The preparation of sterile products suitable for patient use requires specific skills, mastering of aseptic techniques and the understanding to apply these concepts into practice. Understanding these is important since sterile products are generally used by patients who are more ill compared to other patients and require admission to the hospital. They are also used by patients undergoing chemotherapy.

This project aims to enhance students' understanding of complex concepts involving parenteral / sterile products by developing interactive eLearning materials (micro-modules + instructional videos) for students to access before, during and after class. This will enable classroom time to be used for discussions on the application of concepts. We also hoped that by filming the local public hospital environment, students can also have a broader understanding of how these concepts are practiced outside the classroom.

Our team developed 6 micro-modules which focus on each key aspect involved in sterile compounding. We used incorporated videos, narrated contents and quizzes into each module. From the modules, students can tour the inside of a local hospital's clean room, observe the logistics of how sterile preparations are made, what preparations are procedures are necessary to prepare sterile products and view demonstration videos of the best technique to prepare these products. The micro-modules also cover the span of parenteral products such as an introduction to the different types of injectable solutions, as well as the different routes of parenteral administration. These micro-modules were incorporated into the course website to build upon the existing library of micro-modules focusing on pharmaceutical preparations. CUHK students may access the micro-modules directly through the course website or via Blackboard.