

Medical Student Publications: A Forgotten Piece of the Scholarly Communications Mosaic

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Financial Disclosures

- We have no financial conflicts of interest to report.

Background

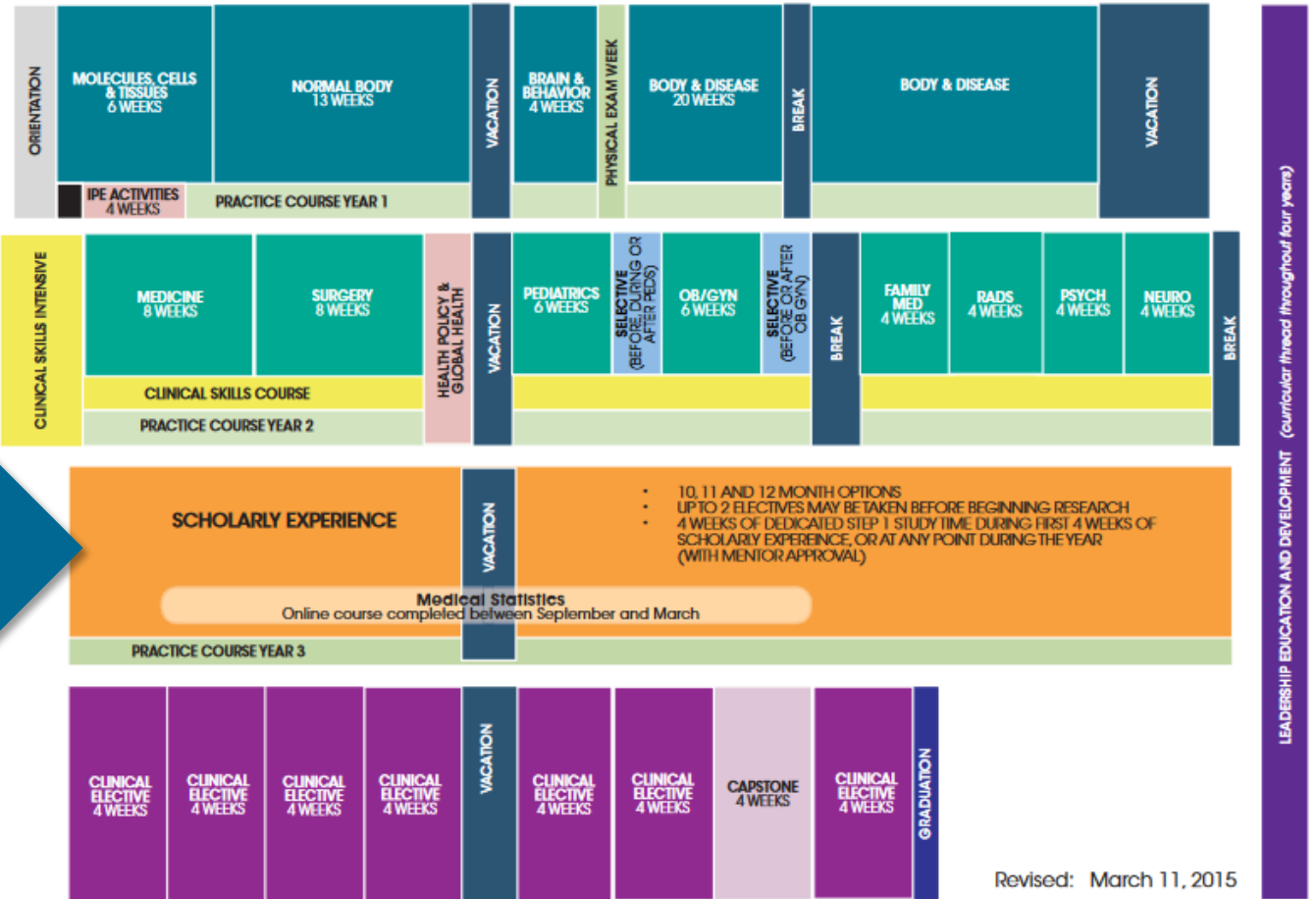
- Duke University Medical Students have opportunities in their clinical and research years to generate research that results in publications.
- Studies are showing this is a growing trend and that residency programs consider publication histories when reviewing applicants.
- This group is not always targeted as potential authors by the library.
- The question arose as to whether and where medical students publish?

