ClinicalTrials in Canaca

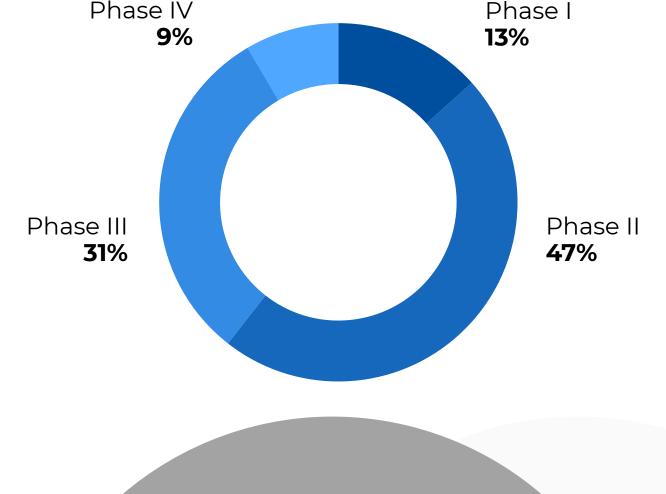
Q1 2021 Research report

O Trial Data During Q1 2021 there were 350 clinical trials initiated in

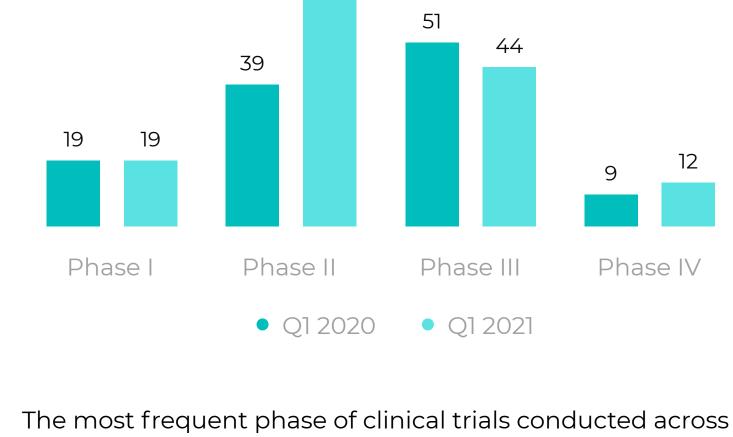
Canada including local and bioequivalence studies. That represents a 22% growth rate in comparison with the previous year when 287 studies were initiated. But if one excludes bioequivalence studies and studies without an FDA-defined Phase, there were only 142 clinical trials initiated during Q1 2021 compared to 118 studies initiated in previous year. The majority of clinical trials conducted in Canada were

Phase IV Phase I

interventional studies with a 87% market share.



