Y 2020 Research report

During the Year 2020 there were 1,196 clinical trials initiated

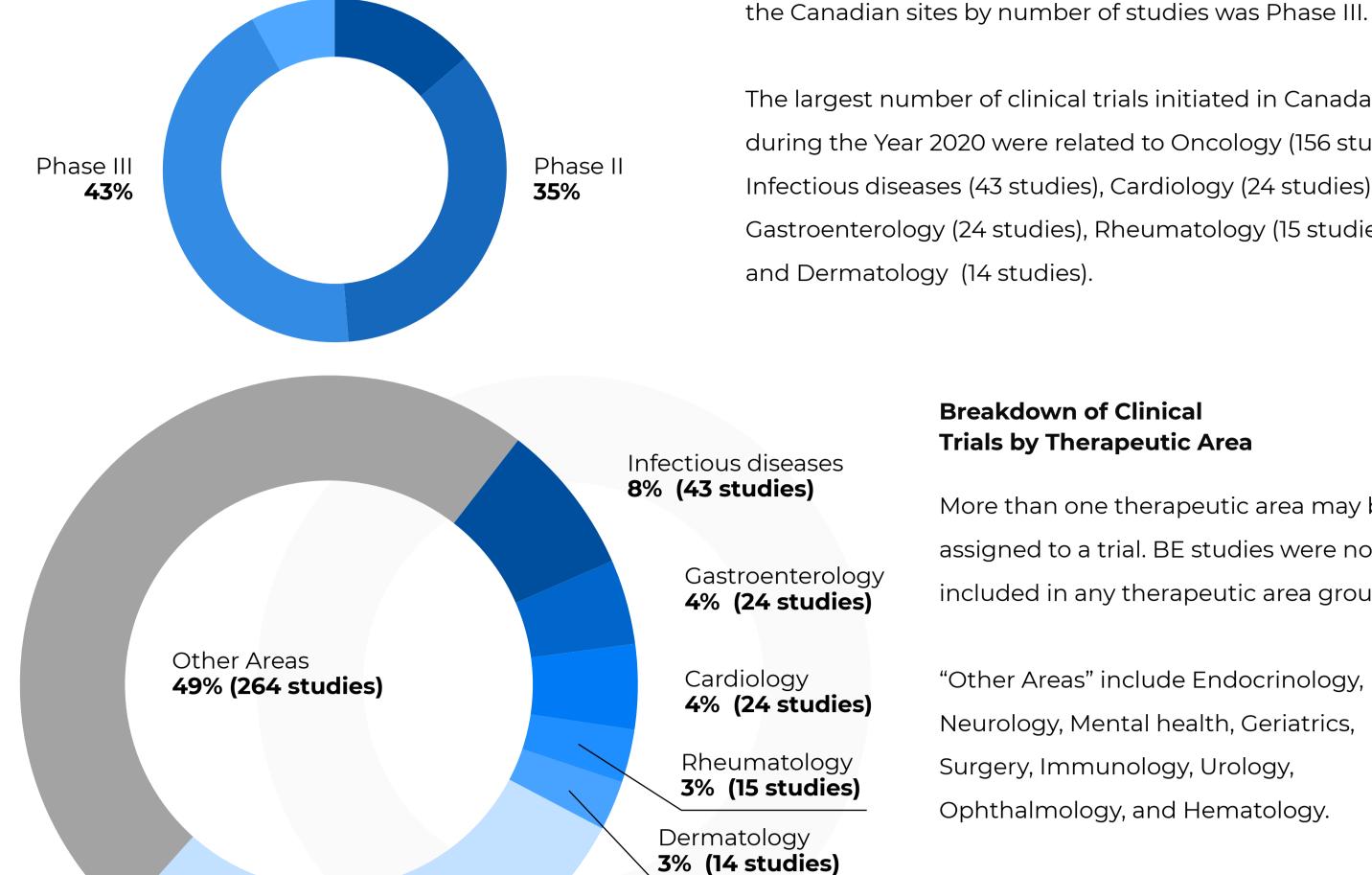
O Trial Data

represents an 11% decline in comparison with the previous year when 1,343 studies were initiated. But if one exclude bioequivalence studies and studies without FDA-defined Phase there were only 540 clinical trials initiated during the Year 2020 compared to 594 studies initiated in previous year. The majority of clinical trials conducted in Canada were

in Canada including local and bioequivalence studies. That

Phase IV Phase I 8% 14%

interventional studies with a 83% market share.

