Background

- Formed in 1997, TEPHINET is the only global network of field epidemiology training programs (FETPs) working to protect people from public health threats.
- 4,770 current trainees
- 71 member FETPs across 100+ countries
- FETP Annual Survey was conducted to enhance knowledge about the structure and activities of FETPs.
- FETP Annual Survey was updated in 2019 to align with TEPHINET’s monitoring and evaluation framework.
Methodology

- 53-item survey developed and hosted on an online platform
- In July 2019, all 71 FETPs invited to participate in the survey
- Data collected in July and August of 2019
- Six reminders sent from the TEPHINET Secretariat and/or Director
- Data collection closed on August 23, 2019
- 67 FETPs completed the survey for a response rate of 94%
- Data cleaned, coded, and analyzed in September and October of 2019
Data Overview

- Respondent characteristics
- Training activities and programs
- Learning opportunities for trainees, staff, and faculty
- Engagement with other FETPs
- Trainee outputs
- Graduation and employment
Respondent FETPs, by Region (N=67*)

<table>
<thead>
<tr>
<th>Region</th>
<th>Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRO</td>
<td>Angola, Burkina Faso, Cote D’Ivoire, Ethiopia, Ghana, Guinea, Guinea-Bissau, Indian Ocean, Kenya, Mozambique, Namibia, Nigeria, Rwanda, South Africa, Tanzania, Togo, Uganda, Zambia, Zimbabwe</td>
</tr>
<tr>
<td>EMRO</td>
<td>Egypt, Iraq, Jordan, Morocco, Pakistan, Saudi Arabia, Yemen</td>
</tr>
<tr>
<td>EURO</td>
<td>Central Asia, EPIET/EUPHEM (ECDC Fellowship Program), Germany, South Caucasus, Turkey</td>
</tr>
<tr>
<td>PAHO</td>
<td>Argentina, Belize, Brazil, Canada, Central America, Colombia, Costa Rica, Dominican Republic, El Salvador, Guatemala, Haiti, Honduras, Mexico, Panama, Paraguay, Peru, United States</td>
</tr>
<tr>
<td>SEARO</td>
<td>India (Delhi), India (Chennai), Indonesia</td>
</tr>
<tr>
<td>WPRO</td>
<td>Australia, Cambodia, China, Hong Kong, Japan, Lao, Malaysia, Mongolia, Papua New Guinea, Philippines, Singapore, South Korea, Taiwan, Vietnam</td>
</tr>
</tbody>
</table>

* FETP-V unable to be classified within a specific region
FETP Type (N=67)

Which best describes your FETP type?

- National: 80%
- Regional / Multi-national: 16%
- Sub-national: 2%
- Other: 2%
Regional Network Membership

Is your FETP a member of a regional network? (n=67)

- Yes: 79%
- No: 21%

If so, which regional network? (N=53)

- AFENET: 36%
- ASEAN +3 FETN: 17%
- REDCEC: 13%
- EMPHNET: 9%
- SAFETYNET: 6%
- REDSUR: 19%
FETP Host Institution (N=67)

In what type(s) of institution is your FETP hosted?*

- Ministry of Health: 69%
- National Institute of Public Health: 27%
- University: 27%
- Other (i.e., in-country Social Security Institutions, national Centers for Disease Control): 6%

* Respondents could check more than one response
FETP Classification (N=66)

Which best describes your FETP classification?

- FETP or AET: 79%
- FELTP: 20%
- FETP-V: 1%
FETP Classification, by Region (N=69)

*FETP-V could not be classified as its countries belong to different regions*
Percent of Total Funding by Source (N=61)

Please indicate the percentage of all funding sources for your FETP:

- **Own Government**: 50%
- **U.S. CDC**: 32%
- **Non-governmental Agency**: 4%
- **Private / Foundation**: 0%
- **Other (i.e., WHO, PAHO, World Bank)**: 14%
Training Levels Offered (N=66)

What training level(s) are currently offered by your FETP?

- Basic / Frontline Only: 6%
- Intermediate Only: 2%
- Advanced Only: 3%
- Basic and Intermediate: 15%
- Basic and Advanced: 26%
- Intermediate and Advanced: 12%
- All Levels: 0%
Training Levels Offered, by Region (N=66)

What training level(s) are currently offered by your FETP?

