

TABLE 20

Higher education R&D expenditures for clinical trials, by source of funds, highest degree granted, and institutional control: FYs 2010–23

(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	2023
All institutions														
Number of institutions with clinical trials R&D	173	178	166	168	175	177	174	181	180	191	190	196	197	199
All R&D	43,587,067	46,154,058	46,182,393	47,418,917	48,723,966	50,430,594	52,866,113	56,010,657	60,125,167	64,859,287	66,906,855	69,665,953	76,975,674	85,708,847
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	3,691,923	4,148,463	4,591,549
Federal R&D	27,502,023	29,715,665	28,976,410	28,789,379	28,198,218	28,177,539	29,009,700	30,368,146	31,975,156	34,781,763	36,094,729	38,585,147	42,970,627	47,366,346
Federal clinical trials R&D	705,908	827,470	851,445	924,466	967,384	1,010,842	1,057,250	1,112,079	1,229,621	1,402,179	1,422,069	1,717,643	1,882,255	2,084,362
Nonfederal R&D	16,085,044	16,438,393	17,205,983	18,629,538	20,525,748	22,253,055	23,856,413	25,642,511	28,150,011	30,077,524	30,812,126	31,080,806	34,005,047	38,342,501
Nonfederal clinical trials R&D	1,008,284	967,135	1,021,556	1,040,748	1,234,748	1,329,378	1,530,145	1,740,053	1,950,527	1,951,158	2,002,162	1,974,280	2,266,208	2,507,187
Doctorate														
Number of institutions with clinical trials R&D	147	150	150	153	158	162	158	166	167	177	179	181	183	184
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	76,822,243	85,541,360
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	4,141,517	4,585,004
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	42,902,379	47,292,630
Federal clinical trials R&D	701,140	820,906	844,494	917,197	959,511	1,005,674	1,052,420	1,107,707	1,226,383	1,399,096	1,418,626	1,711,929	1,876,815	2,079,285
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	33,919,864	38,248,730
Nonfederal clinical trials R&D	1,005,981	964,148	1,020,272	1,040,054	1,233,233	1,328,070	1,528,366	1,739,299	1,949,786	1,950,241	2,000,729	1,972,759	2,264,702	2,505,719
Nondoctorate														
Number of institutions with clinical trials R&D	26	28	16	15	17	15	16	15	13	14	11	15	14	15
All R&D	55,335	95,151	102,360	57,550	58,513	61,371	77,828	75,489	59,868	79,446	73,758	125,038	153,431	167,487
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	7,235	6,946	6,545
Federal R&D	36,117	51,551	57,853	36,130	28,397	27,912	30,123	28,258	26,210	32,729	25,629	50,958	68,248	73,716
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	5,714	5,440	5,077
Nonfederal R&D	19,218	43,600	44,507	21,420	30,116	33,459	47,705	47,231	33,658	46,717	48,129	74,080	85,183	93,771
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	1,506	1,468
Public														
Number of institutions with clinical trials R&D	100	101	96	99	105	110	106	110	113	123	123	125	125	127
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	43,882,966	48,351,615	53,922,395
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	1,561,313	1,738,518	1,969,639
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	22,580,661	25,352,618	28,028,685
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	577,706	643,389	717,853
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	21,302,305	22,998,997	25,893,710
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	1,095,129	1,251,786
Private														
Number of institutions with clinical trials R&D	73	77	70	69	70	67	68	71	67	68	67	71	72	72
All R&D	16,443,130	17,072,540	17,188,776	17,689,339	18,095,523	18,542,237	19,773,103	21,125,485	22,286,581	23,873,260	24,491,747	25,782,987	28,624,059	31,786,452
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	2,409,945	2,621,910

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(Dollars in thousands)

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Federal R&D	11,580,686	12,462,509	12,196,443	12,008,904	11,824,912	11,756,900	12,037,816	12,671,576	13,219,366	14,229,191	14,732,252	16,004,486	17,618,009	19,337,661
Federal clinical trials R&D	543,695	623,268	627,629	680,312	731,706	765,014	794,945	847,397	925,469	1,014,846	981,455	1,139,937	1,238,866	1,366,509
Nonfederal R&D	4,862,444	4,610,031	4,992,333	5,680,435	6,270,611	6,785,337	7,735,287	8,453,909	9,067,215	9,644,069	9,759,495	9,778,501	11,006,050	12,448,791
Nonfederal clinical trials R&D	591,882	571,792	611,830	575,418	715,746	772,946	845,666	934,526	1,044,814	1,047,267	1,026,102	990,673	1,171,079	1,255,401

Source(s):

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