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INTRODUCTION

- Afterhours diagnostic imaging volumes and demand for rapid reports have increased significantly.
- Radiology staffing and scheduling have developed to provide 24/7 radiological services.
- We aimed to better understand whether age-related differences exist towards perceptions in work from home, compensation, and imaging volumes in afterhours diagnostic radiology in the United States.

METHODS

- The *American College of Radiology (ACR)* membership tracking survey 2022 included questions regarding work from home, compensation, and volumes.
- Afterhours shifts and age groups were defined, below.

Shift Categories	End Time	Age Categories (years)
Evening	<12:00am	35 - 44
Late-Evening	≥12:00-2:00am	45 - 54
Overnight	>2:00am	55 - 64
		65+

CONCLUSIONS

- Understanding age-related differences in radiologists' perceptions of work from home, compensation, and volumes for afterhours diagnostic radiology can aid practice leaders in management decision making.
- Closer attention should be given to the majority perception that afterhours volumes are unmanageable, regardless of age, due to potential impacts on radiologist sustainability and retention in a competitive labor market.

SELECT REFERENCES

- 1.Hanna TN, Steenburg SD, Rosenkrantz AB, et al. Emerging challenges and opportunities in the evolution of teleradiology. *Am J Roentgen* 2020; 215: 1411-1416.
- 2.Chong ST, Robinson JD, Davis MA, et al. Emergency radiology: current challenges and preparing for continued growth. *J Am Coll Radiol* 2019; 16: 1447-1455.
- 3.Rohatgi S, Hanna TN, Sliker CW, Abbott RM, Nicola R. Afterhours radiology: challenges and strategies for the radiologist. *Am J Roentgen* 2015; 205: 956-961.
- 4.Hanna TN, Johnson JO. The night relative value unit: a weighted relative value unit to equate day and night interpretations. *J Am Coll Radiol* 2016; 13: 873-874.

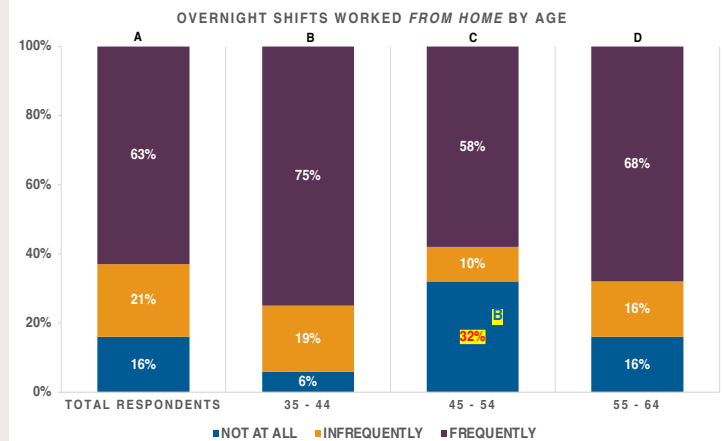
RESULTS

TRENDS FOR SHIFTWORK BY AGE: TOTAL RESPONDENT SAMPLE (N=1109)

SHIFT:	TOTAL RESPONDENTS: (N=1109)	AGE CATEGORY IN YEARS (# RESPONDENTS)			
		35 - 44 (265) A	45 - 54 (227) B	55 - 64 (182) C	65+ (88) D
	%	%	%	%	%
WEEKDAY	93%	98% D	93%	95%	93%
WEEKEND DAY	65%	76% D	70% D	65% D	41%
EVENING	56%	68% CD	64% CD	54% D	36%
LATE EVENING	13%	20% D	19% D	16%	10%
OVERNIGHT	13%	14%	13%	9%	8%
OTHER	6%	8%	6%	6%	5%

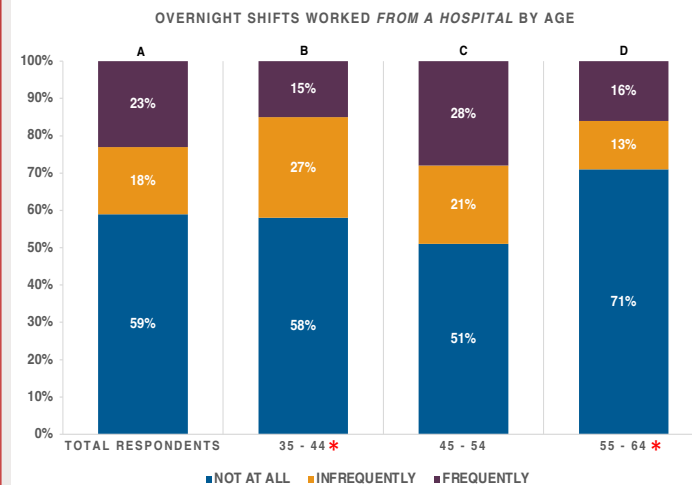
Measures in **RED** are significantly higher at the 95+% confidence level than their counterparts, designated by AGE code (A, B, C, or D).

- Those who **are 65+ typically are significantly less likely to work shifts outside of weekdays** than the other age groups.
- About **one in ten report working an overnight shift**.