<table>
<thead>
<tr>
<th>FETP Region</th>
<th>Basic / Frontline Only</th>
<th>Intermediate Only</th>
<th>Advanced Only</th>
<th>Basic and Intermediate</th>
<th>Basic and Advanced</th>
<th>All Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRO (N=19)</td>
<td>5%</td>
<td>32%</td>
<td>11%</td>
<td>37%</td>
<td>16%</td>
<td></td>
</tr>
<tr>
<td>EMRO (N=6)</td>
<td>17%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EURO (N=5)</td>
<td>20%</td>
<td></td>
<td>80%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PAHO (N=17)</td>
<td>35%</td>
<td>35%</td>
<td>12%</td>
<td></td>
<td>18%</td>
<td></td>
</tr>
<tr>
<td>SEARO (N=5)</td>
<td>40%</td>
<td>40%</td>
<td></td>
<td></td>
<td>20%</td>
<td></td>
</tr>
<tr>
<td>WPRO (N=14)</td>
<td>14%</td>
<td>7%</td>
<td>36%</td>
<td>14%</td>
<td>7%</td>
<td>14%</td>
</tr>
</tbody>
</table>
On average, how many weeks total is your FETP training?

- Basic / Frontline: 14 weeks
- Intermediate: 34 weeks
- Advanced: 88 weeks
Average Percentage of FETP Training that is Classroom-based (N=66)

On average, what percentage of your FETP training is classroom-based?

- Basic / Frontline: 26%
- Intermediate: 32%
- Advanced: 24%
Masters Degrees

Does the FETP offer a master’s degree? (n=67)

- Yes: 39%
- No: 61%

If so, in which area(s) is a master’s degree offered?* (N=26)

- Epidemiology: 82%
- Public Health: 14%
- Other (i.e., Applied Epidemiology, Masters of Veterinary Public Health): 4%

* Respondents could check more than one response
Training and Deployment

Do trainees participate full-time, part-time, or both? (n=67)  
- Full-time: 58%  
- Part-time: 25%  
- Both: 16%

Are trainees able to be deployed for outbreak response? (N=67)  
- Yes: 100%
Number of Trainees Enrolled Per Level, by Region*

* Number of trainees enrolled by tier per region at the time of survey completion
Learning Opportunities for Trainees (N=67)

Outside of the core curriculum, what other learning opportunities do you offer to trainees?*

- Support for submission of manuscripts and abstracts: 88%
- Additional field experience: 79%
- Support for submission of technical reports: 75%
- Trainings by staff/faculty: 73%
- Additional or topic-specific mentoring: 70%
- In-person trainings by external partners/sources: 61%
- Online training by external partners/sources: 61%
- Referrals to additional resources: 57%
- Mini-grants for field work/projects: 51%
- Online trainings by staff/faculty: 22%

* Respondents could check more than one response
New Learning Content for Trainees

Did your FETP develop any new learning content for trainees in 2018? (N=67)

- Yes: 49%
- No: 51%

Top three topics and delivery methods, among those that developed new learning content for trainees in 2018 (N=33)

<table>
<thead>
<tr>
<th>Topics</th>
<th>Learning Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Medical epidemiology</td>
<td>1. Classroom based lectures and exercises</td>
</tr>
<tr>
<td>2. Advanced data analysis techniques and tools</td>
<td>2. Virtual class (live or recorded)</td>
</tr>
<tr>
<td>3. Field interviewing techniques (or other field-related topics)</td>
<td>3. E-learning module or course</td>
</tr>
</tbody>
</table>
Learning Opportunities for Staff and Faculty (N=67)

What learning opportunities do you offer to your staff and faculty?*

- In-person trainings by internal staff: 27%
- Online training by internal staff: 28%
- Online training by external partners/sources: 48%
- Referrals to additional learning resources: 60%
- Travel grant funds to present at conferences: 63%
- Additional field experience: 63%
- Mentor training: 63%
- In-person trainings by external partners/sources: 67%
- Support for submission of manuscripts and abstracts: 70%

*Respondents could check more than one response
New Learning Content for Staff or Faculty

Did your FETP develop any new learning content for staff or faculty in 2018? (N=66)

Top three topics and delivery methods, among those that developed new learning content for staff or faculty in 2018 (N=20)

<table>
<thead>
<tr>
<th>Topics</th>
<th>Learning Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mentoring</td>
<td>1. Classroom based lectures and exercises</td>
</tr>
<tr>
<td>2. Training development (i.e., end-user or training of trainers)</td>
<td>2. Virtual class (live or recorded)</td>
</tr>
<tr>
<td>3. Communication</td>
<td>3. E-learning module or course</td>
</tr>
</tbody>
</table>
Integration of One Health

Has your FETP integrated One Health concepts? (n=66)

- Yes, as part of training curriculum: 64%
- Yes, as a stand-alone training resource: 18%
- Not at all: 18%

If not, would your FETP like to receive training on One Health? (N=12)

- Yes: 58%
- Unsure: 42%
Integration of One Health, by Region

Has your FETP integrated One Health concepts?

