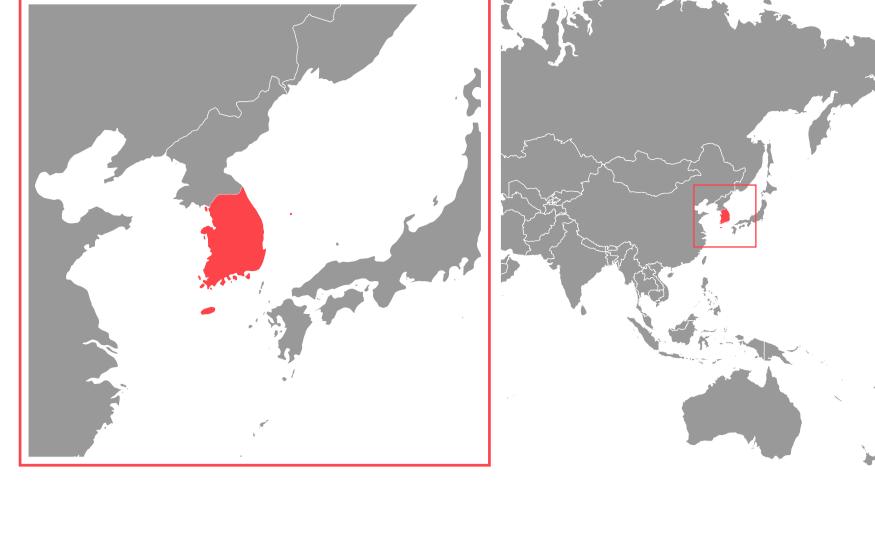
Year 2020 Research report

Sponsor Data Subject Data Trial Data Data Search and Analysis Location Data About ACROSS

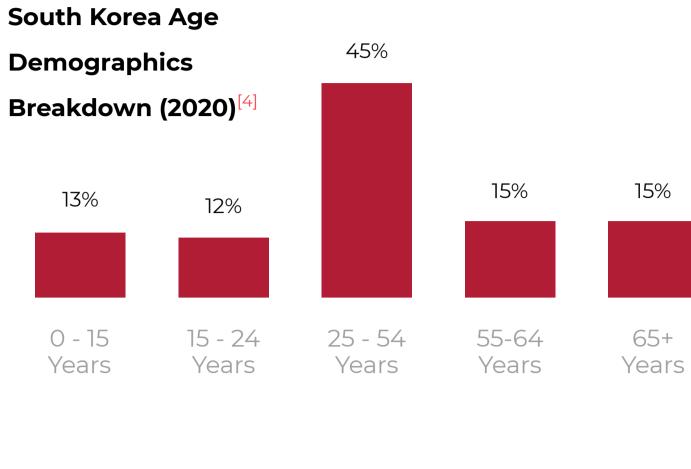
# Location Data

demonstrated unprecedented growth over the past two decades in terms of both the quality and quantity of clinical trials conducted. The country's blend of clinical research experience, advanced healthcare infrastructure, high population density, and a highly supportive, investment minded, government has boosted the country into one of the top locations worldwide for conducting clinical trials

The Clinical Trials industry in South Korea has



which are of Korean ethnicity.[2]



The Ministry of Food and Drug Safety (MFDS), is a South

the public health by ensuring the safety and efficiency of

foods, pharmaceuticals, medical devices and cosmetics

as well as supporting the development of the food and

pharmaceutical industries.<sup>[5]</sup>

Korea government agency responsible for promoting

healthcare access. Satisfaction of healthcare has been

The country' population is 51,27 million people, 196% of

funded. In 2015, South Korea ranked first in the OECD for consistently among the highest in the world - South Korea was rated as the second most efficient healthcare system by Bloomberg.<sup>[3]</sup> Clinical Trials Regulations may be found on the MFDS

South Koreans have access to a universal healthcare safety

net, although a significant portion of healthcare is privately

website at: https://www.mfds.go.kr/eng/brd/m\_18/list.do



## The main goal is to offer people safe foods and drugs. South Korea - Clinical Trial Overview

clinical trials. Those include but are not limited to: The excellence of Korean investigators

There are a multitude of factors that make South Korea

stand out as an excellent destination for the conduct of

- Regulatory reform and harmonization in the early 2000s • The establishment of the "Clinical Trial Centers (CTCs)"
- many with world-class facilities including phase I units and
- well-trained clinical trial personnel • The Human Research Protection Program (HRPP) • Efficient and experienced IRBs at major university
- hospitals
- These factors and more, have contributed significantly to

studies.

