






# Semantic Medical Prescriptions

-  Persistent connection to up-to-date drug information coming from multiple dynamic data sources.
-  Drug interactions prevention → Error free prescriptions.
-  Connection of physicians, pharmacists, patients, pharmaceutical researchers and drug companies
  -  Machine understandable prescription.
  -  Patient awareness.

The screenshot displays the Aspirin application interface. A red circle highlights the main content area. The interface is divided into several sections:

- Top Navigation:** Includes tabs for "Names", "Brand Mixtures", "BioTransformation", "HalfLife", "Mechanism of Action", "Pharmacology", "Toxicity", "Drug Categories", "Food Interaction", "Drug Enzymes", and "Contraindication".
- Drug Details (Left Panel):**
  - Quantity:** A text input field containing "Quantity of the drug".
  - Dosage Form:** A dropdown menu showing "tabletOral".
  - Dosage:** A text input field containing "Dosage Quantity e.g. 250mgs".
  - Instructions:** A text area containing "Instructions on how to take the drug".
  - Buttons:** "Cancel", "Delete", and "Save".
- Drug Interactions (Bottom Left Panel):**
  - Interaction:** A table with two rows:
 

Interaction:	<b>Atenolol and Glibencamide</b>
Description:	The beta-blocker decreases the symptoms of hypoglycemia
  - Interaction:** A table with two rows:
 

Interaction:	<b>Glibencamide and Aspirin</b>
Description:	The salicylate increases the effect of sulfonylurea
  - Buttons:** "Cancel".
- Drug Details (Right Panel):**
  - Section:** "Aspirin".
  - Buttons:** "Cancel", "Delete", and "Save".
  - Contraindications:**
    - Avoid alcohol, alcohol appears to cause a 50 to 100% increases in ASA serum levels.
    - Avoid drastic changes in dietary habit.
    - Consult your doctor before taking large amounts of Vitamin K (Green leafy vegetables).
    - Take with a full glass of water.
    - Take with food to reduce irritation.
- Prescription (Bottom Right Panel):**
  - Section:** "Prescription".
  - Source Code:** "Atenolol once a day", "Captopril", "Glibencamide", "Aspirin once a day after lunch".
  - Visualization:** A diagram showing the interaction between Aspirin and Glibencamide.
  - Facts:**
    - Aspirin:** The prototypical analgesic used in the treatment of mild to moderate pain. It has anti-inflammatory and antipyretic properties and acts as an inhibitor of cyclooxygenase.

## Pharmer Prescription Writer

- 🍷 Providing Different Semantic Views.
- 🍷 Real-time Drug Tagging.
- 🍷 Drug Suggestion.
- 🍷 Automatic Drug Annotation.

