

Investigator Gazetteer Report – Trials, Sites and Subjects - Feb 2021

Trials, Sites and Subjects

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<https://www.clinicaltrialmagnifier.org/>

Objective and Material

The objective of this report is to display the number of trials, study sites and subjects of industry-sponsored clinical trials.

The data represent industry-sponsored clinical trials for a four year period, i.e. for trials registered with the US trial registry (clinicaltrials.gov) between January 1, 2017 to December 31, 2020.

Results

The results are shown in Table 1, Table 2 and Table 3.

Numbers of Trials by Study Phase

Table 1 provides the number of trials, study sites and subjects per trial phase. Trials lacking study phase have been omitted here.

The number of trials are highly phase dependent – decreasing number of trials with increasing trial phase. The number of sites and subjects are also trial phase dependent. Phase 3 trials have the highest number of sites per trial (52.9) and the highest number of subjects per trial (676.0), but the comparable number of subjects per site as phase 1 and 2 trials (13-16 per site).

The annual mean number of phase 2+3 trials is 1,830 counting for 63,000 sites and 860,000 subjects.

Table 1. Number of trials, sites and subjects per **study phase** over a period of four full consecutive years (2017.01-2020.12).

Phase	Trials (n)	Sites (n)	Sites (%)	Subjects (n)	Subjects (%)	Sites/Trial (n)	Subj/Trial (n)	Subj/Site (n)
1	6,899	28,795	9.9	454,366	10.9	4.2	65.9	15.8
2	4,052	80,210	27.5	1,230,972	29.6	19.8	303.8	15.3
3	3,269	172,893	59.2	2,209,922	53.2	52.9	676.0	12.8
4	757	10,028	3.4	261,206	6.3	13.2	345.1	26.0
Total	14,977	291,926	100.0	4,156,466	100.0	19.5	277.5	14.2

Numbers of Trials by Therapeutic Area

Tables 2 and 3 gives the number of trials, study sites and subjects **per therapeutic area** for phase 2 and 3 trials, respectively. The less common therapeutic areas have been omitted here.

There is a large variation in the number of sites and subjects by therapeutic area and study phase (phase 2 and 3). One example is taken from the most popular therapeutic area – oncology; a phase 2 oncology trial has on average a sample size of 117.1 subjects and 5.2 subjects per site. In contrast a phase 3 oncology trial has a significant higher average sample size of 448.3 subjects and 6.7 subjects per site.

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Table 2. Number of trials, sites and subjects per therapeutic area for **phase 2** trials over a period of four full consecutive years (2017.01-2020.12).

Area	Trials (n)	Sites (n)	Sites (%)	Subjects (n)	Subjects (%)	Sites/Trial (n)	Subj/Trial (n)	Subj/Site (n)
Oncology	1,040	23,229	29.4	121,775	10.0	22.3	117.1	5.2
Infectious	610	8,430	10.7	573,393	47.2	13.8	940.0	68.0
Neurology	343	7,162	9.1	49,707	4.1	20.9	144.9	6.9
Gastroenterology	246	9,782	12.4	37,748	3.1	39.8	153.4	3.9
Dermatology	227	3,538	4.5	26,238	2.2	15.6	115.6	7.4
Endocrinology	214	3,053	3.9	25,558	2.1	14.3	119.4	8.4
Cardiology	199	4,488	5.7	30,483	2.5	22.6	153.2	6.8
Ophthalmology	168	2,249	2.8	22,845	1.9	13.4	136.0	10.2
Allergy	145	3,635	4.6	20,742	1.7	25.1	143.0	5.7
Psychiatrics	133	2,053	2.6	20,683	1.7	15.4	155.5	10.1
Rheumatology	129	3,682	4.7	21,825	1.8	28.5	169.2	5.9
Hematology	120	1,347	1.7	7,243	0.6	11.2	60.4	5.4
Urology	108	2,373	3.0	22,676	1.9	22.0	210.0	9.6
Pulmonary	98	2,390	3.0	14,856	1.2	24.4	151.6	6.2
Orthopedics	63	791	1.0	7,394	0.6	12.6	117.4	9.3
Anesthesiology	53	155	0.2	205,827	16.9	2.9	3883.5	1327.9
Obstetrics & Gynecology	39	764	1.0	6,275	0.5	19.6	160.9	8.2
Total	3,935	79,121	100.0	1,215,268	100.0	20.1	308.8	15.4

Table 3. Number of trials, sites and subjects per therapeutic area for **phase 3** trials over a period of four full consecutive years (2017.01-2020.12).

Area	Trials (n)	Sites (n)	Sites (%)	Subjects (n)	Subjects (%)	Sites/Trial (n)	Subj/Trial (n)	Subj/Site (n)
Oncology	697	50,729	29.7	340,376	15.6	72.8	488.3	6.7
Infectious	428	15,097	8.8	901,433	41.3	35.3	2106.2	59.7
Endocrinology	254	14,676	8.6	166,649	7.6	57.8	656.1	11.4
Neurology	239	12,269	7.2	104,395	4.8	51.3	436.8	8.5
Cardiology	222	11,440	6.7	157,263	7.2	51.5	708.4	13.7
Dermatology	199	6,979	4.1	76,195	3.5	35.1	382.9	10.9
Allergy	152	8,894	5.2	78,920	3.6	58.5	519.2	8.9
Gastroenterology	151	17,873	10.5	61,782	2.8	118.4	409.2	3.5
Ophthalmology	151	6,097	3.6	56,959	2.6	40.4	377.2	9.3
Psychiatrics	139	4,617	2.7	49,653	2.3	33.2	357.2	10.8
Rheumatology	130	6,842	4.0	56,737	2.6	52.6	436.4	8.3
Hematology	127	4,314	2.5	18,919	0.9	34.0	149.0	4.4
Pulmonary	74	4,193	2.5	32,543	1.5	56.7	439.8	7.8
Obstetrics & Gynecology	64	3,162	1.9	32,560	1.5	49.4	508.8	10.3
Urology	60	2,245	1.3	24,165	1.1	37.4	402.8	10.8
Anesthesiology	52	420	0.2	15,911	0.7	8.1	306.0	37.9
Orthopedics	48	877	0.5	6,959	0.3	18.3	145.0	7.9
Total	3,187	170,724	100.0	2,181,419	100.0	53.6	684.5	12.8