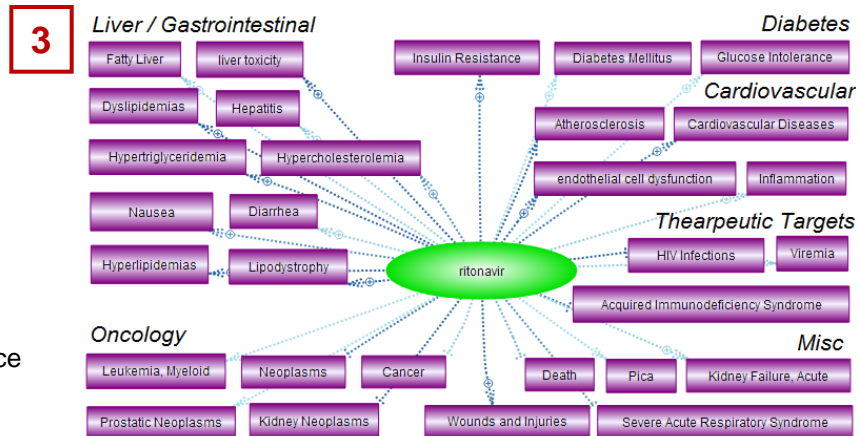# What are the known and potential side effects of my drug?

Example: What are the potential side effects of Ritonavir?

Steps to follow:
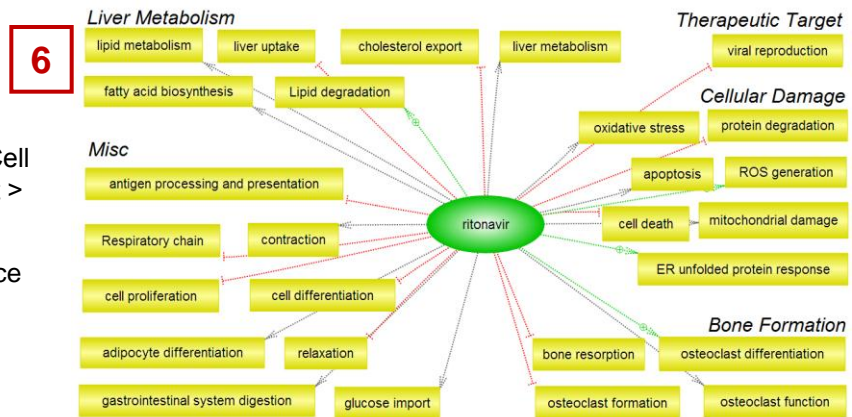
Known Side Effects – Find Diseases Associated with Ritonavir

1. Put **Ritonavir** in a new pathway.

2. Use the Build Pathway Wizard with the following settings:
Expand Pathway > Directionality "downstream" > Entity type: "Disease"
> Relation type "Regulation"

3. From the graph view, Select: Style> Active Style Sheet > By Reference Count. Switch View > Relation Table View to review relations and their reference sentences.

Potential Side Effects – Find Cell Processes Associated with Ritonavir

4. Put **Ritonavir** in a new pathway.

5. Use the Build Pathway Wizard with the following settings:
Expand Pathway > Direction of relations: "downstream" > Entity type: "Cell Process" > Relation type "Regulation". Select: Style> Active Style Sheet > By Effect

6. From the graph view, Select: Style> Active Style Sheet > By Reference Count

Both inhibitor and activator effects of Ritonavir on cell processes can be potential side-effects.

Point to consider: It is recommended to review relations having only 1 or 2 references by reading sentences supporting facts and remove any false positives from the network.

Diseases and Processes were manually grouped. Text was added to describ each of these groups. Relations are colorized by number of references. (top, Dark blue arrows indicate a higher number of references) or by effect (bottom, negative= red, positive = green). Relations supported by two or less references were removed for clarity.

PATHWAY STUDIO®
Analysis Guide 3