



# Drug Development Process - Preclinical Trials



Identifying something to target inside the body that is easy for a drug to get to and is associated to the disease/disorder being treated

Improving the Hits into Lead Compounds so that it binds and causes the desired effect and is generally more “drug-like”

Testing the Clinical Candidates in animal models to determine if they actually work as made in a living creature before moving onto human studies



Identifying starting molecules/drugs (Hits) which interacts with the target

Improving the Lead Compounds into Clinical Candidates by ensuring it will also not cause unwanted side effects and will be able to get into the body in high amounts

Submission of a special form to Health Canada for permission to begin testing the drug in humans only AFTER determining its efficacy and safety

The following infographics will describe the 6 main pre-clinical steps which occur during the development of new drugs/medicine in Canada. Please click on the appropriate arrow to learn more about each individual step in detail.