



2019 Academy NIH Data Collection Guidelines for Funding to Diagnostic Radiology Project

The NIH funding to diagnostic Radiology departments has been reported annually since the project was initiated in the early 90s by Stanley Baum, MD. This information is tracked and shared by the Academy to show the amount of Federal funding from the NIH that goes to diagnostic radiology as well as how that funding is allocated across Radiology departments. Shown below is a chart depicting the history of this funding between 1985 and 2019 (note the outlying increase in 2010 as a result of the American Recovery and Reinvestment Act). The raw data received from the NIH include information on grants awarded to Principal Investigators (PI) with primary appointments in Radiology departments at US Medical Schools.

The Academy leverages this data as a strong advocacy tool on behalf of our community, which is why the staff continues to collect the data. In addition, we appreciate that many academic radiology leaders use this data for benchmarking their programs and advocating for their departments. The growth in multi-investigator collaborative research has led to challenges in apportioning credit in a formal ranking system. The Academy's goal is to identify a transparent way to disseminate the data in order to empower departments and protect the perception of the Academy's role in the dissemination. **After much discussion about how this project intersects with the Academy's mission and its overall value to our membership, the Executive Committee has voted to disseminate the data in a new and more dynamic format.** Please see the details below

Every year, the project begins with the submission of a request to the Office of Extramural Research (OER) at the NIH for the research and training grants awarded to departments of radiology at U.S. medical schools. We then receive raw data from the NIH in a master Excel spreadsheet.

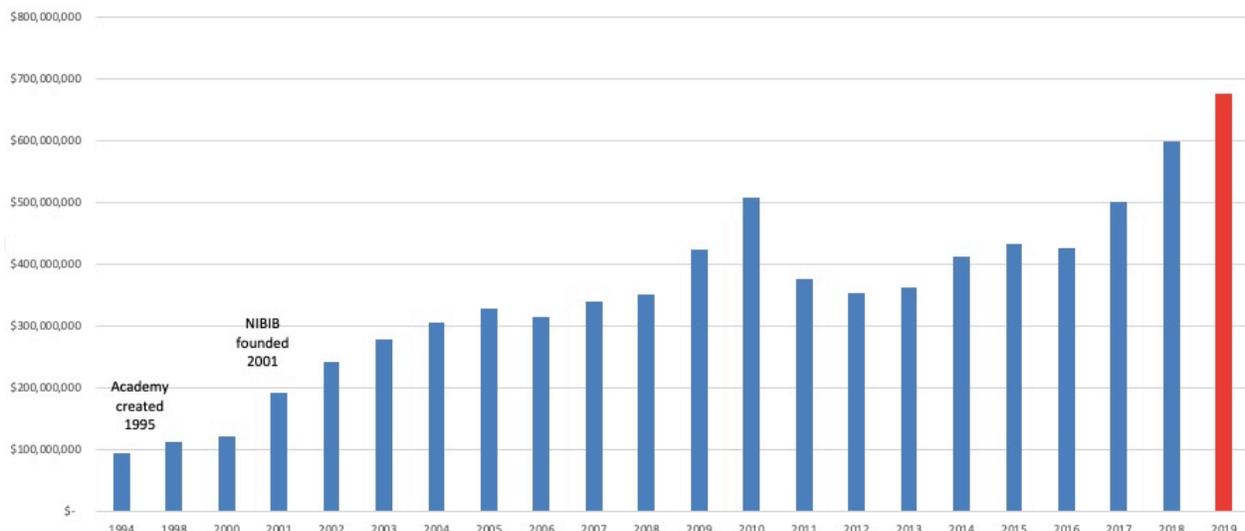
On the following pages are the steps on how we processed the raw data and finalized the ranking for 2019.

