Determine the optimal stage to license an asset with Cortellis

July 2018



Agenda

- What is Cortellis?
- Determine the optimal stage to license an asset, with a focus on deal value
 - Search for lymphoma license deals with financials disclosed
 - Examine average/median deal size and upfronts by stage
 - Identify outliers and exclude them from the analysis
 - Review key fields such as territories, indications and number of products/options
- Wrap-up



What is Cortellis?

Broker Research (1817181)

Clinical Trials (316176)

Companies (166279)

Conferences (77970)

Deals (91803)

Disease Briefings (159)

Drugs (71835)

Event Transcripts (80237)

Literature (2511477)

Patents (3471051)

Press Releases (366591)

Regulatory (202751)

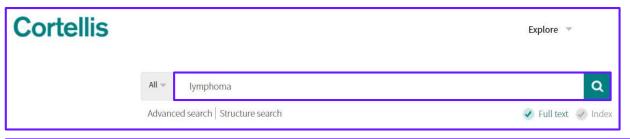
Venture Funding (6078)

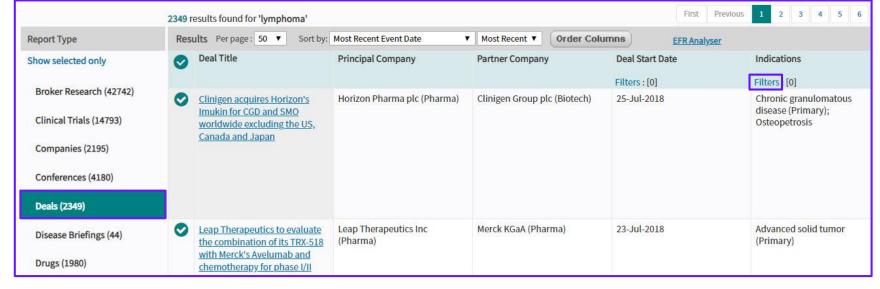


Powering Life Sciences Innovation



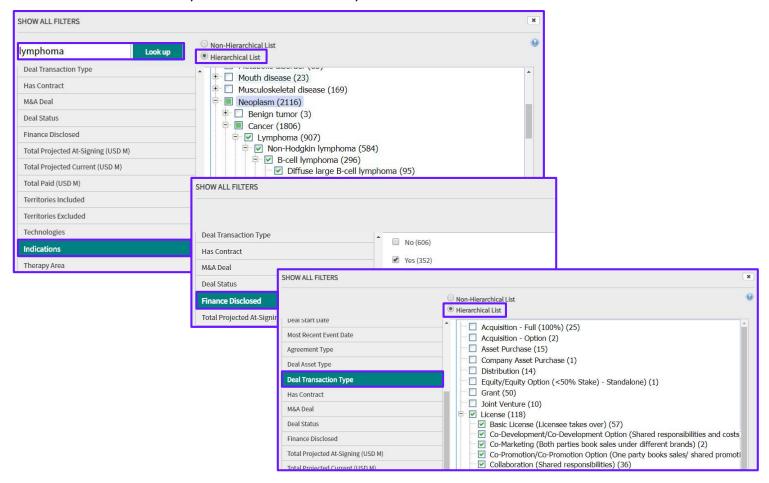
Search for lymphoma, switch to deals content, go to Filters







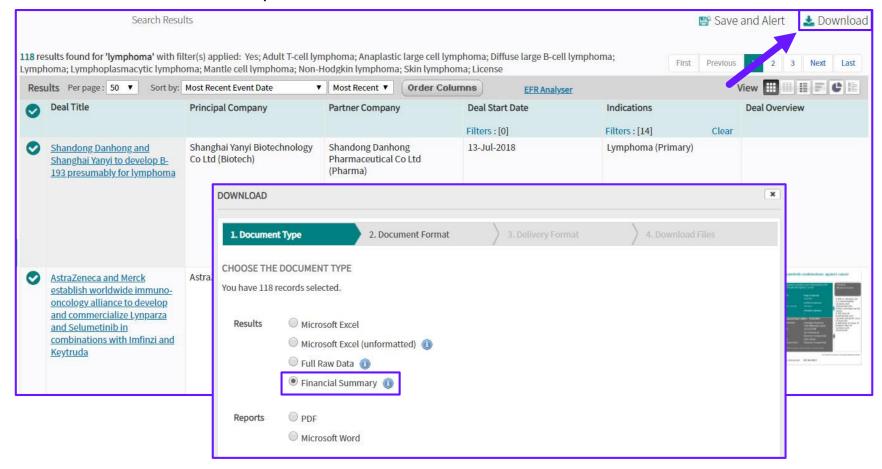
Filter for indications, financials disclosed, licenses





