

## **REGULATIONS FOR THE POSTGRADUATE DIPLOMA IN PUBLIC HEALTH (PDipPH)**

*(See also General Regulations)*

### **M.97 Admission requirements**

To be eligible for admission to the programme leading to the Postgraduate Diploma in Public Health, a candidate shall:

- (a) possess the relevant necessary requirements which comply with the General Regulations;
- (b) hold a Bachelor's degree with honours or the degrees of MBBS of this University, or another qualification of equivalent standard from this University or from another University or comparable institution accepted for this purpose;
- (c) obtain a score of 550 or above in the Test of English as a Foreign Language (TOEFL), within two years before submission of the application, if seeking admission on the basis of a qualification from a University or comparable institution outside Hong Kong of which the language of teaching and/or examination is not English; and
- (d) satisfy the examiners in a qualifying examination, if required.

### **M.98 Qualifying examination**

- (a) A qualifying examination may be set to test the candidate's formal academic achievement or his/her ability to follow the course of study prescribed. It shall consist of one or more written papers or their equivalent and may include a project report.
- (b) A candidate who is required to satisfy the examiners in a qualifying examination shall not be permitted to register until he or she has satisfied the examiners in the examination.

### **M.99 Award of diploma**

To be eligible for the award of the Postgraduate Diploma in Public Health, a candidate shall:

- (a) comply with the General Regulations; and
- (b) complete the curriculum and satisfy the examiners in accordance with the regulations set out below.

Candidates may choose to exit the programme after having successfully completed a minimum of 100 hours of the coursework component and be considered for the award of a Postgraduate Certificate in Public Health.

### **M.100 Length of curriculum**

The curriculum shall extend over not less than one academic year of full-time study or two calendar years of part-time study, with a minimum of 200 hours prescribed work.

Holders of the Postgraduate Diploma in Public Health may apply for admission to the Master of Public Health programme after a break of at least one year and not more than five years from graduating from the programme.

### **M.101 Completion of curriculum**

To complete the curriculum, a candidate shall:

- (a) follow instruction in the syllabus prescribed for the programme and complete satisfactorily all required written, practical or clinical work; and
- (b) satisfy the examiners in the modules by continuous assessments and/or written examinations.

Candidates who fail to fulfil the requirements within the prescribed maximum period of study shall be recommended for discontinuation under the provision of General Regulation G12, except that candidates who are unable because of illness or circumstances beyond their control to complete the requirements within the prescribed maximum period of study, may apply to the Board of Studies for permission to extend their period of studies.

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### **M.102 Module selection**

Selection of modules shall be made within the curriculum structure delineated for each concentration, in consultation with the taught course co-ordinator and subject to the approval of the Board of Studies.

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### **M.103 Examinations**

- (a) A candidate who failed to satisfy the examiners in a module may be permitted:
    - (i) to attend a supplementary examination; or
    - (ii) to re-take the concentration module and the prescribed examination(s).
  - (b) Candidates who are not permitted to present themselves for re-examination in any subject or subjects in which they have failed to satisfy the examiners shall be recommended for discontinuation of studies under General Regulation G12.
  - (c) Candidates who failed to satisfy the examiners in a second attempt in the modules shall be recommended for discontinuation of studies under the provisions of General Regulation G12.
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### **M.104 Examination results**

At the conclusion of the examination a pass list shall be published. A distinction may be awarded to candidates who have demonstrated outstanding performance in the programme.

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## **SYLLABUS FOR THE POSTGRADUATE DIPLOMA IN PUBLIC HEALTH**

Candidates are required to choose one of the four concentrations below:

### **Concentration I: Public Health Practice**

Candidates must choose 8 of 12 core modules listed below and 2 additional elective modules from the MPH module list (Appendix I).

#### **MODULE 1 – CTCE 6030 Advanced epidemiological methods (20 hours)**

Epidemiological survey design and methods, occupational epidemiology, environmental epidemiology, nutritional epidemiology, molecular and genetic epidemiology, infectious disease epidemiology, randomised controlled trials, systematic review and meta analysis.

## **MODULE 2 – CMED 6200 Epidemiology and critical appraisal (20 hours)**

Epidemiology: definitions, uses, concepts of health, disease and risk factors; measurements: rates, proportions, variation, validity and reliability; Sources of information and vital statistics; descriptive epidemiology: person, place and time; study designs in epidemiology; screening, prevention, and evaluation; critical appraisal, meta-analysis and causality.

