Shouldering the Burden: Using a Standardized Artificial Intelligence Scribe System to Prevent Burnout

American Urological Association
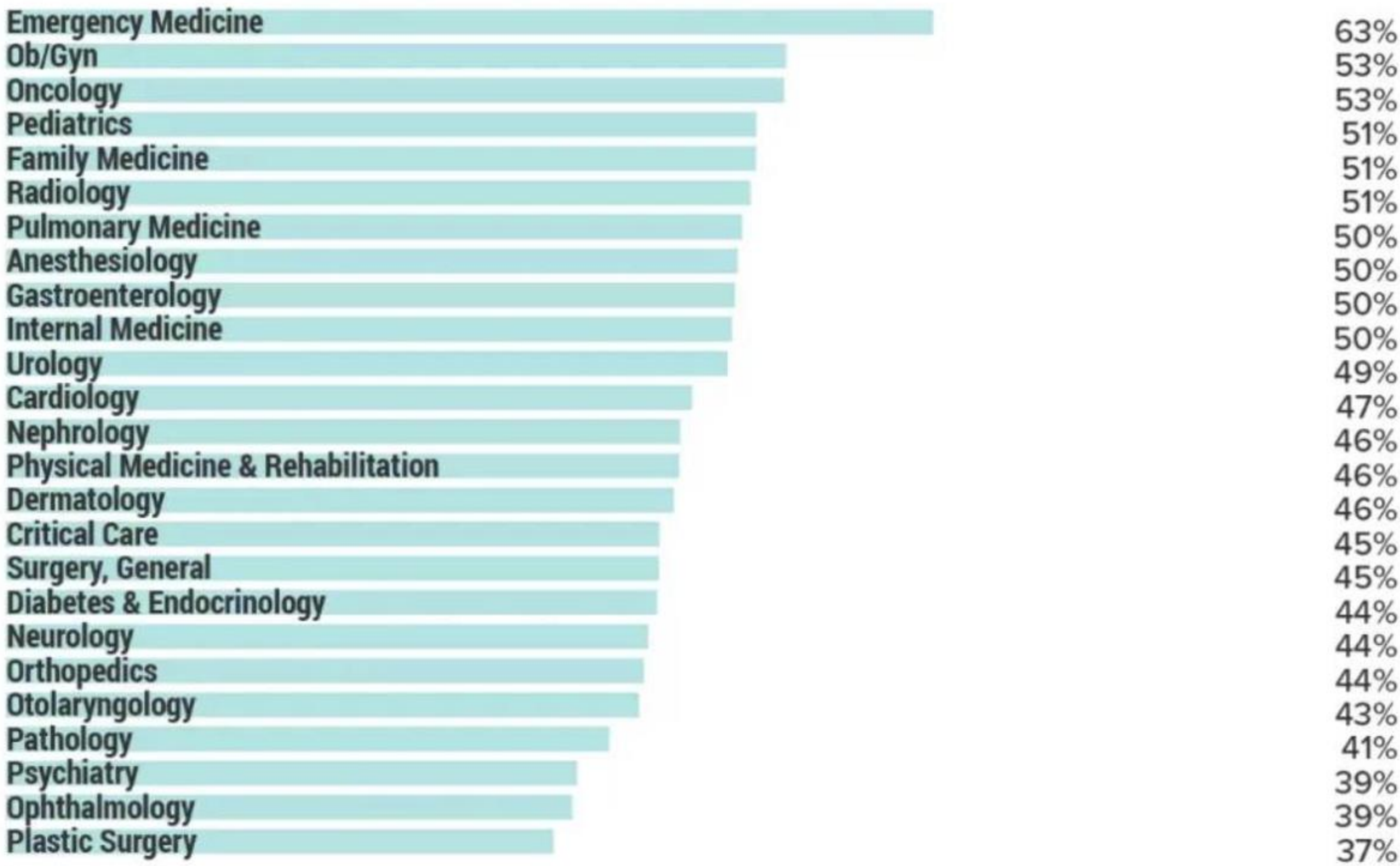
UC San Diego MEDICAL CENTER

