Biostatistics in public health : part II

Titulaires
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Mnémonique du cours
SAPU-L6526

Crédits ECTS
5 crédits

Langue(s) d'enseignement
Anglais

Période du cours
Deuxième quadrimestre

Campus
Erasme

Contenu du cours

AA.1 - Sampling Methods

Methods of sampling; sample size computation (alignment with objectives; statistical components related to the sampling plan); Calculation of weights and partial non-response; Parameters to be taken into account at the time of statistical analyses; real-life examples.

AA.2 - Regression analysis

Basic concepts and methods of statistics with illustrations from health sciences: multivariate general linear models and multivariate logistic models.

Objectifs (et/ou acquis d'apprentissages spécifiques)

To provide an understanding of concepts in statistical sampling methods and regression analysis. Emphasizes applications in health sciences. The course fosters ability of students to select relevant analysis techniques, synthesize knowledge, and apply insights to address public health problems.

Méthodes d'enseignement et activités d'apprentissages

AA.1 – Biostatistics – Sampling Methods – The course consists of state of the art lectures and practical exercises.

AA.2 - Biostatistics – Regression Analysis – The course consists of state of the art lectures, interactive case presentations, group discussions and practical exercises.

Contribution au profil d'enseignement

Contribution to SKILL 1. Applying a corpus of pluridisciplinary methodological knowledge to the analysis of various public health issues , specifically «Analyse data gathered using appropriate methods» and «Evaluate the quality and limits of the methods used to gather, save, analyse, and share research data»

Références, bibliographie et lectures recommandées

See recommendations given during the lessons.

Support(s) de cours

Université virtuelle

Autres renseignements

Lieu(x) d'enseignement

Erasme

Contact(s)

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Méthode(s) d'évaluation

Autre et Examen écrit

Méthode(s) d'évaluation (complément)

AA.1 – Biostatistics – Sampling Methods – Sitting exam (theoretical part and applied part).

AA.2 - Biostatistics – Regression Analysis – Sitting exam

Construction de la note (en ce compris, la pondération des notes partielles)

AA.1 - Biostatistics – Sampling Methods : Theoretical part (50%) and applied part (50%) (weight in the final mark: 1/3)

AA.2 - Biostatistics – Multivariate Statistics : 100% sitting exam (weight: 2/3)

The two units are independent and to pass them at least 10/20 must be obtained for each of them separately. Only the failed sub-part(s) must be retested during the second session.

Langue(s) d'évaluation principale(s)

Anglais

Programmes

Programmes proposant ce cours à l'école de Santé publique

MS-STME | Master de spécialisation en public health methodology | bloc U