## **MODULE 3 – CMED 6400 Evidence-based practice: an introduction to clinical epidemiology and decision analysis (20 hours)**

Evidence-based practice (EBP) – What is it and why?; Where is the evidence? Searching the evidence-based literature; What should we do with the evidence? The EBP toolbox; Is the evidence valid? Critical appraisal of the evidence (diagnosis and screening); Is the evidence valid? Critical appraisal of the evidence (therapy); Is the evidence valid? Critical appraisal of the evidence (prognosis); How do we deal with different pieces of evidence? Systematic reviews and meta-analyses; How can we disseminate the evidence? Clinical practice guidelines and consensus statements; Does EBP matter in Hong Kong? EBP and knowledge management in the Hospital Authority; Are we practising according to the evidence? Evaluation of personal and programme performance.

## **MODULE 4 – CMED 6204 Health and society (20 hours)**

This module provides an overview of the field of medical sociology and will focus on the basic concepts of health and illness in context including; socio-cultural influence on responses to illness and health care utilisation; social inequalities in health; social institutions and health care; relationships between health care professionals and patients; concept of deviance and social control in health and illness; medicalisation and everyday life and political economy and health.

## **MODULE 5 – CMED 6900 Health care systems and policy (20 hours)**

Policy, public and health policy: an introduction; The ethical basis of policy formulation; Health systems: what, why and how?; Macroeconomics and health policy I: concepts; Macroeconomics and health policy II: UK and Canada; Macroeconomics and health policy III: US and Singapore; Case study: Hong Kong SAR; Microeconomics and health policy I: decision sciences; Microeconomics and health policy II: applications; Social inequalities and health.

## **MODULE 6 – CMED 6902 Health economics for public health (20 hours)**

This module introduces basic economic concepts to health care professionals. Topics include supply and demand, opportunity cost, efficiency and rationing of health care. The module emphasizes the uses and limitations of the economic approach, with applications to health and medical care.

## **MODULE 7 – CMED 6206 Health promotion and health education (20 hours)**

This course will be organized into two sections. The first section will provide students with a broad definition and understanding of health and health promotion at the individual, small group, community, and societal levels. Students will examine different theoretical models for health promotion in terms of their different aims, methods, and means of evaluation. A major emphasis is to critically examine the influences of socioeconomic environment on health and health promotion. The second section will focus on identifying and analyzing opportunities for and barriers to promoting health and wellness among individuals and population. Students will assess and evaluate a variety of approaches and actions that form the basis of a strategic operation for promoting individual and population health. (Students registering for the MPH in Psycho-oncology will focus on health promotion targets in cancer prevention and health promotion in cancer sufferers.)

**MODULE 8 – CMED 6201 Principles of public health (20 hours)**

History, concepts and concerns of public health, determinants of health, public health policies, health care systems, measurement of health and needs, public health advocacy, control of disease and health problems, health promotion. The sessions are based on the study of either historical or contemporary global health problems using a wide range of different types and sources of information.

**MODULE 9 – CMED 6704 Psychosocial issues in health and illness (20 hours)**

This course provides a comprehensive introduction to some core topics in understanding of the roles of psychological and social processes in relation to health and illness. This course will illustrate the interactions between cognition, behaviour, social environment, health and illness.

**MODULE 10 – CMED 6207 Research methods in health care (20 hours)**

Principal types of research methods used in evaluation and audit; framing objectives, quantitative and qualitative approaches to evaluation; survey methods; designing questionnaires; sampling, validity, and reliability; measuring outcomes; using examples from health care and health programme evaluation.

**MODULE 11 – CMED 6100 Statistical methods (20 hours)**

Statistics in clinical practice, measures for location and spread; normal distribution; probability and binomial distribution, logic in statistical inference; significance tests on the means, association and correlation; simple regression analysis; multiple regression; analysis of variance; logistic regression; survival analysis; non-parametric methods; sample size determination.

