

FY2020 Inter-University Exchange Project Hokkaido University

Support for the Formation of Collaborative Programs with African Universities

【Name of project】 (Adopted year: FY2020, (Type A②)) International Veterinary and Conservation Medicine Education Program: Building upon generations of collaboration between University of Zambia and Hokkaido University for the future of Africa-Japan relations

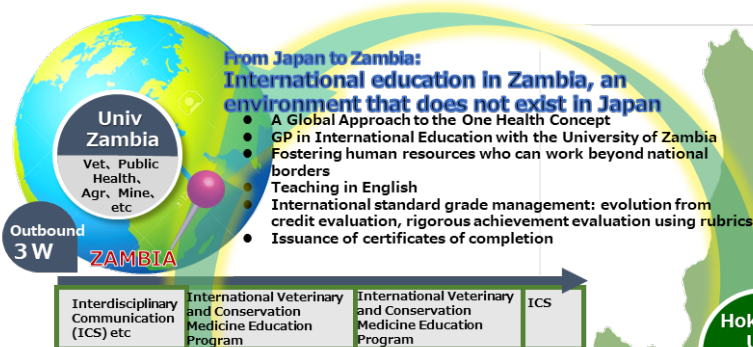
【Summary of Inter-University Exchange Projects】

Issues and social demands

Global issues that conservation medicine needs to address

- Changes in the distribution of agricultural and livestock products on a global scale
- Continuing outbreaks of infectious diseases
- Health and welfare of Human and animal
- Global ecosystem change and transboundary pollution

International Veterinary and Conservation Medicine Education Program:
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between University of Zambia and Hokkaido
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One Health Concept Ability to collaborate with overseas and different fields

Human resources to be developed

- Conservation medicine for the health of humans, animals, and the environment
- Cultivation of thinking attitudes that will contribute to the advancement of conservation medicine on a global scale
- Fostering the next generation of human resources who will contribute to the enhancement of collaborative relationships between Japan and Africa

**Crossing Borders in Conservation Medicine
It needs to operate in the international arena**

About 40 years of research and educational exchange

- Ministry of Education, Culture, Sports, Science and Technology (MEXT) GP, functional enhancement expenses (local education for undergraduates)
- Establishment of Hokkaido University Lusaka Office
- J-Grid, SATREPS, JICA training, and many other exchange programs



- Sending Graduate Students from Hokkaido University to the University of Zambia to Strengthen Interdisciplinary Collaboration
- Maintaining the health of the environment surrounding humans and animals through human resources that contribute to the development of conservation medicine
- Contributing to the resolution of transboundary and global issues through the One Health concept
- Inviting excellent students from the University of Zambia to Japan to serve as a bridge between Africa and Japan
- Providing an environment to learn about cutting-edge conservation medicine education and basic research

Inter-University Exchange Project

Outbound

Inbound

【Summary of Exchange program】

The concept of conservation medicine is a new academic field that has spread rapidly around the world since the beginning of 2000. It is also a concept of One Health, which considers health problems caused by environmental changes associated with human activities and associated infectious diseases and pollutants as drivers of health and other related problems for humans, animals, ecosystems, and the entire planet. Based on this new concept, we will provide international education in conservation medicine in collaboration with the University of Zambia. In addition, a stakeholder board consisting of people involved in conservation medicine in Japan and Zambia will be established to conduct competency evaluations and effective and high-quality education.

【Global Human Resource on the project】

- Human resources that will be willing to work with Africa in the future promoting collaboration between Africa and Japan and contribute to solving issues in "conservation medicine"
- Human resources that can actively collaborate with people from different fields and contribute to One Health by integrating international issues.

【Feature on the project】 Exchanges with a view to sub-Saharan Africa. Provide of online contents. In addition, competency evaluation will be conducted for this program.

【Exchange number】

		2020	2021	2022	2023	2024
Out bound	Students studying abroad	/	8	8	8	8
	Students taking online international education and exchange programs in their home countries	4	10	10	10	10
In bound	Students studying abroad	/	4	4	4	4
	Students taking online international education and exchange programs in their home countries	8	10	10	10	10

1. FY2020 Progress

【Hokkaido University】

【Name of project】(Adopted year: FY2020, (Type A)

International Veterinary and Conservation Medicine Education Program: Building upon generations of collaboration between University of Zambia and Hokkaido University for the future of Africa-Japan relations

■ Exchange Programs



- In FY2020, we did not actually dispatch or accept students, but conducted an online symposium-type class (exercise) entitled "Bilateral Symposium between University of Zambia and Hokkaido University: One Health Joint Research."
- Students from each university presented their research on "One Health" in Zambia, which is a keyword in conservation medicine.
- In FY2020, 11 e-learning contents related to conservation medicine were created. We will continue to create E-learning contents in FY2021.
- The syllabus for FY2021 and beyond is being released sequentially.

Student-Mobility

○ Outbound

- We did not dispatch students who actually traveled to Zambia, but participated in the classes online on a trial basis.
- A total of 15 graduate students from various fields of specialization participated.

○ Inbound

- We did not accept students who actually traveled to Japan to attend the classes, but participated in the classes online on a trial basis.
- A total of 13 graduate students from various fields of specialization participated.

