CLINICAL TIME AND SIMULATION USAGE IN PRE-LICENSURE NURSING PROGRAMS IN THE UNITED STATES

Richard Smiley
Maryann Alexander
NCSBN Scientific Symposium
October 24, 2018

OUTLINE

- BACKGROUND
- COHORT STUDY
- SURVEY RESPONSE
- RESULTS
- CONCLUSION

BACKGROUND

- In 2010 a survey was sent out to all prelicensure RN programs to assess the prevalence and practice of simulation
- Findings from the study were used in the design of the National Simulation Study
- In 2017 a follow-up study was conducted which replicated the methodology of the 2010 survey and updated the questionnaire to include questions about the NCSBN simulation study and guidelines

PURPOSE

- Describe the current state and use of simulation in prelicensure programs including LPN/VN programs
- Compare the 2017 findings to the 2010 results and describe any changes
- Determine the use and impact of the simulation study and guidelines

METHOD

- Survey sent via mail to all prelicensure education programs
- Same survey as in 2010 with added questions to determine the impact of the Simulation Study and Guidelines.
- 2017 Survey included LPN/VN programs.

Multiple mailings with a reminder postcard.

RESULTS

SURVEY RESPONSE

- 1,060 useable surveys were returned in 2010 for a response rate of 62.2%
- 902 useable surveys were returned in 2017 for a response rate of 28.3%
- Surveys were mailed in 2017 out to both RN and LPN/VN licensure programs
- For the Cohort Study 380 nursing programs were identified as participating in both surveys
- The trends seen in the cohort study were the same as those seen in the overall study

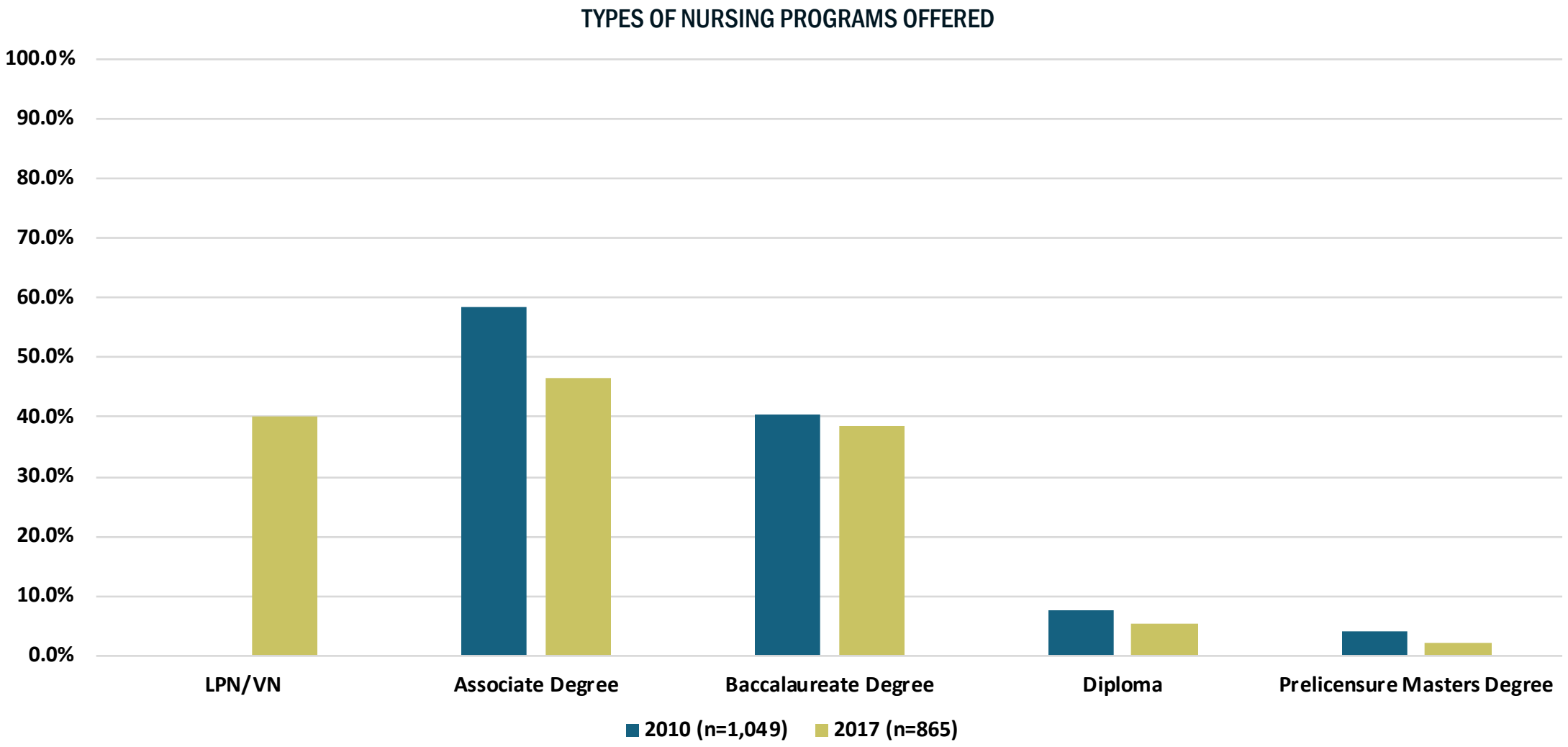
COHORT STUDY

- In order to confirm that trends found in the overall study were not due to differences in the composition of the data samples collected in 2010 and 2017 a cohort study was conducted

- Nursing programs that participated in both the 2010 and 2017 surveys were identified as a cohort group and tables comparing the two surveys were recreated using only the data that cohort

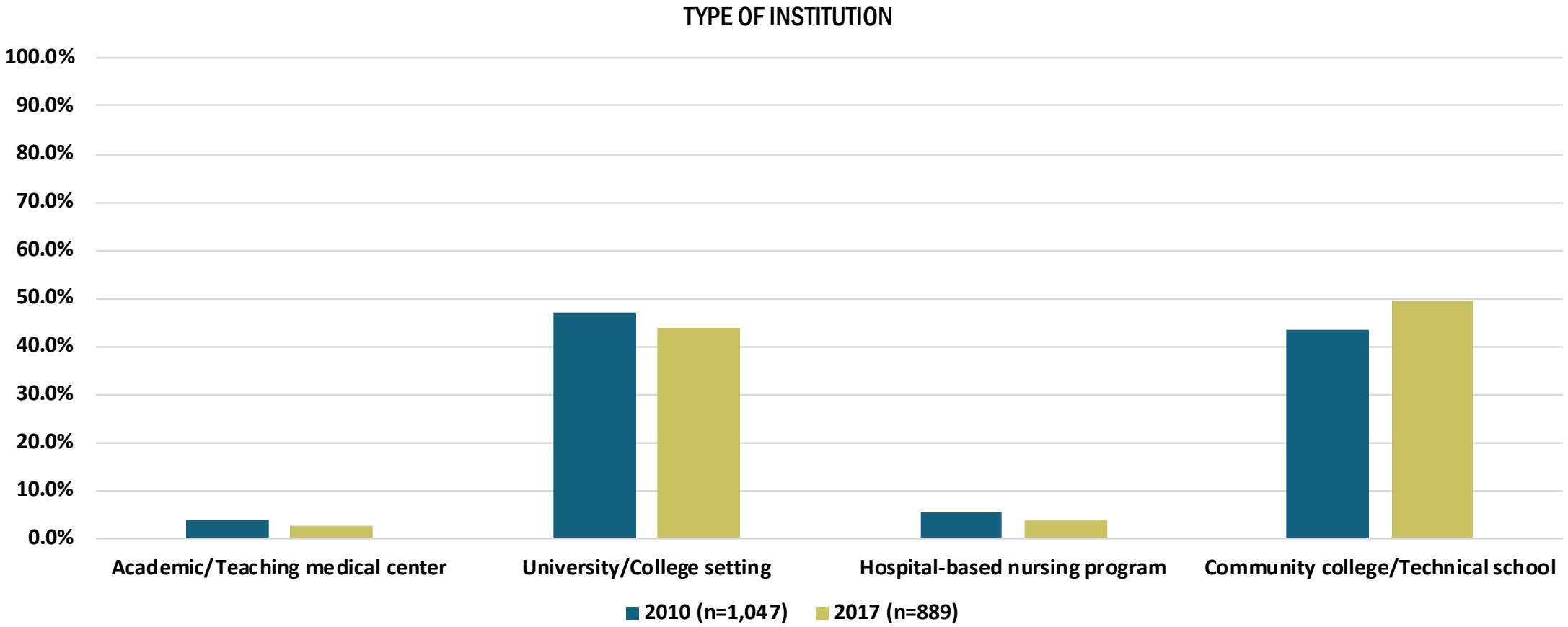
2017 SURVEY

(INCLUDED LPN/VN PROGRAMS)