<table>
<thead>
<tr>
<th>FETP Region</th>
<th>Yes, as a stand-alone training resource</th>
<th>Yes, as part of the training curriculum</th>
<th>Not at all</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRO (N=20)</td>
<td>15%</td>
<td>70%</td>
<td>15%</td>
</tr>
<tr>
<td>EMRO (N=7)</td>
<td>15%</td>
<td>29%</td>
<td>14%</td>
</tr>
<tr>
<td>EURO (N=5)</td>
<td>0%</td>
<td>20%</td>
<td>0%</td>
</tr>
<tr>
<td>PAHO (N=17)</td>
<td>0%</td>
<td>24%</td>
<td>18%</td>
</tr>
<tr>
<td>SEARO (N=3)</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>WPRO (N=14)</td>
<td>21%</td>
<td>71%</td>
<td>7%</td>
</tr>
</tbody>
</table>
Collaboration with Other FETPs or Regional Networks (N=66)

Does your FETP collaborate with other FETPs or a regional network to enhance quality of FETP content and activities?

- Yes: 85%
- No: 15%
Engagement with Other FETPs or Regional Networks (N=66)

What activities has your FETP been engaged in with other FETPs or regional networks?*

- Develop or receive learning resources: 64%
- Identify, offer, or receive learning opportunities: 62%
- Share best practices and related content: 62%
- Provide or receive technical assistance: 56%
- Provide or receive mentoring: 36%
- Encourage other FETPs to apply for accreditation: 14%

* Respondents could check more than one response
Engagement with Other FETPs or Regional Networks: AFRO Region (N=16)

What activities has your FETP been engaged in with other FETPs or regional networks?*

- Share best practices and related content: 75%
- Develop or receive learning resources: 75%
- Provide or receive technical assistance: 69%
- Provide or receive mentoring: 56%
- Identify and offer or receive learning opportunities: 50%
- Encourage other FETPs to apply for accreditation: 31%
- Other: 13%

* Respondents could check more than one response
Engagement with Other FETPs or Regional Networks: EMRO Region (N=7)

What activities has your FETP been engaged in with other FETPs or regional networks?*

- Develop or receive learning resources: 100%
- Share best practices and related content: 86%
- Identify and offer or receive learning opportunities: 71%
- Provide or receive technical assistance: 57%
- Provide or receive mentoring: 14%

* Respondents could check more than one response
Engagement with Other FETPs or Regional Networks: EURO Region (N=5)

What activities has your FETP been engaged in with other FETPs or regional networks?*

- Develop or receive learning resources: 40%
- Share best practices and related content: 40%
- Identify, offer, or receive learning opportunities: 40%
- Provide or receive mentoring: 20%
- Encourage other FETPs to apply for accreditation: 20%
- Provide or receive technical assistance: 20%

* Respondents could check more than one response

Percent of FETPs
Engagement with Other FETPs or Regional Networks: PAHO Region (N=17)

What activities has your FETP been engaged in with other FETPs or regional networks?*

- Provide or receive technical assistance: 71%
- Identify, offer, or receive learning opportunities: 71%
- Develop or receive learning resources: 53%
- Provide or receive mentoring: 41%
- Share best practices and related content: 35%
- Encourage other FETPs to apply for accreditation: 6%

* Respondents could check more than one response
Engagement with Other FETPs or Regional Networks: SEARO Region (N=3)

What activities has your FETP been engaged in with other FETPs or regional networks?*

- Identify and offer or receive learning opportunities: 100%
- Develop or receive learning resources: 100%
- Share best practices and related content: 67%
- Provide or receive technical assistance to other FETPs: 67%
- Provide or receive mentoring to other FETPs: 33%
- Other: 33%

*Respondents could check more than one response
Engagement with Other FETPs or Regional Networks: WPRO Region (N=14)

What activities has your FETP been engaged in with other FETPs or regional networks?*