	2020	
	Plan	Results
Outbound	4	15
Inbound	8	13

■ Forming the University Network with Quality Assurance

- ✓ In FY2020, various committees, including the Steering Committee and the Academic Affairs Committee, will be created within the project.
- ✓ For internal quality assurance, a faculty member who is familiar with the scheme through international accreditation of veterinary education in Europe will be assigned to be in charge of QA (Quality Assurance) unit.
- ✓ In this project, competency evaluation will be incorporated into the evaluation of students



〈 Scenes from the Overseas Risk Management Seminar FD 〉

■ Promotion of Student-Mobility Environment

- ✓ In order to allow diverse students to participate across disciplines about classes, syllabi of 9 subjects were posted on the web site Inter Graduate School Classes courses for the whole university. Course guidebooks were prepared for six of these courses.
- ✓ In addition, a risk management seminar on overseas dispatch and international exchange was held as FD in March 2021.
- ✓ SOPs were prepared for the outbound.

■ Internationalization of the university, Information disclosure and Publication of outcome

- ✓ A website in Japanese and English was constructed on the hosting server of Hokkaido University for the project to strengthen the university's global development capabilities. <https://africa.vetmed.hokudai.ac.jp/en/>
- ✓ In addition, 500 copies of pamphlets in Japanese and English were produced.
- ✓ We are also collaborating with the Hokkaido University Africa Study Group to promote the project in conjunction with the Study Group's website.
- ✓ The syllabus has also been made public, and a system for providing information has been established.

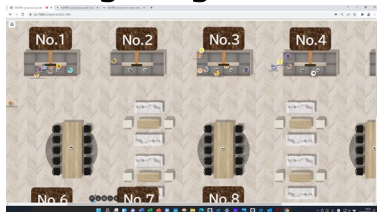
■ Good Practices

- ✓ Students from both Hokkaido University and the University of Zambia from a variety of fields participated in the symposium-type exercise class, as well as a wide range of stakeholders from both countries, including government, international organization, and private companies.

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■ Exchange Programs



- Although physical exchanges were not conducted due to COVID19, online lectures and practical training were conducted.
- E-learning contents were enriched and improved
- Syllabus was made public and open recruitment of participating students was conducted. We received 54 applications from the University of Zambia. We offered a place for 4 dispatched students and 10 online students.

(Left: Online poster session)

Student-Mobility

○ Outbound

Due to the spread of COVID19 infection, classes were conducted online instead of sending students with actual international travel. Lectures on One Health and conservation medicine were conducted online. Seminars and demonstration classes were conducted by faculty from the University of Zambia. Dispatched students visited Toyoha Mine in Hokkaido to participate in a practical training

○ Inbound

Due to the spread of COVID19 infection, the course was conducted online, without physical visit to Japan. Basic lectures on One Health (equivalent to 1 credit), a course on chemical hazards (equivalent to 5 credits), a course on mining resources and environmental conservation in Zambia (equivalent to 1 credit), a course on zoonosis (equivalent to 1 credit), and an exercise on conservation medicine (equivalent to 1 credit) were offered as elective courses. After the classes, for those who wished to take the examination to be certified as a chemical hazard control specialist, the examination was conducted online and a certificate was issued.

	2021 (some activities carryover to 2022 year)	
	Plan	Results
Outbound	8 (with credit)	Online 12 (with credit)
	Online 10 (no credit)	Online 6 (no credit)
Inbound	4 (with credit)	Online 7 (with credit)
	Online 10 (no credit)	Online 2 (no credit)

■ Forming the University Network with Quality Assurance

- ✓ Syllabi were created as common graduate school courses for the entire university and published on the website to enable diverse students across disciplines to participate in classes. Course guidebooks were created for 6 of these courses.
- ✓ A risk management seminar on overseas dispatch and international exchange was held as FD in October 2022.
- ✓ Rubrics were created as a grading method, and competency evaluation based on acquired skills was implemented on a trial basis.
- ✓ An external evaluation was conducted by the External Evaluation Committee.

■ Promotion of Student-Mobility Environment

- ✓ Conducted a site visit to establish a training environment for sending and receiving students.
- ✓ Visited the University of Zambia to cultivate helpful networks for student activities in Zambia.
- ✓ Coordinated with facilities in Hokkaido that are expected to host students from the University of Zambia.
- ✓ Invited faculty members from the University of Zambia to offer classes for Japanese students.



(Above: Workshop conducted at the mining site)

■ Internationalization of the university, Information disclosure and Publication of outcome

- ✓ A website in Japanese and English was opened for the project. Syllabus and other information were disseminated to students through the website. <https://africa.vetmed.hokudai.ac.jp/en/>
- ✓ The existing Learning Management System (LMS) was introduced for the Zambian students to provide learning materials. The internal LMS was used for Japanese students to provide class materials and to recruit students.

■ Good Practices

- ✓ Faculty members from various fields (veterinary medicine, global environment, agriculture, zoonosis, engineering, health, etc.) served as steering committee members and organized the curriculum.
- ✓ As a grading method, we emphasized evaluation based on the acquisition of competencies, created a rubric, and conducted competency evaluation.