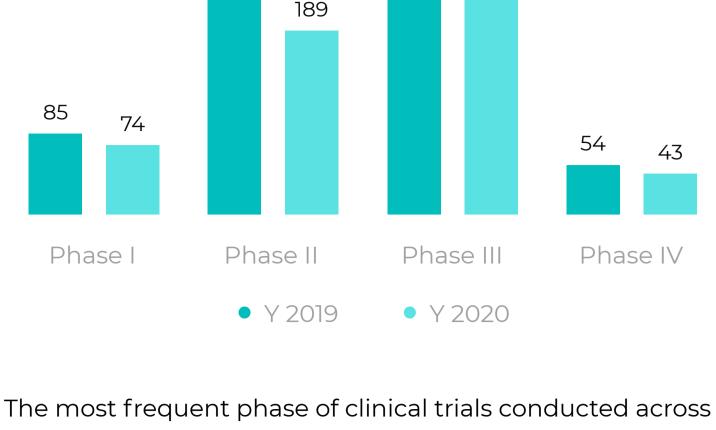


Oncology

29% (156 studies)

234 232 223 189

Breakdown of Clinical Trials by Phase (Canada)



The largest number of clinical trials initiated in Canada during the Year 2020 were related to Oncology (156 studies),

Infectious diseases (43 studies), Cardiology (24 studies), Gastroenterology (24 studies), Rheumatology (15 studies) and Dermatology (14 studies). **Breakdown of Clinical Trials by Therapeutic Area**

assigned to a trial. BE studies were not

included in any therapeutic area group. "Other Areas" include Endocrinology,

Neurology, Mental health, Geriatrics,

More than one therapeutic area may be

Surgery, Immunology, Urology, Ophthalmology, and Hematology.

By country of origin, the U.S. accounted for the largest number of pharmaceutical sponsored clinical trials in the Year 2020 in Canada. The headquarters of the sponsor

international and Russian sponsors.

Sponsor Data

companies conducting clinical trials in the Year 2020 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

Subject Data

The overall number of subjects enrolled (or planned to be

enrolled) in clinical trials initiated in Canada in the Year 2020

(including multi-center international studies) jumped from 211,485 subjects in the Year 2019 to 281,712 subjects in the Year 2020 with year on year growth rate of 33%. 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. Regulatory Data

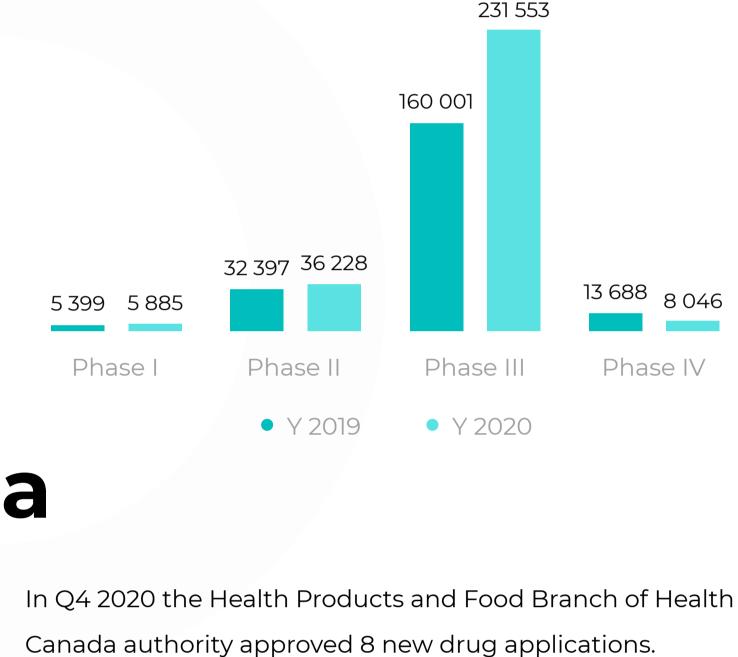
During the Year 2020 the Health Products and Food Branch of Health Canada authority approved 44 new drug

applications and approved 115 applications for marketing

authorization for new medical devices.