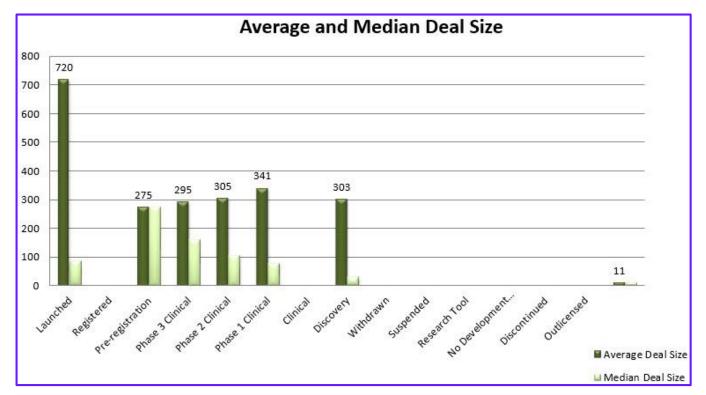


Download Financial Summary





- Deal size chart observations
 - Averages (dark columns) decrease from Phase 1 to Pre-registration
 - Medians (light columns) increase from Phase 1 to Pre-registration
 - Average for Launched is much higher than median





- View underlying data for Launched deals
 - AstraZeneca/Merck deal (\$8.5B) is pulling average much higher
 - Link to online deal report to understand deal details

Deal Title	Drugs Highest Status (Deal Start)	Total Projected Current (USD M)	Upfront Payment (USD Million To Principal - Current)
Nektar and BMS to deve	Launched	3630	1000
Novartis to develop and o	Launched	50	3
SymBio Pharmaceuticals	Launched	12.5	12.5
Millennium to develop an	Launched	340	100
AstraZeneca and Merck	Launched	8500	1600
Access to Phase III Zeva	Launched	5	2
Eisai to develop and com	Launched	280	Payment Unspecified
CTI BioPharma and Serv	Launched	229.12	31.12
NanoString to develop IV	Launched	45	5.75



Key information includes territories, indications and number of products/options

Deal Title	AstraZeneca and Merck establish worldwide immuno-oncology alliance to develop and commercialize Lynparza and Selumetinib in combinations with Imfinzi and Keytruda
Principal Company	AstraZeneca plc (UK) (Pharma)
Partner Company	Merck & Co Inc (US) (Pharma)
Agreement Type	Drug - Development/Commercialization License
Deal Asset Type	Drug; Product(s) only
Deal Transaction Type	Co-Development/Co-Development Option (Shared responsibilities and costs); Co-Marketing (Both parties book sales under different brands); Supply (Licensor manufactures product)
Deal Status	Active
Territories	Japan ; World