INTRODUCTION
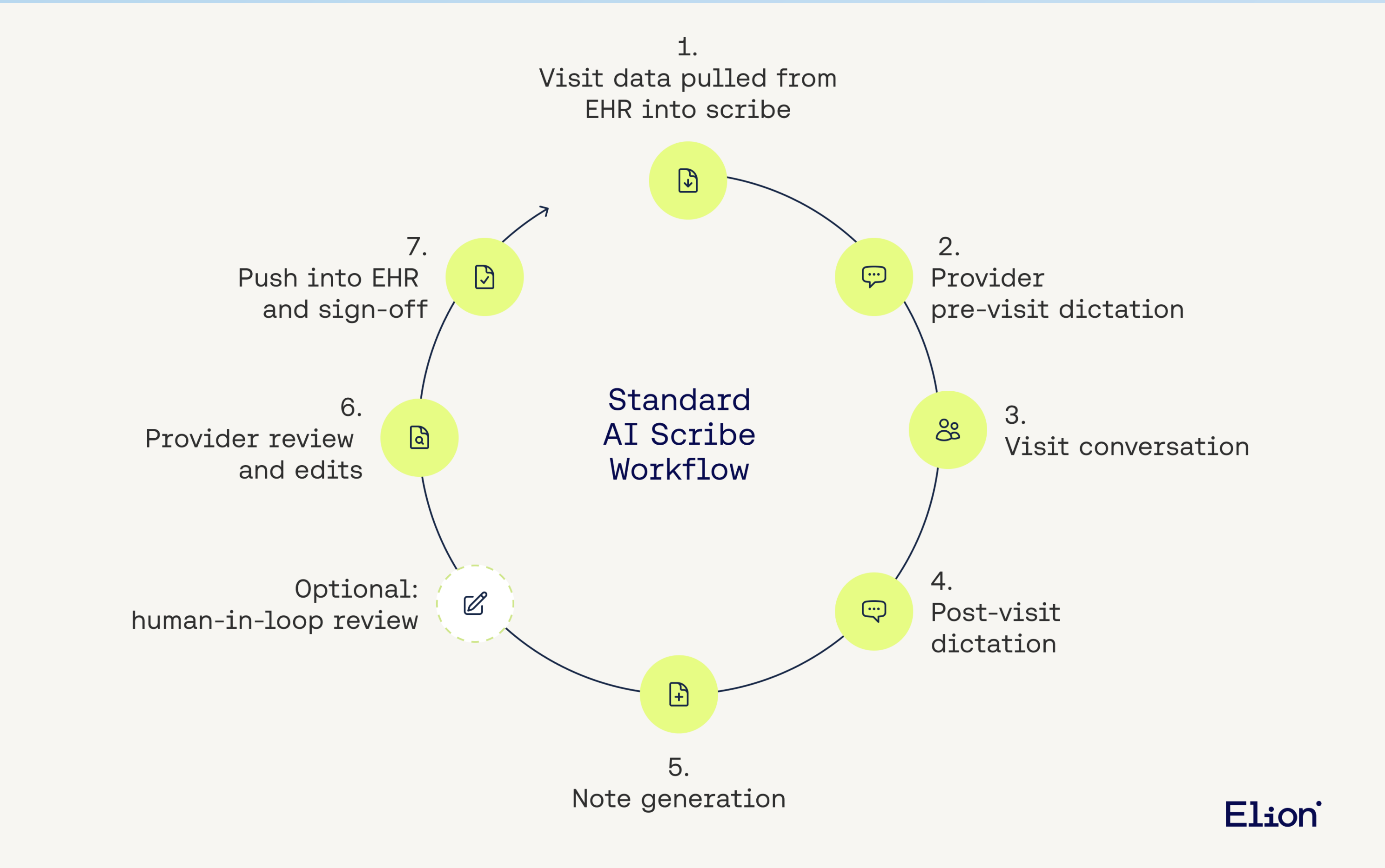
Almost 50% of urologists last year reported burnout.

The primary reasons for burnout are administrative burden, clinical documentation, and work conditions.

Which Specialties Have the Greatest Burnout Rates?

Specialty	Rate
Emergency Medicine	63%
Ob/Gyn	53%
Oncology	53%
Pediatrics	51%
Family Medicine	51%
Radiology	51%
Pulmonary Medicine	50%
Anesthesiology	50%
Gastroenterology	50%
Internal Medicine	50%
Urology	49%
Cardiology	47%
Nephrology	46%
Physical Medicine & Rehabilitation	46%
Dermatology	46%
Critical Care	45%
Surgery, General	45%
Diabetes & Endocrinology	44%
Neurology	44%
Orthopedics	44%
Otolaryngology	43%
Pathology	41%
Psychiatry	39%
Ophthalmology	39%
Plastic Surgery	37%

Not all specialties are shown.

Scribes have shown improvement in burnout rates, but high turnover rates and training needs have limited their impact.

AI scribes have recently been shown to decrease documentation times and improve workflow, potentially preventing burnout

Standard AI Scribe Workflow

1. Visit data pulled from EHR into scribe
2. Provider pre-visit dictation
3. Visit conversation
4. Post-visit dictation
5. Note generation
6. Provider review and edits
7. Push into EHR and sign-off
Optional: human-in-loop review

Elion

RECENT DATA

Studies have shown significant reductions in physician task loads and burnout scores.

Specifically, documentation burden and time has consistently been shown to have decreased.

Physician task load (PTL), Burnout, system usability score (SUS)

Metric	Pre-pilot mean (SD)	Post-pilot mean (SD)	Cohen's d	T statistic	P-value
PTL	68.98 (17.35)	44.56 (20.62)	1.28	7.35	.000
Burnout[a]	7.47 (2.41)	5.53 (2.10)	0.86	5.12	.000
SUS	58.09 (15.37)	69.01 (16.24)	0.69	−3.20	.003

PROPOSAL

Standardizing AI scribe systems for use can increase accuracy and **limit the variability** of different systems.

Doing so can **increase trust in documentation** while allowing providers to decrease administrative burden and reimburse appropriately

REFERENCES

Shreya J Shah, Anna Devon-Sand, Stephen P Ma, Yejin Jeong, Trevor Crowell, Margaret Smith, April S Liang, Clarissa Delahaie, Caroline Hsia, Tait Shanafelt, Michael A Pfeffer, Christopher Sharp, Steven Lin, Patricia Garcia, Ambient artificial intelligence scribes: physician burnout and perspectives on usability and documentation burden, Journal of the American Medical Association, Volume 32, Issue 2, February 2025, Pages 375–380

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CONCLUSIONS

Artificial Intelligence Scribe Systems can help turn the tide against **burnout** by **decreasing** clinical documentation burden and **improving** workflow.

Change in Average Note Time per Physician

Legend
Individual Physicians

Change in Average Note Time (Minutes)