

Global Evidence in Support of Improved Nursing Care Environments

Linda Aiken, UPenn, USA, & RN4CAST

Liming You, Sun Yat-sen U, China

Hester Klopper, North-West U, South Africa

Eunhee Cho, Yonsei U, South Korea

Jeanne Cimiotti, UPenn, USA

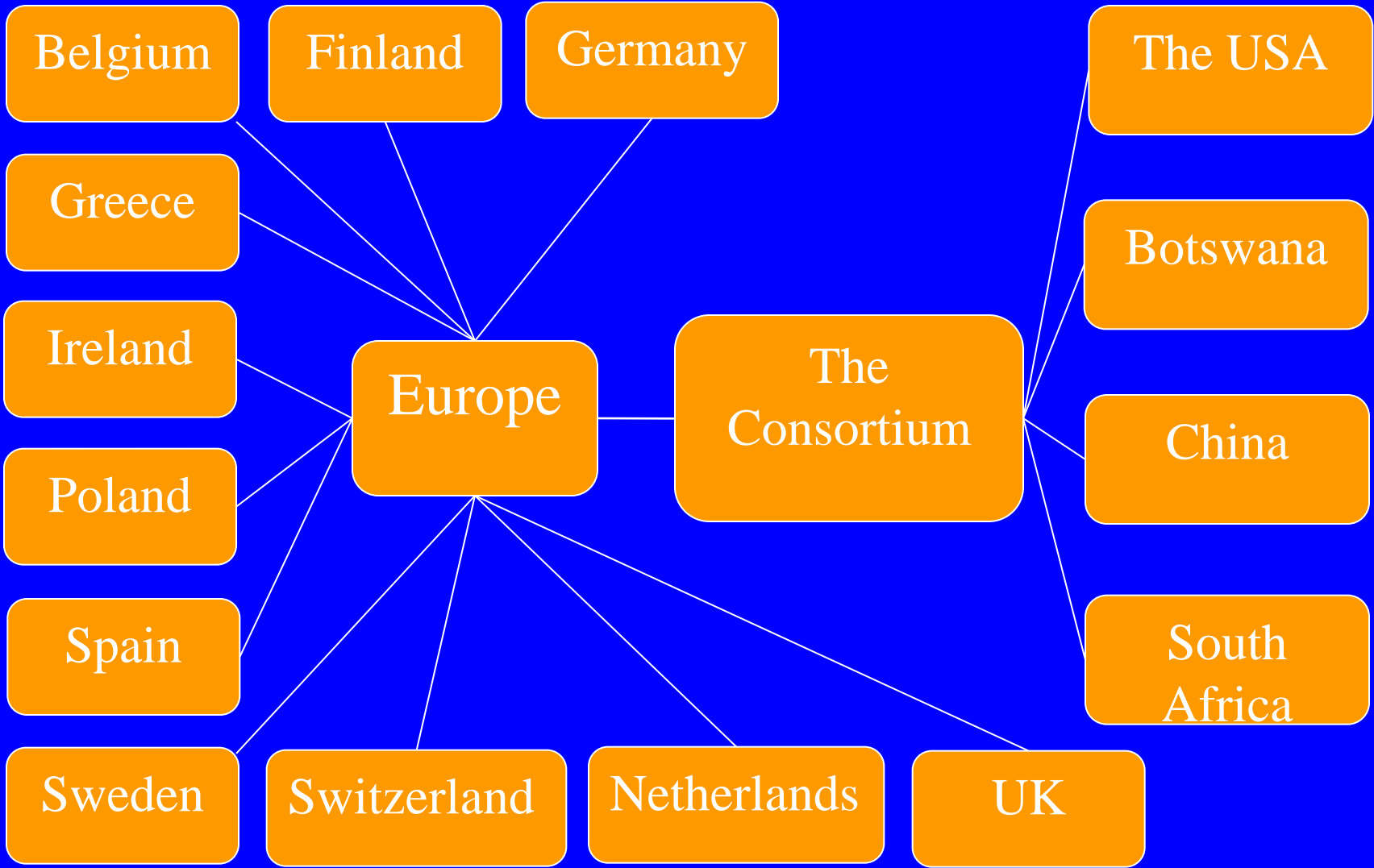
Tembeka Gwagwa, DENOSA, South Africa



The Registered Nurse Forecasting (**RN4CAST**) project aims to:

- 1. Investigate the effects of nursing work environment and nursing staff deployment on nurse recruitment, retention, and productivity and patient outcomes;
- 2. Generate new approaches to more effective management of nursing resources by improving the accuracy and reliability of forecasting models.