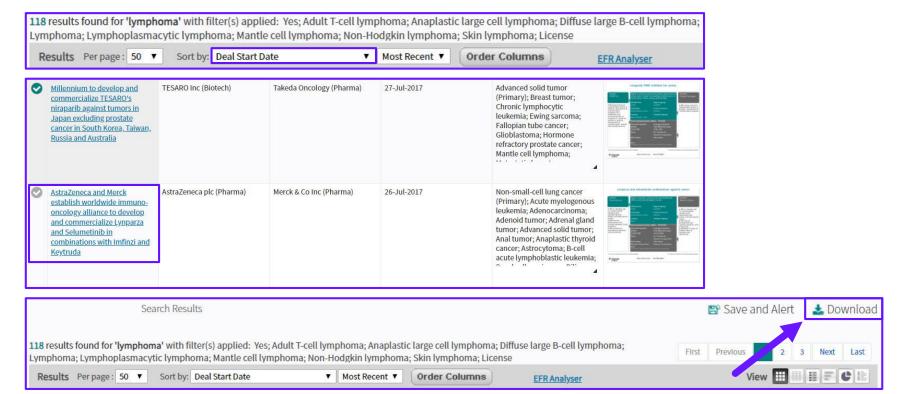
Non-small-cell lung cancer(Primary); Acute myelogenous leukemia; Adenocarcinoma; Adenoid tumor; Adrenal gland tumor; Advanced solid tumor; Anal tumor; Anaplastic thyroid cancer; Astrocytoma; B-cell acute lymphoblastic leukemia; Basal cell carcinoma; Biliary cancer; Bladder cancer; Beast tumor; Cancer; Carcinoma; Cholangiocarcinoma; Chronic lymphocytic leukemia; Colon tumor; Colorectal tumor; Diffuse large B-cell lymphoma; Endometrioid carcinoma; Esophagus tumor; Fallopian tube cancer; Follicle center lymphoma; Gastrointestinal tumor; Germ cell and embryonic cancer; Glioblastoma; Glioma; Head and neck tumor; Hematological neoplasm; Hepatocellular carcinoma; Hodgkins disease; Hormone refractory prostate cancer; Inflammatory breast cancer; Kaposis sarcoma; Leiomyosarcoma; Lymphoma; Mantle cell lymphoma; Melanoma; Merkel cell carcinoma; Mesothelioma; Metastatic bladder cancer; Metastatic brain cancer; Metastatic brain cancer; Metastatic brain cancer; Metastatic brain cancer; Metastatic lump; Metastatic colorectal cancer; Metastatic esophageal cancer; Metastatic head and neck cancer; Metastatic liver cancer; Metastatic renal cancer; Metastatic stomach cancer; Metastatic urinary tract cancer; Mouth tumor; Multiple myeloma; Myelodysplastic syndrome; Myelofibrosis; Nasopharyngeal carcinoma; Neoplasm; Nerve tumor; Neurodegenerative disease; Neuroendocrine tumor; Neurofibromatosis type I; Neurofibromatosis type II; Non-Hodgkin lymphoma; Osteosarcoma; Ovary tumor; Pancreas tumor; Papillomavirus infection; Penis tumor; Peripheral T-cell lymphoma; Peritoneal tumor; Primary mediastinal large B-cell lymphoma;

Number of Products/Options 4

Cortellis



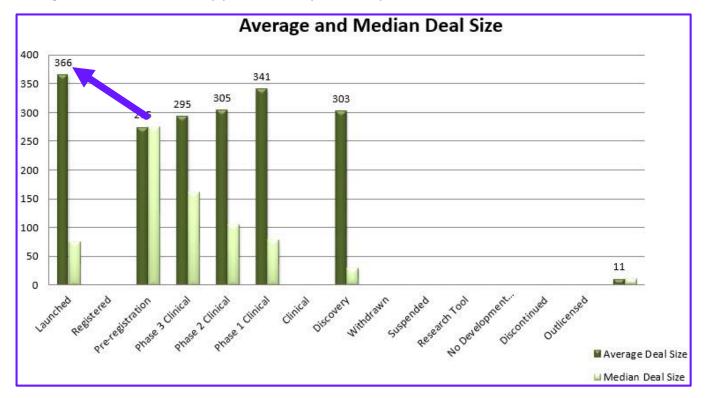
- Exclude the AstraZeneca/Merck deal from the analysis
 - Sort by Deal Start Date, locate the deal and uncheck it
 - Download the Financial Summary again





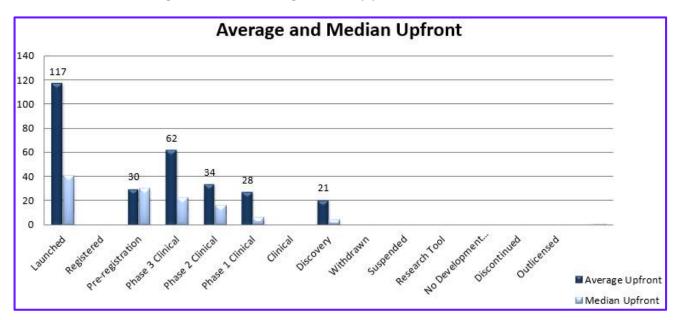


- Revised deal size chart observations
 - Average for Launched is approximately half of previous value





- Upfront chart observations
 - Averages (dark columns) and medians (light columns) generally increase from Discovery to Launched
 - However, the Pre-registration average has dipped





