

TABLE 19

**Total R&D expenditures within medical schools, by highest degree granted and institutional control: FYs 2010–23**

(Dollars in thousands)

Number, medical school status, 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 medical schools	141	144	145	146	150	152	157	155	156	159	160	160	158	162
All R&D	40,380,697	42,941,206	43,056,379	44,826,210	46,138,811	47,372,130	49,965,703	52,568,534	55,515,110	60,549,529	62,485,784	65,070,863	70,483,643	78,914,718
Medical school R&D	21,437,682	23,215,960	22,885,999	22,716,092	22,867,301	23,550,033	24,764,109	26,282,480	27,849,424	29,906,763	30,849,038	33,120,326	35,844,570	39,484,286
Doctorate														
Number of institutions with medical schools	131	130	135	137	140	142	144	144	147	152	154	154	152	156
All R&D	40,333,614	42,835,538	42,957,410	44,780,213	46,085,337	47,326,040	49,878,276	52,496,944	55,458,527	60,498,790	62,436,517	65,020,742	70,426,308	78,851,268
Medical school R&D	21,419,712	23,174,106	22,844,442	22,695,488	22,847,813	23,531,182	24,714,792	26,245,661	27,819,236	29,879,611	30,822,412	33,094,404	35,815,877	39,439,598
Nondoctorate														
Number of institutions with medical schools	10	14	10	9	10	10	13	11	9	7	6	6	6	6
All R&D	47,083	105,668	98,969	45,997	53,474	46,090	87,427	71,590	56,583	50,739	49,267	50,121	57,335	63,450
Medical school R&D	17,970	41,854	41,557	20,604	19,488	18,851	49,317	36,819	30,188	27,152	26,626	25,922	28,693	44,688
Public														
Number of institutions with medical schools	83	84	85	86	89	91	94	94	94	99	100	100	100	100
All R&D	24,313,348	25,927,387	25,938,222	27,210,089	28,237,378	28,969,948	30,259,622	31,838,522	33,691,595	37,359,453	38,614,534	39,963,419	43,020,781	48,350,609
Medical school R&D	11,684,912	12,678,932	12,375,216	12,419,947	12,416,501	12,785,042	13,172,552	13,964,235	15,001,469	16,178,180	16,796,108	17,975,229	19,336,759	21,413,275
Private														
Number of institutions with medical schools	58	60	60	60	61	61	63	61	62	60	60	60	58	62
All R&D	16,067,349	17,013,819	17,118,157	17,616,121	17,901,433	18,402,182	19,706,081	20,730,012	21,823,515	23,190,076	23,871,250	25,107,444	27,462,862	30,564,109
Medical school R&D	9,752,770	10,537,028	10,510,783	10,296,145	10,450,800	10,764,991	11,591,557	12,318,245	12,847,955	13,728,583	14,052,930	15,145,097	16,507,811	18,071,011

**Source(s):**

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