Y 2020 Research report

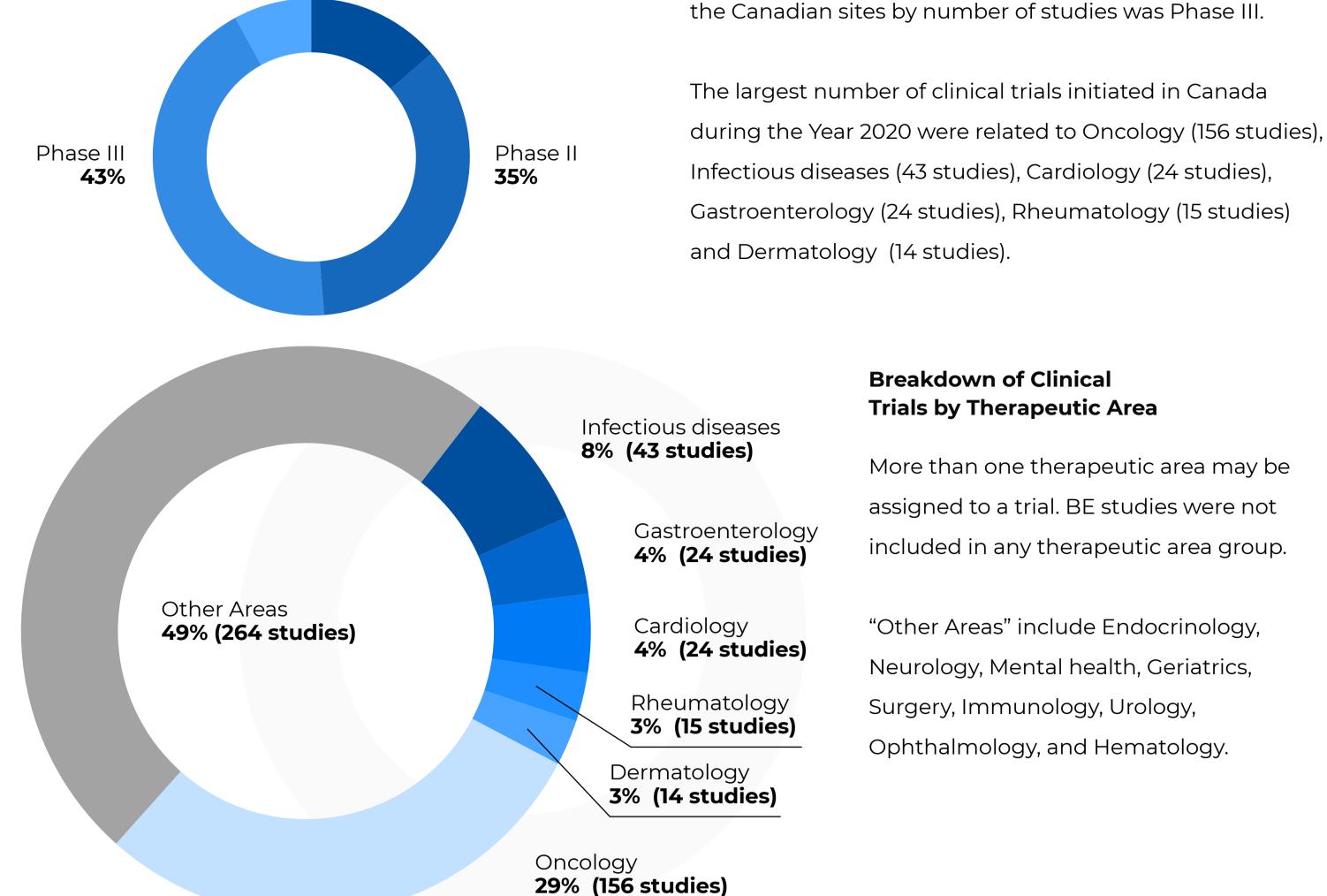
During the Year 2020 there were 1,196 clinical trials initiated

O Trial Data

in Canada including local and bioequivalence studies. That 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