Curriculum



Foundation for Excellence Curriculum

AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG



Third Year Scholarly Experience

SCHOLARLY EXPERIENCE

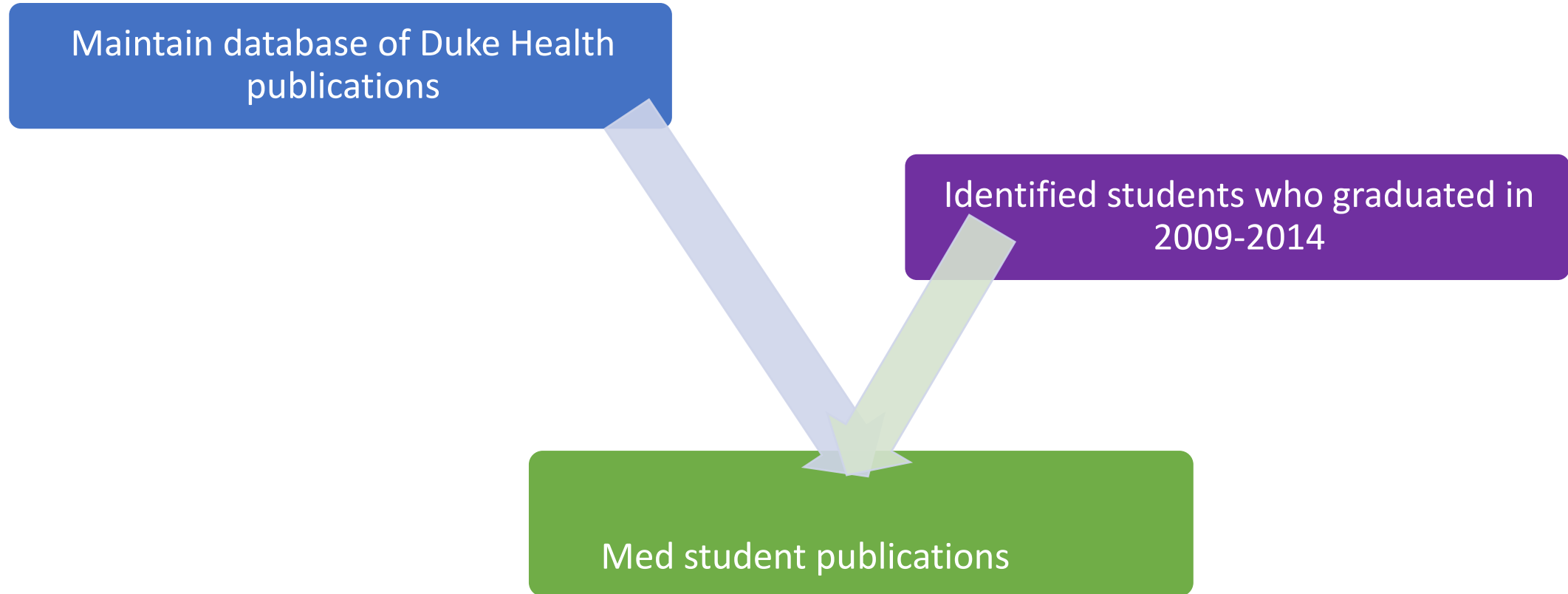
- 10, 11 AND 12 MONTH OPTIONS
- UP TO 2 ELECTIVES MAY BE TAKEN BEFORE BEGINNING RESEARCH
- 4 WEEKS OF DEDICATED STEP 1 STUDY TIME DURING FIRST 4 WEEKS OF SCHOLARLY EXPERIENCE, OR AT ANY POINT DURING THE YEAR (WITH MENTOR APPROVAL)

Medical Statistics
Online course completed between September and March

Revised: March 11, 2015

This is a guideline that lays out the individual courses and experiences that are required for completion of the MD degree. The sequence and placement of these events may differ from student to student. For specific details about the curriculum or for information about the Primary Care Leadership Track please consult the Bulletin at <http://registrar.duke.edu/university-bulletins/school-medicine>.

