

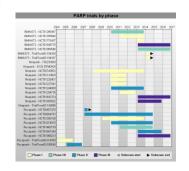
"Surfing the Pipeline" *Comparing Drug Pipeline Database Coverage and Content*

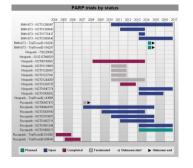
Pharma-Bio-Med, Rome November 2014 Diane Webb, President

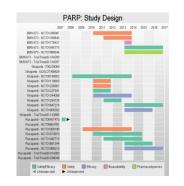


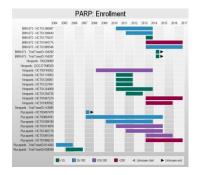
THE REAL PROPERTY AND A

Ten Techniques to Visualize Clinical Trials



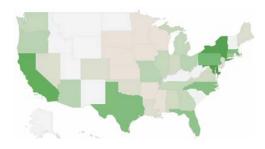


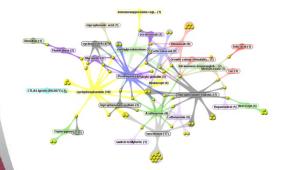


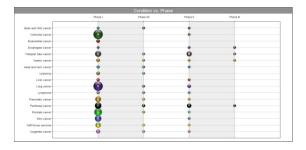


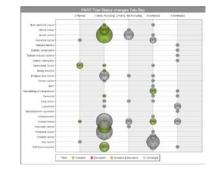












2

BizInt Smart Charts Product Family



Provides corporate information analysts with software tools to create reports and visualizations integrating information from their key sources.

BizInt Smart Charts

for Drug Pipelines

BizInt Smart Charts

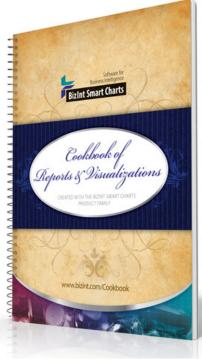
Reference RowsTM





"Cookbook" of techniques

- The Cookbook contains a collection of recipes to help you create accurate and appealing products from your raw ingredients.
- Step-by-step recipes illustrate how each tool can be used.
- Substitute ingredients as needed to answer *your* business questions.





BizInt Smart Charts

for Drug Pipelines



Drug Pipeline Databases

Provide data on drugs in development worldwide

- Citeline Pharmaprojects
- IMS R&D Focus
- Adis R&D Insight
- Thomson Reuters Cortellis
- Thomson Reuters Integrity

Slides at www.bizint.com/slides



Case study: Hepatitis C Pipeline

- Query: indication = Hepatitis C, all phases (exact query differs by database)
- Records retrieved:
 - Cortellis:777Integrity:359Pharmaprojects:689R&D Focus:420R&D Insight:474



Import search results and use File | Combine to create a single multi-database chart

Identify related records across databases

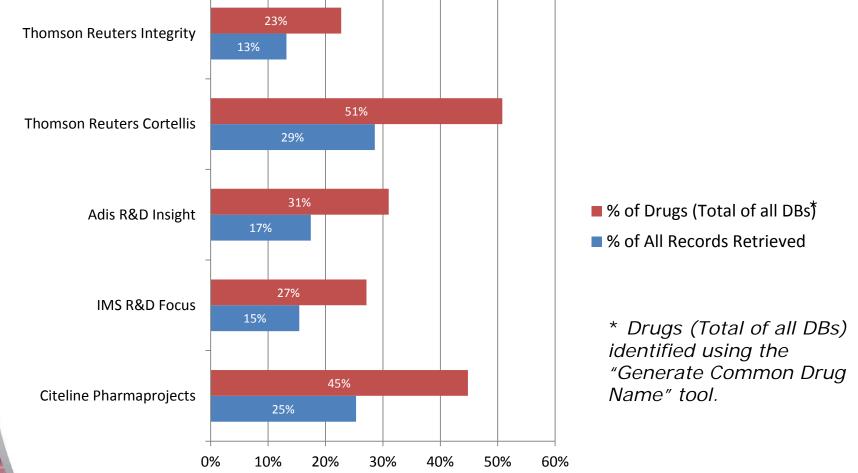
Tools | Generate Common Drug Name identifies records for the same drug by matching drug names and synonyms.