**MODULE 12 – CMED 6202 The practice of public health (20 hours)**

The content of this module aims to promote the application of public health sciences to a wide range of common problems and issues. Students will be expected to integrate the diverse knowledge and skill requirements of a competent public health practitioner in their approach to problem solving. Each session will include one or more problems which can be used to illustrate the wide range of disciplines applicable (from an evidence based perspective) to the practice of public health. The module will also focus on the presentation of solutions to specific problems and support the preparation of candidates for international professional examinations in public health medicine.

**Concentration II: Epidemiology and Clinical Effectiveness**

Candidates must choose 8 of 12 core modules listed below and 2 additional elective modules from the MPH module list (Appendix I).

**MODULE 1 – CMED 6401 Advanced clinical epidemiology and decision analysis (20 hours)**

Introduces the following topics: decision analysis methods relevant to clinical decision making and clinical research; the use of probability to express uncertainty; Bayes theorem and evaluation of diagnostic test strategies; sensitivity analysis; utility theory and its use to express patient preferences for health outcomes; cost-effectiveness analysis in clinical research and health policy; and uses and limits of decision analysis and cost-effectiveness in clinical decision making and research design.

**MODULE 2 – CTCE 6030 Advanced epidemiological methods (20 hours)**

Epidemiological survey design and methods, occupational epidemiology, environmental epidemiology, nutritional epidemiology, molecular and genetic epidemiology, infectious disease epidemiology, randomised controlled trials, systematic review and meta analysis.

**MODULE 3 – CTCE 6020 Advanced statistical methods I (20 hours)**

Analysis of variance and covariance, factor analysis, logistic regression, survival analysis, curve fitting.

**MODULE 4 – CTCE 6040 Advanced statistical methods II (20 hours)**

Analysis for count data, analysis for contingency tables, longitudinal data analysis, censored data analysis, survey data analysis.

**MODULE 5 – CMED 6200 Epidemiology and critical appraisal (20 hours)**

Epidemiology: definitions, uses, concepts of health, disease and risk factors; measurements: rates, proportions, variation, validity and reliability; Sources of information and vital statistics; descriptive epidemiology: person, place and time; study designs in epidemiology; screening, prevention, and evaluation; critical appraisal, meta-analysis and causality.

**MODULE 6 – CMED 6205 Epidemiology of important health conditions (20 hours)**

Tobacco-related diseases, cancer and chronic disease, infectious disease, lifestyle factors (smoking, alcohol, diet, exercise) and health, pollution and health, accidents and injury, occupational hazards and diseases, psychological factors and health.

**MODULE 7 – CMED 6400 Evidence-based practice: an introduction to clinical epidemiology and decision analysis (20 hours)**

Evidence-based practice (EBP) – What is it and why?; Where is the evidence? Searching the evidence-based literature; What should we do with the evidence? The EBP toolbox; Is the evidence valid? Critical appraisal of the evidence (diagnosis and screening); Is the evidence valid? Critical appraisal of the evidence (therapy); Is the evidence valid? Critical appraisal of the evidence (prognosis); How do we deal with different pieces of evidence? Systematic reviews and meta-analyses; How can we disseminate the evidence? Clinical practice guidelines and consensus statements; Does EBP matter in Hong Kong? EBP and knowledge management in the Hospital Authority; Are we practising according to the evidence? Evaluation of personal and programme performance.

**MODULE 8 – CMED 6902 Health economics for public health (20 hours)**

This module introduces basic economic concepts to health care professionals. Topics include supply and demand, opportunity cost, efficiency and rationing of health care. The module emphasizes the uses and limitations of the economic approach, with applications to health and medical care.

**MODULE 9 – CMED 6904 Introduction to health economics (20 hours)**

This module introduces basic economic concepts to health care professionals. It is aimed to develop the students' foundation in their advancement to other health economics modules. Topics include opportunity cost, marginal analysis, utility and production functions, market supply-demand, competition analysis, asymmetric information, moral hazard, adverse-selection, equity and efficiency.

**MODULE 10 – CMED 6201 Principles of public health (20 hours)**

History, concepts and concerns of public health, determinants of health, public health policies, health care systems, measurement of health and needs, public health advocacy, control of disease and health problems, health promotion. The sessions are based on the study of either historical or contemporary global health problems using a wide range of different types and sources of information.

**MODULE 11 – CMED 6207 Research methods in health care (20 hours)**

Principal types of research methods used in evaluation and audit; framing objectives, quantitative and qualitative approaches to evaluation; survey methods; designing questionnaires; sampling, validity, and reliability; measuring outcomes; using examples from health care and health programme evaluation.