Process



Database of Student Publications

SOM Student Pubs Library-grad yr+1-deduped without 2015 students

Author-Date SOM-student-Re Quick Search Show Search Panel

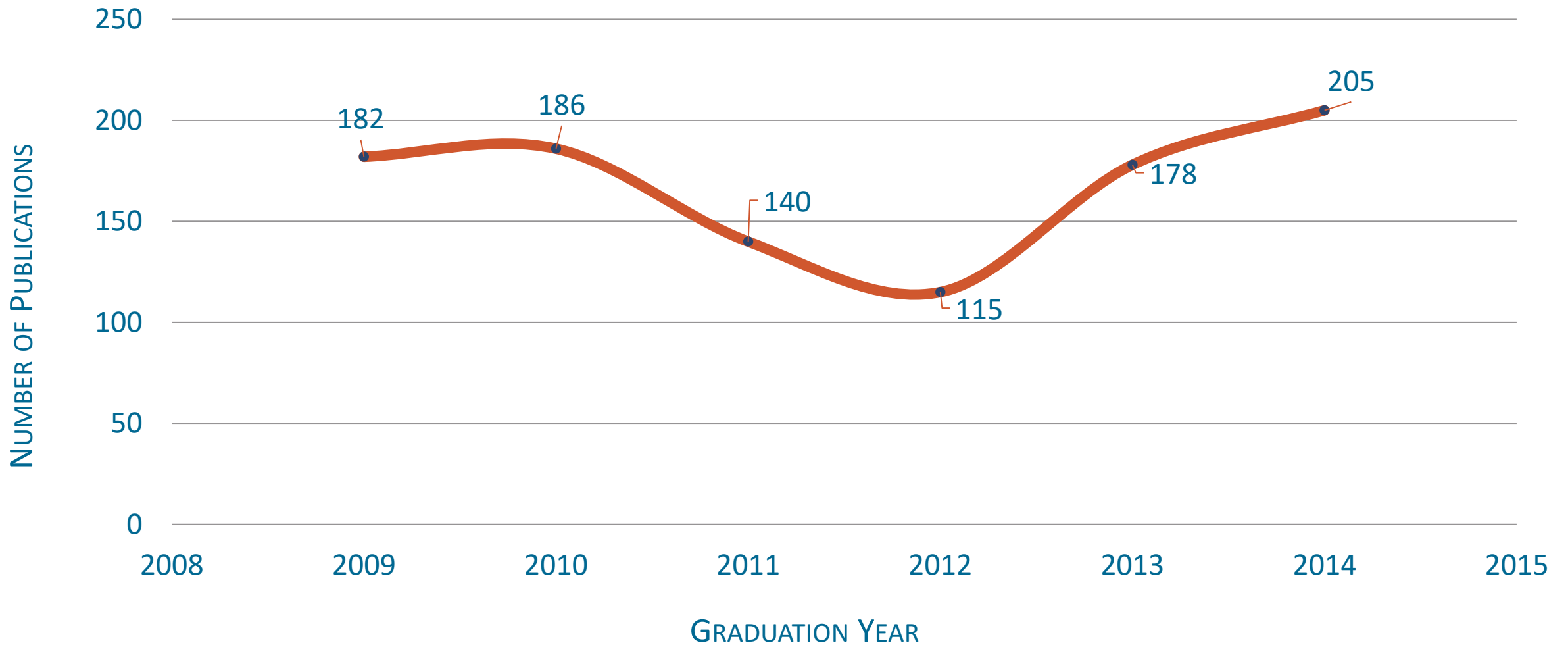
My Library	Author	Year	Title	Journal	Research Notes	Caption	Added to Libran
My Groups	*Abebe	2012	Proximal Hamstring Avulsion Injuries:...	Operative T...		Times Cited: 0	9/24/2015
2009 (118)	*Ascher	2012	Antifungal Therapy and Outcomes in I...	Pediatric Inf...		Times Cited: 15	9/25/2015
2010 (139)	*Athale	2012	Nrf2 promotes alveolar mitochondrial...	Free Radic...	Piantadosi, Cla...	Times Cited: 22	9/24/2015
2011 (110)	*Babu	2012	Thrombin and hemin as central factor...	Neurosurgi...		Times Cited: 16	9/25/2015
2012 (127)	*Babu	2012	Comparison of Superior-Level Facet...	Neurosurgery		Times Cited: 5	9/25/2015
2013 (150)	*Banugaria	2012	Persistence of high sustained antibo...	Molecular ...	Kishnani, Priya ...	Times Cited: 16	9/25/2015
2014 (119)	*Beasley	2012	A Phase I Multi-Institutional Study of ...	Annals of S...	Tyler, Doug -- C...	Times Cited: 4	9/24/2015
Research-Basic (139)	*Beasley	2012	A Multi-Institution Experience Compa...	Cancer		Times Cited: 3	9/25/2015
Research-Clinical (213)	*Betof	2012	Carbonic anhydrase IX is a predictiv...	British Jour...		Times Cited: 14	9/25/2015
Research-Epi/Med-Hum (26)	*Bond	2012	Series of 4D adult XCAT phantoms f...	Medical Im...	Frush, Donald -...	Times Cited: 0	9/24/2015
Research Type-2009 (57)	*Bouley	2012	Brucellosis among Hospitalized Febr...	American J...	Woods, Chris -...	Times Cited: 11	9/25/2015
Research Type-2010 (70)	*Byram	2012	2D and 3D Bayesian Displacement ...	2012 leee I...		Times Cited: 0	9/25/2015
Research Type-2011 (52)	*Choi	2012	Inflammatory Pseudotumor of the Lat...	Pediatric N...		Times Cited: 1	9/25/2015