			<u> </u>			
	Drug Name	Common Drug Name	Database	Synonyms		
63	ACH-0141095	ACH-1095	Thomson Reuters Integrity Compounds	ACH-1095 GS-9525		
64	ACH-1095	ACH-1095	Citeline Pharmaprojects	GS-9525		
65	ACH-1095	ACH-1095	Thomson Reuters Cortellis	ACH-0199 GS-9525 NS4A protease inhibitors (oral, HCV infection), Achillion/Gilead		
66	GS 9525	ACH-1095	IMS R&D Focus	ACH 1095 GS 9525		
67	Research programme: hepatitis C virus NS4A protein inhibitors - Achillion	ACH-1095	Adis R&D Insight	ACH 1095 ACH-1095 GS 9525 GS-9525 Hepatitis C virus NS4A antagonists - Achillion		

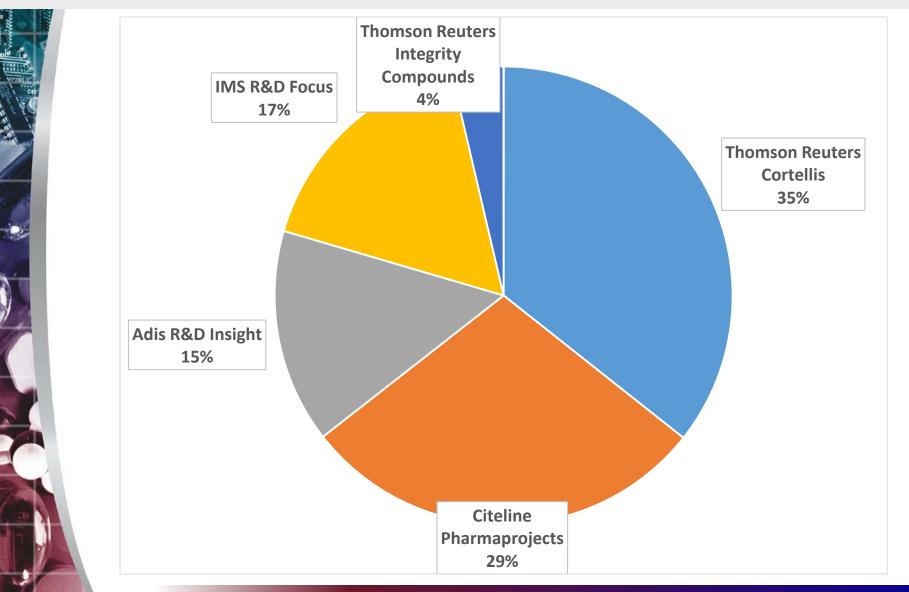


Database Coverage Analysis

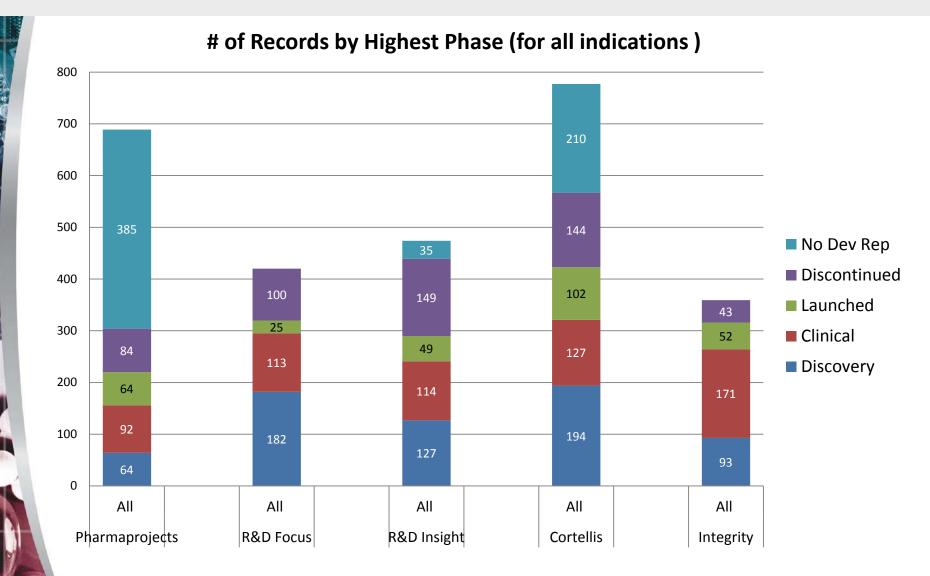
% of <u>Drugs</u> vs. <u>Records</u> Retrieved from each Database (Indication = Hepatitis C)



