

LEVEL 1 PROGRAM**Day 1 Course Schedule**

TIME	TOPIC	FACULTY	SLIDES
8:30 – 9:00 AM	Introduction to Course and Faculty: Plenary	Sonia	
9:00 – 9:30AM	Selecting a Research Question: Plenary L1 and L2	Sonia	Slides: Research Question
9:30 – 10:30 AM	Expectations, Student Introduction & Research Interest	Trish	Slides: Introduction
10:30 – 11:00 AM	Tea/Coffee Break	Group Assignments	
11:00 – 12:00 PM	Study Design I: Overview and Cohort Studies	Trish	Slides: Study Design I
12:00 – 1:30 PM	Lunch		
1:30- 2:00 PM	Incidence	Trish	Slides: Incidence
2:00 – 3:45 PM	Small Groups: discussion on research question	All Faculty	
3:45-4:00 PM	Tea/Coffee Break		
4:00 – 4:30 PM	Accessing literature from PubMed: Conducting focused literature searches	Trish	Slides : PubMed
4:30 – 5:30 PM	Small Groups: Report back to full group with FINER criteria	All Faculty	
Homework	<ol style="list-style-type: none">1. Develop a draft of Research Question2. Select, read and review one journal article related to the research question3. Read Hulley Chapter 1,2, 7		Due Tuesday AM

Day 2 Course Schedule

TIME	TOPIC	FACULTY	SLIDES
8:30 – 8:45 AM	Quiz	Canan	
8:45 – 9:45 AM	Study Design II: Cross Sectional Study Design/ Prevalence	Sonia	Slides: Study Design II
9:45 – 10:45 AM	Statistics I: Role of Statistics in Medical Research	Mustafa	Slides: Biostat 1
10:45 – 11:00 AM	Tea/Coffee Break		
11:00 – 12:00 PM	Development of a Research Protocol	Sonia	Slides: Research Protocol
12:00 – 1:30 PM	Lunch		
1:30 – 2:30 PM	Population and Sample Selection		Slides: Population Selection
2:30 – 3:15 PM	Study Design III: Case-Control Studies (interactive example)		Slides: Study Design III
3:15-3:45 PM	Tea/Coffee Break		
3:45 – 5:45 PM	Small Groups: Commence work on research protocol	All Faculty	
Homework	<ol style="list-style-type: none"> 1. Decision on Final Research Question 2. Decision on Study Design 3. Write Protocol and Powerpoint: Title, Research Question, Significance, Design, Subjects (inclusion/exclusion) 4. Read Hulley Chapters 7, 8, 17 		Due Weds AM

Day 3 Course Schedule

TIME	TOPIC	FACULTY	SLIDES
8:30 – 8:45 AM	Quiz	Canan	
8:45 – 9:45 AM	Statistics 2: Confidence Intervals	Mustafa	Slides: Biostat 2
9:45 – 10:45 AM	Sources of Error: Bias, Confounding		Slides: Error
10:45 –11:00 AM	Tea/Coffee Break		
11:00 – 12:00 PM	Measures of Association		Slides: Measures of Association
12:00 – 1:30 PM	Lunch		
1:30 – 2:30 PM	Questionnaires		Slides: Questionnaires
2:30- 3:30 PM	Respiratory Disease Outcomes	Sonia	Slides: Respiratory Outcomes
3:30- 3:45 PM	Tea/Coffee Break		
3:45 – 5:00 PM	Small Groups: Further work on protocols	All Faculty	
5:15-6:00 PM	Progress report from small groups	All Faculty	
Homework	<ol style="list-style-type: none"> 1. Write Protocol: subjects, recruitment, outcome, exposure, confounders, data collection, quality control 2. Prepare Powerpoint slides and written report 3. Read Hulley Chapter 3, 4, 9, 15 &17 		Due Thurs AM

Day 4 Course Schedule

TIME	TOPIC	FACULTY	SLIDES
8:30 – 9:30 AM	Ethics: Plenary	Sonia	
9:30 – 9:45 AM	Quiz	Canan	
9:45 – 10:45 AM	Statistics 3: Fundamentals of Testing	Mustafa	Slides: Biostat 3
10:45 – 11:00 AM	Tea/Coffee Break		
11:00 – 12:00 PM	Small Groups: Further work on protocol	All Faculty	
12:00 – 1:30 PM	Lunch		
1:30 – 2:30 PM	Sample Size and Power Calculations	Mustafa	
2:30 – 3:30 PM	Study Design IV: Clinical Trials		
3:30-3:45 PM	Tea/Coffee Break		
3:45 – 6:00 PM	Small Groups: Further work on protocol, Sample Size Calculations	All Faculty	
Homework	<ol style="list-style-type: none"> 1. Complete Protocol: statistical issues, hypothesis, sample size, power approach, budget 2. Prepare final Powerpoint slides 3. Complete draft of 2-page protocol 4. Hulley Chapter 5, 6, 10, 11, 14 		Due Friday AM