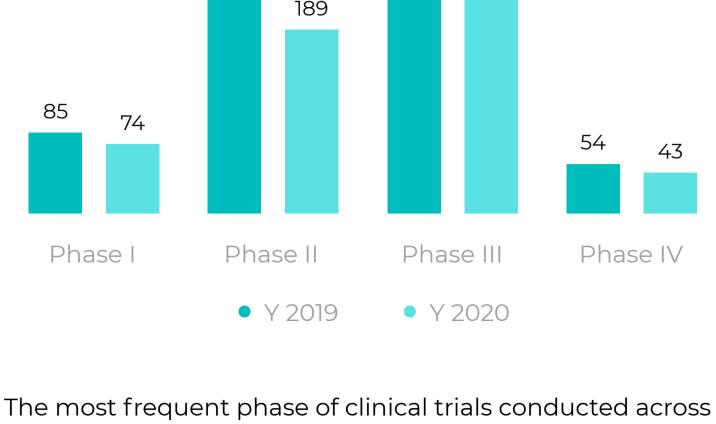
Phase IV Phase I 8% 14%

interventional studies with a 83% market share.



234 232 223

Breakdown of Clinical Trials by Phase (Canada)



The largest number of clinical trials initiated in Canada

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

Trials by Therapeutic Area

More than one therapeutic area may be assigned to a trial. BE studies were not

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

Surgery, Immunology, Urology, Ophthalmology, and Hematology.

Neurology, Mental health, Geriatrics,

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.

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%

160 001 32 397 36 228 13 688 _{8 046} 5 885 Phase II Phase III Phase IV Phase I Y 2019 Y 2020 Regulatory Data

In Q4 2020 the Health Products and Food Branch of Health

Canada authority approved 8 new drug applications.

Company

Celgene

NovoRapid

Pfizer

Source: Health Canada

Breakdown of Number of Subjects Enrolled by Phase

231 553

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

Menquadfi (Meningococcal Polysaccharide 29/10/2020 Sanofi Tetanus Toxoid Conjugate) 30/10/2020 Idacio (Adalimumab) Fresenius Kabi 04/11/2020 Amgevita (Adalimumab) Amgen 25/11/2020 Hulio (Adalimumab) **BGP Pharma** Company / Investigator Site Firm **FDA** inspections City Outcome According to U.S. FDA data, there were 3 FDA Scarborough Pharma Medica Research NAI inspections conducted in the Canadian Agada Biosciences investigative sites during 2020, wherein two Halifax VAI inspections ended with No Action Indicated Mississauga Pharma Medica Research NAI (NAI) outcomes, and one inspection ended with Voluntary Action Indicated (VAI) outcome.

100

90

28/10/2020

Worldwide Clinical Tr During the Year 2020 the official FDA website show approvals for initiation of 29,792 new clinical trials of

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.

same time according with the official FDA website there

6 246

Clinical Tria				
During the Year 2020 the official FDA website showed	The combined market share of the U.S. and European			
approvals for initiation of 29,792 new clinical trials of all	countries by number of global initiated studies dropped			
types worldwide, including local and BE studies with an	from 72% to 69%, with the U.S. having 30% and Europe			

were Interventional Clinical Trials.

having 39%.

from 28% to 31%.

enrolled subjects.

studies initiated in the Year 2020.

8 154 80 70 60 10 797 11 656 50 40 1 196 1343 30

20 8 917 8 786 10 \bigcirc Y 2019 Y 2020 Europe Rest of the World Canada U.S. The Top-10 list of global Sponsors of Clinical Trials worldwide remained almost unchanged for the past 10 years – this fact 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.

Breakdown of Worldwide Clinical Trials by Phase Y 2020 Y 2019 Phase I Phase II Phase III Phase IV