Distribution of drugs found in a single database



Database Coverage by Phase (records)





Highest phase for indication of interest

	1	1				
Drug	Highest Phase	Drug Development Phase				
Diug		Indication	Phase	Country		
interleukin-2, Medusa, Flamel	Phase II	Cancer, renal	Phase II			
			•			
		Infection, HIV/AIDS	No Development Reported			
		interleukin-2, Medusa, Phase II	Drug Highest Phase Indication interleukin-2, Medusa, Phase II Cancer, renal Flamel Cancer, melanoma Infection, HIV/AIDS Infection, hepatitis-C virus	Drug Highest Phase Indication Phase interleukin-2, Medusa, Phase II Flamel Cancer, renal Phase II Cancer, melanoma Reported Infection, HIV/AIDS No Development		

We know the "Highest Phase" for all indications, but the phase for our indication of interest (Hep-C) is buried in the Drug Development Phase table.

Extracting the highest phase for Hep-C

Choose a file format for export

HTML, chart and records HTML, chart only Word - chart and records Word - chart only Word - RTF, records only Acrobat - chart and records Acrobat - chart and records Acrobat - chart only Excel - optimized HTML, chart only Excel - HTML, chart and records Excel - HTML, chart only Excel - CSV, chart only Tab delimited - chart only XML Smart Data Exchange - chart only VantagePoint - XML, chart only