South Korea's success in attracting global development

within the Seoul agglomeration. [6] Four Korean sites are included in top-10 global clinical investigator sites: Seoul National University, Asan Medical

Center, Samsung Medical Center, and Yonsei University

184 medical institutions were designated by the Korean

government as qualified clinical trial sites, 57 of which are

Severance.<sup>[7]</sup> Korea also has one of the world-wide lowest percentages of nonrecruiting sites at just 4.6%.[7]

The key disease patterns in Korea are similar to those in

Western countries. Korean patients also have similar unmet medical needs as patients in Western countries.<sup>[7]</sup>

### The Korean Ministry of Food and Drug Safety (MFDS) is Korea's drug clinical trial approval forms can now be the main regulatory body for drugs, medical devices, food, submitted through the e-registration system. Applicants

Regulatory & Ethics Approval Process

- and cosmetic products.[8] • The sponsor should obtain Institutional Review Board (IRB) approval for a new clinical study.
- All of the documents in the clinical trial application should be translated into Korean language.
- The IRB approval process can take 1-2 months. After the completion of IRB approval process the clinical

study should be registered in CRIS (Clinical Research

Trial Data

local and bioequivalence studies) during the Year 2020.

This translates to a 13% decline in the number of clinical

both IRB and MFDS approval. To obtain approval of a clinical trial protocol in South Korea, a foreign company without an established presence in Korea must delegate all rights and responsibilities for the

and CROs can self-register their products after receiving

execution of the clinical trial through an agreement with a contract research organization established in Korea.

**Breakdown of Clinical Trials in South Korea** 

136

141

166

150

36

by Phase (Year 2020)

94

94

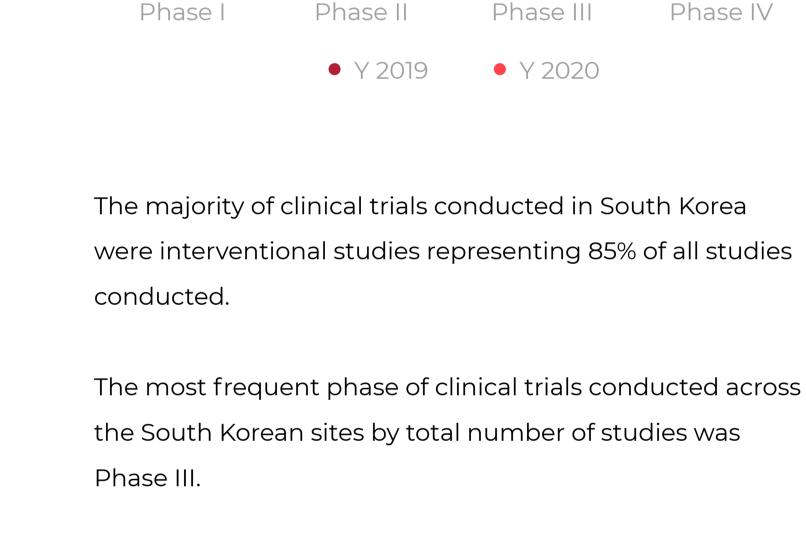
## Based on data extracted from ClinicalTrials.gov, there were 718 clinical trials initiated in South Korea (including

Information Services). [9]

decrease.

trials initiated in comparison with the previous year when a total of 822 studies were initiated. However, if one excludes bioequivalence studies and studies without a defined "Phase" there were only 416 clinical trials initiated during the Year 2020 compared to 443 studies initiated in previous year, representing a 6%

Phase IV Phase I 8% **23**%





In accordance with these studies' descriptions, Remdesivir, Ciclesonide, Molnupiravir, Clevudine and Lopinavir-Ritonavir became the most promising medications in this area. **Number of Clinical Trials** 5 993 conducted in South Korea

822

Y 2019

Also, during the same period there were 15

interventional studies initiated with the aim

of evaluating different COVID-19 treatment

methods with 13,834 subjects to be enrolled.

Sponsor Data

South KoreaAPAC

vs. APAC Region

companies).

Endocrinology (23 studies).



718

Y 2020

By country / region of origin Europe accounted for the largest number of foreign pharmaceutical sponsored clinical trials initiated during Year 2020 in South Korea. The headquarters of foreign sponsor companies

At the same time there were two domestic innovative South Korean companies – Chong Kun Dang Pharm. and HK inno.N Corporation, conducting clinical studies in South Korea and which appear in the TOP-10 ranking table.

Observational clinical trials and clinical trials without

were split between Europe (5 companies) and the U.S. (3

ranking.

FDA-defined phases (from I to IV) were not counted in this

## Oncology **36% (151 trials)** Other 50% (207 trials) Gastroenterology 8% (35 trials) Endocrinology 6% (23 trials) Approximately 12% of all clinical trials conducted in the Asia Pacific (APAC) region involve Korean investigative sites 5 988 More than one therapeutic area could be assigned to a trial.