Top-10 Sponsors of Clinical trials in Canada in Y 2020

Nº	Company Name	Studies	Subjects
1	AstraZeneca	28	15 714
2	Hoffmann-La Roche	27	11 238
3	Merck	26	13 252
4	AbbVie	16	6 283
5	Eli Lilly	15	19 380
6	Sanofi	14	6 696
7	Janssen	14	6 084
8	Bayer	13	16 298
9	Pfizer	11	10 620
10	Bristol-Myers Squibb	10	4 033
	Combined share	32 %	39%



Breakdown of Number of Subjects Enrolled by Phase

Appr.Date Drug (Active Ingredient)

02/10/2020 Zeposia (Ozanimod Hydrochloride) 13/10/2020 Luxturna (Voretigene Neparvovec) 15/10/2020 Trurapi (Insulin Aspart)

Nyvepria (Pegfilgrastim)

Novartis

Company

Celgene

NovoRapid

Pfizer

Source: Health Canada

29/10/2020 Menquadfi (Meningococcal Polysacchari Tetanus Toxoid Conjugate)		ccharide	Sanofi		
30/10/2020 Idacio (Adalimumab)			Fresenius Kabi		
04/11,	/2020	Amgevita (Adalimumab)		Amgen	
25/11/	5/11/2020 Hulio (Adalimumab)		BGP Pharma		
FDA inspections					
	spections		City	Company / Investigator Site Firm	Outcome
	-	DA data, there were 3 FDA			
Accordi	ing to U.S. F	DA data, there were 3 FDA cted in the Canadian	City Scarborough	Company / Investigator Site Firm Pharma Medica Research	Outcome
Accordi inspecti	ing to U.S. F	· ·			
Accordi inspecti investig	ing to U.S. F ions conduc gative sites c	cted in the Canadian	Scarborough Halifax	Pharma Medica Research Agada Biosciences	NAI
Accordi inspecti investig inspecti	ing to U.S. F ions conduc gative sites c ions ended	cted in the Canadian during 2020, wherein two	Scarborough	Pharma Medica Research	NAI

Worldwide

100

90

28/10/2020

Clinical Trials During the Year 2020 the official FDA website showed approvals for initiation of 29,792 new clinical trials of all types worldwide, including local and BE studies with an

overall year on year growth rate of 9% driven in large by an

increasing number of trials in developing countries. At the

were only 10,486 studies with a clearly defined study Phase.

8 154

Y 2020

Rest of the World

same time according with the official FDA website there

80 70 60 10 797 11 656 50 40 1 196 1343 30 20 8 917 8 786 10 \bigcirc

Europe

The Top-10 list of global Sponsors of Clinical Trials worldwide

remained almost unchanged for the past 10 years – this fact

Y 2019

Canada

U.S.

6 246

may be explained by the significant and continuously increasing amount of investment required for research and development of new drugs. But in the Year 2020 the new Chinese challenger – Jiangsu HengRui Medicine Company - appeared in this ranking for the first time. Nº Site Name Merck AstraZeneca 2 3 Pfizer 4 Janssen Eli Lilly 5

The combined market share of the U.S. and European countries by number of global initiated studies dropped from 72% to 69%, with the U.S. having 30% and Europe

were Interventional Clinical Trials.

having 39%.

from 28% to 31%.