OK

Car

Cancel

vantage Smart Charts Edition

Export to VantagePoint-Smart Charts Edition

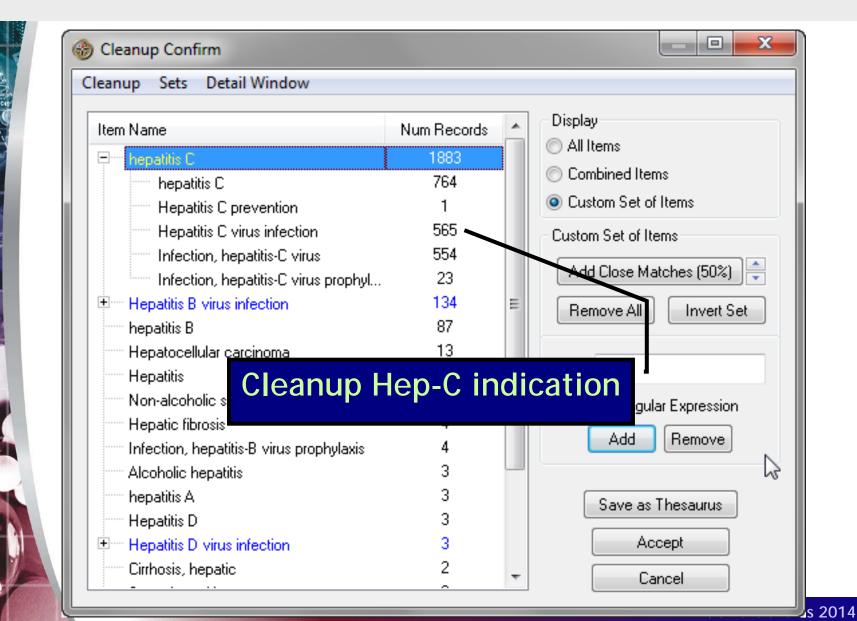
Help

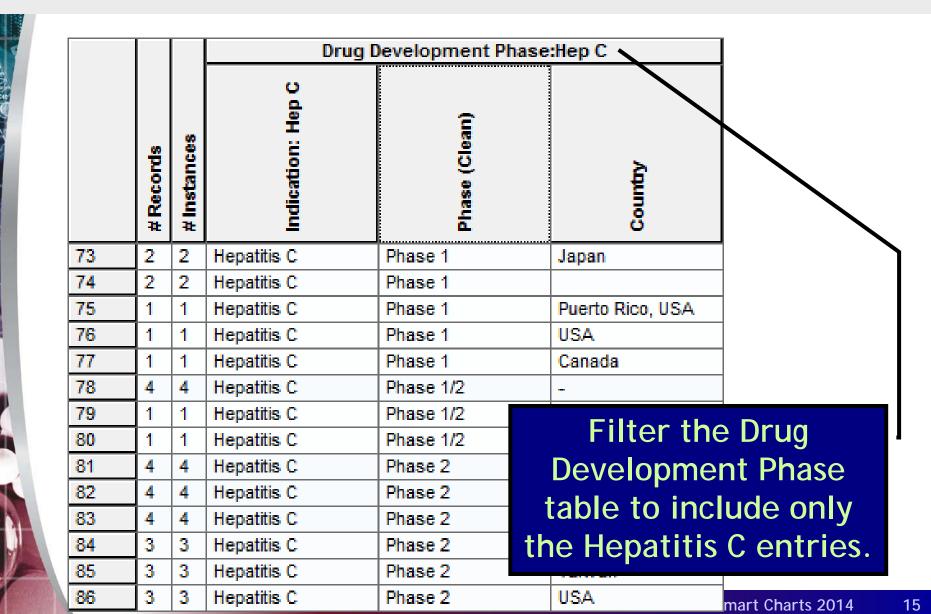


Extracting the highest phase for Hep-C

Need to filter and clean-up indications.

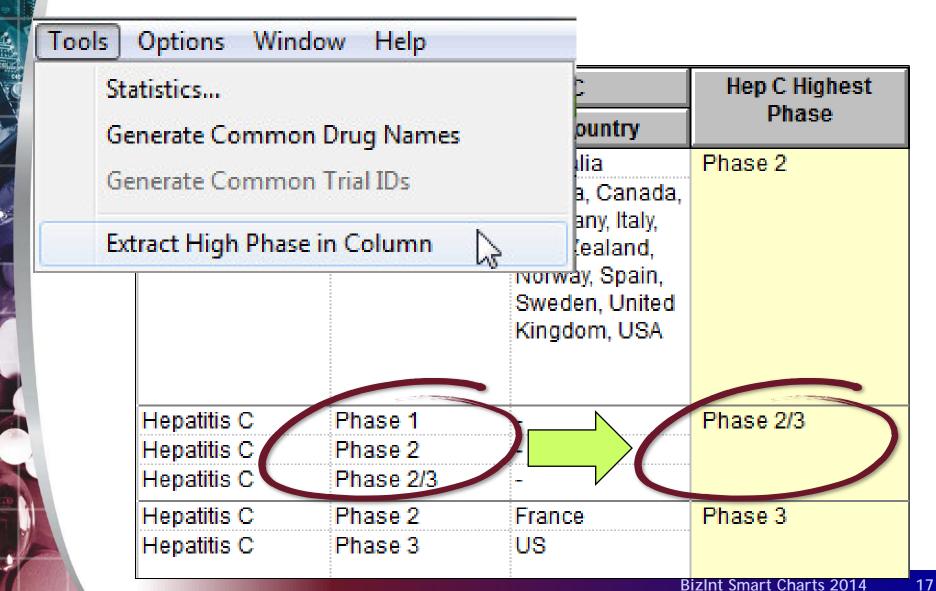
			Drug Development Phase		
# Records # Instances			Indication	Phase	Country
22	16	18	Hepatitis C virus infection	Discovery	Canada
23	15	15	hepatitis B	Preclinical	USA
24	15	17	Hepatitis C virus infection	Discontinued	Japan
25	14	15	Hepatitis C virus infection	No Development Rep	South Korea
26	14	10	HIV infection	Discontinued	US
27	14	14	Infection, HIV/AIDS	No Development Rep	
28	13	13	hepatitis C	Preclinical	UK
29	13	13	hepatitis C	Preclinical	Canada
30	13	13	hepatitis C	Phase II	Europe
31	13	17	Henatitic & virus infection	No Development Rep	Japan
32	13	13	Hepatitis C virus infection	No Development Rep	Canada
33	13	13	Infection, hepatitis-C virus prophylax s No Development Rep		
34	12	12	hepatitis C	No development repo	USA