**MODULE 12 – CMED 6100 Statistical methods (20 hours)**

Statistics in clinical practice, measures for location and spread; normal distribution; probability and binomial distribution, logic in statistical inference; significance tests on the means, association and correlation; simple regression analysis; multiple regression; analysis of variance; logistic regression; survival analysis; non-parametric methods; sample size determination.

**Concentration III: Administrative Medicine**

Candidates must choose 8 of 12 core modules listed below and 2 additional elective modules from the MPH module list (Appendix I).

**MODULE 1 – CMED 6400 Evidence-based practice: an introduction to clinical epidemiology and decision analysis (20 hours)**

Evidence-based practice (EBP) – What is it and why?; Where is the evidence? Searching the evidence-based literature; What should we do with the evidence? The EBP toolbox; Is the evidence valid? Critical appraisal of the evidence (diagnosis and screening); Is the evidence valid? Critical appraisal of the evidence (therapy); Is the evidence valid? Critical appraisal of the evidence (prognosis); How do we deal with different pieces of evidence? Systematic reviews and meta-analyses; How can we disseminate the evidence? Clinical practice guidelines and consensus statements; Does EBP matter in Hong Kong? EBP and knowledge management in the Hospital Authority; Are we practising according to the evidence? Evaluation of personal and programme performance.

**MODULE 2 – CMED 6906 Financial management (20 hours)**

Introduction to public sector financial management. Basic concepts: definitions of capital and revenue expenditure; the basic structure of income statements, use of balance sheets, and cash flow statements, the role of internal/external audit, value for money and corporate governance. Cost accounting and mechanisms for financial control. Introduce the concept of a business plan. Using financial information to inform decision making. Roles of directors of finance & others concerned with management of resources. Budget preparation and budgetary control.

**MODULE 3 – CMED 6204 Health and society (20 hours)**

This module provides an overview of the field of medical sociology and will focus on the basic concepts of health and illness in context including; socio-cultural influence on responses to illness and health care utilisation; social inequalities in health; social institutions and health care; relationships between health care professionals and patients; concept of deviance and social control in health and illness; medicalisation and everyday life and political economy and health.

**MODULE 4 – CMED 6900 Health care systems and policy (20 hours)**

Policy, public and health policy: an introduction; The ethical basis of policy formulation; Health systems: what, why and how?; Macroeconomics and health policy I: concepts; Macroeconomics and health policy II: UK and Canada; Macroeconomics and health policy III: US and Singapore; Case study: Hong Kong SAR; Microeconomics and health policy I: decision sciences; Microeconomics and health policy II: applications; Social inequalities and health.

**MODULE 5 – CMED 6902 Health economics for public health (20 hours)**

This module introduces basic economic concepts to health care professionals. Topics include supply and demand, opportunity cost, efficiency and rationing of health care. The module emphasizes the uses and limitations of the economic approach, with applications to health and medical care.

**MODULE 6 – CMED 6901 Health services management (20 hours)**

An introduction to organisational and management theory and the principles of organisational design, describe and apply measures to assess management effectiveness and utilisation of health services, apply principles of management decision making, describe and discuss the role of leadership, managing change and change theory in successful organisations.

**MODULE 7 – CMED 6904 Introduction to health economics (20 hours)**

This module introduces basic economic concepts to health care professionals. It is aimed to develop the students' foundation in their advancement to other health economics modules. Topics include opportunity cost, marginal analysis, utility and production functions, market supply-demand, competition analysis, asymmetric information, moral hazard, adverse-selection, equity and efficiency.

**MODULE 8 – CMED 6201 Principles of public health (20 hours)**

History, concepts and concerns of public health, determinants of health, public health policies, health care systems, measurement of health and needs, public health advocacy, control of disease and health problems, health promotion. The sessions are based on the study of either historical or contemporary global health problems using a wide range of different types and sources of information.

**MODULE 9 – CMED 6908 Quality health care (20 hours)**

Methods and strategies for quality measurement in quality improvement and accountability. Measurement of clinical quality using process or outcome data. Measurement of patient expectations/experience with the health care system. Nature and causes of variation in quality, variation related to overuse, underuse and misuse of services. Strategies for changing physician and organizational practice. Traditional quality improvement techniques, regulation, credentialling education, CQI, organisational learning, systems design, managed care, practice guidelines, information systems, performance reports, mediation.