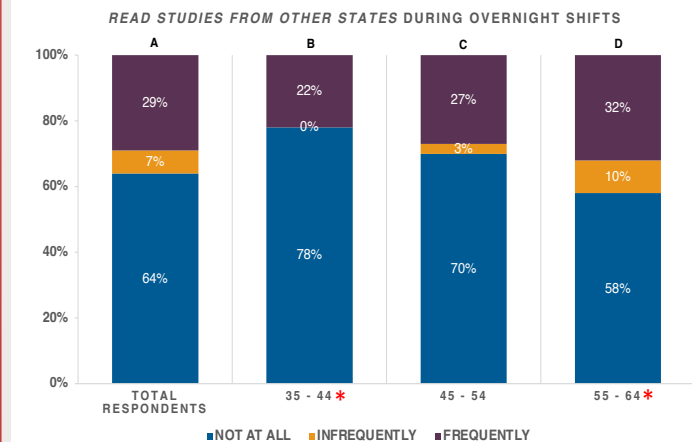
Measures highlighted in **yellow** are significantly higher than the age cohort, designated in **blue**, at the 95% confidence level or higher

- **Six in ten** of those working overnight shifts from home do so frequently.
- Those **45-55 are significantly more likely than those aged 35-44** to say they do **not work their overnight shift(s) from work** (32% vs. 6% p, = .005237).



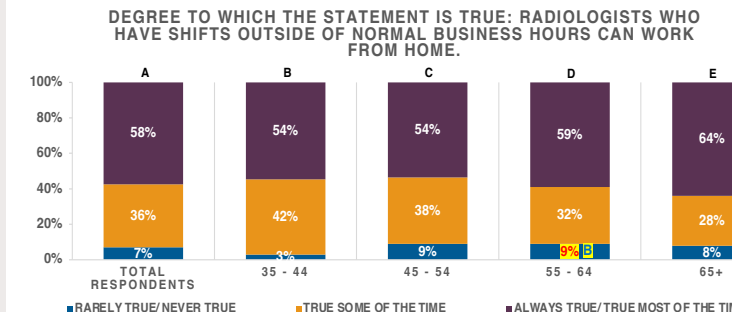
* Caution: Small base - caution should be used in interpretation of the 35-44 and 55-64 age cohorts; base size for 65+ too small to analyze separately

- About **4 in 10** of those who **work overnight shifts do so from a hospital**
- No significant difference across the age groups.

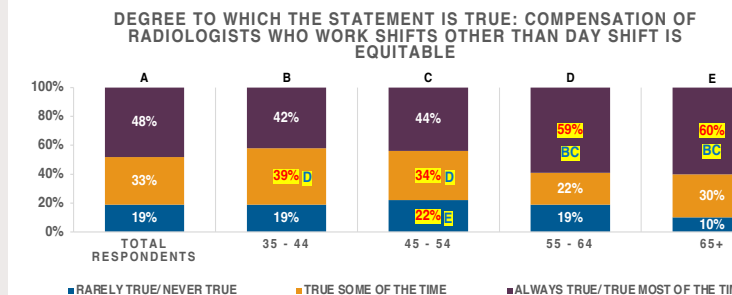


*Caution: Small base - caution should be used in interpretation of the 35-44 and 55-64 age cohorts; base size for 65+ too small to analyze separately

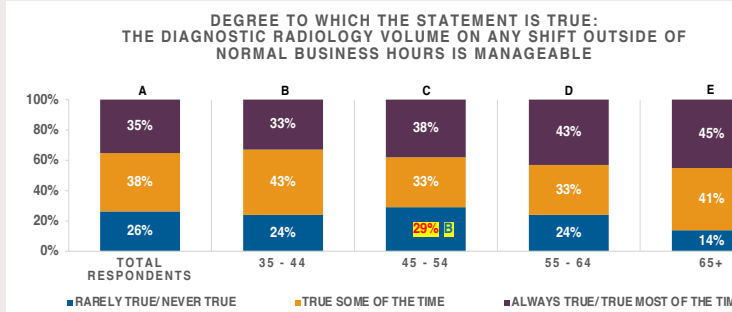
- A **majority** of those who work overnight shifts, **regardless of age, do not read studies from other states**.
- **Seven in ten+ of those aged 35-54** indicate that they **do not read from other states during overnight shifts**; slightly less (six in ten) among those 55-64.
- No significant difference across the age groups.



- The majority of radiologists across all age groups believe that **radiologists who have shifts outside of normal business hours can work from home**.
- Those aged **55-64 were more likely than those aged 34-44** to think the statement is **rarely or never true** (9% vs. 3%, p=0.001085).



- Older radiologists are more likely than younger cohorts to believe that **compensation for shifts other than a weekday is equitable**.
- Those aged **45 to 54 are significantly more likely than those aged 65+ to consider the statement that compensation is equitable** for shifts other than weekday to be **rarely or never true** (22% vs. 10%, p= < 0.00001).



- The **majority of respondents**, regardless of age, do not believe **diagnostic radiology volumes on any shift outside of normal business hours is manageable**.
- Radiologists aged **45-54 are significantly more likely than those 65+ to say the statement is rarely or never true** (29% vs. 14%, p=0.000063).