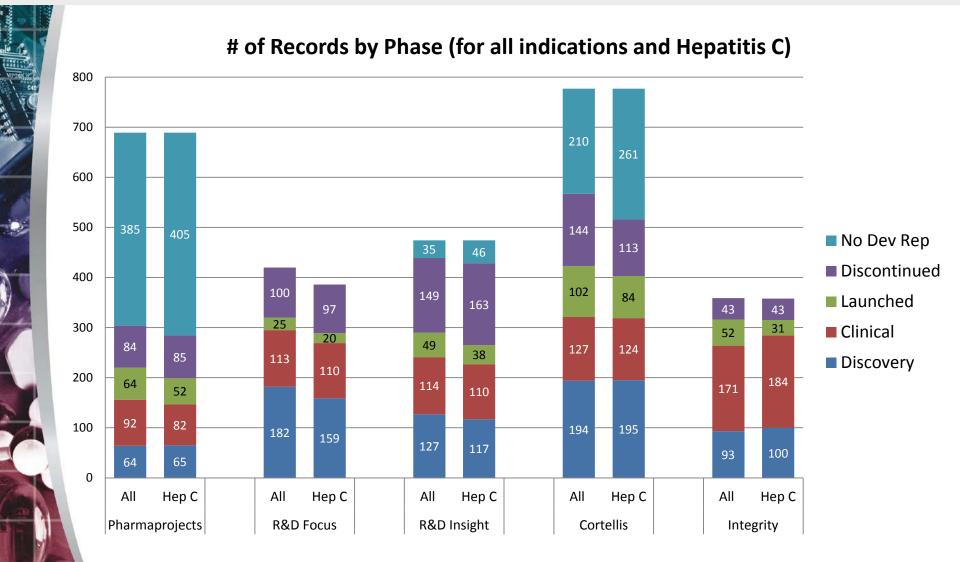


Drug Dev	elopment Phase	Drug Development Phase - Hep C			
Indication Phase Country			Indication: Hep C	Phase (Cleaned)	Country
Cancer, renal	Phase II		Hepatitis C	No Development	
Cancer, melanoma	No Development Reported		Report		
Infection, HIV/AIDS	No Development Reported			~	
Infection, hepatitis-C virus	No Development Reported				
Hepatitis C	Preclinical	USA	Hepatitis C	Preclinical	USA
Infection, hepatitis-C virus	No Development Reported		Hepatitis C	No Development Reported	
HIV infection	Clinicals	Bulgaria	Hepatitis C	Preclinical	USA
hepatitis C	Preclinical	USA			
			 A second s	o BizInt Sr a new col	

