Division of Clinical Pharmacy  
Department of Pharmaceutics

Outline
With functional decline of swallowing, especially elderly patients have frequently difficulty swallowing tablets and capsules. In our laboratory, a variety of materials have been investigated to prepare gel formulations with suitable characteristics for use by geriatric patients. In Japanese medical institutions, the Simple Suspension Method (SSM) is used to administer drugs via enteral feeding tubes for patients who cannot swallow. However, information on drug solubility and stability with SSM is insufficient. So we are also aiming to construct a database of solubility of many drugs with SSM.

Faculty members
Professor: Michiya Kobayashi, Ph.D.
Associate professor: Kunihiko Itoh, Ph.D.
Assistant professor/Research associate: Tetsuya Shimoyama, Ph.D.

Main research in progress
1) Analysis of dissolution behavior for various solid formulations treated with SSM
2) Monitoring of blood concentrations of drugs for Therapeutic Drug Monitoring
3) Design of suitable formulation for geriatrics and dysphagic patients using natural polysaccharide gels
4) Analysis of rheological properties of natural polysaccharides
Current publications