonesia | Fransiska Sulistyo | OVAG, Smithsonian |
| 2 | UK (Chester) | Steve Unwin | University of Birmingham, UK., OVAG, Chester Zoo |
| 3 | Indonesia (Medan) | Yenny Saraswati Jaya | Sumatran Orangutan Conservation Programme, OVAG |
| 4 | Indonesia (Sumatera | Ricko Jaya | University of Birmingham, UK., OVAG |
| 5 | Indonesia (Sumatera | Citrakasih Nente | Sumatran Orangutan Conservation Programme - Jantho |
| 6 | Indonesia (Jogkja) | Indarjulianto Soedarmanto | FVM, Gadjah Mada University-Indonesia |
| 7 | US (California) | Raffaella Commitante | OVAG, Orangutan Conservancy |
| 8 | US (Texas) | Nancy Lung | OVAG, Journal of Veterinary Medicine |
| 9 | Malaysia (Selengor) | Sumita Sugnaseelan | OVAG, Universiti Putra Malaysia |
| 10 | Malaysia (KL) | Pakeeyaraj Nagalingam | Sunway Lagoon Wildlife Park, OVAG |
| 11 | Indonesia (Balikpapan) | Anne Dawydowa | Four Paws |
| 12 | Sumatra Indonesia | Andika Pandu Wibisono | Sumatran Orangutan Conservation Programme |
| 13 | Sumatra Indonesia | Arif Gumilar | Yayasan Kalaweit Sumatera |
| 14 | West Kutai, Indonsia | Aidell Fitri | WWF-ID |
| 15 | Denver US | Anneke Moresco | Denver Zoological Foundation |
| 16 | Samboja Kaltim, Indonesia | Agnes Pratamiutami Sriningsih | BOSF - SL |
| 17 | Palangkaraya, Indonesia | Arga Sawung Kusuma | BOSF Nyaru Menteng |
| | Minahassa Utara, North Sulawesi | | |
| 18 | Indonesia Sumatra Indonesia | Annisa Devi Rachmawati | Tasikoki Wildlife Rescue Center |
| 19 | | Aulia Fakhrururozi | VESSWIC |
| 20 | Jambi, Sumatra Indonesia | Andhani Widya Hartanti | FRANKFURT Zoological Society |
| 21 | Palangkaraya, Indonesia | Agus Fahroni | BOSF NM |
| 22 | Ketapang Indonesia | Andini Nurillah | IAR |
| 23 | Ketapang Indonesia | Adisa Prayoga | IAR Ketapang |
| 24 | Singapore | Ali Anwar Bin Ahmad | Singapore Zoological Garden |
| 25 | Ketapang Indonesia | Andri Saputra | IAR Ketapang |
| 26 | Philadelphia, US | Barbara Toddes | Philadelphia Zoo |
| 27 | Texas, US | Bonnie Bloom | Ft Worth Zoo |
| 28 | Java, Indonesia | Bilan Viawan | Cikananga |
| 29 | Malacca, Malaysia | Bong Ai Yin | A'Famosa Safari Wonderland |
| 30 | Toba Indonesia | Dewi Candra Fitriani | Independent vet |
| 31 | Pangalangbun, Indonesia | Dimas Yuzifar | OFI |
| 32 | Samboja Kaltim Indoensia | duwi fatmawati | Yayasan Jejak Pulang |
| 33 | Bangkok Thailand | Elizabeth Riana | Chulalongkorn University |
| 34 | Aceh, Indoensia | Evi Fitriana | OIC |
| 35 | Kota Kinabalu, Sabah, Malaysia | Felicity Oram | PONGO Alliance and Orang Juga |
| 36 | Palangkaraya Indonesia | Fiet Hayu Patispathika | BOSF Nyaru Menteng |
| 37 | Berau, Kaltim Indonesia | Felisitas Flora Sambe Mambela | Centre for Orangutan Protection |
| 38 | Ketapang Indonesia | Fina Fadiah | IAR Ketapang |
| 39 | Ketapang Indonesia | Fadhil Kurniawan | IAR Ketapang |
| 40 | Samboja Kaltim Indonesia | Felita Widyaningsih | BOSF SL |