<http://www.rn4cast.eu/>



Research Design



Sample Size in Europe & China

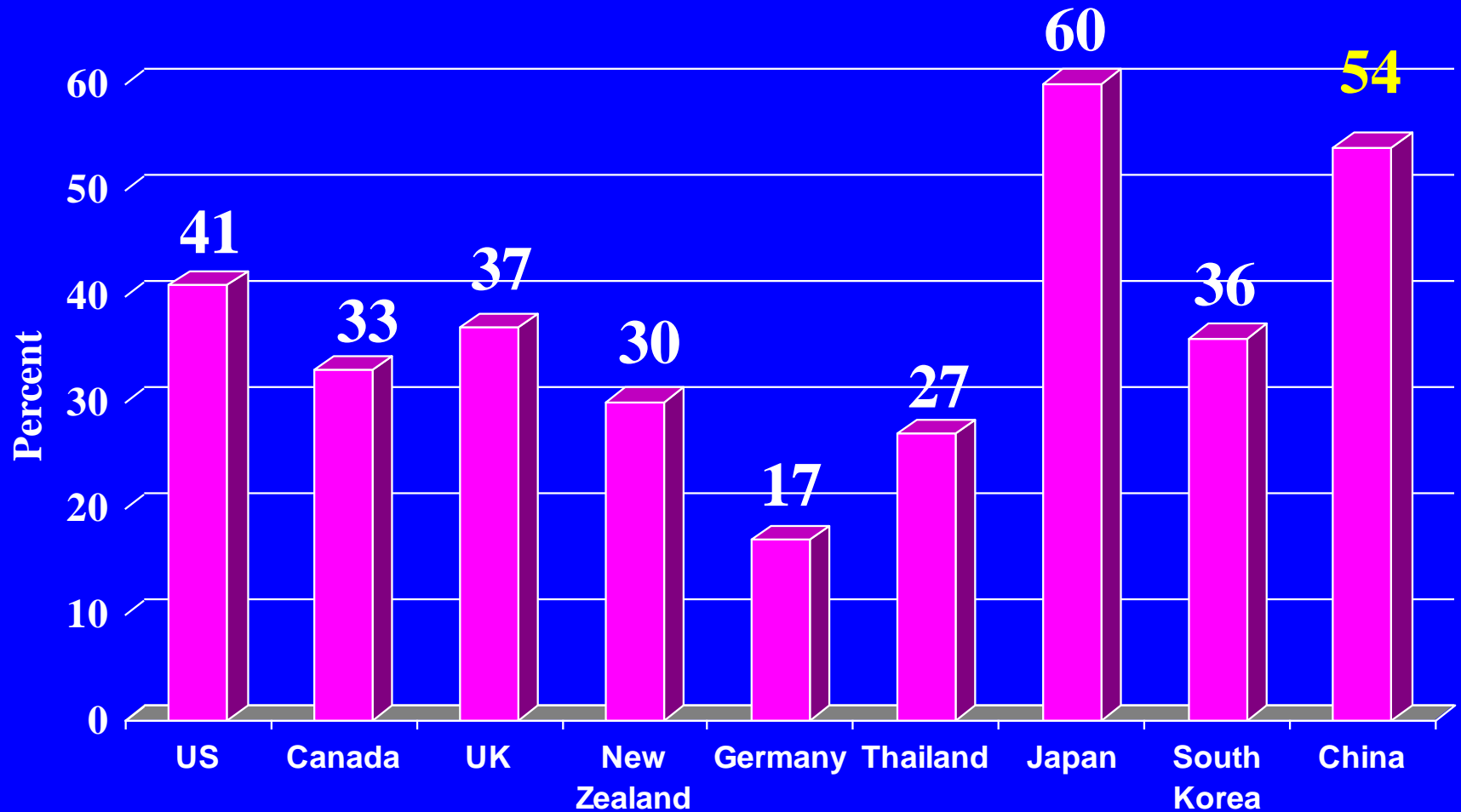
Region	Countries/ Provinces	Hospitals	Nurses	Patients
Europe	11	330	16,500	9,000
China	9	180	9,000	5,400

