MALAYSIA 🤐

LAW

Some aspects of wildlife health (disease prevention and control: animal welfare: husbandn)

widlife Conservation Act 2010
 Widlife Conservation Enactment 1997 (Sabah)
 Widlife Protection Ordinance 1998 (Sarawak)
 Widlife Conservation (Operation of Zoo) Regula 2012

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Animal Act 1953
 Animal Websen

Width resea

agencies, or il FELDAU

· Permit a conduct research Permit approval may take 1-2 months based on type of research. Complicated research require researcher to present

RESEARCH

www.dme research is performed in collaboration with local universities and other agencies (DVA, MCH) Research findings are useful to guide policies

Funding for research depends on National Malayea Plan, grants from other agencies, or institutions (eg., MPOR,

Wrbin DWNP; research are conducted by in house researchers and wit
 Limbed coordination and manpower to

their proposal Research priorities: Human-wildlife

STRUCTURE

- Peninsular Malaysia
 a. Department of Wildlife and National Parks (CWMP), Ministry of Natural Resources and Environmental Sustainability of Malaysia b. Department of Veninerary Services (CVS), Ministry of Agriculture and Food Security

- Ministry of Agriculture was ------2. Statub a. Saluth Wildlife Department, Ministry of Souriem, Culture and Environment, Saluth 3. Sanzawak, Forestry Cooperation (SFC), Ministry of Uran Development and Natural Resources, Sanzawak

COLLABORATION & OH

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POLICY

Related policies: Network Policy on Biological Diversity 2016-2025 or

Target 15 on strengthening stakkholes related to widdle; and Target 9 on ex-stu conservation to ensu that all zoos and widdle parks are managed to a tig stadard. safeount animal welfare and promote the stadard.

Refers to: CITES, IUCN, ICR, and WHF

- Invities DVS provides risk analysis support to DNND-DVS provides risk analysis support to DNND-provides and the provide state of the provides risk-remainder and disproting of disease susaely lead or pUMNP-Waldie particing protection usually lead by DVNP-Waldie particing protection usually lead by DVNP-Waldie particing protection usually lead by DVNP-tem-suppercy committee & And all annual or of disease comport may involve local gost and
- Rangers, PDRM, and military for forest wildlife patrolling

- cial committee/network National Zoonotic Disease Control Technical Committee that reports to the Interminiplerial Committee for Zoonotic Control (Noher level officials)

- Integrated Transure Operations (Operasi Rensepadu Rhazanah ORK) joint effort
 PORM and DVINP on transboundary environmental crime

FINANCIAL PHYSICAL

Equipment and materials are sufficient
 Need to improve on IT system

SURVEILLANCE

Only follows DVS livestock disease SOPs (eg., such as Protekol Veterinar Malaveia and Arahan Prosedur

Trans Vietnam Kalaysia) Sabah and Samwak are more focused on management - disease surveillance are managed by 3rd parties Lack into on current vietdite heath stratus nationalde Constated Funding for disease surveillance

Active surveillance: 1) Wildlife Deases Surveillance Program (WDSP) by Molecular Zoonotic Unit in Peninsular Malaysia, Sabah, and Samurak

Satswak I disease acreening on wildlife P.Msia (slephant theliotropic herpeovirus (EGHV), canine distempe

virus (CDV) - 200notic disease surveillance in wildlife P.Meia (5 viral

Disease surveillance by DWNP: Lab testing by DVS:

 migratory birds (HPAI annually)
 wild boar and macaques (during culling population

control) eactic animal for human consumption in breeder fam

5 viral families: Corona, Filo, Ravi, Paramyso, Influenza (conducted in NMFL of DWNP)

fam wildlife (in captivity and in the wild) museum samples - taxonomy, biomaterial for DNA.

Passive surveillance: enence sampling (during field post mortern, drog program, translocate and telease program spency joint investigation)

Disease priority:

EEH!

- Funding are primarily allocated for specific & scheduled program
 - (wildlife disease surveillance, procurement of laboratory consumables and materials for disease prevention) Ad hoc programs may require extra resources
- HUMAN Sufficient to cover most wildlife health activities
 10 wildlife veterinarian and 5 paravet involves in the wildlife health Meanwhile, only 3 laboratory staff (researcher) involved in the sample analysis. Need more experise manocere

LABORATORY

Collaborate closely with a mutual agreement on wildlife sample diagnosis, testing, and screening

Some universities conduct testing but are not free MoU for sample testing under research grant. No MoU with international labs

Lack funding to upgrade labe
 Need to improve laboratory capacity
 Need to have more manpower (lab technician and
executio in NMFL

Nith-constraints
 Littler of laboratorises
 Valentriany Research Institute
 S regional Vennony Laber (Central Cast, West, John Cashru, Kota Sanzu; 1 tab in Sabah; 1 tab in Sanzaat
 National Widtle Formatic Laboratory (MYK)
 A leading tab on widtle formatic cases
 Instruction on Widtle Sanzaitori, I SSA Social In molecular analysis on formatic cases