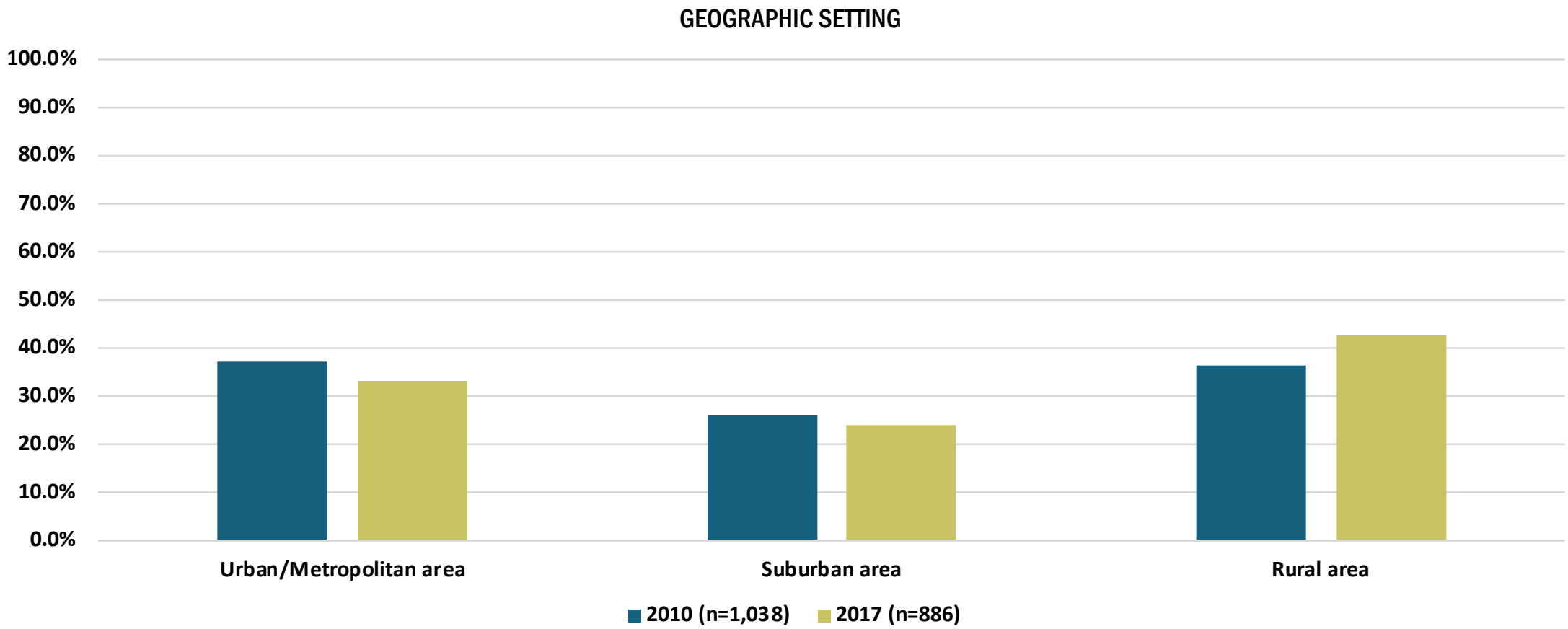


2017 SURVEY

SLIGHT INCREASE IN PROPORTION OF RESPONSES FROM COMMUNITY COLLEGES AND TECHNICAL SCHOOLS

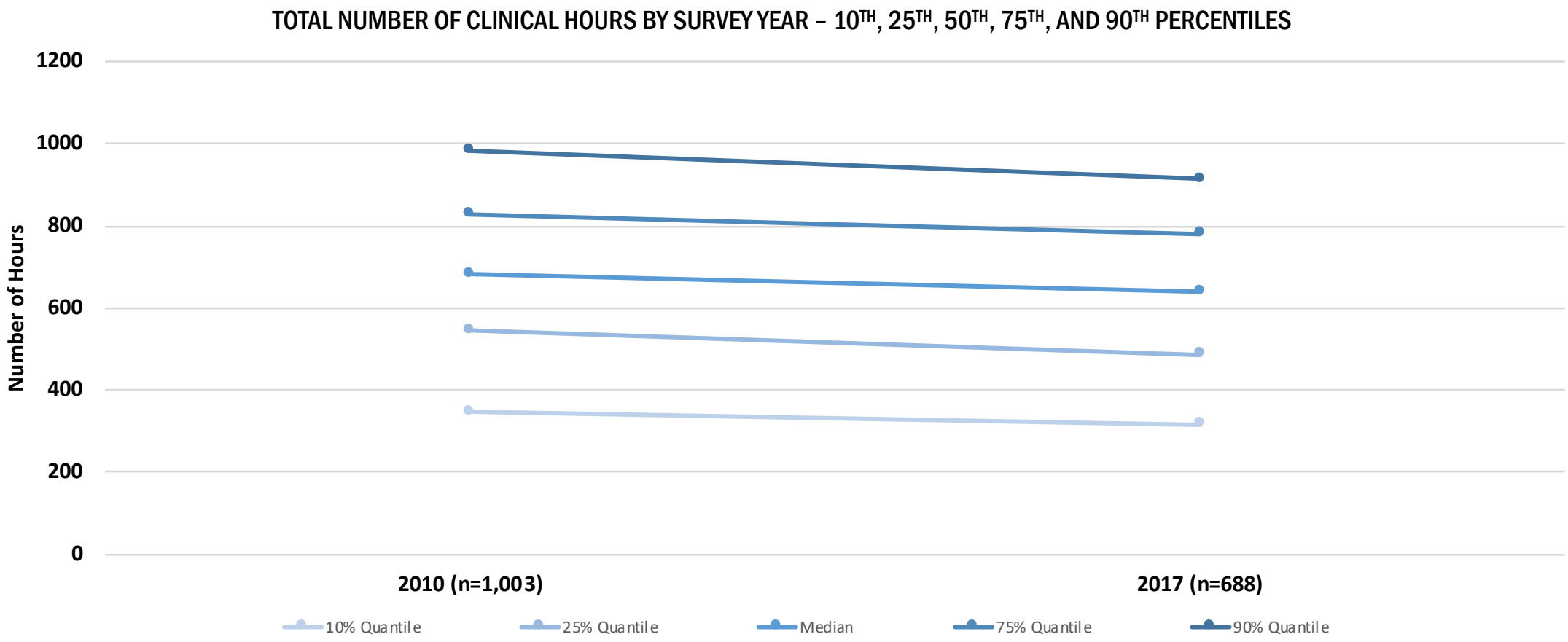


SLIGHT INCREASE IN PROPORTION OF RESPONSES FROM PROGRAMS IN RURAL AREAS



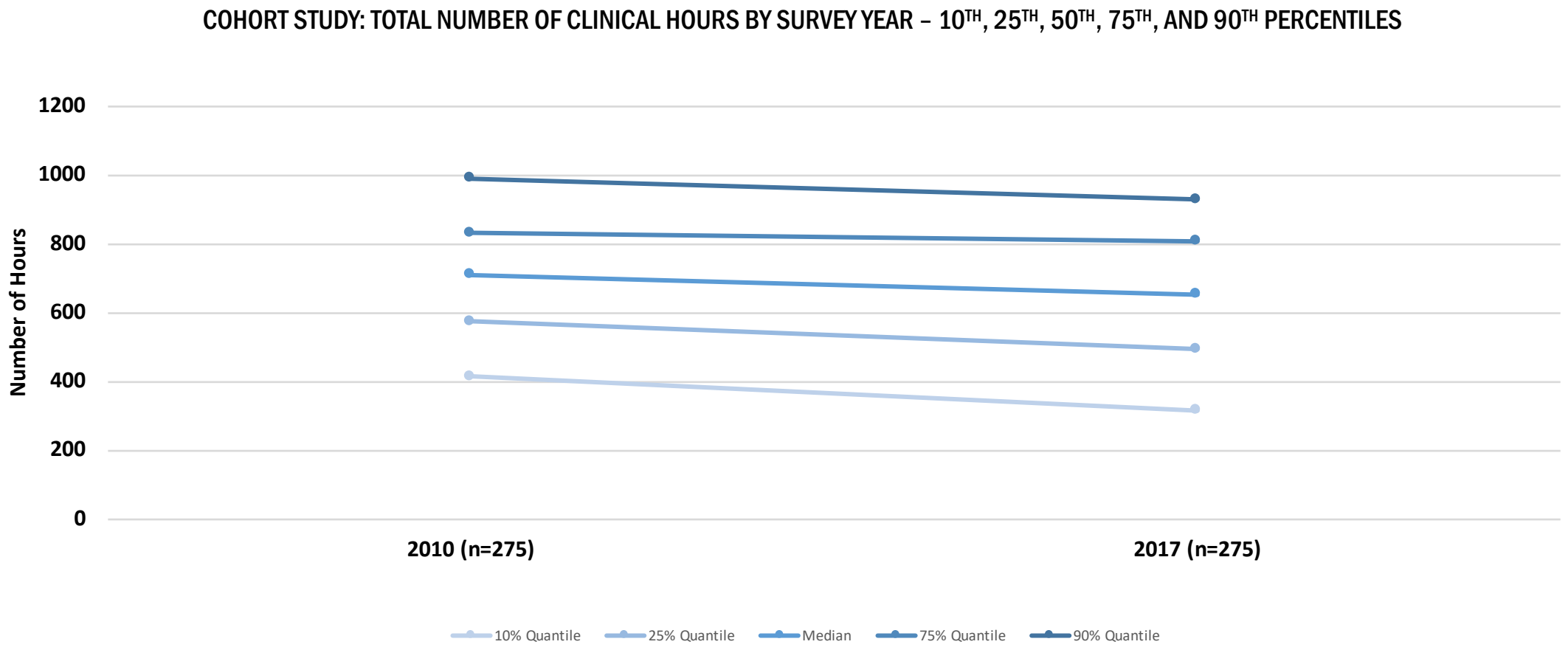
RESULTS

