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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-.10.15Course Orientation &Pre-test(Dr.Natthaprang) | 10.30-12.00Interested topic in Field Epidemiology: COVID-19(Dr.Chawetsan) | 13.00-15.00Introduction to Field Epidemiology(Dr.Wiwat) |
| **Tue 9****June** | 9.00-12.00Principle of Public Health Surveillance and Application(Dr. Pawinee) | 13.00-16.00Quantitative Measures1:Frequency(Dr.Natthaprang) |
| **Wed 10****June** | 9.00-12.00Animal Health Surveillance(Dr. Sith) | 13.00-16.00Exercise on Setting up Surveillance: Brucellosis(Dr.Pantila) |
| **Thu 11****June** | 9.00-12.00Surveillance Evaluation(Dr.Thanawadee) | 13.00-16.00Exercise: Surveillance Evaluation(Dr. Thanawadee) |
| **Fri 12****June** | 9.00-12.00 Thailand Health Care System (Dr.Woranan,Dr.Arnond) | 13.00-16.00Applications of Outbreak Investigation in animal disease(Dr. Karoon , Dr. Paisin) |
| ***weekend*** |
|
| **Mon 15****June** |  | 9.00-12.00Outbreak Investigation(Dr. Thanit) | 13.00-16.00Exercise: Outbreak Investigation (Dr. Thanit) |
| **Tue 16****June** | 9.00-12.00Overview of Study Design & Descriptive Study(Dr. Lakkana) | 13.00-16.00Cross-sectional Study and Ecological Study(Dr. Lakkana) |
| **Wed 17****June** | 9.00-12.00Experimental Study(Dr. Lakkana) | 13.00-16.00Case-control(Dr. Lakkana) |
| **Thu 18****June** | 9.00-12.00Quantitative Measures2: Association and Impact(Dr.Phanthanee) | 13.00-16.00Exercise: Case-control Study(Dr. Phanthanee) |
| **Fri 19****June** | 9.00-12.00Cohort 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** |  | 9.00-10.00Risk Communication(Dr.Pahurat) | 10.15-12.15Screening Test(Dr.Rapeepong) | 13.00-14.30GIS Application in Health Services(Dr.Seesai) | 14.45-16.15Literature Search(Dr.Rapeepong) |
| **Tue 30****June** | 9.00-12.00Economic Evaluation of Health Intervention(Dr.Wanrudee) | 13.00-16.00Program Evaluation(Dr.Rapeepong) |
| **Wed 1****July** | 9.00-10.30Public HealthEmergency Management(Dr.Pantila) | 10.45-12.15En-Occ Epidemiology(Dr.Thanawadee) | 13.00-14.30Applied Epidemiology for NCD.(Dr.Auttakiat) | 14.45-16.15Injury Epidemiology(Dr.Phathai) |
| **Thu 2****July** | 9.00-10.30Public Health Risk Assessment(Dr.Patcharin) | 10.45-12.15 Ethical Concerns in Outbreak Investigation(Dr.Wanna) | 13.00- 16.00Basic Computer Skills for Field Epidemiologist(Dr.Rapeepong, Dr.Natthaprang) |
| **Fri 3****July** | 8.30-9.00Post-test | 9.00-12.00Presentation 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.**