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| **1st week:**  Define problem | **2nd week:**  Identify cause | **3rd week:**  Infer to population | **4th week:**  Application tools |

**Introductory Course on Field Epidemiology and Biostatistics**

**8 June - 3 July 2020**

**Epidemiology Division, Ministry of Public Health, Thailand**

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| **Day** | **8.30-9.00** | **Morning Session: 9.00-12.00** | | **Afternoon Session: 13.00-16.00** |
| **Mon 8**  **June** |  | 9.00-.10.15  Course Orientation &  Pre-test  (Dr.Natthaprang) | 10.30-12.00  Interested topic in Field Epidemiology: COVID-19  (Dr.Chawetsan) | 13.00-15.00  Introduction to Field Epidemiology  (Dr.Wiwat) |
| **Tue 9**  **June** | 9.00-12.00  Principle of Public Health Surveillance and Application  (Dr. Pawinee) | | 13.00-16.00  Quantitative Measures1:Frequency  (Dr.Natthaprang) |
| **Wed 10**  **June** | 9.00-12.00  Animal Health Surveillance  (Dr. Sith) | | 13.00-16.00  Exercise on Setting up Surveillance: Brucellosis  (Dr.Pantila) |
| **Thu 11**  **June** | 9.00-12.00  Surveillance Evaluation  (Dr.Thanawadee) | | 13.00-16.00  Exercise: Surveillance Evaluation  (Dr. Thanawadee) |
| **Fri 12**  **June** | 9.00-12.00  Thailand Health Care System  (Dr.Woranan,Dr.Arnond) | | 13.00-16.00  Applications of Outbreak Investigation in animal disease  (Dr. Karoon , Dr. Paisin) |
| ***weekend*** | | | | |
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| **Mon 15**  **June** |  | 9.00-12.00  Outbreak Investigation  (Dr. Thanit) | | 13.00-16.00  Exercise: Outbreak Investigation  (Dr. Thanit) |
| **Tue 16**  **June** | 9.00-12.00  Overview of Study Design & Descriptive Study  (Dr. Lakkana) | | 13.00-16.00  Cross-sectional Study and Ecological Study  (Dr. Lakkana) |
| **Wed 17**  **June** | 9.00-12.00  Experimental Study  (Dr. Lakkana) | | 13.00-16.00  Case-control  (Dr. Lakkana) |
| **Thu 18**  **June** | 9.00-12.00  Quantitative Measures2: Association and Impact  (Dr.Phanthanee) | | 13.00-16.00  Exercise: Case-control Study  (Dr. Phanthanee) |
| **Fri 19**  **June** | 9.00-12.00  Cohort Study  (Dr.Ram) | | Exercise: Cohort Study  (Dr. Nichakul) |

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| **Day** | **8.30-9.00** | | **Morning Session: 9.00-12.00** | | **Afternoon Session: 13.00-16.00** | | | |
| ***Weekend*** | | | | | | | | |
| **Mon 22**  **June** | |  | Descriptive Statistics  (Dr..Jaranit) | | | Inferential Statistics 1  (Dr..Jaranit) | | |
| **Tue 23**  **June** | | Inferential Statistics 2  (Dr..Jaranit) | | | Inferential Statistics 3  (Dr..Jaranit) | | |
| **Wed 24**  **June** | | Inferential Statistics 4  (Dr..Jaranit) | | | Sampling & Sample Size and Exercise  (Dr..Jaranit) | | |
| **Thu 25**  **June** | | Bias in Epidemiology  (Dr.Pratap) | | | Confounding  (Dr.Pratap) | | |
| **Fri 26**  **June** | | Interaction  (Dr.Yongjua) | | | Stratified Analysis, Matching and Standardization  (Dr.Yongjua) | | |
| ***Weekend*** | | | | | | | | |
| **Mon 29**  **June** | |  | 9.00-10.00  Risk Communication  (Dr.Pahurat) | 10.15-12.15  Screening Test  (Dr.Rapeepong) | | 13.00-14.30  GIS Application in Health Services  (Dr.Seesai) | 14.45-16.15  Literature Search  (Dr.Rapeepong) | |
| **Tue 30**  **June** | | 9.00-12.00  Economic Evaluation of Health Intervention  (Dr.Wanrudee) | | | 13.00-16.00  Program Evaluation  (Dr.Rapeepong) | | |
| **Wed 1**  **July** | | 9.00-10.30  Public Health  Emergency Management  (Dr.Pantila) | 10.45-12.15  En-Occ Epidemiology  (Dr.Thanawadee) | | 13.00-14.30  Applied Epidemiology for NCD.  (Dr.Auttakiat) | 14.45-16.15  Injury Epidemiology  (Dr.Phathai) | |
| **Thu 2**  **July** | | 9.00-10.30  Public Health Risk Assessment  (Dr.Patcharin) | 10.45-12.15  Ethical Concerns in Outbreak Investigation  (Dr.Wanna) | | 13.00- 16.00  Basic Computer Skills for Field Epidemiologist  (Dr.Rapeepong, Dr.Natthaprang) | | |
| **Fri 3**  **July** | | 8.30-9.00  Post-test | 9.00-12.00  Presentation and Writing of Scientific Findings  (Dr.Chawetsan, Dr.Ravinan) | | | Closing and Certification | |  |

**Note: 1. Coffee and tea break at 10.30-10.45 and 14.30-14.45 except 8 Jun 2020 break at 10.15-10.30**

**2. Please bring computers in these classes as hard copy will not be provided.**