Day 5 Course Schedule

TIME	TOPIC	FACULTY	SLIDES
8:30- 9:30 AM	Sonia's Secrets to Academic Success	Sonia	
9:30 – 9:45 AM	Quiz	Canan	
9:45 – 10:45 AM	Statistics 4: Which test to use?	Mustafa	Slides: Biostat 4
10:45 – 11:00 AM	Tea/Coffee Break		
11:00 – 12:00 PM	Small Groups: Finalize Protocols	All Faculty	
12:00 – 1:30 PM	Lunch		
1:30 – 1:45 PM	Complete Survey Monkey	Trish	
1:45 – 3:30 PM	Small Groups: Finalize Presentation and Protocols, Allocate speaking roles to each member	All Faculty	
3:30 – 3:45 PM	Tea/Coffee Break		
3:45 – 5:45 PM	Small Groups: Practice Presentations to Faculty	All Faculty	
Due Friday PM	Submit final 2-page protocol		
Homework	Small Groups: Practice delivering presentation		

Day 6 Course Schedule

TIME	TOPIC	FACULTY	READINGS* & SLIDES
8:30 – 10:30 AM	Presentation of Protocols: Levels 1, 2 and 3/4	All Faculty	
10:30-10:45 AM	Tea/Coffee Break		
10:45-12:00 PM	Presentation of Protocols: Levels 1, 2 and 3/4	All Faculty	
12:00 – 1:00 PM	GRADUATION (Presentation of Certificates)	All Faculty	
1:00-	Lunch		

LEVEL 2 PROGRAM

Day 1		Day 2	Day 3	Day 4	Day 5	Day 6
Module 1 (08:30-10:30)	Welcome and Introductions (08:00-09:00) Selecting a Good Research Question (Sonia; 09:00-09:30)	Diagnosis (Hannah) Hulley Ch 12 ROC Review Bewick Diagnosis Handout Diagnosis A and B	Treatment (Cenk) Hulley Ch 10 Therapy A and B	Data Management and Collection (Hannah)	Paper (P6) Damon Survival OR Design Groups Meet	Design groups present
	Overview of study designs. SOPs, Registration, Reporting of Results (Damon; 09:30-10:30) Hulley Ch 1			Paper (P4) (Cenk) Treatment	Review (ALL)	
Morning Break						
Module 2 (10:45-12:45)	Developing your research proposal (Sibel) Hulley Ch 2	Paper (P1) Damon Bias, Confounding, Chance	Approaches to confounding: matching, stratification, randomization, and models (Hannah) Hulley Ch 9 Multivariate analysis review - Katz	Survival analysis (Damon) Survival Review – Bewick Survival - Stolberg	Learning from your own mistakes: instructors present their biggest research mistakes (ALL)	Design groups present
	Building your research proposal: measuring variables (Outcome, Exposure, Covariates) (Ahmet) Hulley Ch 3 and 4	Quick Review: Basic Statistics p values and bivariate statistics (Ahmet) Stat Reviews 1-5	Paper (P2) Hannah Diagnosis		Clin Epi Jeopardy	
Lunch						
Module 3 (13:45-15:45)	Bias, confounding, chance (Damon) Hulley Ch 9	Sample Size and Power (Damon) Hulley Ch 6 Power Calculations	Assessing attitudes and behavior- (Sibel) Survey Review - Burns	Paper (P5): Survey (Sibel)	Design groups meet	
		Prognosis (Ahmet) ROC Review – Bewick Prognosis	Paper (P3) Prognosis (Ahmet) OR Design Groups Meet	Design groups meet		
Afternoon Break						
Module 4 (16:00-18:00)	Design Groups Meet: Elaborate your question and study design. Clarify your subjects and variables.	Design Groups Meet: Define your statistical analysis and calculate your sample size	Design Groups Meet:	Design Groups Meet	Design groups meet	