DOXIMITY
RESIDENCY NAVIGATOR
2019-2020

Our Residency Research Methodology

Doximity’s Residency Navigator is a tool built to help medical students make informed residency decisions and to increase transparency in the residency match process.

Residency Navigator is comprised of three major parts — (1) current resident and recent alumni satisfaction data, (2) reputation data, and (3) objective data. Satisfaction data is derived from satisfaction survey responses from each residency’s current residents and recent graduates. Since Residency Navigator first launched in 2014, there have been over 46,500 unique respondents to the satisfaction survey. Reputation data is derived from nomination survey responses, which is limited to board-certified physicians in that specialty and is alumni-weighted. Our most recent nomination survey gathered nominations from over 48,000 U.S. board-certified physicians. Objective data is compiled from a variety of public sources as well as our proprietary Doximity database, which covers all U.S. physicians, regardless of that physician’s Doximity membership status.

The Residency Navigator user experience begins with a personalized search. Access to the public is limited in scope, whereas medical student and physician members of Doximity can customize extensive search parameters such as geography, training environment, program size and fellowship/subspecialization rates (for more information, see Program Page Data below). From the search page, members select search parameters to generate a personalized list of programs that best suit their preferences and career goals, or browse a national map of programs in their specialty of interest. Each searcher can then explore detailed, program-level information by accessing individual residency program pages, including a new “people like you” section that highlights notable alumni such as those who graduated from the searcher’s own medical school and attended that residency program. Medical students can also bookmark programs to their favorites list to organize and add private, personalized notes about each program as they go through the application interview process and prepare their Rank Order List.

The following document provides a detailed overview of the definition, source and data methodology used in the Residency Navigator.

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About Doximity

Doximity is the largest online professional network for U.S. physicians. Its comprehensive physician database includes every United States physician as identified by their National Provider Identifier (NPI) number. Physician information is compiled from hundreds of sources including the United States Department of Health and Human Services NPI Registry, state medical boards, and specialty boards (e.g. American Board of Medical Specialties, American Board of Surgery). Doximity’s proprietary database is additionally bolstered by more than 657,000 registered and identity-verified physician members who review and update their profiles to provide an additional set of primary data.

Resident Satisfaction Survey

All verified physician members who are current residents or recent residency graduates and meet eligibility criteria may review their residency program experience in the Resident Satisfaction Survey.

Eligibility criteria:

- Have completed at least one year of an eligible residency
  - OR have graduated from an eligible residency within the past 10 years
- Residency was a U.S. based M.D. program in the following specialties:
  - Anatomic & Clinical Pathology
  - Anesthesiology
  - Child Neurology
  - Dermatology
  - Diagnostic Radiology
  - Emergency Medicine
  - Family Medicine
  - Internal Medicine
  - Interventional Radiology
  - Medical Genetics
  - Medicine/Pediatrics
  - Neurological Surgery
  - Neurology
  - Neuclear Medicine
  - Obstetrics & Gynecology
  - Ophthalmology
  - Orthopedic Surgery
  - Otolaryngology
  - Pediatrics
  - Physical Medicine & Rehabilitation
  - Plastic Surgery
  - Preventative Medicine

Visit: residency.doximity.com
Contact us: support@doximity.com
• Psychiatry
• Radiation Oncology
• Surgery
• Thoracic Surgery
• Urology
• Vascular Surgery

Responses are anonymized before publication and users are allowed one response for the satisfaction survey.

A screenshot of the Satisfaction Survey is below:
Reputation Data Among Board Certified Physicians

Eligible physicians who were Doximity members were prompted to submit nominations when they signed in to the Doximity website or via email. Eligible physicians who were not Doximity members were also able to share their nominations by registering and verifying with Doximity before the end of the survey period.

Eligibility to participate in the survey is determined by a physician’s board certification (see table below):

<table>
<thead>
<tr>
<th>Program</th>
<th>Board</th>
<th>Specialty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomic &amp; Clinical Pathology</td>
<td>American Board of Pathology</td>
<td>Anatomic &amp; Clinical Pathology</td>
</tr>
<tr>
<td>Anesthesiology</td>
<td>American Board of Anesthesiology</td>
<td>Anesthesiology</td>
</tr>
<tr>
<td>Child Neurology</td>
<td>American Board of Psychiatry &amp; Neurology</td>
<td>Child Neurology</td>
</tr>
<tr>
<td>Dermatology</td>
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<tr>
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</tr>
<tr>
<td>Emergency Medicine</td>
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<td>Emergency Medicine</td>
</tr>
<tr>
<td>Family Medicine</td>
<td>American Board of Family Medicine</td>
<td>Family Medicine</td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>American Board of Internal Medicine</td>
<td>Internal Medicine</td>
</tr>
<tr>
<td>Medical Genetics</td>
<td>American Board of Medical Genetics &amp; Genomics</td>
<td>Medical Genetics</td>
</tr>
<tr>
<td>Medicine/Pediatrics</td>
<td>American Board of Internal Medicine &amp; Pediatrics</td>
<td>Medicine/Pediatrics</td>
</tr>
<tr>
<td>Neurological Surgery</td>
<td>American Board of Neurological Surgery</td>
<td>Neurological Surgery</td>
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<tr>
<td>Neurology</td>
<td>American Board of Neurology</td>
<td>Neurology</td>
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<tr>
<td>Nuclear Medicine</td>
<td>American Board of Nuclear Medicine</td>
<td>Nuclear Medicine</td>
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<tr>
<td>Obstetrics &amp; Gynecology</td>
<td>American Board of Obstetrics &amp; Gynecology</td>
<td>Obstetrics &amp; Gynecology</td>
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<tr>
<td>Ophthalmology</td>
<td>American Board of Ophthalmology</td>
<td>Ophthalmology</td>
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<tr>
<td>Orthopaedic Surgery</td>
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<td>Orthopaedic Surgery</td>
</tr>
<tr>
<td>Otolaryngology</td>
<td>American Board of Otolaryngology</td>
<td>Otolaryngology</td>
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<tr>
<td>Pediatrics</td>
<td>American Board of Pediatrics</td>
<td>Pediatrics</td>
</tr>
<tr>
<td>Physical Medicine &amp; Rehabilitation</td>
<td>American Board of Physical Medicine &amp; Rehabilitation</td>
<td>Physical Medicine &amp; Rehabilitation</td>
</tr>
<tr>
<td>Plastic Surgery</td>
<td>American Board of Plastic Surgery</td>
<td>Plastic Surgery</td>
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<tr>
<td>Preventative Medicine</td>
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<tr>
<td>Psychiatry</td>
<td>American Board of Psychiatry &amp; Neurology</td>
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</tr>
<tr>
<td>Urology</td>
<td>American Board of Urology</td>
<td>Urology</td>
</tr>
</tbody>
</table>
Each physician could nominate up to five residency programs via a survey similar to the one below:

Over 53,000 verified, board-certified physicians participated in the 2018 nomination process. The results of the 2018 nomination survey were pooled with those of the 2016 and 2017 surveys such that only the most recent (2018) responses were counted for physicians that completed the survey more than once.

To account for self-nominations, all nominations were classified as alumni and non-alumni responses. Alumni nominations were weighted according to the percent of the eligible physician population that a particular program accounts for within that specialty (number of alumni divided by total eligible within the specialty).

**Measurement of Research Output**

Profile data of all U.S. physicians, regardless of membership with Doximity, were used to calculate research output score for each residency program’s recent alumni base. This score was calculated from a combination of the collective h-index of publications authored by alumni graduating within the past 15 years, as well as research grants awarded. Each program’s alumni research output was then compared to all other programs within the same specialty to create a percentile score. Research Output may be refreshed periodically to account for new alumni publication and clinical trial data. These updates may affect the Research Output sort order.
The following section provides further explanation of the main data listed on the program page not explained on the page itself. Unless otherwise specified, objective data derived from the Doximity database covers all physicians, regardless of Doximity membership status. Program pages may be refreshed throughout the year to account for updated data such as new alumni publications, fellowships, board certifications and practice settings. This may affect the Research Output, Percent Subspecialize and Percent Board Certified rates as well as their respective sort orders.
• **Board Pass Rates**
  Data is self-reported and published by individual boards for the specialties of Internal Medicine, Family Medicine, General Surgery and Pediatrics, but has not yet been released by other specialty boards. Data is not displayed for specialties whose boards have not released board pass rate data.

• **Percent Board Certified**
  Board certification percentage is calculated by measuring the presence of an ABMS board certification for alumni who graduated between 2006 and 2015. This helps mitigate the expected lag in board certification post graduation. In addition, all residency graduates pursuing fellowship are also excluded from the denominator.

• **Alumni Publication Percentile**
  Publication percentile is calculated from a combination of the collective h-index of publications authored by program alumni. Data is derived from publication analysis of alumni who graduated within the past 15 years, regardless of Doximity membership status.

• **Alumni Clinical Trial Percentile**
  Alumni clinical trial percentile is calculated from clinical trial and grant data derived from Doximity profiles of alumni who graduated within the past 15 years, regardless of Doximity membership status.

• **Top Sub-Specialties by Alumni**
  Sub-specialty percentages and common subspecialties are derived from Doximity profile data of alumni who graduated within the past 10 years, taking into account current sub-specialty, board certification, and fellowship data. The most common sub-specialties for alumni following their residency are displayed. Discrepancy between the overall percentage who subspecialize and the aggregate top sub-specialty percentages may exist because some physicians may have more than one subspecialty listed.

• **Gender Balance**
  Gender balance percentage is derived from Doximity profile data of current residents and alumni who graduated within the past 10 years, regardless of Doximity membership status.

• **Feeder Medical Schools**
  Feeder medical school data is from Doximity profile data of alumni who graduated within the past 10 years. The most common medical schools among the alumni of a given residency are displayed.

• **Satisfaction Ratings & Reviews**
  Data is derived from the responses of verified physician members who are current residents or recent alumni (having graduated from residency in the last 10 years) of the particular program. Responses are anonymized before publication. Published data reflects the 6 questions and 1 free text review prompt of the Satisfaction Survey instrument:
  - **Overall satisfaction:** Willingness to recommend this program to others.
  - **Work hours:** Tolerability of shift and call schedules.
  - **Schedule flexibility:** Accommodation for weddings, pregnancy, deaths, etc.
  - **Career guidance:** Support around job/fellowship placement; quality of mentorship
  - **Culture:** Cohesiveness of the residency and clinical community
  - **Clinical diversity (Non-surgical residencies):** Exposure to populations, disease procedures, and practice settings

• **Alumni Metro Areas**
  Data is derived from Doximity user profile data of alumni who graduated within the past 10 years. Metro areas are as defined by the US Census Bureau.

• **Alumni Map**
  Data is derived from Doximity user profile data. When an alumni population is significantly large, a subset of profiles will be displayed.
2019-2020 Dates of Interest

- **May 2019**: Satisfaction and Nomination survey opens for eligible participants.
- **June 2019**: Nomination survey closes. Satisfaction survey will remain open until further determined date.
- **July 2019**: Residency Navigator launches with refreshed program data.

Should you have any questions regarding this methodology, or marketing and press guidelines, please contact residency@doximity.com.