Extracting the Highest Phase for an Indication

In this example, we've used VantagePoint - BizInt Smart Charts Edition to normalize indications and phase terminology, and to select the sub-rows from the Drug Development Phase table for a specific indication (hepatitis C). In BizInt Smart Charts for Drug Pipelines, we run the new "Extract High Phase in Column" tool to extract the highest phase from the filtered subtable.

Subtable filtered for hepatitis C

Drug	Drug Development Phase			Drug Development Phase:Hep C			Highest Phase (All Indications)	Extracted Highest Phase (Hepatitis C)
	Indication	Phase	Country	Indication: Hep C	Phase (Arabic)	Country		
interleukin-2, Medusa, Flamel	Cancer, renal	Phase II		hepatitis C	No Development Reported		Phase 2	No Development Reported
	Cancer, melanoma	Phase II						
	Infection, HIV/AIDS	No Development Reported						
	Infection, hepatitis-C virus	No Development Reported						
Aldesleukin	Malignant melanoma	Marketed	Canada, USA	hepatitis C	Discontinued	Spain	Launched	Discontinued
	Renal cancer	Marketed	Asia, Canada, European Union, Israel, South America, South Korea, USA					
	Renal cancer	Registered	Australia					
	Cancer	Phase II	USA					
	Non-Hodgkin's lymphoma	Discontinued(III)	USA					
	Hepatitis C	Discontinued(II)	Spain					
	Ovarian cancer	Discontinued(II)	USA					
	HIV-1 infections	No development reported(III)	Australia, USA					
	HIV-1 infections	No development reported(Clinical)	France					
Alequel	Crohn's disease	Phase II		hepatitis C	No Development Reported		Phase 2	No Development Reported
	Cancer, liver	No Development Reported						
	Infection, hepatitis-C virus	No Development Reported						
	Infection, hepatitis-B virus	No Development Reported						
	Transplant rejection, bone marrow	No Development Reported						
Alfaferone	Hairy cell leukemia	Pre-registration	Argentina	hepatitis C	Launched	Italy	Launched	Launched
	Hairy cell leukemia	Registered	Brazil	hepatitis C	Preregistration	Argentina		
	Hairy cell leukemia	Launched	Italy	hepatitis C	Preregistration	Mexico		
	Hairy cell leukemia	Pre-registration	Mexico	hepatitis C	Preregistration	Poland		
	Hairy cell leukemia	Pre-registration	Poland	hepatitis C	Preregistration	Spain		
	Hairy cell leukemia	Pre-registration	Spain	hepatitis C	Registration	Brazil		
	Hepatitis C virus infection	Pre-registration	Argentina					
	Hepatitis B virus infection	Registered	Brazil					
	Hepatitis B virus infection	Launched	Italy					

Highest Phase extracted from the filtered subtable

Highest Phase for Hepatitis - How did we create this?

Searches:

- Indication = hepatitis C. Adis R&D Insight (web): 407 records; Citeline Pipeline (web): 554 records; IMS R&D Focus (Ovid): 393 records; Thomson Pharma (web): 565 records.

BizInt Smart Charts for Drug Pipelines

1. Open the combined pipeline chart. The "Drug Development Phase" and "Highest Phase" columns should be visible.
2. Use File | Export to export the chart as "Vantage Point - XML" (creates a .vpxi file.)

VantagePoint - BizInt Smart Charts Edition: Filter the subtable by the desired indication

3. If the file not does launch automatically in VantagePoint - BizInt Smart Charts Edition (VP-SCE), then import the .vpxi file into VP-SCE using File | Import.
4. On the Summary panel, double-click on "Indication" under "Drug Development Phase".
5. If there are Indications containing data in parentheses, apply Fields | Further Processing | Read until | first paren to remove qualifiers in parenthesis after indications.
6. Bring up the Fields | List Cleanup… panel. Select "Drug Development Phase:Indication:: Read Until - First/Paren" from the field list on left. Select the "General.fuz" file, and click "Use".
7. Use the Cleanup Confirm panel to clean up indications for Hepatitis C. To create the filtered subtable, you do not need to cleanup any other indications beyond Hepatitis C.
8. Select the "Custom Set of Items" radio button on the right side of the panel, type "hep" into the Find box, and click the "Regular Expression" check box, and select "Add." Drag and drop all the Hepatitis C items into a single item. and then click Accept. You will now have a new sub-field "Indication:: Read Until - First/Paren (Cleaned)"
9. View the Highest Phase field in the Summary. Apply Fields | Thesaurus… and choose the "DrugDevelopmentPhases_Arabic. the" file. This will normalize the phases using Arabic numbers (e.g. Phase 2).
10. Repeat this for the "Phase" sub-field in the Drug Development Phase field.
11. Rename the sub-fields in the Drug Development Phase field by clicking on them and selecting Fields | Rename Field. Rename "Phase (1)" to "Phase - Arabic", and "Indication:: Read Until - First/Paren (Cleaned)" to "Indication - Hep C". *Note: you cannot rename the subfields in BizInt Smart Charts, so do this before you export!*
12. In the Summary panel, double-click on the Drug Development Phase field. Double-click on "Indication-Hep C" to sort the subfield alphabetically. Shift-click to select all the "Hepatitis C" items, and from the right-mouse menu, select "Add Selection to Group." Type in "Hep C" under New group and click OK. A new column with check marks for all the Hepatitis C items will be created.
13. Select Fields | Create Field from Group Items. Select the "Hep C" item under Drug Development Phase, and click OK.
14. Export back to BizInt Smart Charts using File | Export Fielded Records…" In the Export Wizard, select "All Records" and click the Next button. Include the "Drug Development Phase: Hep C" and "Highest Phase (Arabic), and recordID fields.
15. In the next panel, select "BizInt Smart Charts for Drug Pipelines" in the Output Type dropdown list, click the "Launch Application radio button, and then click Finish.

BizInt Smart Charts for Drug Pipelines: Extract the highest phase from the filtered subtable

16. When BizInt Smart Charts for Drug Pipelines comes to the foreground, select the original chart. It will redisplay with two new columns -- the new "Drug Development Phase - Hep C" subtable and a new "Highest Phase (Arabic)" column.
17. Select the "Drug Development Phase - Hep C" subtable and then select Tools | Extract High Phase in Column. A new column will be created showing the Extracted Highest Phase from the Hep C subtable. You can compare this to the Highest Phase (Arabic) column to see where the highest phase for Hepatitis C differs from the highest phase for all indications.