- ❖ In Europe, stratified sample of 30 hospitals in each country
- ❖ In China, stratified sample of 20 hospitals in each province
- ❖ In China & Europe, 50 nurses and 30 patients surveyed in each hospital
- ❖ In Europe, death rates for year study hospitals

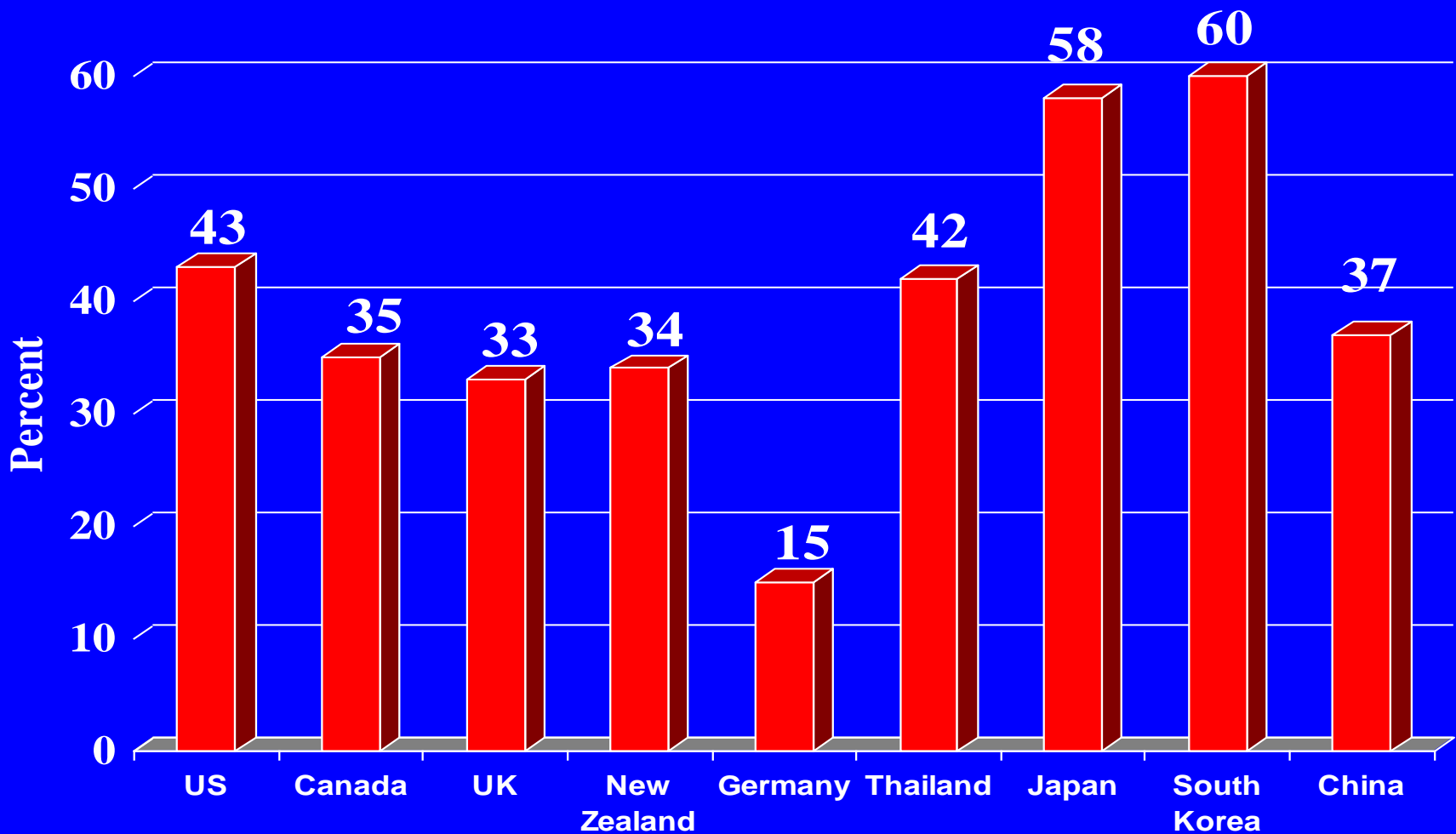
China: Guangdong Province

	Hospitals	Nurses	patients