Reference Preview Attached PDFs

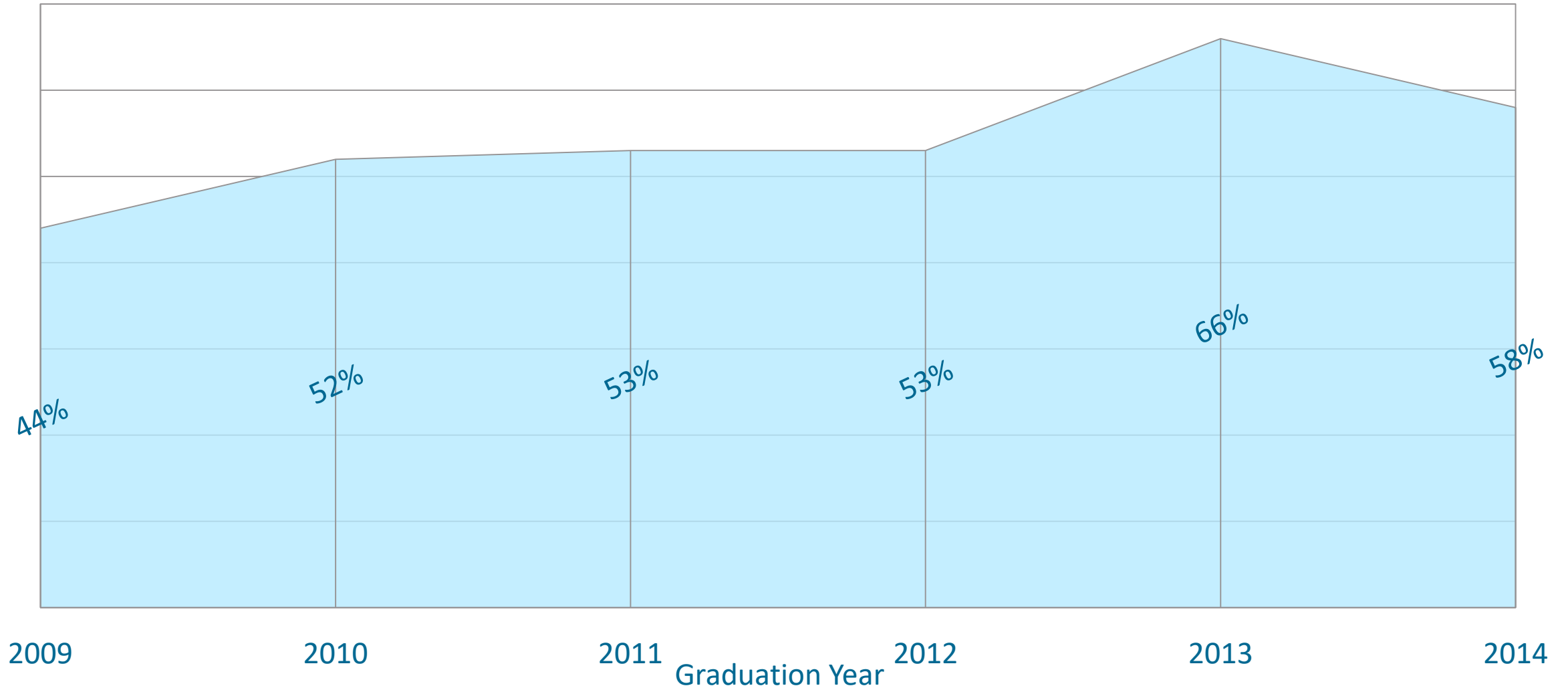
*Banugaria SG, *Patel TT, *Mackey J, *Das S, Amalfitano A, Rosenberg AS, Charrow J, Chen YT and **Kishnani PS. (2012) Persistence of high sustained antibodies to enzyme replacement therapy despite extensive immunomodulatory therapy in an infant with Pompe disease: Need for agents to target antibody-secreting plasma cells. Molecular Genetics and Metabolism 105(4): 677-680
Kishnani, Priya -- Clinical/Patient Oriented.
Times Cited: 16