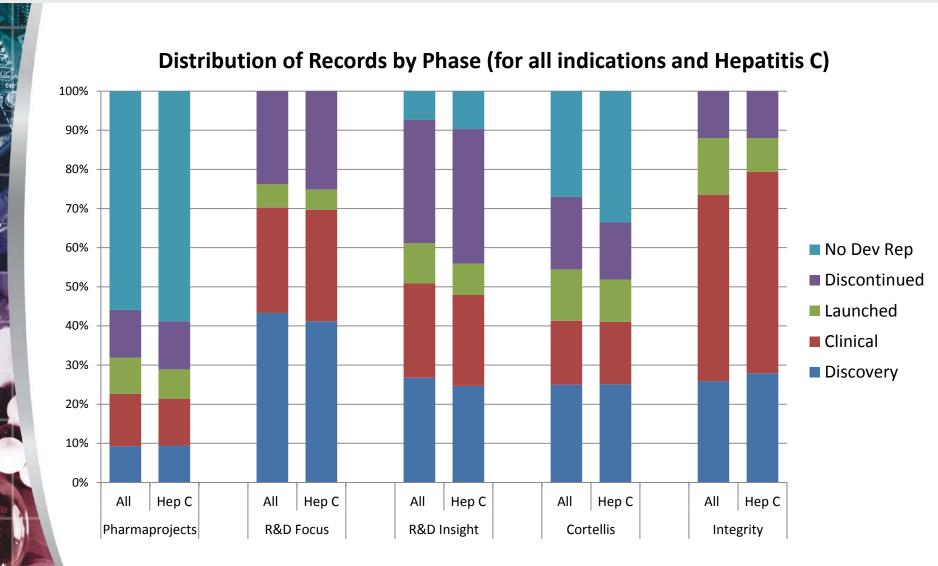


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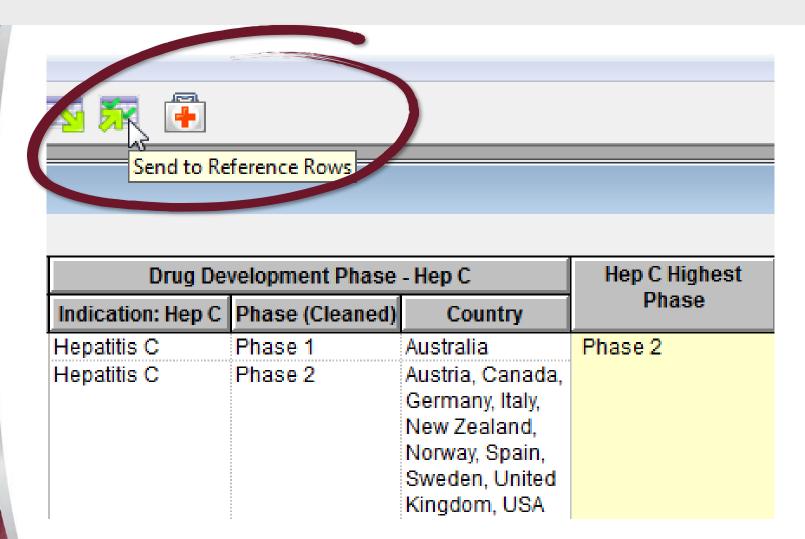
Database Coverage by Phase (# of records)