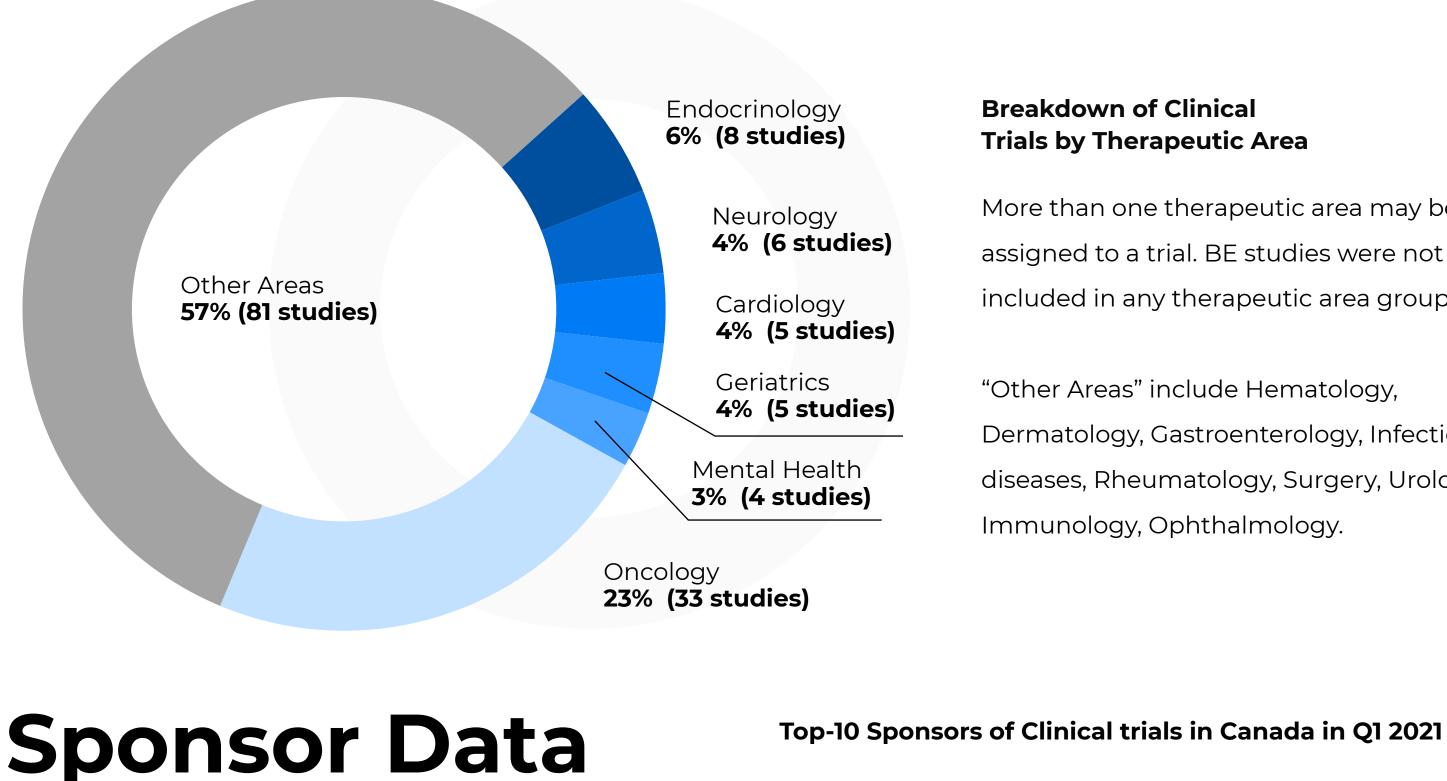
Breakdown of Clinical Trials by Phase (Canada)



The largest number of clinical trials initiated in Canada

the Canadian sites by number of studies was Phase II.

during the Q1 2021 were related to Oncology (33 studies), Endocrinology (8 studies), Neurology (6 studies), Cardiology (5 studies) and Geriatrics (5 studies). Other prominent therapy areas included Mental health, Hematology and Dermatology.



assigned to a trial. BE studies were not included in any therapeutic area group.

Breakdown of Clinical

Trials by Therapeutic Area

"Other Areas" include Hematology, Dermatology, Gastroenterology, Infectious

More than one therapeutic area may be

diseases, Rheumatology, Surgery, Urology, Immunology, Ophthalmology.

Studies

Subjects

By country of origin, Europe/UK accounted for the largest number of pharmaceutical sponsored clinical trials in Q1

2021 in Canada. The headquarters of the sponsor

companies conducting clinical trials in Q1 2021 in Canada were evenly split between the US (5 companies) and Europe/UK (5 companies). Observational trials and trials without FDA-defined phases (from I to IV) were not counted in the following ranking.

Combined market share shown as a percentage of both

international and Russian sponsors.

Subject Data

The overall number of subjects enrolled (or planned to be

enrolled) in clinical trials initiated in Canada in Q1 2021 (including multi-center international studies) jumped from 33,561 subjects in Q1 2020 to 47,374 subjects in Q1 2021 with

year on year jump rate of 41%. The most prevalent Phase of clinical trials by total number of participating subjects was Phase III. Studies indicated by sponsors as Phase I-II were counted as Phase II; Phase II-III – as Phase III, Phase III-IV – as Phase IV.

O Regulatory Data

During Q1 2021 the Health Products and Food Branch of

Health Canada authority approved 8 new drug applications.