Results!

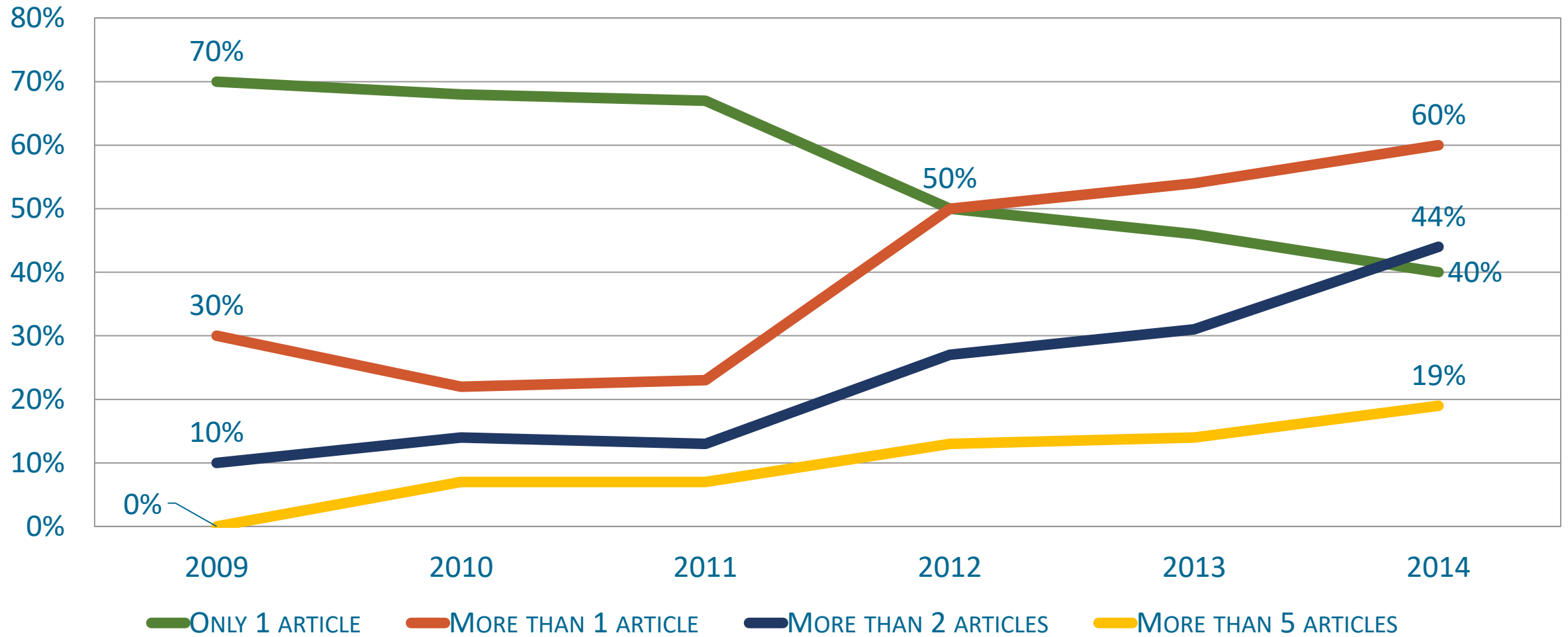
MEDICAL STUDENT PUBLICATIONS BY GRADUATION YEAR



