

TABLE 20

Higher education R&D expenditures for clinical trials, by source of funds, highest degree granted, and institutional control: FYs 2010–21

(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
All institutions												
Number of institutions with clinical trials R&D	173	178	166	169	176	178	174	181	180	191	189	194
All R&D	43,587,067	46,154,058	46,182,393	47,521,867	48,823,411	50,518,176	52,974,681	56,092,244	60,206,052	64,936,027	66,979,960	69,735,128
All clinical trials R&D	1,533,053	1,587,503	1,667,554	1,756,031	1,998,453	2,138,547	2,367,976	2,621,635	2,938,075	3,093,342	3,154,663	3,387,004
Federal R&D	27,502,023	29,715,665	28,976,410	28,839,622	28,242,451	28,219,390	29,059,366	30,420,421	32,030,351	34,832,958	36,154,336	38,637,519
Federal clinical trials R&D	539,834	637,812	665,163	747,442	793,733	840,757	867,041	920,753	1,032,010	1,183,895	1,186,056	1,447,555
Nonfederal R&D	16,085,044	16,438,393	17,205,983	18,682,245	20,580,960	22,298,786	23,915,315	25,671,823	28,175,701	30,103,069	30,825,624	31,097,609
Nonfederal clinical trials R&D	993,219	949,691	1,002,391	1,008,589	1,204,720	1,297,790	1,500,935	1,700,882	1,906,065	1,909,447	1,968,607	1,939,449
Doctorate												
Number of institutions with clinical trials R&D	147	150	150	154	159	163	159	167	168	178	179	181
All R&D	43,531,732	46,058,907	46,080,033	47,464,317	48,764,898	50,456,805	52,898,447	56,018,930	60,148,940	64,859,918	66,910,120	69,616,471
All clinical trials R&D	1,525,982	1,577,952	1,659,319	1,748,068	1,989,065	2,132,071	2,361,367	2,616,509	2,934,096	3,089,342	3,149,787	3,379,994
Federal R&D	27,465,906	29,664,114	28,918,557	28,803,492	28,214,054	28,191,478	29,029,502	30,392,429	32,004,414	34,800,509	36,128,994	38,588,683
Federal clinical trials R&D	535,066	631,248	658,212	740,173	785,860	835,589	862,211	916,381	1,028,772	1,180,812	1,182,613	1,442,066
Nonfederal R&D	16,065,826	16,394,793	17,161,476	18,660,825	20,550,844	22,265,327	23,868,945	25,626,501	28,144,526	30,059,409	30,781,126	31,027,788
Nonfederal clinical trials R&D	990,916	946,704	1,001,107	1,007,895	1,203,205	1,296,482	1,499,156	1,700,128	1,905,324	1,908,530	1,967,174	1,937,928
Nondoctorate												
Number of institutions with clinical trials R&D	26	28	16	15	17	15	15	14	12	13	10	13
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
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
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
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
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
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
Public												
Number of institutions with clinical trials R&D	100	101	96	100	106	111	107	111	114	124	124	125
All R&D	27,143,937	29,081,518	28,993,617	29,832,528	30,727,888	31,975,939	33,203,172	34,968,934	37,922,227	41,066,104	42,493,027	43,957,983
All clinical trials R&D	578,615	599,545	633,542	709,889	754,804	802,818	948,240	1,070,820	1,210,863	1,292,386	1,417,887	1,562,350
Federal R&D	15,921,337	17,253,156	16,779,967	16,830,718	16,417,539	16,462,490	17,021,809	17,749,111	18,811,258	20,604,047	21,423,133	22,634,457
Federal clinical trials R&D	162,213	204,202	223,816	244,240	235,778	246,200	263,574	265,194	304,928	388,288	441,614	578,596
Nonfederal R&D	11,222,600	11,828,362	12,213,650	13,001,810	14,310,349	15,513,449	16,181,363	17,219,823	19,110,969	20,462,057	21,069,894	21,323,526

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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
Nonfederal clinical trials R&D	416,402	395,343	409,726	465,649	519,026	556,618	684,666	805,626	905,935	904,098	976,273	983,754
Private												
Number of institutions with clinical trials R&D	73	77	70	69	70	67	67	70	66	67	65	69
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	24,486,933	25,777,145
All clinical trials R&D	954,438	987,958	1,034,012	1,046,142	1,243,649	1,335,729	1,419,736	1,550,815	1,727,212	1,800,956	1,736,776	1,824,654
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	14,731,203	16,003,062
Federal clinical trials R&D	377,621	433,610	441,347	503,202	557,955	594,557	603,467	655,559	727,082	795,607	744,442	868,959
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	9,755,730	9,774,083
Nonfederal clinical trials R&D	576,817	554,348	592,665	542,940	685,694	741,172	816,269	895,256	1,000,130	1,005,349	992,334	955,695

Source(s):

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