**MODULE 10 – CMED 6207 Research methods in health care (20 hours)**

Principal types of research methods used in evaluation and audit; framing objectives, quantitative and qualitative approaches to evaluation; survey methods; designing questionnaires; sampling, validity, and reliability; measuring outcomes; using examples from health care and health programme evaluation.

**MODULE 11 – CMED 6100 Statistical methods (20 hours)**

Statistics in clinical practice, measures for location and spread; normal distribution; probability and binomial distribution, logic in statistical inference; significance tests on the means, association and correlation; simple regression analysis; multiple regression; analysis of variance; logistic regression; survival analysis; non-parametric methods; sample size determination.

**MODULE 12 – CMED 6907 The practice of administrative medicine (20 hours)**

The module aims to promote the application of administrative science to a wide range of common problems and issues. Students will be expected to integrate diverse knowledge and skills in their approach to problem solving. Each session will include one or more problems which can be used to illustrate the wide range of disciplines applicable (from an evidence based perspective) to the practice of administrative medicine. The module will also support the preparation of candidates for the fellowship examination in administrative medicine.

**Concentration IV: Health Economics and Policy**

Candidates must choose 8 of 12 core modules listed below and 2 additional elective modules from the MPH module list (Appendix I).

**MODULE 1 – CMED 6905 Advanced health economics and econometric methods (20 hours)**

This module discusses selected topics in contemporary health economics. With reference to students' interest, the aim is to equip students with appropriate skills and tools to conduct quantitative research in health services and policy. Students can expect to acquire knowledge ranging from longitudinal data analysis, Monte Carlo simulation, bootstrapping, limited dependent variables and other econometric modelling in health topics such as smoking, healthcare cost projection, cost-effectiveness analysis and willingness to pay for health care.

**MODULE 2 – CMED 6200 Epidemiology and critical appraisal (20 hours)**

Epidemiology: definitions, uses, concepts of health, disease and risk factors; measurements: rates, proportions, variation, validity and reliability; Sources of information and vital statistics; descriptive epidemiology: person, place and time; study designs in epidemiology; screening, prevention, and evaluation; critical appraisal, meta-analysis and causality.

**MODULE 3 – CMED 6400 Evidence-based practice: an introduction to clinical epidemiology and decision analysis (20 hours)**

Evidence-based practice (EBP) – What is it and why?; Where is the evidence? Searching the evidence-based literature; What should we do with the evidence? The EBP toolbox; Is the evidence valid? Critical appraisal of the evidence (diagnosis and screening); Is the evidence valid? Critical appraisal of the evidence (therapy); Is the evidence valid? Critical appraisal of the evidence (prognosis); How do we deal with different pieces of evidence? Systematic reviews and meta-analyses; How can we disseminate the evidence? Clinical practice guidelines and consensus statements; Does EBP matter in Hong Kong? EBP and knowledge management in the Hospital Authority; Are we practising according to the evidence? Evaluation of personal and programme performance.

**MODULE 4 – CMED 6204 Health and society (20 hours)**

This module provides an overview of the field of medical sociology and will focus on the basic concepts of health and illness in context including; socio-cultural influence on responses to illness and health care utilisation; social inequalities in health; social institutions and health care; relationships between health care professionals and patients; concept of deviance and social control in health and illness; medicalisation and everyday life and political economy and health.



**MODULE 5 – CMED 6903 Health care financing (20 hours)**

Examines issues under discussion for health care reform: health insurance, financing, methods for controlling health care costs, incentives for hospitals and physicians, quality of care, and long-term care. Competitive versus regulatory approaches are explored, as well as the role of government and the private sector. The distributional consequences of various programs and methods receive special focus. Money is a major tool for shaping the delivery of health care, for both good and ill. This course will follow the money as it flows through provider payment systems. Topics will include payment methods for hospital care, physician, pharmaceuticals, long-term care, dental services, and new technologies. Cross-national examples including Hong Kong and China will be used occasionally to gain greater understanding of some of the challenges that face all health care systems in designing successful provider payment systems.