Top-10 clinical trial Sponsors in South Korea in Y 2020

Studies

Subjects

FDA-defined phases (from I to IV) were not included in this

chart. APAC is defined as macro-region including East Asia,

Observational Clinical trials and Clinical trials without

South Asia, Southeast Asia and Oceania.

Nº Company Name

34 21 176 Merck AstraZeneca 28 14 430 3 Hoffmann-La Roche 8 654 23 Chong Kun Dang 22 1507 4 Pharmaceutical 5 044 lanssen

# Subject Data

The overall number of subjects enrolled (or planned to be enrolled) in clinical trials initiated in South Korea during the Year 2020 (including multi-center international studies) remains almost the same as in the previous year: 154,934 subjects in the Year 2020 versus 154,986 subjects in the Year 2019. 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.

5	Janssen	15	5 044
6	Sanofi	10	3 045
7	AbbVie	9	2 623
8	HK inno.N Corporation	9	408
9	Eli Lilly	8	16 538
10	GlaxoSmithKline	8	5 518
	Camalain ad alaawa		
	Combined share	40%	51%

113 705 114 898

**Breakdown of Number of Subjects Enrolled in** 

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## Clinical Trials in South Korea

Year 2020 Research report

## Data Search and Analysis Approach

All of stats data used in this document were downloaded from the ClinicalTrials.gov website as a .CSV file with the download options listed in the table below.

.CSV file export was completed with the following options:
Number of studies [to download]: all studies.
Select table columns: All available columns.
Select file format: Comma-separated values.

No	Item Name	Fields in Pivot Table	Details
1	Number of Y 2020 Trials conducted in South Korea vs. APAC Region	NCT	
2	Breakdown of Clinical Trials initiated in South Korea by Phase	NCT, Phases	Exclude "Not Applicable" and empty values in "Phase" field
3	Percentage Breakdown of Clinical Trials initiated in South Korea by Phase	NCT, Phases	Exclude "Not Applicable" and empty values in "Phase" field
4	Breakdown of Clinical Trials in South Korea by Therapeutic Area	NCT, Conditions, Phases	See below *
5	Breakdown of Interventional vs. Observational Trials in South Korea	NCT, Study Type	
6	Sponsors Ranked By Number of Studies and Number of Subjects	NCT, Enrollment, Phases, Sponsor	See below **
7	Breakdown of Number of Subjects Enrolled in South Korea by Phase	NCT, Phases, Enrollment	See below ***

<sup>\*</sup> Use "Phases" filed as a filter. Exclude "Not Applicable" and empty values in "Phase" field. Use a simple Dictionary of Nosologies (see below) to count the number of studies for each nosology.

\*\*\* Exclude "Not Applicable" and empty values in "Phase" field. Use "Number of values" by "NCT Number" field. Use "Sum" by "Enrollment" field.

\*\* Use "Phases" filed as a filter. Exclude "Not Applicable" and empty values in "Phase" field. Use "Number of values" by "NCT Number" field. Use "Sum" by "Enrollment" field. Use decreasing sorting of the table by "NCT Number" field.

If you want to use the same source .CSV file used in this report – just let us know via info@across.global and we'll send it to you.

### Dictionary of Nosologies used for Breakdown by Therapeutic Area

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Nº	Therapeutic Area	Filter String
9	Oncology	*cancer + phoma + noma + tumor + sarcoma*
10	Ophthalmology	*eye + ophtalm*
11	Rheumatology	*rheum + arthr*
12	Endocrinology	*endocrin + insulin + diabete*
13	Mental health	*mental + psych + depress + anxiety*
14	Surgery	*surger + transplant*
15	Geriatrics	*alzh + parkins*

## **About The White Paper**

The White Paper is a free publication produced by ACROSS Global (CRO) Alliance for decision makers in the pharmaceutical industry. The document pulls together data from numerous public sources into a single brief document to aid decision makers planning to conduct clinical trials.

All of the data contained in this document are actual as of 28-JAN-2021.

For more information or if you would like to review a .CSV file of the data extracted from ClinicalTrials.gov (used in this White Paper) please write to: info@across.global.

### **About ACROSS Global**

ACROSS Global is a global alliance of local contract research organizations successfully operating in 99 countries and covering more than 25 therapy areas.

High recruitment rates combined with innovative technology allows ACROSS partner companies to offer our clients conduct faster, more cost-effective studies without sacrificing quality for our clients.

All clinical studies conducted by ACROSS Partners conform to Good Clinical Practice (GCP) as well as local and international regulations ensuring the highest level of quality of the final study data.

We apply continuous improvement methodology to our working practices and IT infrastructure – and replace outdated R&D strategies by novel, more efficient approaches to clinical research.

