Gender Differences in Career Advancement of Emergency Radiologists

Zackary Tareky BS[1], Rachel Akers MS[2], Alec Maupin [1], Joey Boujaoude[1], Macen Witt[1], Rimsha J. Afzal MA[1]
[1,3,4,5] Kentucky College of Osteopathic Medicine, Pikeville, KY
[2] Rush Medical College, Chicago, Illinois

Purpose

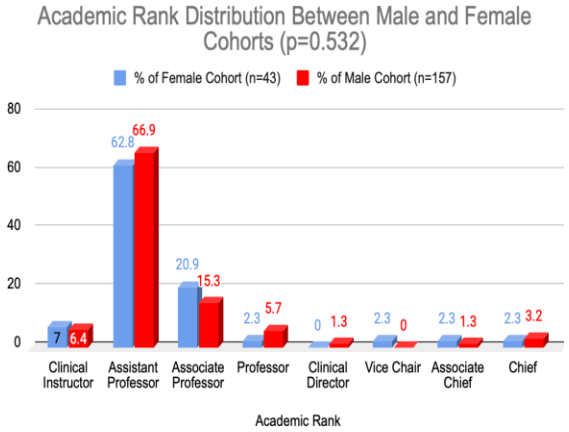
There remains a limited gap in research on female career advancement in academic emergency radiology over the past decade. Previous studies analyzing gender metrics in emergency radiology within academic medicine have found less women achieve senior faculty ranks compared to male colleagues. This cross-sectional study aims to analyze gender disparity in academic advancement in emergency radiology, taking into years of practice, involvement in residency program direction, and additional degrees (e.g. PhD, MBA) across U.S institutions.

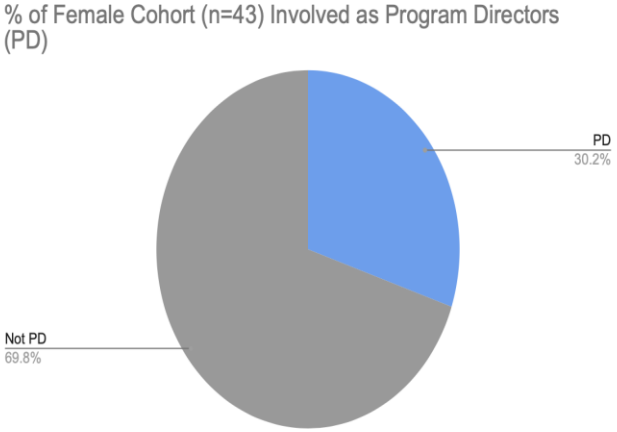
Methods

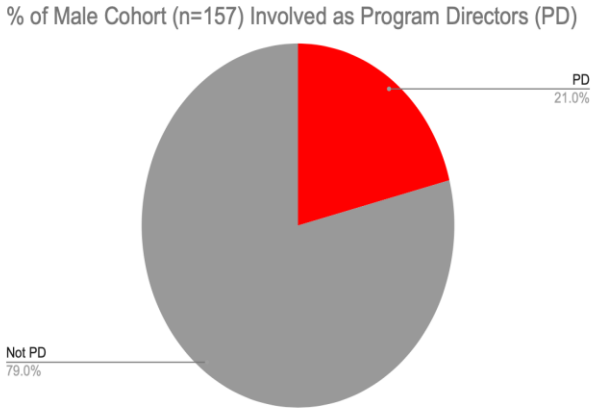
Data source: Accredited U.S. emergency radiology fellowship program websites

- Collected data on:
  - Years in practice
  - Gender
  - Academic title
  - Terminal degrees obtained
- Statistical analysis performed using SPSS, including:
  - Descriptive statistics
  - Chi-square tests
  - Mann-Whitney U tests

Results







- Of the total cohort (N = 200):
  - 157 (78.5%) were male
  - 43 (21.5%) were female
- Academic rank distribution:
  - Majority were Assistant Professors (n = 132, 66%)
  - Only 5% were full Professors
  - 6% held leadership roles (Chief, Associate Chief, Vice Chair)
  - No significant gender differences in academic rank (p = 0.532)
- Residency program direction involvement:
  - 23% of faculty involved in program direction
  - No significant gender difference (p = 0.203)
- Additional degrees:
  - Only 7% held a terminal degree beyond their primary medical degree (e.g., PhD, MBA)
  - No significant gender difference (p = 0.874)
- Experience:
  - Average years in practice: 14.8 years
  - Interquartile range (IQR): 12 years
  - No significant gender difference in years of practice

Discussion & Conclusion

- Gender Distribution:
- Male academic radiologists outnumber female radiologists by a ratio of 4:1.
- Academic Roles and Leadership:
- No significant gender differences observed in:
  - Academic rank
  - Involvement in residency program direction
  - Attainment of additional degrees
  - Years of practice
- Implications:
  - Gender does not significantly correlate with academic roles, leadership involvement, or experience levels among academic radiologists in this sample.
- Recommendation:
  - Further studies with larger cohorts are needed to determine the impact of gender on the career trajectories of academic radiologists.