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

2 625 2 688 3 746 4 237 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

Here are the top-10 global sponsors by total number of

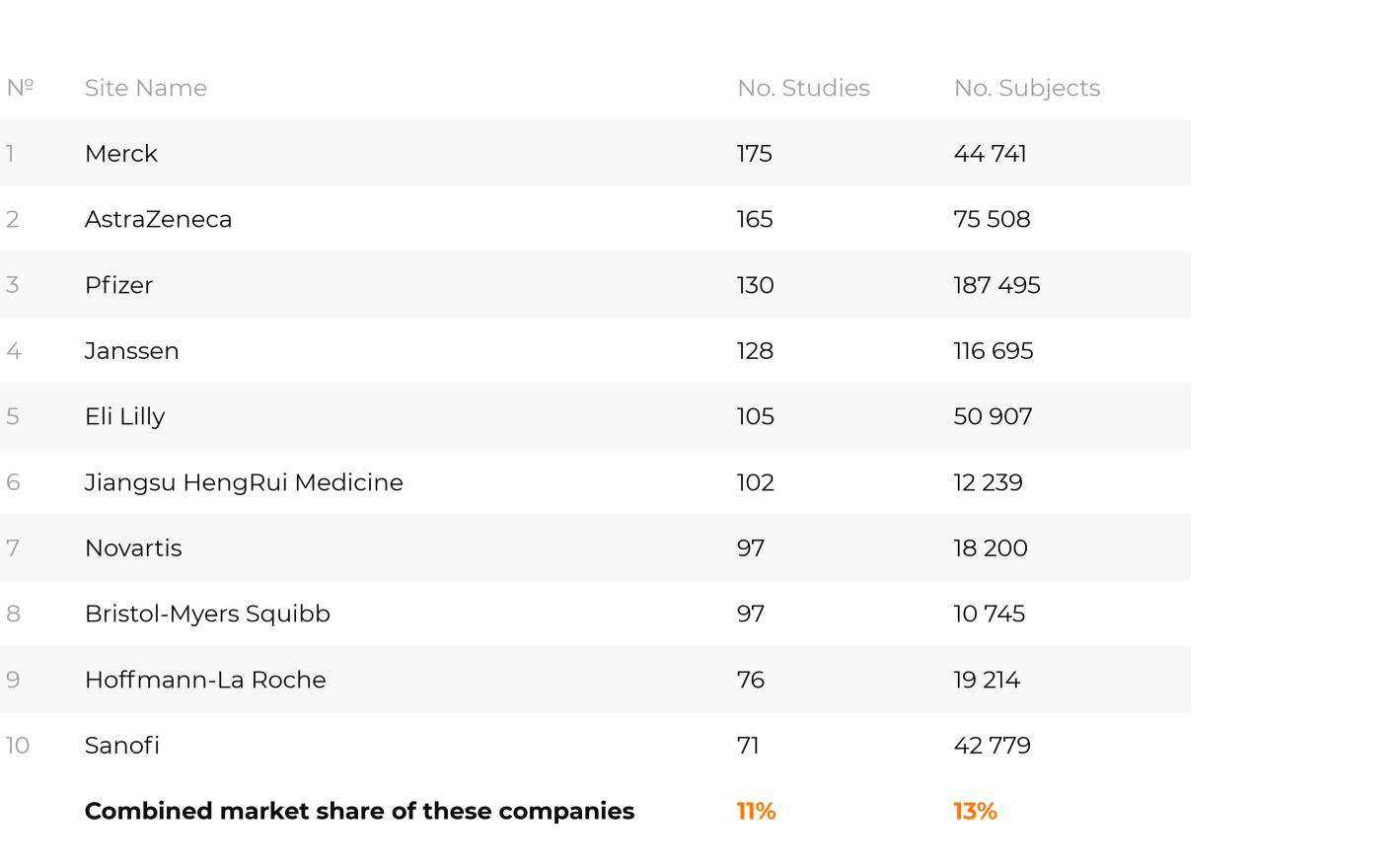
1905

2 207

1354

1 419

116 695 50 907 12 239



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 the U.S., Canada and European countries. However, the share of subjects participating in clinical

Worldwide **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

planning to conduct clinical trials.

sources into a single brief document to aid decision makers

trials remains extremely low in comparison with overall

size of the population – with approximately 0,06%

697 865 145 141

Phase II

Number of Subjects Enrolled Worldwide

2 038 715

Phase III

1 696 144

Phase IV

by Phase in Y 2020

Phase I

20/01/2021

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It is produced quarterly, with an annual summary at the close of each year. All of the data within this document are actual on date:

About Synergy Research Group Synergy Research Group is a contract research organization

successfully operating in Russia, Kazakhstan, Ukraine and Canada since 2002.

offer our clients conduct faster, more cost-effective studies

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

We set up the highest level of world-class quality both for SOPs and for final study data in every clinical trial we conduct.

management and IT infrastructure - and replacing outdated R&D strategies by novel, more efficient approaches to clinical research.

We are continuously improving our SOPs, study risk

without sacrificing quality for our clients.