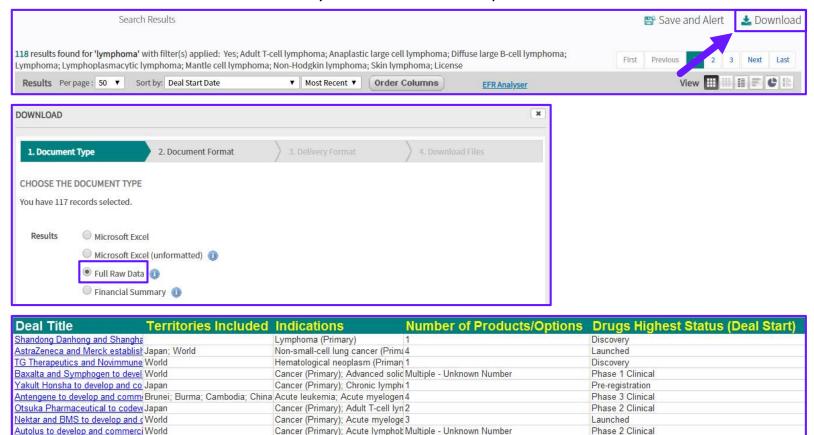
- View the underlying data
 - Pre-registration group has only 2 data points, which may be affecting the average value
 - Click the Pivot Table View tab in the Excel file to see how many data points exist for each stage

GSK to codevelop Ge Launched	1369.62	239.52	
Yakult Honsha to dev Pre-registration	100	10	
Kite Pharma to licens Pre-registration	450	50	
Antengene to develop Phase 3 Clinical	162	12	

	Data			
Drugs Highest				
Status (Deal				white the second
Start)	Deal Counts	Deal Size Counts (Total Projected Current)	Deal Size Sum (Total Projected Current)	Deal Size Average
Launched	22	22	8052.96	366.04
Pre-registration	2	2	550	275.00
Phase 3 Clinical	25	25	7363.48	294.54
Phase 2 Clinical	29	29	8854.63	305.33
Phase 1 Clinical	10	10	3414.4	341.44
Discovery	27	27	8188.48	303.28
	2	2	21.57	10.79
Grand Total	117	117	36445.52	311.50

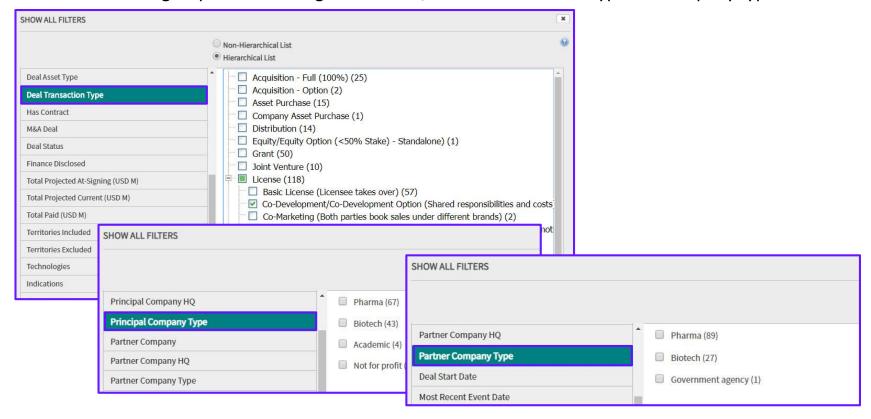


Download the Full Raw Data to easily see details for multiple deals





Further refine a group of deals using other fields, such as license sub-types or company types





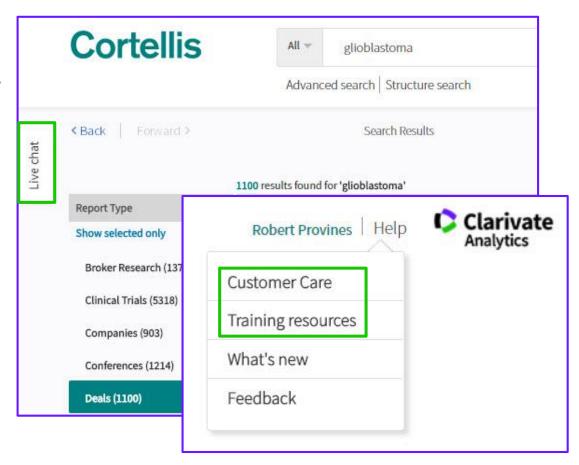
Wrap-up

- Determine the optimal stage to license an asset, with a focus on deal value
 - Searched for lymphoma license deals with financials disclosed
 - Examined average/median deal size and upfronts by stage
 - Identified outliers and excluded them from the analysis
 - Reviewed key fields such as territories, indications and number of products/options
 - Viewed other fields for refining original search



Training & support

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