Company Name

Nº

1/1-	Company Name	Studies	Subjects
1	Hoffmann-La Roche	11	5 138
2	AstraZeneca	11	3 164
3	Janssen	6	1 180
4	Novo Nordisk	4	3 610
5	Bristol-Myers Squibb	3	254
6	Bayer	2	975
7	Allergan	2	970
8	AbbVie	2	433
9	Eli Lilly	2	370
10	Merck	2	340
	Combined share	32 %	35 %

Breakdown of Number of Subjects Enrolled by Phase

26 733

24 857



According to U.S. FDA data, there were no FDA

Company

Segirus

Sanofi

Pfizer

Novartis

Lundbeck

inspections conducted in the Canadian Source: Health Canada investigative sites during Q1 2021

Drug (Active Ingredient)

Foclivia (Pandemic Influenza Vaccine) 07.01.2021 11.01.2021 Vyepti (Eptinezumab)

Appr.Date

22.01.2021

Supemtek (Quadrivalent Recombinant 14.01.2021 Influenza Vaccine) Adalimumab Injection (Adalimumab Injection) 14.01.2021

Kesimpta (Ofatumumab)

Worldwide Clinical Trials					
	01.03.2021	Phesgo (Pertuzumab and Trastuzumab Injection)	Hoffmann-La Roche		
	16.02.2021	Cequa (Cyclosporine)	Sun Pharma		
	11.02.2021	Reblozyl (Luspatercept)	Celgene		

having 30%.

Phase I

33

32

789

were only 3,191 studies with a clearly defined study Phase. Interventional Clinical Trials. 100 The proportion of clinical trials between different global regions (i.e. U.S., Europe and Rest of the World) in Q1 2021 90 slightly changed in comparison to Q1 2020: the combined 2 696 3 447 market share of developing countries increased from 39% 287 70 350 60

