# Summary of comments

## Comments on overall project

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| **#** | **Part** | **Summary of comment** |
| 1 | Quiz | * For the self-evaluation quizzes, we need to provide some guidelines to proceed with the quiz and help them achieve their learning goal. |
| 2 | Section and sub-sections | * Since we are creating an open book, we need to add a book summary/introduction and then add a section & sub-sections on the project details. * The book title could be changed to “Mastering Advanced Epidemiological Methods: Practical Applications and Insights” * Use more clear subtitles |
| 3 | Contributor list | * Dr. Karim’s affiliation is incorrect, name should start with Dr. * Dr. Suborna Ahmed’s affiliation can be written as “Forest Resources Management Department, UBC * UBC School of Population and Public Health can be updated as School of Population and Public Health, UBC * UBC Department of Emergency Medicine can be updated as Department of Emergency Medicine, UBC * UBC Faculty of Arts can be updated as Faculty of Arts, UBC |
| 4 | Description/summary | * Each section requires more details for readability * Detailed introductory page for each module * Before adding an R coded chunk, provide a brief description, and after (before) showing the outputs describe them as well to help readers. * At least one sentence at the end of each analysis section so that readers can understand what the output shows. * A brief definition/explanation of terminologies or the description of the method at the beginning of the section would be helpful, e.g., cross-validation, bootstrapping, mediator, collider, Z-bias, collapsibility, squared Spearman correlation coefficients. * At the end of each chapter, it would be nice to add a summary or recap of the main ideas and key points covered. |
| 5 | Resizing and readability | * Proof-reading required for each module * Some of the figure labels are difficult to read and could potentially do well with some resizing. * Some rephrasing to improve readability, e.g., purpose under subpopulations, cross-validation |

## Editorial comments on the contents

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| **#** | **Part** | **Summary of comment** |
| 6 | Overall project | * Tenses are mixed: either use past or present tense in sentences to be consistent. * Supplementary materials could include: other websites to learn R, R cheat sheets to download, articles that applied each method well with a brief summary of the study. |
| **7** | Project summary | * Since this online book will be accessible to people all over the world, it might be helpful to start with the project summary chapter with “Advanced Epidemiological Methods open education resources are developed to….”. * Bullet points in 2nd paragraph of project summary should be list. |
| 8 | Data wrangling | * ‘Importing dataset’ and ‘Import external data’ chapters could be merged. |
| 9 | Data accessing | * ‘Importing CCHS to R’ chapter could be moved after NHANES chapters * Add a “demystifying CCHS” section |
| 10 | Research question | * Rename ‘research question’ as “creating an analytic dataset” |
|  | Predictive factors |  |
|  | Confounding and bias |  |
|  | Survey data analysis |  |
|  | Missing data analysis |  |
|  | Propensity score |  |
|  | Reporting guidelines |  |
|  | Machine learning |  |
|  | ML in causal inference |  |

## Content related comments

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| **#** | **Part** | **Summary of comment** |
| 11 | Data wrangling | * Adding section on nested loops * Provide more details on how function and loop is working * Provide description of dataset structure: what is chr? What is int? what is num? |
|  | Data accessing |  |
|  | Research question |  |
|  | Predictive factors |  |
|  | Confounding and bias |  |
|  | Survey data analysis |  |
|  | Missing data analysis |  |
| 12 | Propensity score | * A section for the introduction of propensity score methods and application could be helpful. |
| 13 | Reporting guidelines | * There is no content in this part |
|  | Machine learning |  |
|  | ML in causal inference |  |