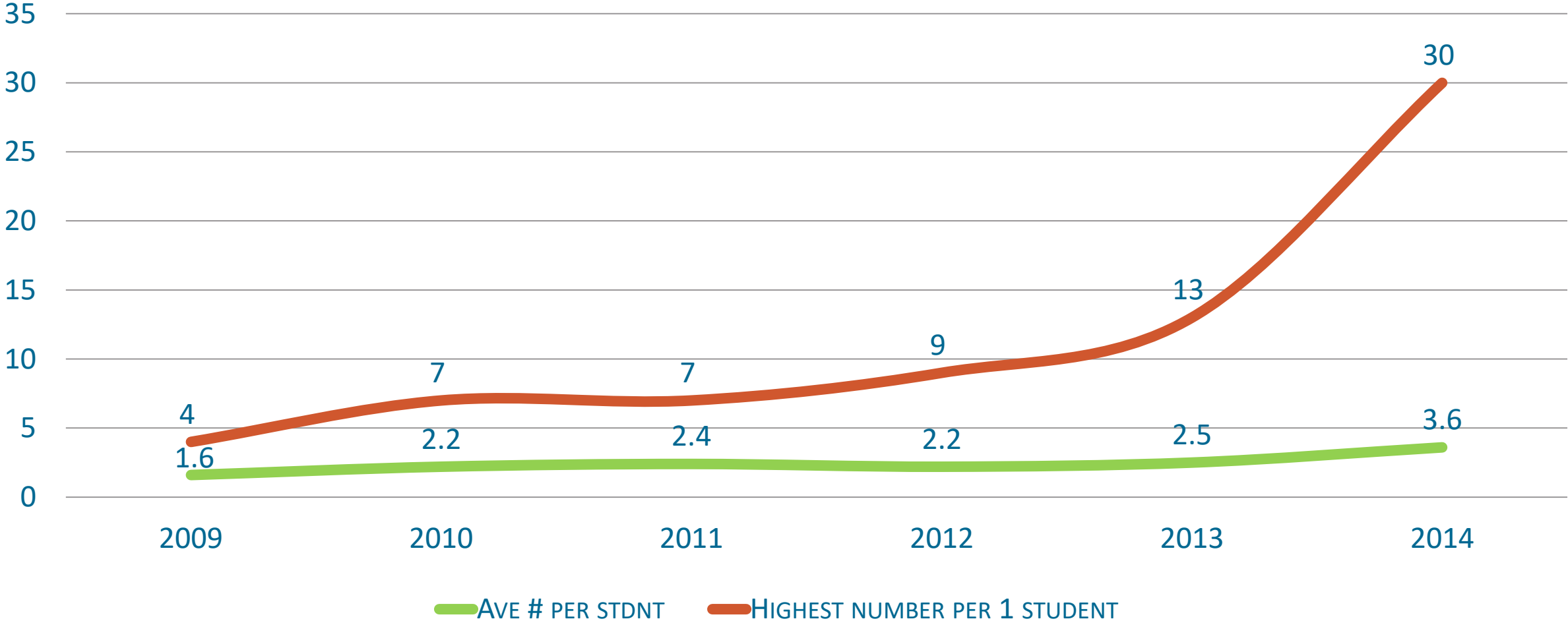
PERCENT OF MEDICAL STUDENTS WITH PUBLICATIONS



