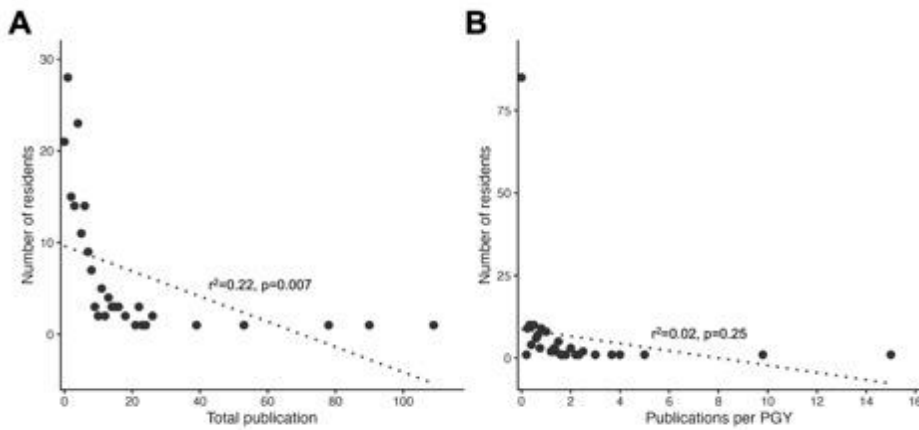
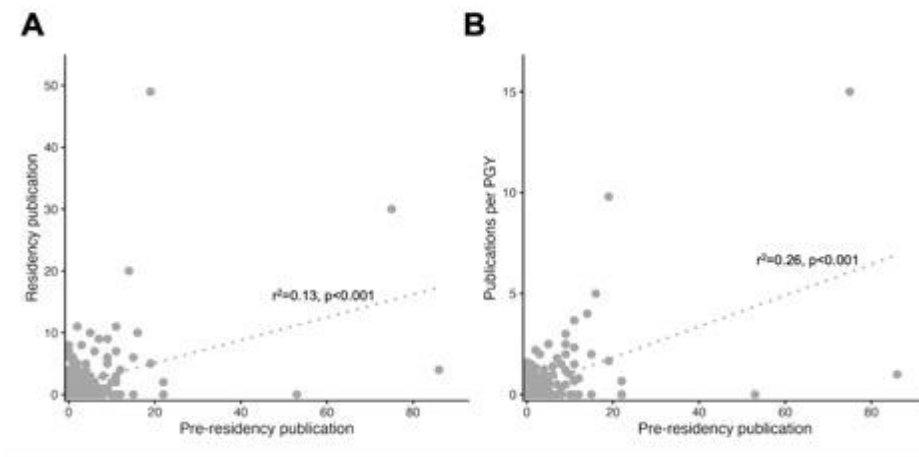


APPENDIX

Supplementary Figure 1. Distribution of total publications (A) and publications per post-graduate year (PGY) (B) among all active residents without outliers removed.



Supplementary Figure 2. Association between pre-residency publications and residency publications (A) or publications-per-PGY (B) among all active residents without outliers removed.



Supplementary Table 1. Median bibliographic outcomes as stratified by PGY, with CIP residents excluded				
Year of residency	Total publications (IQR)	Total first-author publications (IQR)	Total original research articles (IQR)	Total citations (IQR)
PGY1	4 (1–6)	2 (0–3)	2 (1–5)	11 (1–38)
PGY2	3 (1–8)	1 (0–2)	2 (1–5)	20 (2–47)
PGY3	4 (1.5–7)	2 (0–3)	2 (0–5)	16 (4–58)
PGY4	4 (1–7)	1 (0–3)	2 (1–4)	14 (3–47)
PGY5	6 (4–10)	3 (1–4)	4 (2–7)	26 (9–113)

Supplementary Table 2. Ordinary-least-squares linear regression model predicting publications-per-year during residency				
Variable name		Coef.	95% CI	p
Pre-residency publications		0.098	0.076–0.12	≤0.001*
Anticipated graduation year				
2025		−0.63	−1.42–0.17	0.12
2026		−0.51	−1.26–0.25	0.18
2027		−0.26	−1.04–0.52	0.51
Male		0.49	−0.08–1.06	0.09
Highest graduation degree				
Masters		0.63	−0.22–1.48	0.14
PhD		0.72	−1.02–2.46	0.41
Enrolled in CIP		5.27	3.60–6.94	≤0.001*
Medical school alma mater				
2		−0.29	−2.02–1.43	0.73
3		−0.087	−1.64–1.46	0.91
4		−0.30	−1.65–1.04	0.65
5		−0.45	−1.86–0.95	0.52
6		−0.56	−2.28–1.16	0.52
7		−0.88	−2.42–0.67	0.26
8		−0.66	−2.15–0.83	0.38

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9		-0.72	-2.44–1.00	0.41
10		-0.64	-2.70–1.43	0.54
11		1.20	-0.20–2.61	0.09
12		1.34	-0.03–2.71	0.05
13		-0.59	-1.99–0.82	0.40
14		-0.918	-2.64–0.80	0.29
15		-0.72	-2.44–0.99	0.40
16		-0.67	-2.53–1.18	0.47
17		-0.02	-1.64–1.60	0.97
18		-0.52	-1.72–0.67	0.38
Residency program				
2		0.44	-0.82–1.71	0.48
3		0.18	-1.05–1.42	0.76
4		0.19	-0.99–1.38	0.74
5		0.27	-1.03–1.58	0.67
6		-0.076	-1.65–1.50	0.92
7		-0.33	-1.46–0.80	0.56
8		2.26	1.16–3.35	≤0.001*
9		0.41	-0.75–1.58	0.48
10		-0.19	-1.49–1.12	0.77
11		-0.26	-1.97–1.45	0.76
12		-0.14	-1.35–1.07	0.81
13		0.55	-0.69–1.78	0.38
No mandatory research block		0.028	-0.88–0.94	0.95
CIP program available		0.66	-0.28–1.59	0.16
PD graduate degree				
Masters		0.37	-0.18–0.94	0.18
PhD		-0.015	-0.99–0.96	0.97
PD total publications		0.004	-0.001–0.009	0.10
PD h-index		0.027	-0.005–0.059	0.09
PD total citations		0.00018	-0.00008–0.00044	0.17
PD number of last-author publications		0.0029	-0.013–0.019	0.71
Total faculty members in program		0.024	0.003–0.044	0.02*

*Statistically significant. CI: confidence interval; CIP: clinician-investigator program; PD: program director.

Supplementary Table 3. Negative binomial regression model predicting total publication count during residency, accounting for differences in duration of training			
Variable Name	IRR	95% CI	p
Pre-residency publications	1.025	1.011–1.039	≤0.001*
Anticipated graduation year			
2025	0.309	0.175–0.544	≤0.001*
2026	0.208	0.123–0.353	≤0.001*
2027	0.139	0.073–0.266	≤0.001*
Male	1.236	0.782–1.956	0.36
Highest graduation degree			
Masters	0.728	0.443–1.196	0.21
PhD	0.568	0.253–1.273	0.17
Enrolled in CIP	3.398	1.416–8.155	0.008*
No mandatory research block	1.516	0.247–9.294	0.65
PD graduate degree			
Masters	3.328	1.762–6.283	≤0.001*
PhD	0.675	0.14–3.255	0.62
PD h-index	1.081	1.024–1.141	0.006*
Total faculty members in program	1.021	0.996–1.046	0.10

*Statistically significant. CI: confidence interval; CIP: clinician-investigator program; IRR: incidence risk ratio; PD: program director.