During Q1 2021 the official FDA website showed approvals

worldwide, including local and BE studies with an overall

increasing number of trials in developing countries. At the

same time according with the official FDA website there

for initiation of 9,298 new clinical trials of all types

year on year growth rate of 22% driven in large by an

50 2 293 2 809 40 30 20 2 323 2 692 10 0

to 41%. • Q1 2020 • Q1 2021

1042

1307

Phase II

Breakdown of Worldwide Clinical Trials by Phase

Phase III

635

527

Phase IV

460

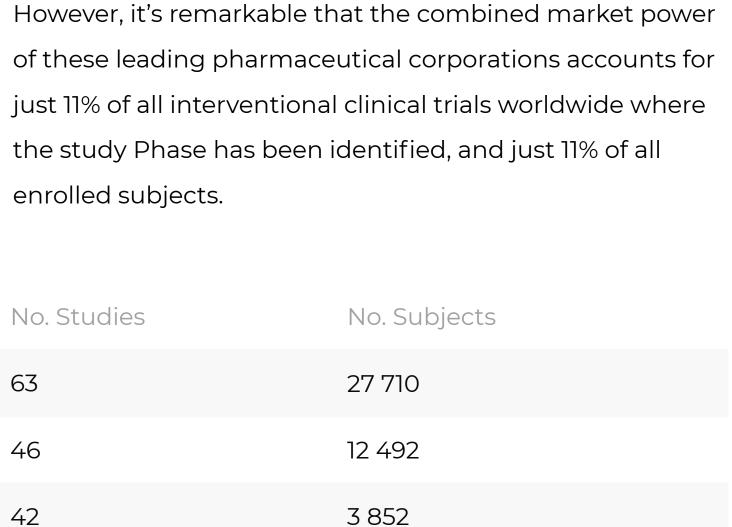
394

The combined market share of the U.S. and European

from 61% to 59%, with the U.S. having 29% and Europe

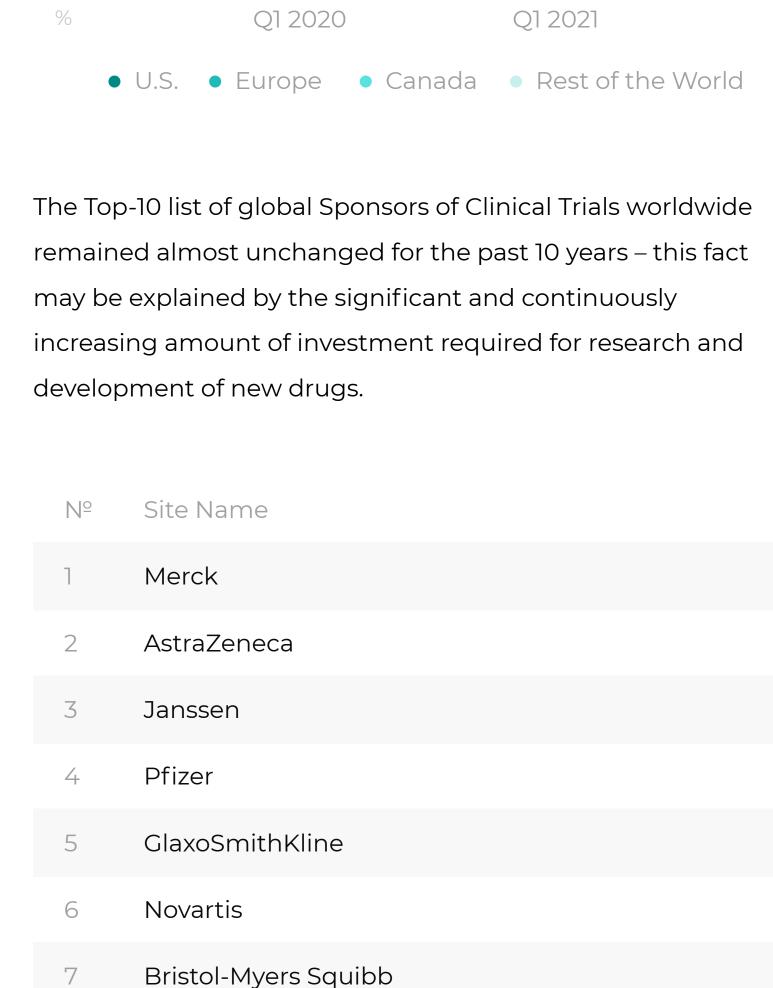
countries by number of global initiated studies dropped

79% of all global clinical trials initiated during Q1 2021 were



15 182

9 802



Eli Lilly 9 Jiangsu HengRui Medicine Co 10 Combined market share of these companies The total number of subjects enrolled in Clinical trials

worldwide of all types in Q1 2021 reached 940,168 subjects

with an annual jump rate of 45%. The majority of subjects

were (or planned to be) enrolled in Phase III and Phase IV

Hoffmann-La Roche

8

trials, and the largest proportion of the global subject population were from the U.S., Canada and European countries. However, the share of subjects participating in clinical

trials remains extremely low in comparison with overall

size of the population – approximately 0,01% Worldwide.

32 5 404 32 2 6 1 4 30 10 114 25 11 429 25 5 139 11% 11% **Breakdown of Number of Subjects Enrolled** by Phase Worldwide in Q1 2021

504 th.

218 th.

Phase III

• Q1 2021

224 th.

178 th.

Phase IV

About The Orange Paper

The Orange Paper is a free publication produced by Synergy Research Group for the pharmaceutical industry since 2007. It pulls together data from numerous public sources into a single brief document to aid decision makers planning to conduct clinical trials.

close of each year. All of the data within this document are actual on date:

It is produced quarterly, with an annual summary at the

215 th.

40 th. 46 th.

Phase I

01/04/2021

167 th.

Phase II

• Q1 2020

About Synergy Research Group We set up the highest level of world-class quality both

Synergy Research Group is a contract research organization successfully operating in Russia, Kazakhstan, Ukraine and

Canada since 2002.

Synergy consistently ranks in the top-10 market leaders by number of conducted clinical studies and enrolled patients. The high recruitment rates of the emerging markets

combined with innovative technology allows Synergy to

without sacrificing quality for our clients.

offer our clients conduct faster, more cost-effective studies

for SOPs and for final study data in every clinical trial we conduct.

We are continuously improving our SOPs, study risk management and IT infrastructure – and replacing outdated R&D strategies by novel, more efficient approaches to clinical research.