

TABLE 20

Higher education R&D expenditures for clinical trials, by source of funds, highest degree granted, and institutional control: FYs 2010–22

(Dollars in thousands)

Number, source of funds, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
All institutions													
Number of institutions with clinical trials R&D	173	178	166	168	175	177	173	180	179	190	189	194	195
All R&D	43,587,067	46,154,058	46,182,393	47,418,917	48,723,966	50,430,594	52,864,519	56,008,482	60,122,411	64,855,950	66,902,937	69,659,572	76,975,963
All clinical trials R&D	1,714,192	1,794,605	1,873,001	1,965,214	2,202,132	2,340,220	2,587,395	2,852,132	3,180,148	3,353,337	3,424,231	3,691,698	4,142,673
Federal R&D	27,502,023	29,715,665	28,976,410	28,789,379	28,198,218	28,177,539	29,009,441	30,367,880	31,974,883	34,781,483	36,094,442	38,583,025	42,963,506
Federal clinical trials R&D	705,908	827,470	851,445	934,697	978,436	1,023,680	1,069,439	1,128,365	1,248,313	1,417,236	1,433,080	1,726,712	1,892,665
Nonfederal R&D	16,085,044	16,438,393	17,205,983	18,629,538	20,525,748	22,253,055	23,855,078	25,640,602	28,147,528	30,074,467	30,808,495	31,076,547	34,012,457
Nonfederal clinical trials R&D	1,008,284	967,135	1,021,556	1,030,517	1,223,696	1,316,540	1,517,956	1,723,767	1,931,835	1,936,101	1,991,151	1,964,986	2,250,008
Doctorate													
Number of institutions with clinical trials R&D	147	150	150	153	158	162	158	166	167	177	179	181	183
All R&D	43,531,732	46,058,907	46,080,033	47,361,367	48,665,453	50,369,223	52,788,285	55,935,168	60,065,299	64,779,841	66,833,097	69,540,915	76,841,870
All clinical trials R&D	1,707,121	1,785,054	1,864,766	1,957,251	2,192,744	2,333,744	2,580,786	2,847,006	3,176,169	3,349,337	3,419,355	3,684,688	4,136,504
Federal R&D	27,465,906	29,664,114	28,918,557	28,753,249	28,169,821	28,149,627	28,979,577	30,339,888	31,948,946	34,749,034	36,069,100	38,534,189	42,907,174
Federal clinical trials R&D	701,140	820,906	844,494	927,428	970,563	1,018,512	1,064,609	1,123,993	1,245,075	1,414,153	1,429,637	1,721,223	1,887,904
Nonfederal R&D	16,065,826	16,394,793	17,161,476	18,608,118	20,495,632	22,219,596	23,808,708	25,595,280	28,116,353	30,030,807	30,763,997	31,006,726	33,934,696
Nonfederal clinical trials R&D	1,005,981	964,148	1,020,272	1,029,823	1,222,181	1,315,232	1,516,177	1,723,013	1,931,094	1,935,184	1,989,718	1,963,465	2,248,600
Nondoctorate													
Number of institutions with clinical trials R&D	26	28	16	15	17	15	15	14	12	13	10	13	12
All R&D	55,335	95,151	102,360	57,550	58,513	61,371	76,234	73,314	57,112	76,109	69,840	118,657	134,093
All clinical trials R&D	7,071	9,551	8,235	7,963	9,388	6,476	6,609	5,126	3,979	4,000	4,876	7,010	6,169
Federal R&D	36,117	51,551	57,853	36,130	28,397	27,912	29,864	27,992	25,937	32,449	25,342	48,836	56,332
Federal clinical trials R&D	4,768	6,564	6,951	7,269	7,873	5,168	4,830	4,372	3,238	3,083	3,443	5,489	4,761
Nonfederal R&D	19,218	43,600	44,507	21,420	30,116	33,459	46,370	45,322	31,175	43,660	44,498	69,821	77,761
Nonfederal clinical trials R&D	2,303	2,987	1,284	694	1,515	1,308	1,779	754	741	917	1,433	1,521	1,408
Public													
Number of institutions with clinical trials R&D	100	101	96	99	105	110	106	110	113	123	123	124	123
All R&D	27,143,937	29,081,518	28,993,617	29,729,578	30,628,443	31,888,357	33,093,010	34,885,172	37,838,586	40,986,027	42,415,108	43,881,084	48,264,210
All clinical trials R&D	578,615	599,545	633,542	709,484	754,680	802,260	946,784	1,070,209	1,209,865	1,291,224	1,416,674	1,561,088	1,737,704
Federal R&D	15,921,337	17,253,156	16,779,967	16,780,475	16,373,306	16,420,639	16,971,884	17,696,570	18,755,790	20,552,572	21,362,477	22,578,833	25,286,088
Federal clinical trials R&D	162,213	204,202	223,816	244,154	235,678	245,828	262,305	264,682	304,152	387,333	440,614	577,481	642,691
Nonfederal R&D	11,222,600	11,828,362	12,213,650	12,949,103	14,255,137	15,467,718	16,121,126	17,188,602	19,082,796	20,433,455	21,052,631	21,302,251	22,978,122
Nonfederal clinical trials R&D	416,402	395,343	409,726	465,330	519,002	556,432	684,479	805,527	905,713	903,891	976,060	983,607	1,095,013
Private													
Number of institutions with clinical trials R&D	73	77	70	69	70	67	67	70	66	67	66	70	72
All R&D	16,443,130	17,072,540	17,188,776	17,689,339	18,095,523	18,542,237	19,771,509	21,123,310	22,283,825	23,869,923	24,487,829	25,778,488	28,711,753
All clinical trials R&D	1,135,577	1,195,060	1,239,459	1,255,730	1,447,452	1,537,960	1,640,611	1,781,923	1,970,283	2,062,113	2,007,557	2,130,610	2,404,969

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(Dollars in thousands)

Number, source of funds, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Federal R&D	11,580,686	12,462,509	12,196,443	12,008,904	11,824,912	11,756,900	12,037,557	12,671,310	13,219,093	14,228,911	14,731,965	16,004,192	17,677,418
Federal clinical trials R&D	543,695	623,268	627,629	690,543	742,758	777,852	807,134	863,683	944,161	1,029,903	992,466	1,149,231	1,249,974
Nonfederal R&D	4,862,444	4,610,031	4,992,333	5,680,435	6,270,611	6,785,337	7,733,952	8,452,000	9,064,732	9,641,012	9,755,864	9,774,296	11,034,335
Nonfederal clinical trials R&D	591,882	571,792	611,830	565,187	704,694	760,108	833,477	918,240	1,026,122	1,032,210	1,015,091	981,379	1,154,995

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.