- Share best practices and related content: 93%
- Identify, offer, or receive learning opportunities: 79%
- Develop or receive learning resources: 64%
- Provide or receive technical assistance: 50%
- Provide or receive mentoring: 36%
- Encourage other FETPs to apply for accreditation: 14%

* Respondents could check more than one response
Outputs Completed by Trainees in Basic/Frontline Programs (N=39)

Indicate the number of each of the following outputs completed by your trainees in 2018:*

- Surveillance summary reports: 2,049
- Data quality audits: 951
- Surveillance quality problem analysis: 773
- Case and/or outbreak reports: 683
- Outbreak or field investigation: 590
- Poster presentation at scientific conference: 49
- Oral presentation at scientific conference: 47

*Respondents could check more than one response
Outputs Completed by Trainees in Intermediate Programs (N=21)

Indicate the number of each of the following outputs completed by your trainees in 2018:*

- Investigation of outbreak or other acute event: 151
- Public health analysis conducted: 130
- Oral presentation at scientific conference: 91
- Evaluation of surveillance system: 53
- Develop or implement surveillance system: 50
- Epidemiological study planned: 28
- Scientific protocol prepared: 28
- Poster presentation at scientific conference: 24
- Article published in peer-reviewed scientific publication: 14

* Respondents could check more than one response
Outputs Completed by Trainees in Advanced Programs (N=51)

Indicate the number of each of the following outputs completed by your trainees in 2018:*  

- Investigation of outbreak or other acute event: 1,014
- Oral presentation at scientific conference: 659
- Epidemiological study planned: 550
- Evaluation of surveillance system: 534
- Scientific protocol prepared: 521
- Poster presentation at scientific conference: 492
- Article published in peer-reviewed scientific publication: 479
- Public health analysis conducted: 442
- Develop or implement surveillance system: 189

* Respondents could check more than one response
Number of FETP Graduates in 2018*, by Region

* Number of individual graduates from January to December of 2018
Alumni Association (N=67)

Does your FETP have an alumni association?

Yes: 37%
No: 63%
Number of Graduates in Specific Professional Areas (N=67)

Indicate the total number of graduates your FETP had in each professional area during 2018:

- **Total**: 1,632
- **Physician**: 414
- **Epidemiologist**: 405
- **Nurse**: 326
- **Other (i.e., Nutritionist, Environmentalist, Pharmacist)**: 192
- **Vet or vet paraprofessional**: 152
- **Lab technician**: 77
- **Biologist**: 63
- **Entomologist**: 13

*Respondents could check more than one response*
Employment After Graduation (N=67)

Indicate the total number of 2018 FETP graduates currently employed by each of the following types of organizations?

<table>
<thead>
<tr>
<th>Organization</th>
<th>N</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ministry of Health in FETP’s country</td>
<td>978</td>
<td>68%</td>
</tr>
<tr>
<td>Health organization, other than Ministry of Health</td>
<td>221</td>
<td>15%</td>
</tr>
<tr>
<td>Ministry of Agriculture</td>
<td>81</td>
<td>6%</td>
</tr>
<tr>
<td>Private organization</td>
<td>51</td>
<td>4%</td>
</tr>
<tr>
<td>Agricultural organization, other than Ministry of Agriculture</td>
<td>23</td>
<td>2%</td>
</tr>
<tr>
<td>Ministry of Health outside FETP’s country</td>
<td>14</td>
<td>1%</td>
</tr>
<tr>
<td>Other</td>
<td>49</td>
<td>3%</td>
</tr>
<tr>
<td>Unknown</td>
<td>15</td>
<td>1%</td>
</tr>
<tr>
<td>Total</td>
<td>1,432</td>
<td>100%</td>
</tr>
</tbody>
</table>
**Additional Comments**

Other than funding, how can TEPHINET support and add value to your FETP?

- Provide Technical support and training
- Gather and share best practices
- Support research studies
- Support accreditation process
- Provide opportunities for networking
- Provide Conference support
Summary

As a network, we support FETP quality improvement through our accreditation program, provide learning and professional development opportunities for FETP trainees and graduates through scientific conferences and learning materials, assist with field epidemiology workforce mobilization, and facilitate resource-sharing among FETPs through our networking initiatives.

Data from this survey is one of many activities we use to monitor and evaluate progress toward achieving our goals and objectives.

Mario Alberto Chaparro Rodriguez, FETP Colombia