| | Makassar, South Sulawesi | | |
|----------|---|--|--|
| 41 | Indonesia Michigan US | Fahmi Agustiadi | Tasikoki wildlife rescue center |
| 42 | Michigan US | George Omondi | University of Minnesota, PASA |
| 43 | London, UK | Hannah Gray | Royal Veterinary College UK |
| 44 | Jogkja Indonesia | Galih Setiawan | Gembira Loka Zoo |
| 45 | Palangkaraya Indonesia | Gregg Poetra | BOSF NM |
| 46 | Jogkja Indonesia | Guruh Jaya Wisnuwardhana | Jogkja Wildlife |
| 47 | Jogkja Indonesia | Irhamna Putri Rahmawati | Wildlife Rescue Centre Jogja |
| 48 | Java Indonesia | Imam Arifin | International Animal Rescue Indonesia (Bogor |
| 49 | Kalimantan Indoensia | Ikhwan Amir | Central Kalimantan Borneo Orangutan Survival Foundation |
| 50 | West Kutai Indoensia | Itha Soge | WWF-ID |
| 51 | Birmingham UK | Jackie Chappell | University of Birmingham, UK. |
| 52 | Ketapang Indonesia | Joost Phillipa | IAR Ketapang |
| 53 | Portland, Oregon US | Julie Sherman | Wildlife Impact |
| 54 | Colorado US | Jennifer Taylor-Cousar | National Jewish Health |
| 55 | New South Wales Australia | Kevin C | Australia |
| 56 | Bogor, Indonesia | Ligaya Tumbelaka | IPB / PKBSI |
| 57 | Birmingham, UK | Lelia Bridgeland-Stephens | University of Birmingham, UK. |
| 58 | Seoul South Korea | Lina Susanti | Seoul National University |
| 59 | London, UK | Lydia Smith | Royal Veterinary College, London |
| 60 | KK, Sabah, Malaysia | Marc Ancrenaz | Hutan, Wildlife Impact |
| 61 | Samboja Kaltim, Indonesia | Muhtadin Wahyu | BOSF SL |
| 62 | Sibolangit, Indoenisa | Meuthya | SOCP |
| 63 | Sepilok, Sabah, Malaysia | Nur Nabila Sarkawi | Sepilok Orangutan Rehabilitation Centre |
| 64 | Birmingham UK | Nadine Adrianna Sugianto | University of Birmingham, UK. |
| 65 | Samboja Indonesia | Ni Made Ayudita Arjani Laksmi Wedayanti | BOSF SL |
| 66 | Bogor Indonesia | Nur Purba Priambada | IAR Indonesia/Asliqewan |
| 67 | Sabah, Malaysia | Navaneetha Roopan | Wildlife Rescue Unit Sabah |
| 68 | Cornwall UK | Nigel Hicks | Orangutan Veterinary Aid |
| 69 | Pangalangbun Indonesia | Popowati | Orangutan Foundation International |
| 70 | Muara Wahau, Indonesia | Patrick Flaggellata | BOSF-RHOI |
| 71 | Java Indonesia | Pristiani Nurantika | Javan Gibbon Center |
| 72 | Jambi Sumatra Indonesia | Riris Prawesti | Frankfurt Zoological Society |
| | Pontianak, West Kalimantan Indonesia | | |
| 73 74 | Kalimantan Indonesia | Rian Winardi Reza Tarmizi | independent vet Borneo Rhino alliance |
| | West Kalimantan Indonesia | NOLU TUTTILI | Agency for Conservation of Natural (BKSDA) Resources (West |
| 75 | | Rahmayani (Maya) | Kalimantan). |
| 76 | Samboja Kaltim Indonesia | rizki widiyanti | jejak pulang |
| 77 | Kuala Lampur, Malaysia | Reuben Sharma | UPM |
| 78 | Cornwall UK | Sara Hicks | Orangutan Veterinary Aid |
| 79 | Chuncheon, South Korea | Sulhi Aufa (uwi) | Kangwon National University, South Korea |
| 80 | Kalimantan Indonesia | Sofyan | Yayasan Kalaweit Indonesia (Kalimantan) |
| 81 | Birmingham UK | Susannah Thorpe | Universiyt of Birmingham, UK |
| 82 | St Louis US | Sathya Chinnadurai | St Louis Zoo |
| 83 | India | Sorang Tadap | Central Zoo Authority India |

| 84 | Ketapang Indonesia | Siti Hajariyah Fahyuna | IAR |
|----|--------------------------------|----------------------------|--|
| 85 | Sepilok, Sabah, Malaysia | Sylvia Alsisto | Sepilok Orangutan Rehabilitation Centre |
| 86 | New Jersey US | Tim Georoff | Philadelphia Zoo |
| 87 | Ketapang Indonesia | Temia Twin Pangesti | IAR Ketapang |
| 88 | Chingola, Zambia | Thalita Calvi | Chimfunshi Wildlife Orphanage Trust in Zambia |
| 89 | Palangkaraya Indonesia | Vivi dwi Santi | BOSF NM |
| 90 | Kaltim Indonesia | vidi Saputra | BKSDA Katim |
| 91 | Bogor Java Indonesia | Wendi Prameswari | IAR Indonesia-Bogor |
| 92 | Java Indonesia | Wahyu Hananto | Cikananga Wildlife Center |
| 93 | Salatiga, Jogkja Indonesia | Warih Pulung Nugrahani | Wildlife Rescue Centre Jogja |
| 94 | Sintang, West Borneo Indonesia | Waluyo Jati | Sintang Orangutan Center, West Kalimantan |
| 95 | Kupang Indonesia | Yeremia Yobelanno Sitompul | Faculty of Veterinary Medicine, University of Nusa Cendana Kupang Indonesia |
| 96 | Bogor Indoesia | Yumni Ghassani | Asliqewan |
| 97 | Aceh Sumatra Indoensia | Zulhilmi | OIC |

Total Number of Participants: 97

Of the 97 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 in the whole event.

| | Monday, | Tuesday, | Wednesday, | Thursday, | Friday, |
|----------------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|
| | 6 th July | 7 th July | 8 th July | 9 th July | 10 th July |
| Number of attendants daily | 64 | 76 | 78 | 84 | 73 |

Countries where people were signing in:

Indonesia: 61 participants
Malaysia: 10 participants
Singapore: 1 participant
Thailand: 1 participant
India: 1 participant

South Korea: 2 participants
Australia: 1 participant
Zambia: 1 participant
UK: 9 participants
US: 10 participants

Plan for OVAG 2021: Hopefully we can return to our regular in-person format – but we will have to wait and see. As plans become more firm, we will notify everyone.