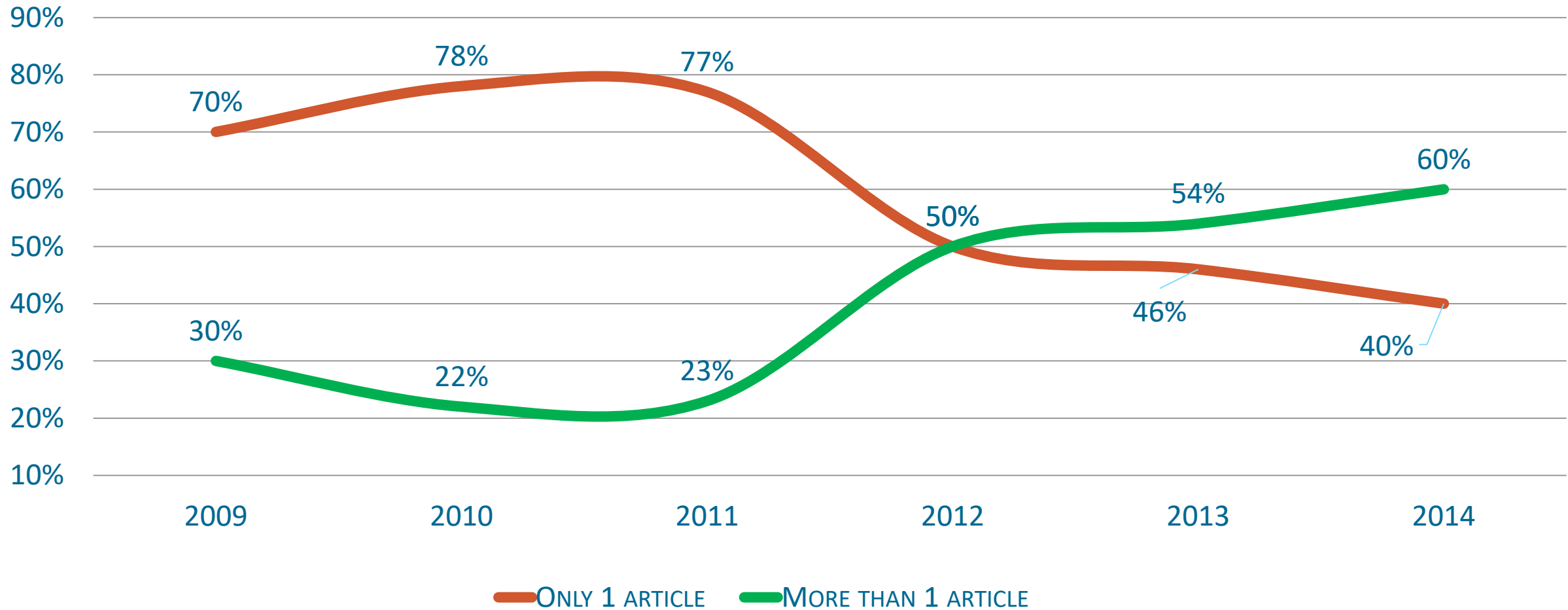
GROWTH IN NUMBER OF PUBLICATIONS



AVERAGE PUBLICATIONS PER STUDENT AND MAXIMUM NUMBER FOR 1 STUDENT BY GRADUATION YEAR



PERCENT OF STUDENTS WITH ONE PUBLICATION AND MORE THAN ONE PUBLICATION



Where Students are Publishing

- 47% of student articles are in journals that deal with both basic and clinical sciences
- 31% of student articles are in clinical sciences journals
- 16% of student articles are in basic sciences journals
- 6% of student articles are in journals that are not biomedical in subject

- 11% of student articles were OA, and that percentage is going up slightly

Journal Impact Factor

	Random Selection of 29 Journals
Subject categories (JCR)	23
Top 10% of IF rank	38% (n=)
Top 25% of IF rank	52%
Top 50% of IF rank	79%
Lower 50% of IF rank	21%

In Summary

- The rate of papers is increasing from year to year
- More students have 2 or more papers across their years in medical school.
- Residency programs are looking for publications in order to match.
- A wide range of journal titles are chosen over the years.

Looking Forward:

- Provide feedback to the School of Medicine about students' research experiences.
- Inform library services and training for medical students in scholarly communication issues.
- Encourage students to get ORCID IDs for future tracking.

Future Questions:

- How do students choose a journal?
- How much influence does the mentor have?
- What are the submission and acceptance rates for students?
- Are there tools and advice the library could offer to assist in the selection of journals?