MEDIAN NUMBER OF CLINICAL HOURS HAS DECREASED SINCE 2010



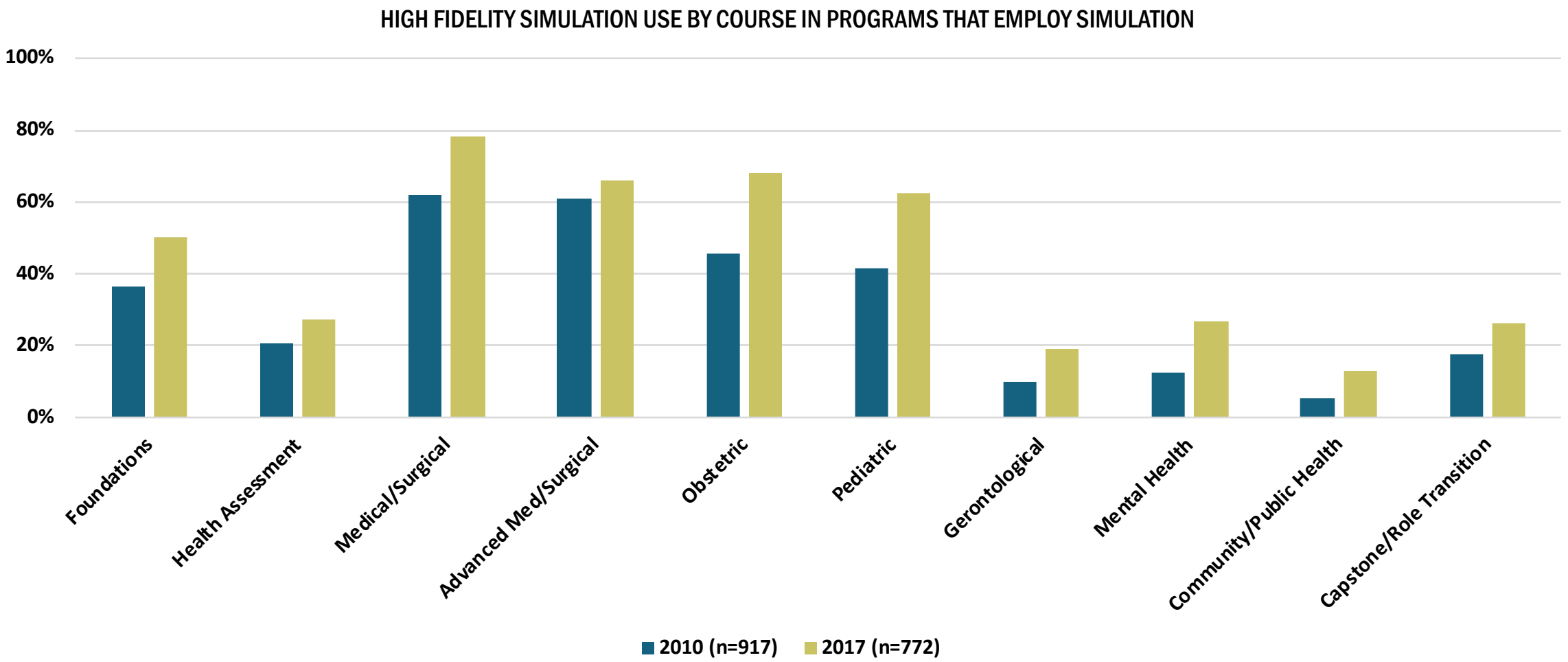
RESULTS

COHORT STUDY ALSO SHOWS MEDIAN NUMBER OF CLINICAL HOURS HAS DECREASED



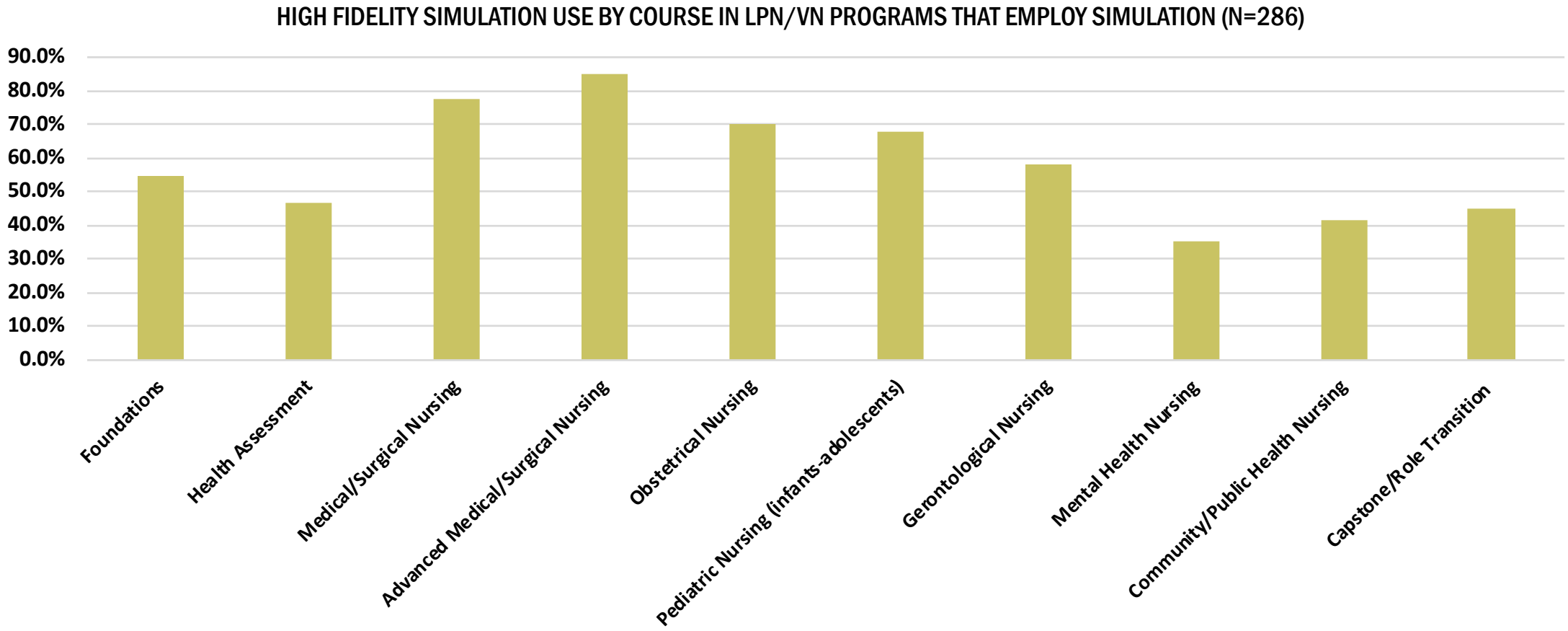
RESULTS

USE OF HIGH FIDELITY SIMULATION HAS INCREASED IN ALL COURSES



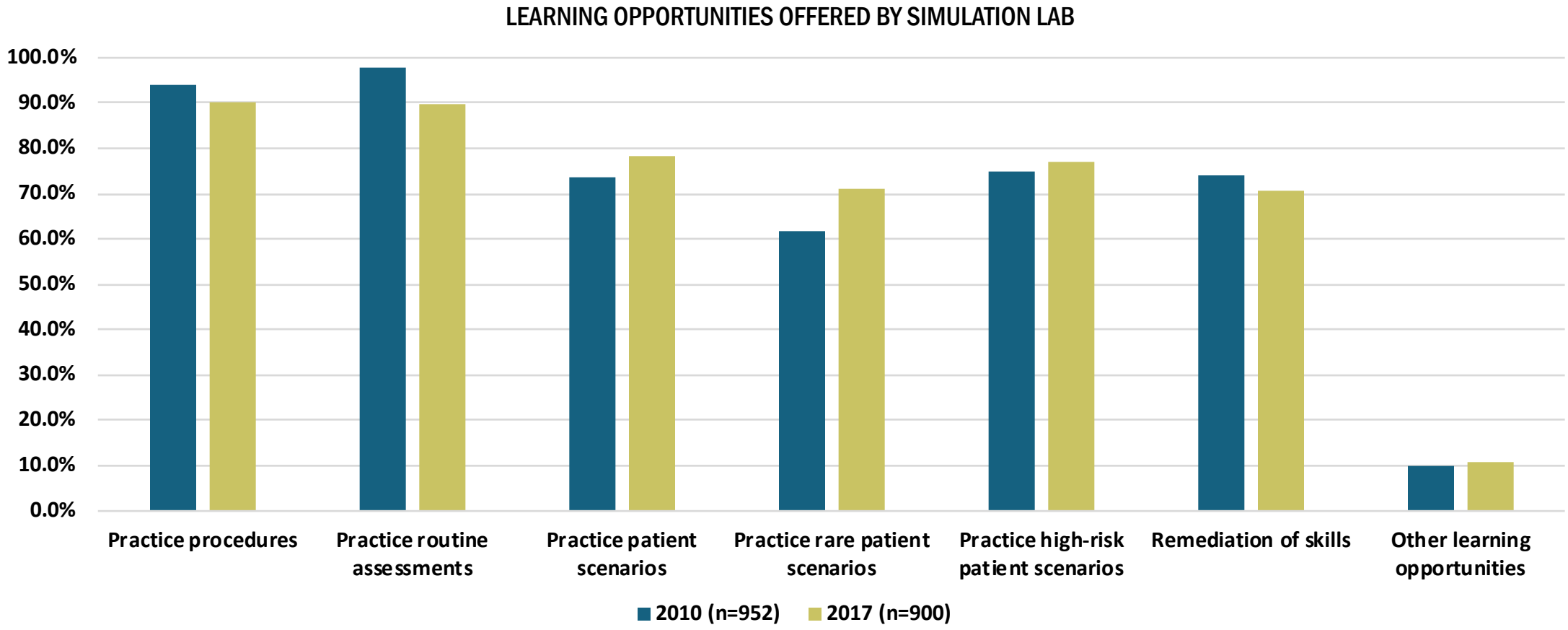