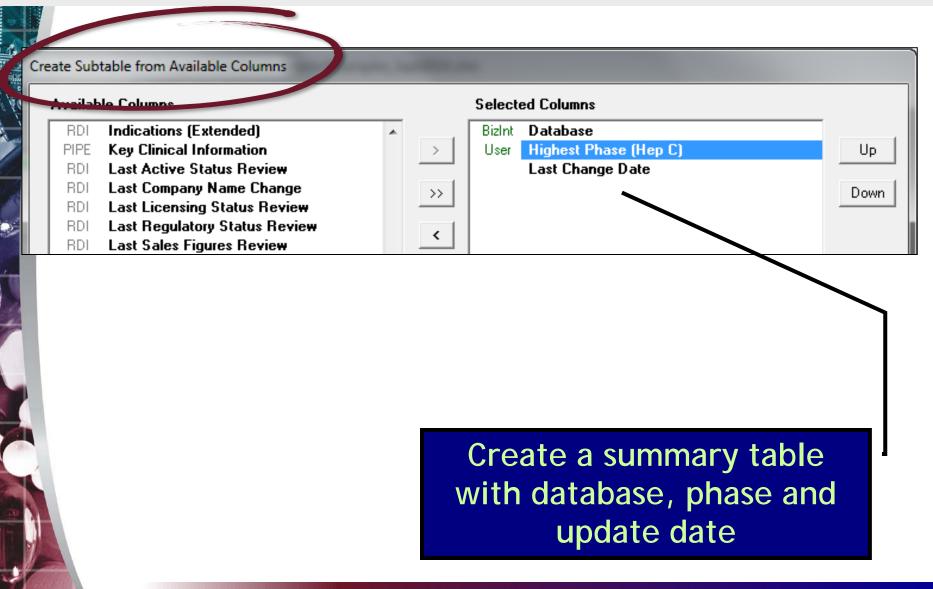


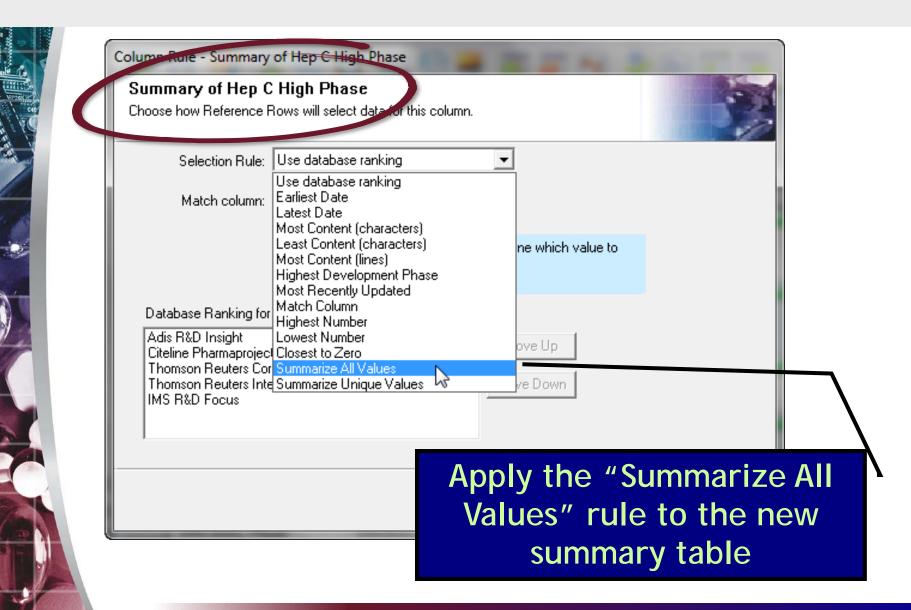
Database Coverage by Phase (%)













Highest			Summary of Hep C High Phase			
Drug Name		Phase (Hep C)	Database	Highest Phase (Hep C)	Last Change Date	
1.	bavituximab	Phase 2	Thomson Reuters Cortellis	Phase 2	2014-04-25	
			IMS R&D Focus	Phase 2	2014-04-24	
			Thomson Reuters Integrity Compounds			
		V	Adis R&D Insight	Discontinued	2014-05-01	
			Citeline Pharmaprojects	Phase 2	2014-04-11	
	1.1 CORTL	1.1 CORTL				
2.	BZF-961	Phase 3	Thomson Reuters Cortellis	Phase 2	2013-04-10	
			Thomson Reuters Integrity Compounds	Phase 3		
			Adis R&D Insight	Phase 3	2013-05-07	
			Citeline Pharmaprojects	Phase 2	2014-04-19	
	2.1 CORTL	2.2 Integr				

Analyze differences in phases (hep-c vs all)

