

## S11-1 **Development of New Formulation for LCM**

○Shunsuke WATANABE<sup>1</sup>

<sup>1</sup>Pharmaceutical Research & Technology labs. Astellas Pharm Inc.

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Life-cycle of drugs is more than a quarter of a century from discovery of drugs to termination of production. Life-cycle management (LCM) is how to manage the life of products in a meaningful way, it become more important at pharmaceutical companies currently. In the development stage, it is important how to shorten the time of development. After launch, it is important how to shorten the time to peak sales and how to prolong the exclusivity of the products. In addition, the continuous supply of products are also included as LCM of products. LCM is, however, tended to discuss as a life extension of products, we perform the formulation research not only for life extension but also with for the convenience of end user. We developed new formulation not only formulation such as oral disintegrating tablet (ODT) and oral controlled release dosage-form (OCR), but also new packaging technology. For example, ODT is convenient to the patient with difficulty of swallowing and restriction of water intake. OCR reduced side-effect of drugs. The position of pharmaceutical technology in LCM become important over the years. We will contribute to QOL of patients with LCM of products.