RESULTS

THE LPN/VN COURSES USING THE MOST HIGH FIDELITY SIMULATION ARE COMPARABLE TO THOSE IN RN PROGRAMS



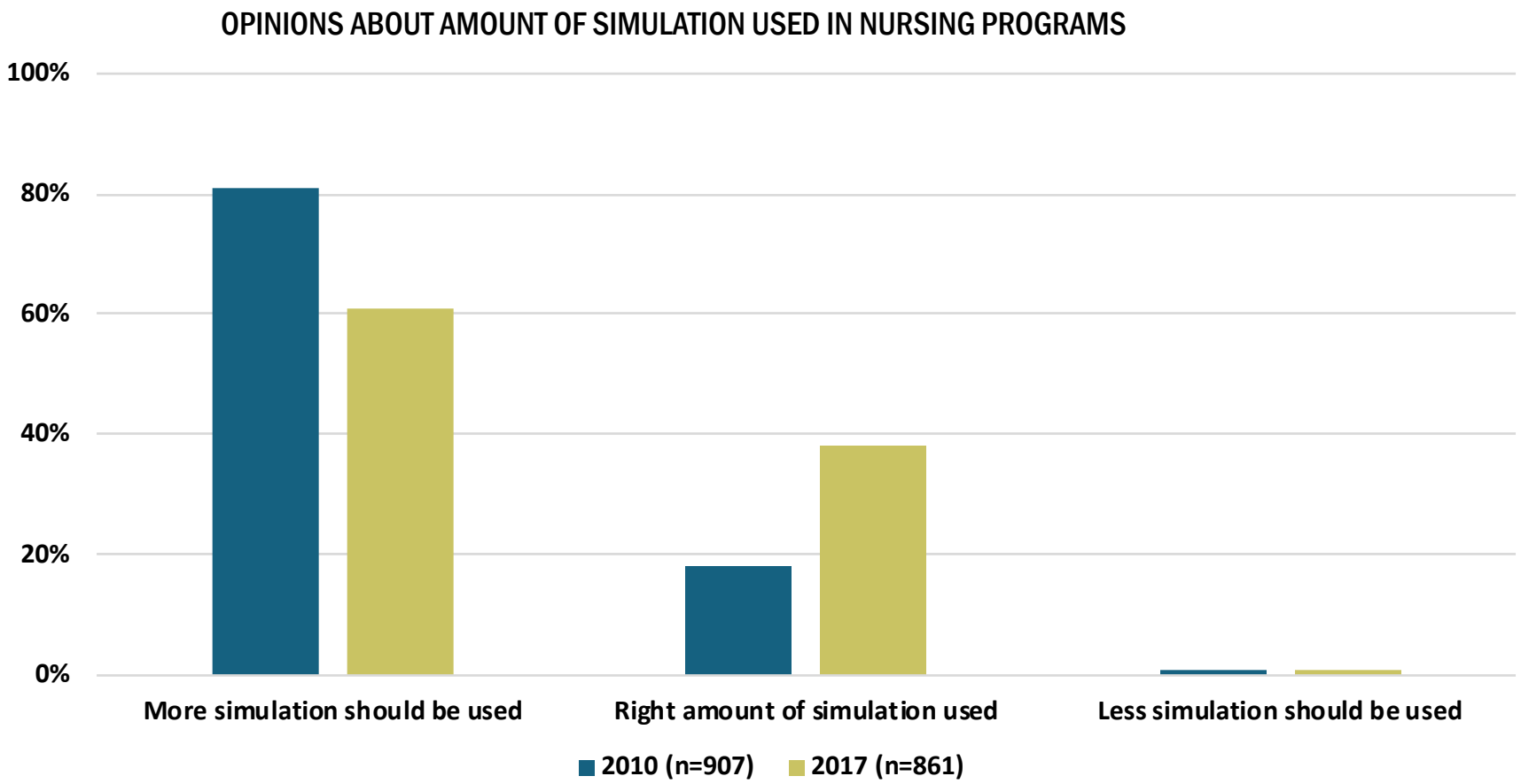
RESULTS

SIMULATION LABS ARE BEING USED SLIGHTLY LESS OFTEN TO PRACTICE ROUTINE ASSESSMENTS, BUT MORE OFTEN TO PRACTICE RARE PATIENT SCENARIOS