For more information about the Academy's NIH Data Collection Project please visit:

<http://www.acadrad.org/nih-datacollection-project/>

NIH Diagnostic Radiology Funding Trend

NIH Diagnostic Radiology Funding Trend
1994 - 2019



How the Raw Data Was Processed

1 Removed grants to Non-Radiology departments from the raw data

Grants from the following departments were not counted in the Academy's ranking:

- Radiation Medicine
- Radiation Medicine and Applied Sciences
- RADIATION-DIAGNOSTIC/ONCOLOGY
- Radiation and Cellular Oncology
- Radiation Oncology
- Radiation Oncology and Molecular Sciences

Grants from the following departments were counted in the Academy's ranking:

- Center for Magnetic Resonance Research
- Center for Radiological Research
- Diagnostic Radiology
- Diagnostic Radiology and Nuclear Medicine
- Institute of Radiology
- Medical Imaging
- Radiological Sciences
- Radiology
- Radiology and Biomedical Imaging
- Radiology and Imaging
- Radiology and Imaging Sciences
- Radiology and Radiological Science
- Therapeutic Radiology

2 Clarified MPI awards

A grant may have a Contact Principal Investigator (Contact PI) and Multiple Principal Investigators (MPIs) in separate departments. In prior years, to ensure we didn't allocate an award to more than one institution we credited the total award to a single PI—typically the Contact PI. In instances where the Contact PI was not in a Radiology department but an MPI was, the total grant amount was credited to the department of the MPI. While this situation was very infrequent, it did mean that the total funding to our field was slightly over-estimated because a total grant award was being allocated to a Radiology department despite the fact that it only received a portion of the total award.

For this reason, a modified process was used for 2019 data, subdividing awards where appropriate (See Step 10). In this way, the total amount allocated for these MPI grants is a true reflection of the dollars granted to radiology.

3 Contacted research hospitals for their grant information

The raw NIH data lists grants at Radiology departments that are part of a university. Some NIH grants go through a hospital or foundation and therefore are not included on the initial list. The Chairs of Radiology at these institutions (i.e. MGH, BWH, Sloan Kettering) were contacted to gather their grant information independently.

A list of institutions we contacted in 2019:

- Brigham and Women's Hospital
- Massachusetts General Hospital
- Mayo Clinic
- Memorial Sloan Kettering Cancer Center
- Michigan State University
- Moffitt Cancer Center
- Beth Israel Deaconess
- MD Anderson Cancer Center

4 Added hospital grants to the master Excel spreadsheet

Once we received individual lists from the above institutions, we added those awards to the master spreadsheet, paying attention to the items below:

- Ensured grants were entered in the same format as those on the master list.
- Checked that institution lists do not include sub-awards.
- Made sure all the award amounts sent to us are what they received in this fiscal year, not spent this year.
- Cross checked all grants included on these lists with NIH Reporter and, if needed, scheduled conference calls with the hospitals to discuss the eligibility of those grants.

5 Separated out ECOG-ACRIN

ECOG-ACRIN is a broad-based effort involving many centers and supports research at a large number of institutions in this ranking. To be equitable to the many centers involved, funding was not attributed to any academic department. We recognize the strong leadership of these institutions in this effort, but for clarity we attributed the ECOG-ACRIN dollars to only ACRIN, thereby contributing to the total radiology funding amount for FY 2019 but not to the funding totals for institutions.

6 Sent individual data to all included institutions to validate or clarify their data to ensure accuracy and transparency

All contacted institutions had two weeks to cross check our data and send us any additional grants they felt should be included. All submitted grants were subject to the same review as those sent from our FOIA request and research hospitals (see step 4 above).

7 Created a PivotTable to add up the total grants of all medical schools and research hospitals, and then listed them in ALPHABETICAL order with overall total at the bottom

8 Created a breakdown of all data into four categories in an Excel spreadsheet

- Contact PI on Grant to Primary Organization
- MPI on Grant with Award to Primary Organization
- Contact PI on Grant with Award to Other Organizations
- MPI on Grant with Award to Other Organization

9 Sent “early release” to all Academy member departments

All Academy member departments received access to the final data before it was published publicly.

10 Posted the ranking on the Academy website & disseminated to all departments included in FY19 ranking

An Excel document containing all data collected and the ALPHABETICAL listing was sent to all participating departments.