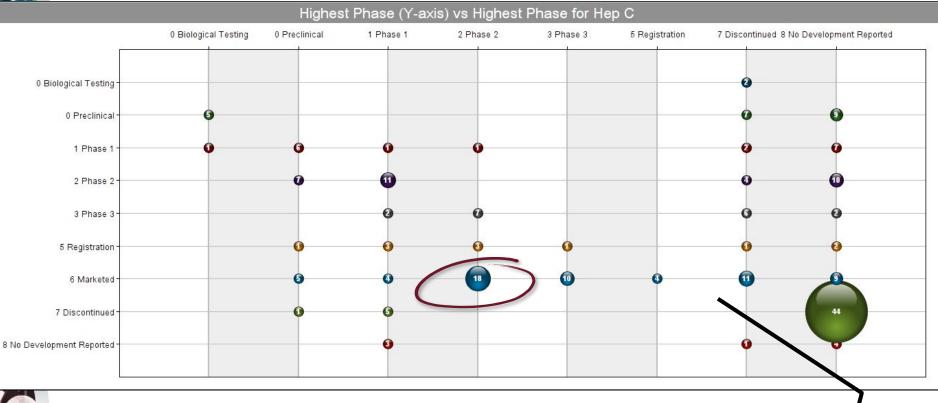
Compare Columns Wizard

Step 3 - Specify comparison options:		
		Finish
Compare: Highest Phase (Hep C)		
To: Highest Status (All Indic)		< Back
What type of comparison would you like	e to perform?	Cancel
C Show unique items in the first column		
\bigcirc Show unique items in the second column	1	Help
Show unique items in both columns		
Column title for items unique to the first	column:	
Unique in Highest Phase (Hep C)		
Column title for items unique to the sec	ond column:	
Unique in Highest Status (All Indic)		
	Use "Compare Co	lumns" to find
	drugs with differ	
	Hep-C than for a	all indications

TADALAL PARTY AND

Analyze differences in phases (hep-c vs all)

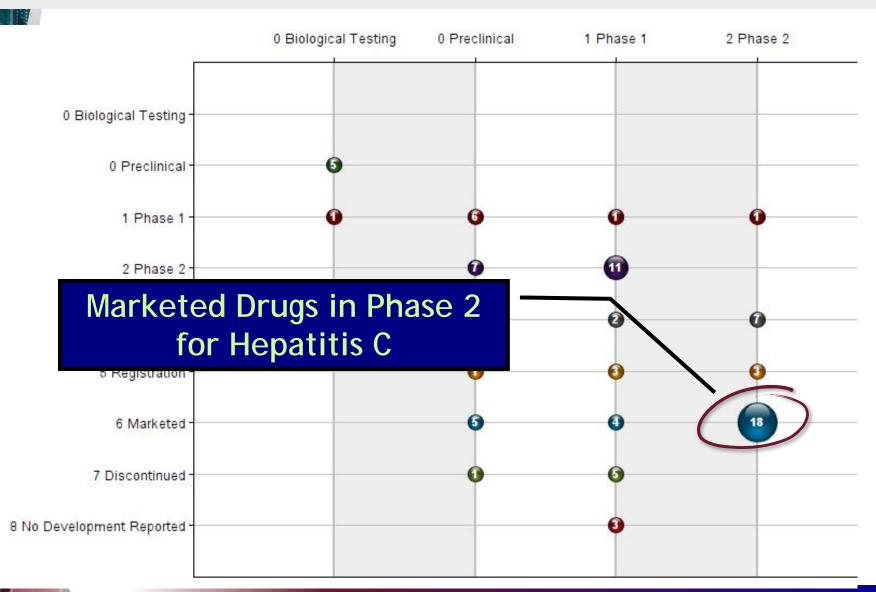




Create a Bubble Graph in VP-SCE to spot trends

STATEMENT AND DESCRIPTION

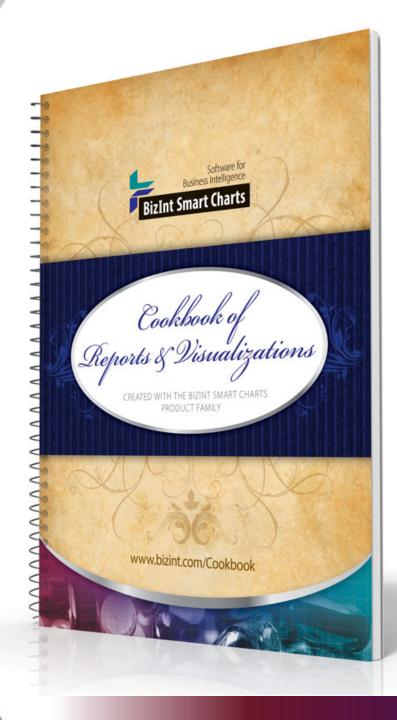
Analyze differences in phases (hep-c vs all)



"Surfing the Pipeline" - conclusions

- Pipeline databases continue to vary in coverage and content.
- The more pipeline databases you use, the better you can exploit the strengths of each.
- BizInt Smart Charts tools can help you aggregate, summarize and visualize multidatabase pipeline information...
- Into create more accurate and effective pipeline intelligence!







Visit our stand for more info and to see the Cookbook!

www.bizint.com