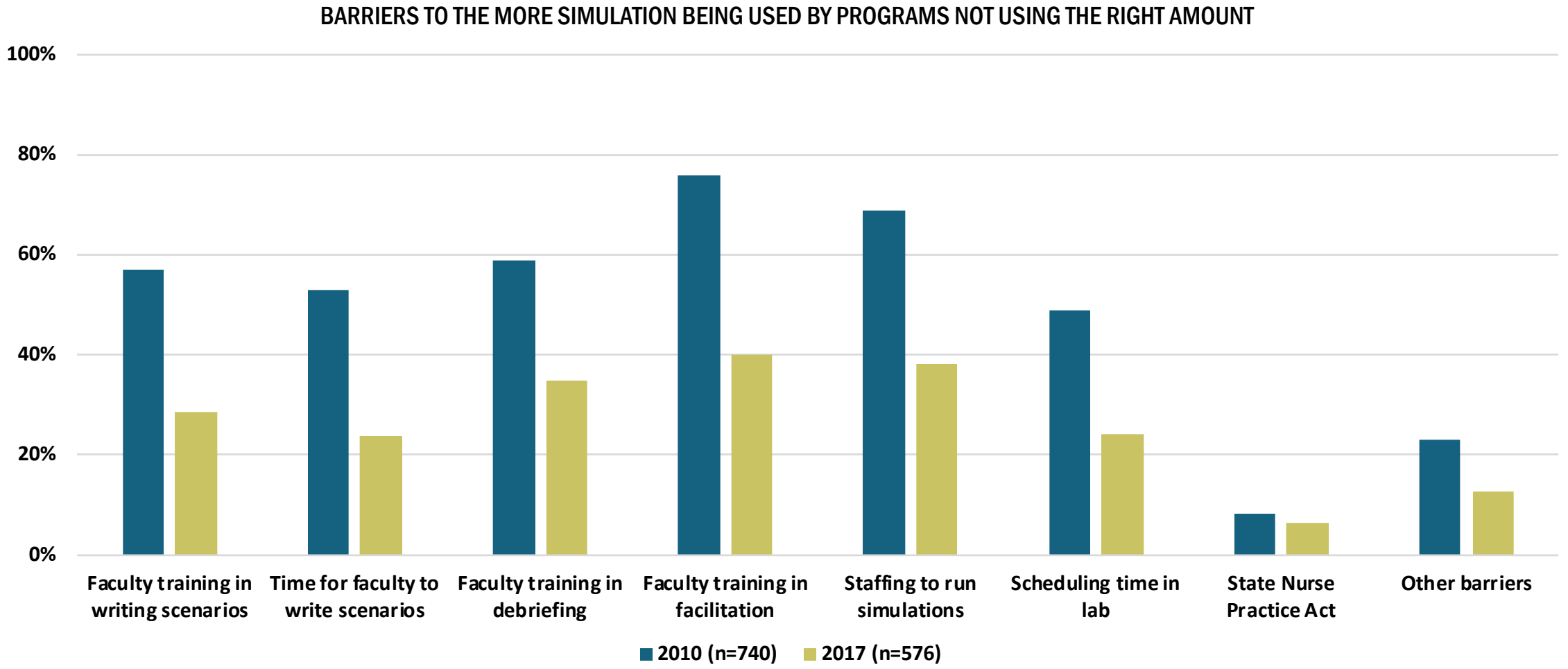
RESULTS

REPORTS THAT RIGHT AMOUNT OF SIMULATION IS BEING USED HAVE INCREASED



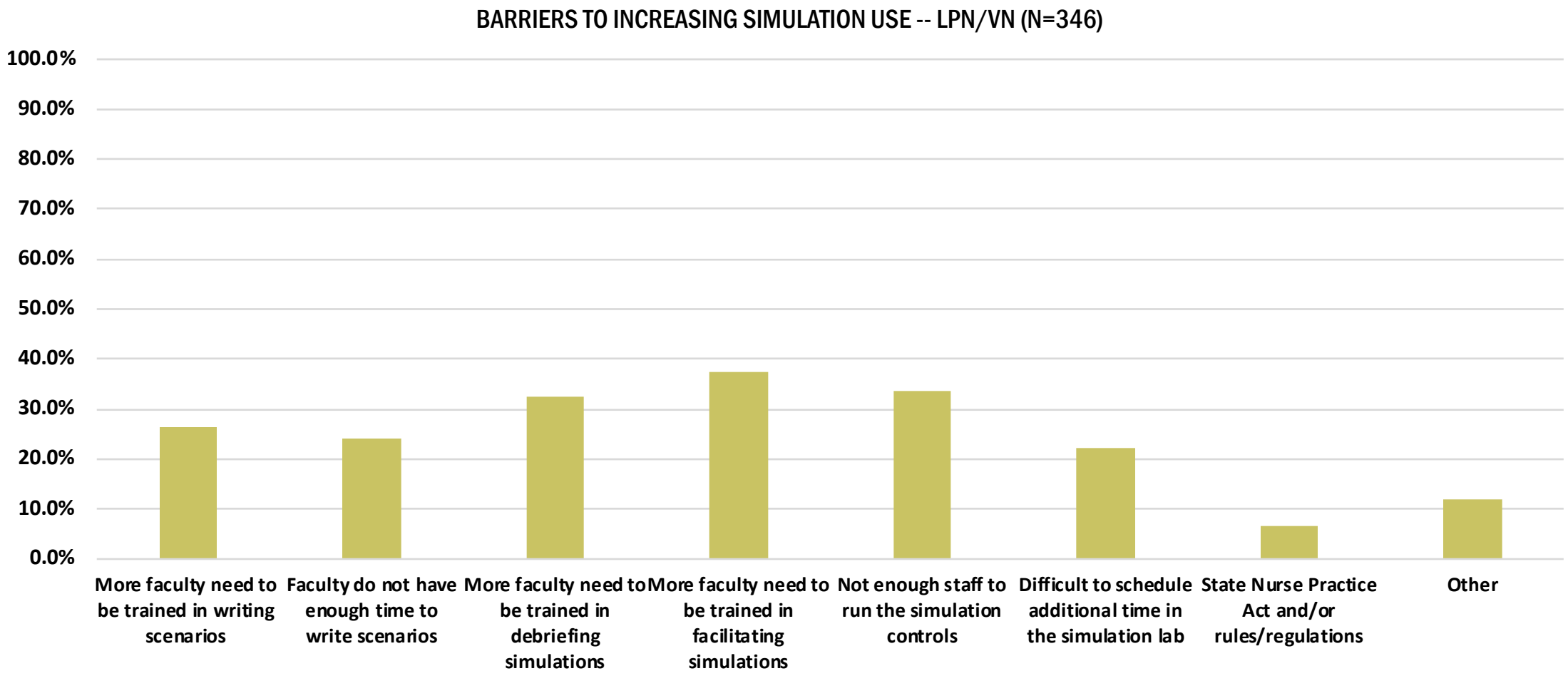
RESULTS

PROGRAMS REPORT FEWER BARRIERS TO USING SIMULATION



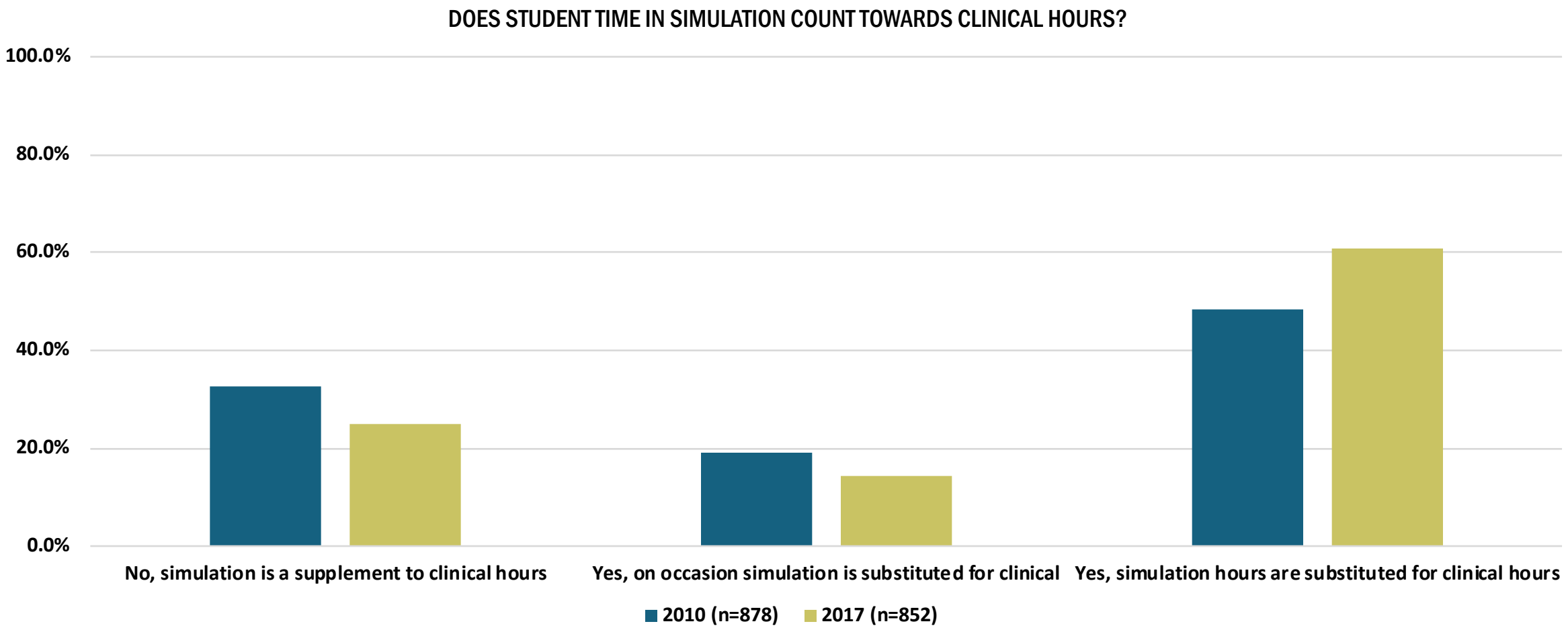
RESULTS

LPN/VN PROGRAMS REPORT SIMILAR BARRIERS TO RN PROGRAMS



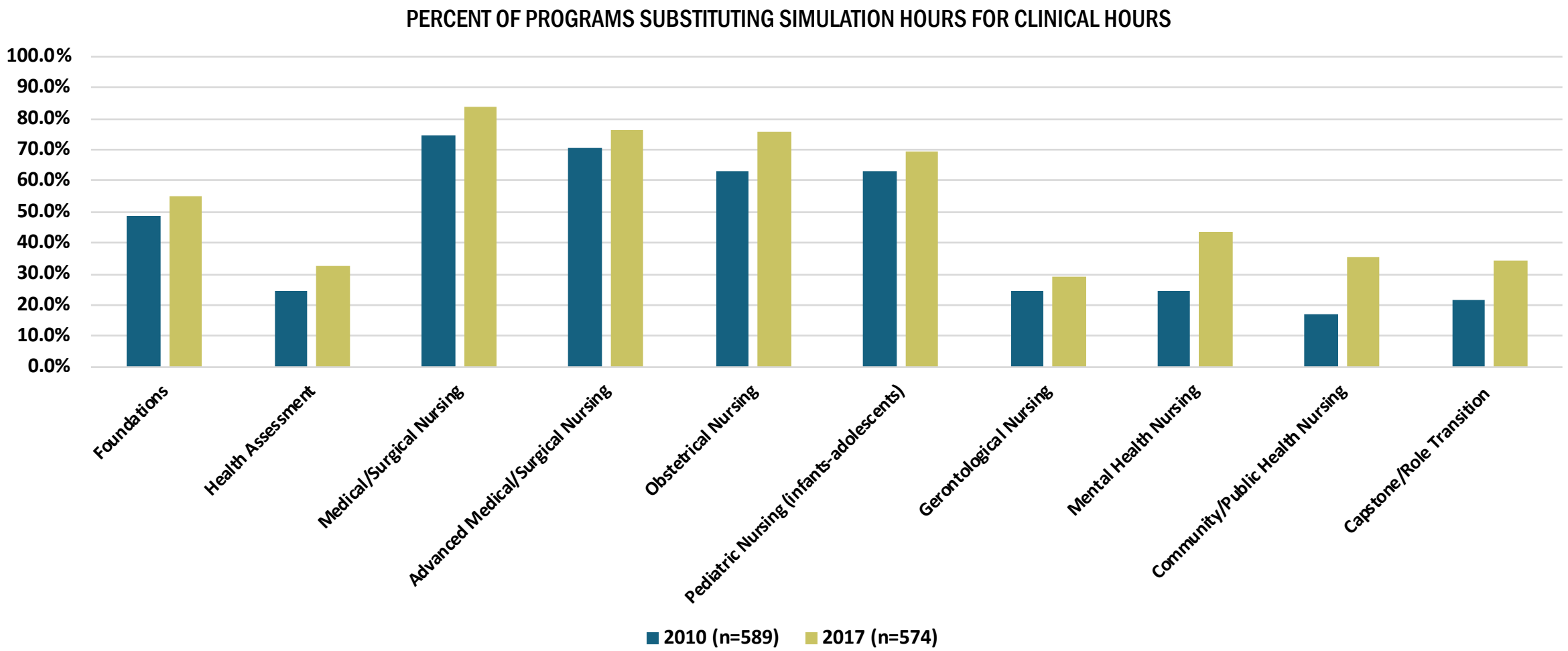
RESULTS