Samples for wildlife cleases are tested in DVS abs

Institute of Medical Research
 Private laboratories

with DVS (ab Some laboratories are accredited with ISO standard Cold chain system is functioning

RISK ANALYSIS & ZOONOSES

- onducted a tabletop exercises of risk analysis isease risk: Simian malaria at high human-macaque conflict

- Lack of explosue
 Concerned of all zoonotic diseases, particularly rables, Npah, simian malaria
 Disease prioritization are based on the interagency meeting or depends on the urgency (eg., during outbreaks like COVID, HPAI, ASF)
- COVID, HPAI, AGF) Activities to reduce zoonotic risks: Captive premise guidesfrees 9 DPC 9 Cuiling of overpopulated species (eg., macaques, wild boos) and surveillance

COMMUNICATION

Not prioritized Vets provide talka/seminars

- TRACEABILITY · Tagging and microchip are comp
- check.
 All animal products under wild animal
- No mechanism to monitor wildlife heat before slaughter for consumption. But tagging of food product is available.

EDUCATION

Notlingham University
 Universiti Tun Hussein Onn Matavsia

PRIVATE

Malaysia Ol Wildlife Response Plan (MOWRP)

Zoos and private breeders for commercial breeding

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 Wildle zoos, breeders
 provide wildle health
 awareness
 Malaysis Nature Society, WWF;
 Rinba, MACAT - Veterinary Laboratory Diagnostic
 Universiti Malaysia Kelantan (UMK)
 Veterinary Laboratory Diagnostic
 University Malaya Universiti Suitan Zainal Abidin
 Universiti Malaysia Sarawak

SOP/GUIDELINES

Internal SCOs on zoo standards, husbandry biosecurity and biosafety

Wildle Health Schedule @ Jadual Keshatan

House make the solution graduate which guides prevention of diseases, sampling, treatment, supplementation, etc. Refers to WDAH guidelines and DVS's SOPs and

- NGOs - directly and indirectly involvement to wildlife health armeo Rhino Alliance
- INTERNATIONAL
- Currently no official international collaboration related to wildlife health
- DVS) until 2019 DWNP refer to most of WOAH anima
- DWMP Isset to float of WOAH astmax codelguidelines and DVIS' SCP-Immunal Active in SEA-Waldfe Health Network International colliboorations may take aome time to get approved as it requires clearance from the higher authority (Nama Putra)
- ANIMAL WELFARE
- Captive wildlife facilities are improving in accordance to standards and regulations deprive wildlife schema and and and and and Public schema and and and and and and anomal store and and and and and and anomal store DWPP Christ spaces lend in Art 716 is included in enforcement. Christ spaces is not under the jurisdiction of DWPP wildlife growtess (prinnally or when necessary) Requirement includes manufact para of the space of the space of the space of the necessary.

 - necessary) Requirement includes standard size of space, proper enrichment, diet, regular health assessment, disposal of
- REPORTING
- Wildlife Act does not mention disease reporting but DWNP reports to DVS through a system using the EPIS 01 form. DVS repo Penyakt Walk Lapor list Universities to report to DVS Early warning includes community reportin

RESPONSE

- In an event of mortality or morbidity in wildlife, outbrask response team comprised of DVA and DVAP-bit to mobilize. Conditions with and DVAP-bit to mobilize. Conditions with Pracedule school from all years included during response to wildlife is available to during unsponse. It wildlife is available to during unsponse and provided to a specification of the school of the school

ENVIRONMENT

widife health Environmental impact assessment

ASSESSMENT

health system is not conducted

TRAINING

Field Epidemiology Training Program OH Core and Technical Competencies for outbreak Insufficient funding and time allocated for training

a diserting the second second

- tile heath services are provided by-DrithP National wildlife rescue centre, Wildlife Conservation Centre, Mateura Sper Conservation entre, National Rephart Conservation Vet clinical services are sufficient for wildlife in captivity Medicines, and biologicals are sufficient sufficient • Vaccinations for tiger (4 in 1) and gaur (FMD) in captivity • Difficulty obtaining certain drugs/medicines cattre Vets in 2006, animal clinics National Wildlife Forensic Laboratory (NWFL) for sample analysis, Wildlife forensic unit for necropsy

DATA

- No official system
 Data fairing through the interspency committee
 Data fairing through the interspency committee
 Data of D/S through IRC
 Pattorn still under development
 A vest can access LIMB and I-house excel data
 So-party agencies (e.g. universities) in coordination with
 DicSeLIZM

- Data recording and extra manpower (not real-time) Needs a proper online re

Activities - Rescue & translocation of wildlife, nethabilitation, revealing Diagnosis, treatment, TuC - Haldandy, reproduction, det and feeds management, writere - Sample analysis, research, etc

ANIMAL HEALTH