**Tanta University Environmental Forum**

**“Workshop for Basics data collection, presentation and statistical analysis in research”**

***Accredited by the American Association of Continued Medical Education by 18 hours***

**Organized by**

**Public Health & Community Medicine Department**

**Faculty of Medicine – University of Tanta**

**Workshop coordinator**

**Dr. Ibrahim Ali Kabbash**

***Professor of Public Health & Community Medicine***

***Faculty of Medicine – University of Tanta***

* **Background**:
* This is a three days’ workshop designed to familiarize trainees with the basic method of data collection, presentation and statistical analysis of research results.
* **Objectives of the training:**
* Recognize different types of variables and scale of variables measurement
* Acquire the skills of entering and dealing with data using excel sheet.
* Choose and apply the proper method for data presentation.
* Understand the concept of normal distribution, statistical analysis, significance and none significance of observations and p value.
* Decide when to use parametric and non-parametric tests of significance.
* Choose the proper test of significance and interpret correctly the results of the test.
* Perform critical appraisal of research results or published researches.
* **Target trainees:**
* Postgraduate and undergraduate students interested in research implementation in the following faculties:
* ***Medicine***
* ***Nursing***
* ***Dentistry***
* ***Pharmacy***
* **Workshop Duration:**
* Three days; "6 hours per day with a total of 18 hours"
* **Venue of training:**
* Faculty of Medicine Public Health Department, fourth floor
* **Registration:**
* Through contact with **Ms Sara at Public Health Department**; **mobile**: **01008542462**.
* Number of trainees will be limited to 25 only and priority will be given according to priority of registration.
* Registration is essential prior end of December, 2019 with payment of 100 pound of registration fee.
* Complete registration fees should be paid before 31st January 2020.
* Cancellation of registration is possible before January 1st after that date the 100 pounds are unrefundable.
* **Date of workshop: 22-24 February , 2020**

**Training program contents**

**"First day"**

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| **Timing** | **Topic** | **Facilitator** |
| **9:00-9:30** | **Registration and opening** |  |
| **9:30-10:30** | **Type of variables and scales of measurement** | Dr Kabbash |
| **10:30-11:30** | **Principles of data entry of variables in excel sheets** | Dr Sana Abdou |
| **11:30-12:00** | **Group work in data entry** | Dr Kabbash  Dr Sana Abdou |
| **12:00-12:30** | ***Break*** |  |
| **12:30-1:00** | **Group work presentation** | Dr Kabbash  Dr Sana Abdou |
| **1:00-1:45** | **Methods of presentation of categorical data** |  |
| **1:45-2:30** | **Methods of presentation of numerical variables** | Dr Salwa Atlam |
| **2:30-3:00** | **Wrap up and closing** |  |

**Training program contents**

**"Second day"**

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| **Timing** | **Topic** | **Facilitator** |
| **9:00-9:30** | **Summarization of day one** | Dr Kabbash |
| **9:30-10:30** | **The concept of normal distribution** | Dr Kabbash |
| **10:30-11:15** | **The concept of statistical significance and p value** | Dr Kabbash |
| **11:15-12:00** | **Parametric and non-parametric tests of significance** | Dr Kabbash |
| **12:00-12:30** | **Break** |  |
| **12:30-2:00** | **Comparing mean values** | Dr Abouzid |
| **2:00-3:00** | **Risk estimates** | Dr Abouzid |
| **3:00-3:15** | **Wrap up and closing** |  |

**Training program contents**

**"Third day"**

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| **Timing** | **Topic** | **Facilitator** |
| **9:00-9:30** | **Summarization of day two** | Dr Kabbash |
| **9:30-10:30** | **Chi square tests** | Dr Abouzid |
| **10:30-11:15** | **Correlation** | Dr Kabbash |
| **11:15-12:00** | **Tests of validity** | Dr Kabbash |
| **12:00-12:30** | **Break** |  |
| **12:30-1:30** | **ROC curve** | Dr Kabbash |
| **2:00-3:30** | **Application of tests of significance** | Dr Kabbash  Dr Sana Abdou |
| **3:15-3:30** | **Wrap up and closing** |  |