SIMULATION HOURS ARE INCREASINGLY BEING SUBSTITUTED FOR CLINICAL HOURS



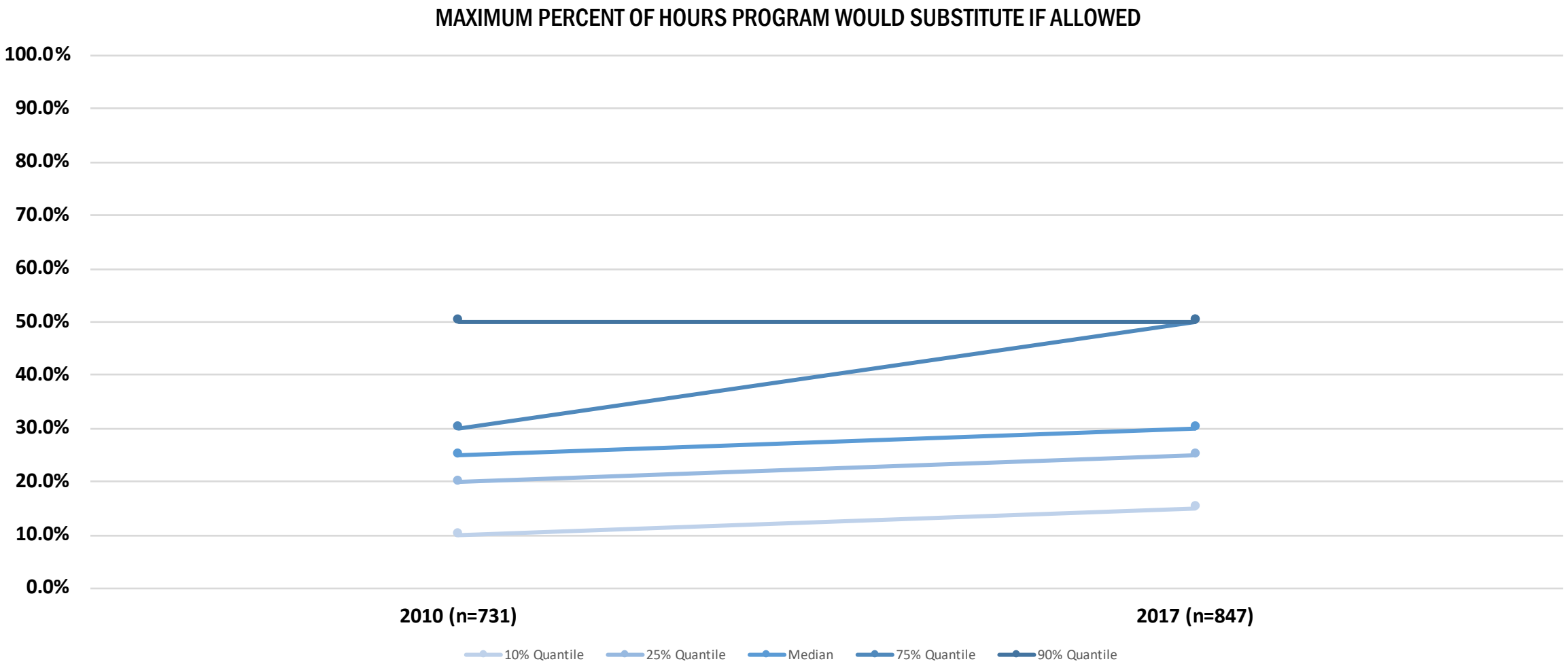
RESULTS

INCREASE IS OCCURRING ACROSS ALL COURSES



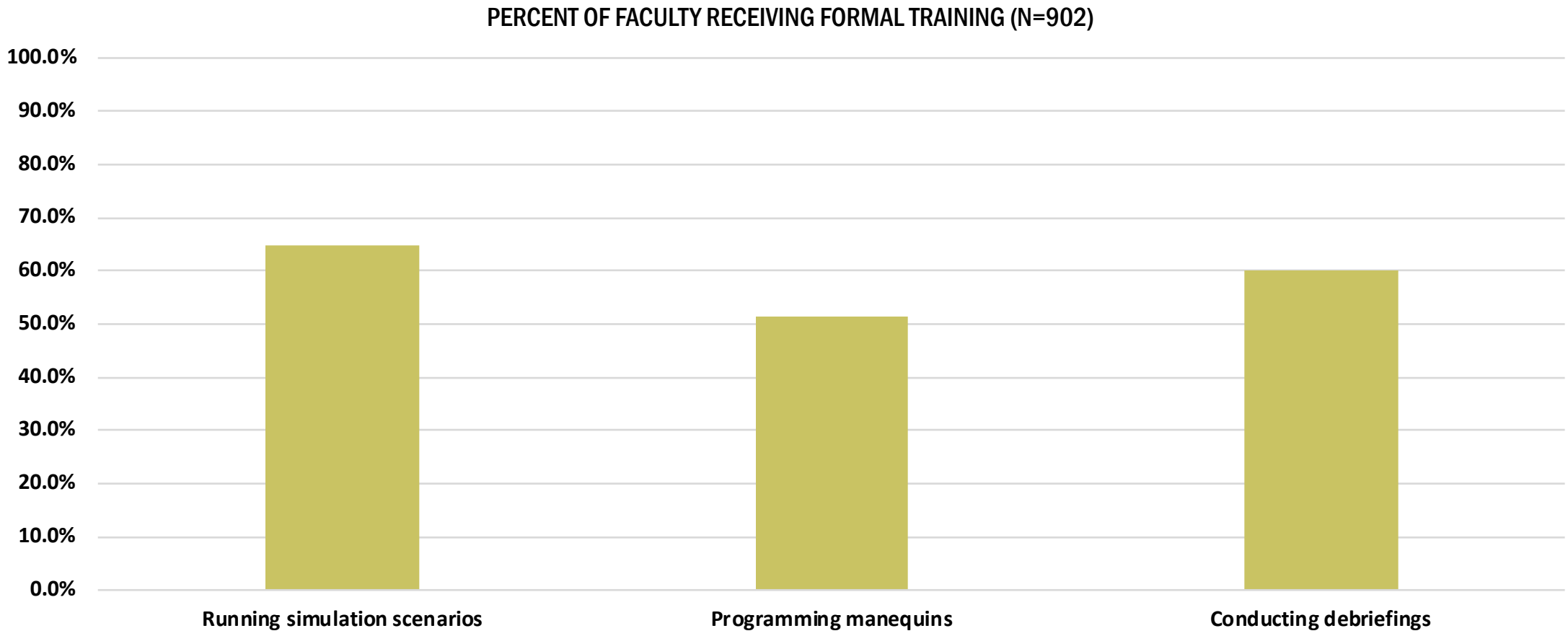
RESULTS

PROGRAMS WOULD SUBSTITUTE FOR UP TO 50% CLINICAL HOURS IF ALLOWED



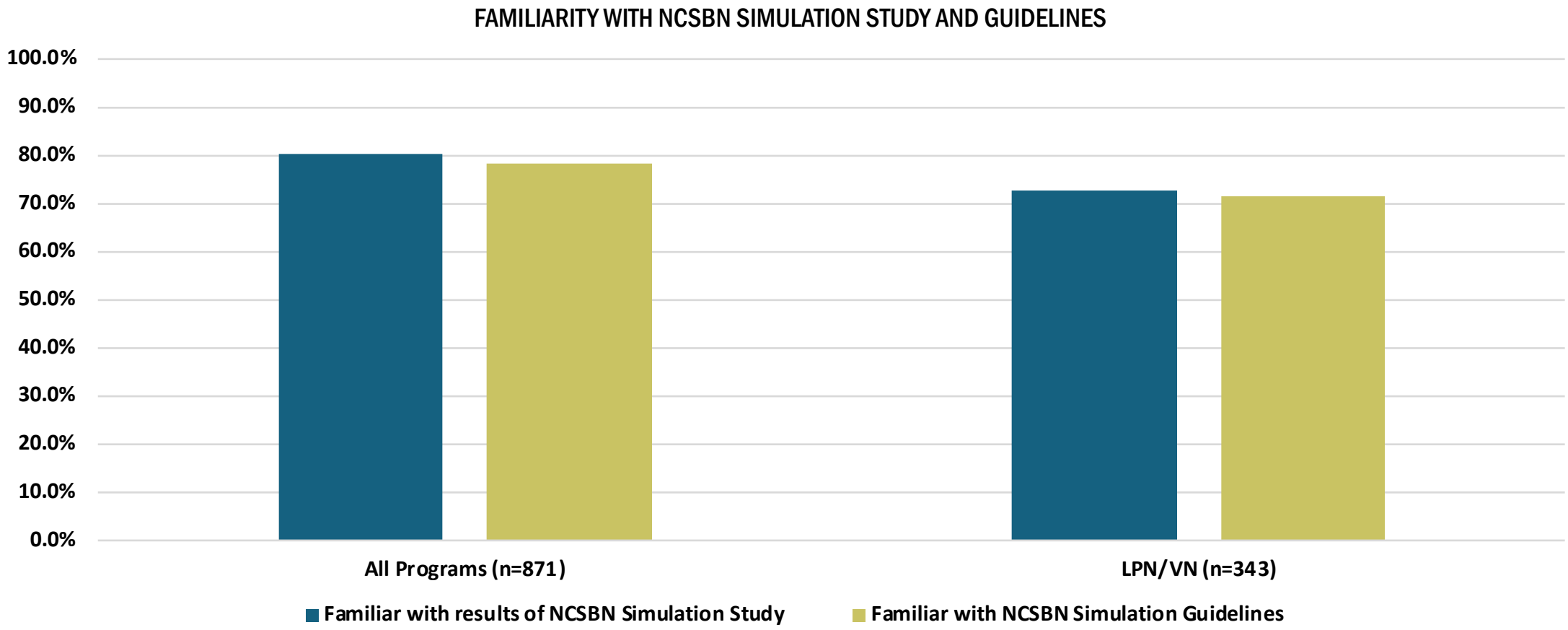
RESULTS

ABOUT HALF OF ALL FACULTY RECEIVE FORMAL TRAINING IN ASPECTS OF SIMULATION



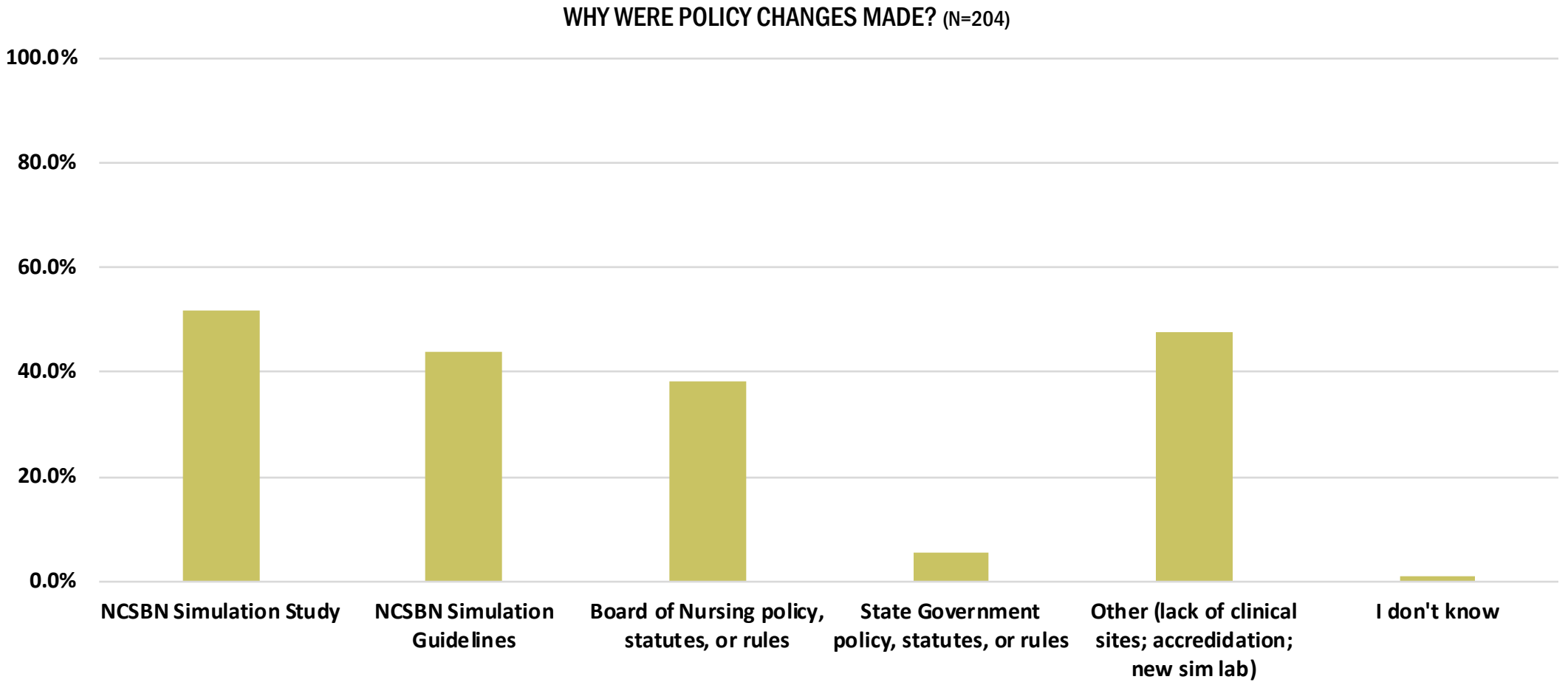