2 625 2 688

Phase I Phase II Phase III Phase IV

Y 2020

1905

2 207

1354

1 419

74% of all global clinical trials initiated during the Year 2020

The proportion of clinical trials between different global

regions (i.e. U.S., Europe and Rest of the World) in the Year

2020 slightly changed in comparison to the Year 2019: the

combined market share of developing countries increased

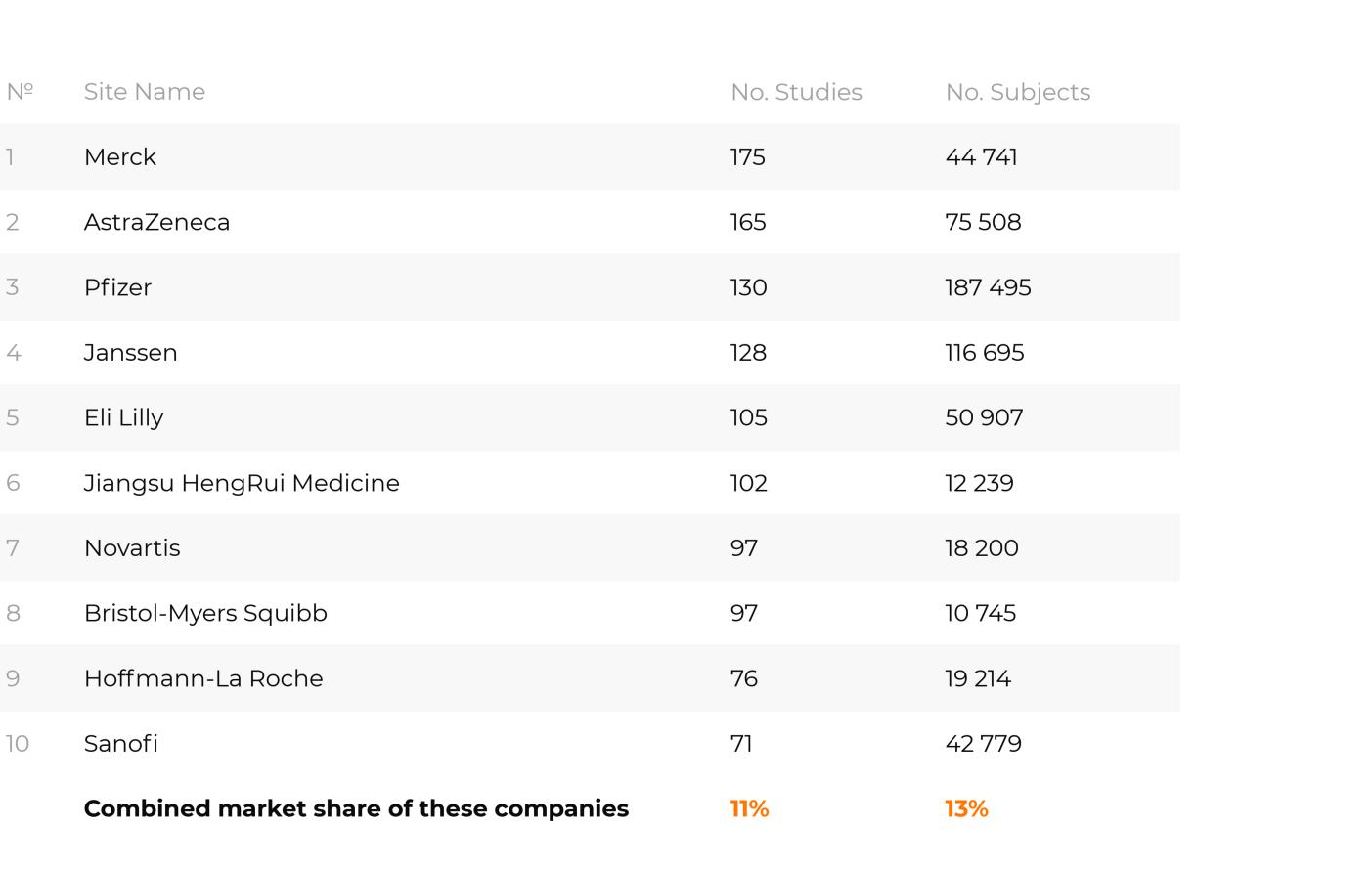
Breakdown of Worldwide Clinical Trials by Phase

4 237

Y 2019

3 746

However, it's remarkable that the combined market power of these leading pharmaceutical corporations accounts for just 11% of all interventional clinical trials worldwide where the study Phase has been identified, and just 13% of all enrolled subjects. Here are the top-10 global sponsors by total number of studies initiated in the Year 2020. No. Subjects



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 – with approximately 0,06% Worldwide

About The Orange Paper

The total number of subjects enrolled in Clinical trials

worldwide of all types in the Year 2020 reached 4,577,865

subjects. The majority of subjects were (or planned to be)

enrolled in Phase III and Phase IV trials, and the largest

proportion of the global subject population were from

Phase II Phase III Phase I

697 865

Number of Subjects Enrolled Worldwide

2 038 715

1 696 144

Phase IV

by Phase in Y 2020

145 141

close of each year.

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sources into a single brief document to aid decision makers planning to conduct clinical trials.

Synergy Research Group for the pharmaceutical industry

since 2007. It pulls together data from numerous public

The Orange Paper is a free publication produced by

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

20/01/2021

We set up the highest level of world-class quality both

for SOPs and for final study data in every clinical trial

All of the data within this document are actual on date:

It is produced quarterly, with an annual summary at the

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.

Canada since 2002. we conduct. Synergy consistently ranks in the top-10 market leaders by

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number of conducted clinical studies and enrolled patients.