**MODULE 6 – CMED 6900 Health care systems and policy (20 hours)**

Policy, public and health policy: an introduction; The ethical basis of policy formulation; Health systems: what, why and how?; Macroeconomics and health policy I: concepts; Macroeconomics and health policy II: UK and Canada; Macroeconomics and health policy III: US and Singapore; Case study: Hong Kong SAR; Microeconomics and health policy I: decision sciences; Microeconomics and health policy II: applications; Social inequalities and health.

**MODULE 7 – CMED 6902 Health economics for public health (20 hours)**

This module introduces basic economic concepts to health care professionals. Topics include supply and demand, opportunity cost, efficiency and rationing of health care. The module emphasizes the uses and limitations of the economic approach, with applications to health and medical care.

**MODULE 8 – CMED 6904 Introduction to health economics (20 hours)**

This module introduces basic economic concepts to health care professionals. It is aimed to develop the students' foundation in their advancement to other health economics modules. Topics include opportunity cost, marginal analysis, utility and production functions, market supply-demand, competition analysis, asymmetric information, moral hazard, adverse-selection, equity and efficiency.

**MODULE 9 – CMED 6201 Principles of public health (20 hours)**

History, concepts and concerns of public health, determinants of health, public health policies, health care systems, measurement of health and needs, public health advocacy, control of disease and health problems, health promotion. The sessions are based on the study of either historical or contemporary global health problems using a wide range of different types and sources of information.

**MODULE 10 – CMED 6704 Psychosocial issues in health and illness (20 hours)**

This course provides a comprehensive introduction to some core topics in understanding of the roles of psychological and social processes in relation to health and illness. This course will illustrate the interactions between cognition, behaviour, social environment, health and illness.

**MODULE 11 – CMED 6207 Research methods in health care (20 hours)**

Principal types of research methods used in evaluation and audit; framing objectives, quantitative and qualitative approaches to evaluation; survey methods; designing questionnaires; sampling, validity, and reliability; measuring outcomes; using examples from health care and health programme evaluation.

**MODULE 12 – CMED 6100 Statistical methods (20 hours)**

Statistics in clinical practice, measures for location and spread; normal distribution; probability and binomial distribution, logic in statistical inference; significance tests on the means, association and correlation; simple regression analysis; multiple regression; analysis of variance; logistic regression; survival analysis; non-parametric methods; sample size determination.

## Appendix I

**MPH Module List**

<b>Course Code</b>	<b>Module Name</b>
CMED 6401	Advanced clinical epidemiology and decision analysis
CTCE 6120	Advanced course in SAS
CTCE 6030	Advanced epidemiological methods
CMED 6905	Advanced health economics and econometric methods
CTCE 6020	Advanced statistical methods I
CTCE 6040	Advanced statistical methods II
CMED 6706	Clinical interpersonal skills
CMED 6705	Clinical practicum
CTCE 6080	Clinical trial protocol, study documents and quality of life
PAED 6100	Clinical trials research methodology
CTCE 6060	Critical appraisal and meta-analysis of clinical trials
CMED 6200	Epidemiology and critical appraisal
CMED 6205	Epidemiology of important health conditions
CTCE 6090	Ethics, law, contracts, budgets and finance
CMED 6400	Evidence based practice: an introduction to clinical epidemiology and decision analysis
CMED 6906	Financial management
CMED 6701	Fundamental psychosocial aspects of cancer
CTCE 6070	Good clinical practice (GCP) and study site management
CMED 6204	Health & society
CMED 6903	Health care financing
CMED 6900	Health care systems and policy
CMED 6902	Health economics for public health
CMED 6206	Health promotion and health education
CMED 6901	Health services management
CMED 6210	Infectious disease epidemiology and modelling
CMED 6904	Introduction to health economics
CTCE 6110	Introduction to SAS
CMED 6209	Molecular and genetic epidemiology
CMED 6702	Palliative care and bereavement
CMED 6201	Principles of public health
CMED 6703	Psychological aspects in the management of common clinical problems
CMED 6704	Psychosocial issues in health and illness
CMED 6908	Quality health care
CMED 6207	Research methods in health care
CMED 6208	Risk: perception, decisions and communication
CMED 6100	Statistical methods
CTCE 6010	Statistical practice in clinical trials
CTCE 6050	Statistical principles for clinical trials
CTCE 6100	Study site management practice
CMED 6907	The practice of administrative medicine
CMED 6202	The practice of public health