RESULTS

MOST PROGRAMS ARE FAMILIAR WITH THE SIMULATION STUDY AND GUIDELINES



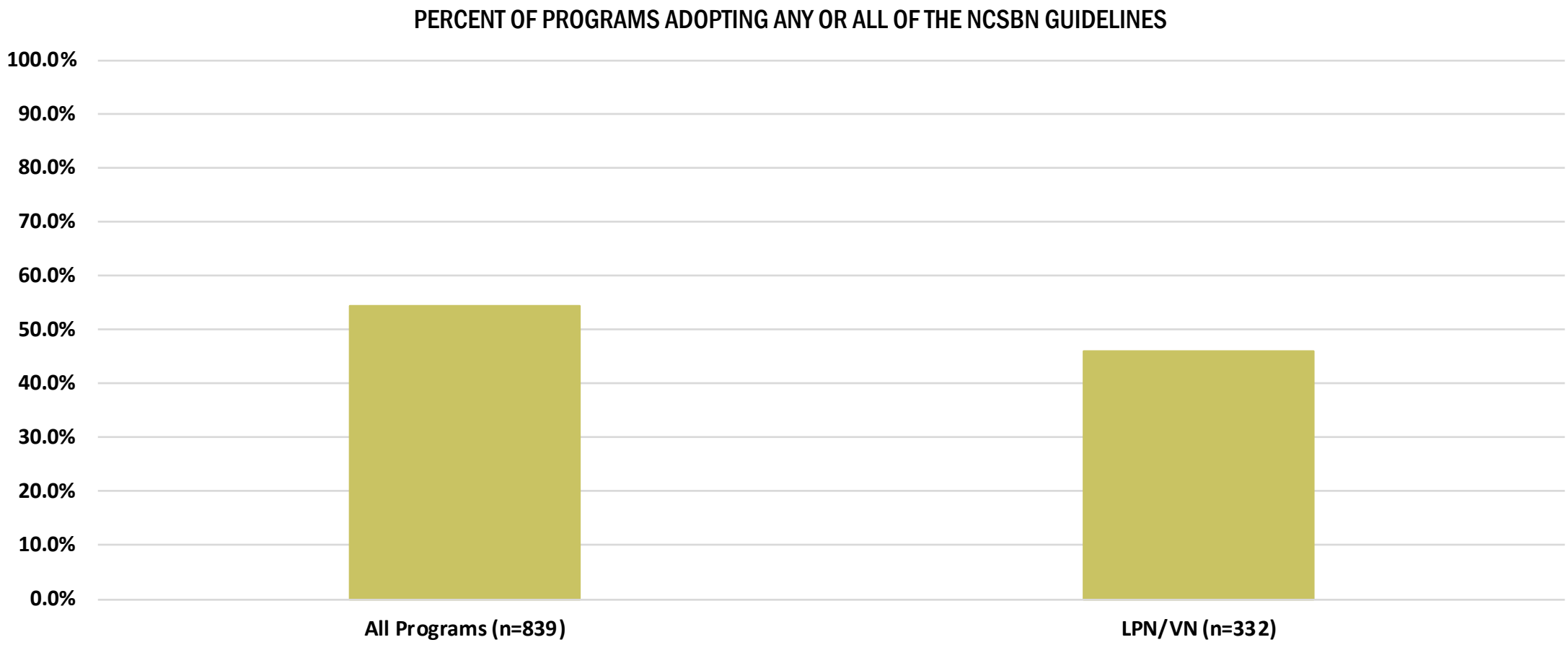
RESULTS

THE NCSBN SIMULATION STUDY AND SIMULATION GUIDELINES EACH PLAYED MAJOR ROLES IN CHANGING POLICY REGARDING USE OF SIMULATION



RESULTS

ABOUT HALF OF THE PROGRAMS HAVE ADOPTED AT LEAST PART OF THE NCSBN SIMULATION GUIDELINES



CONCLUSIONS

- The evolving educational landscape is revealed to have more acceptance of the usage of simulation than what was present in 2010
- There is increased usage of high fidelity simulation across all types of programs and courses while barriers to the usage of simulation are in decline
- The NCSBN Simulation Study and Simulation Guidelines have both had an impact on the regulation of simulation and knowledge of each is widespread among the programs