Total	21	1104	750

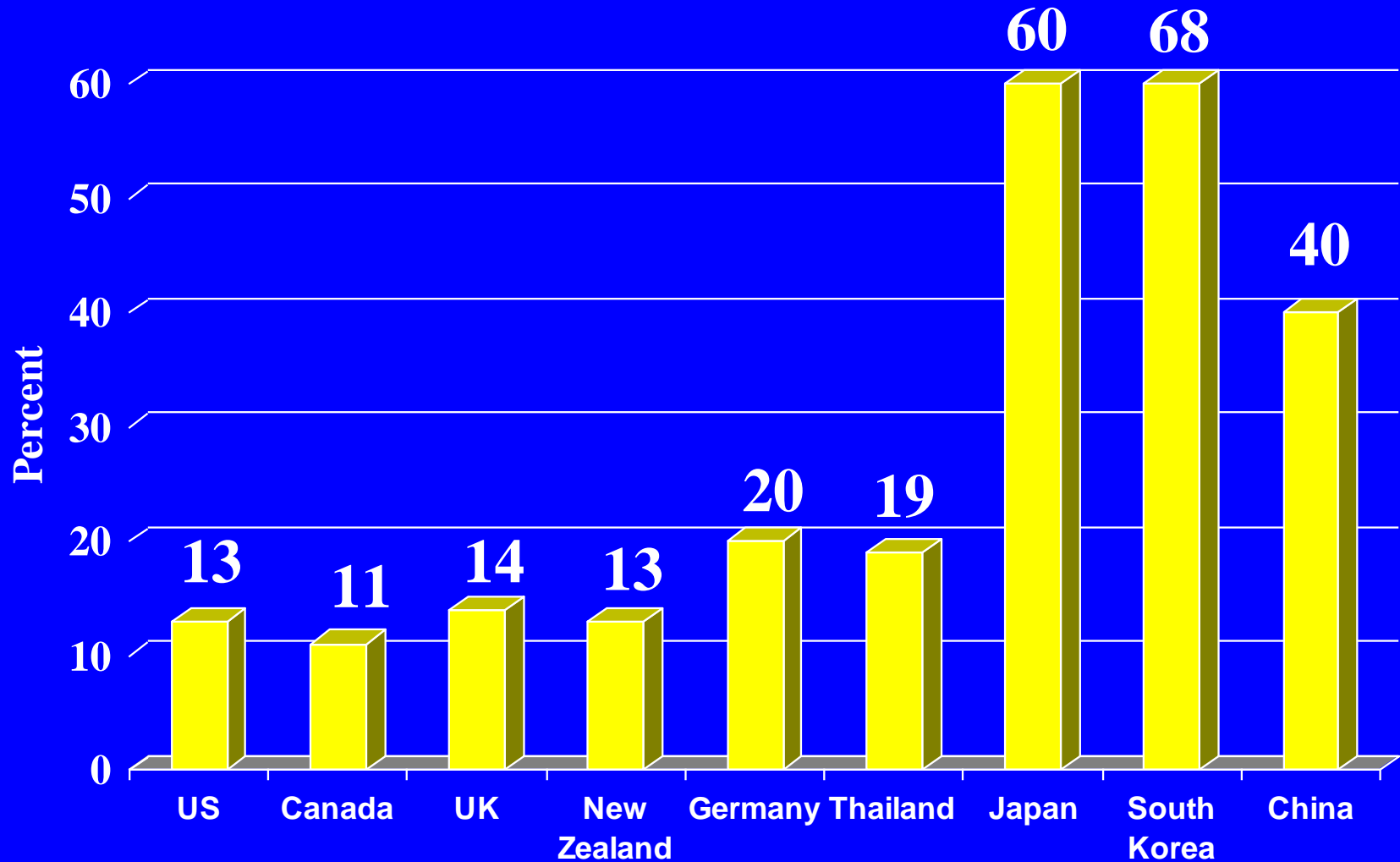
% Nurses Dissatisfied with Job



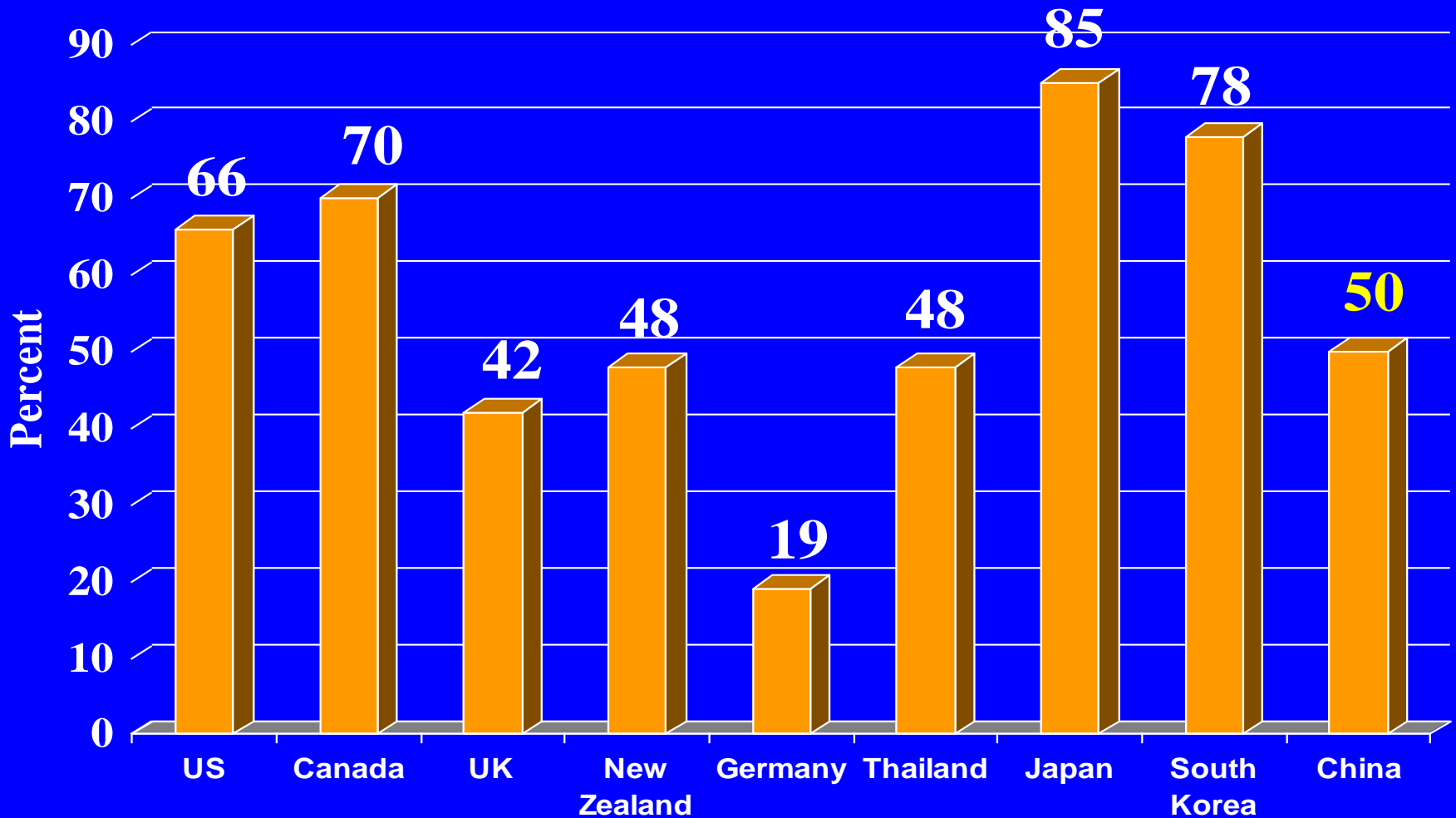
% Nurses with High Job-related Burnout



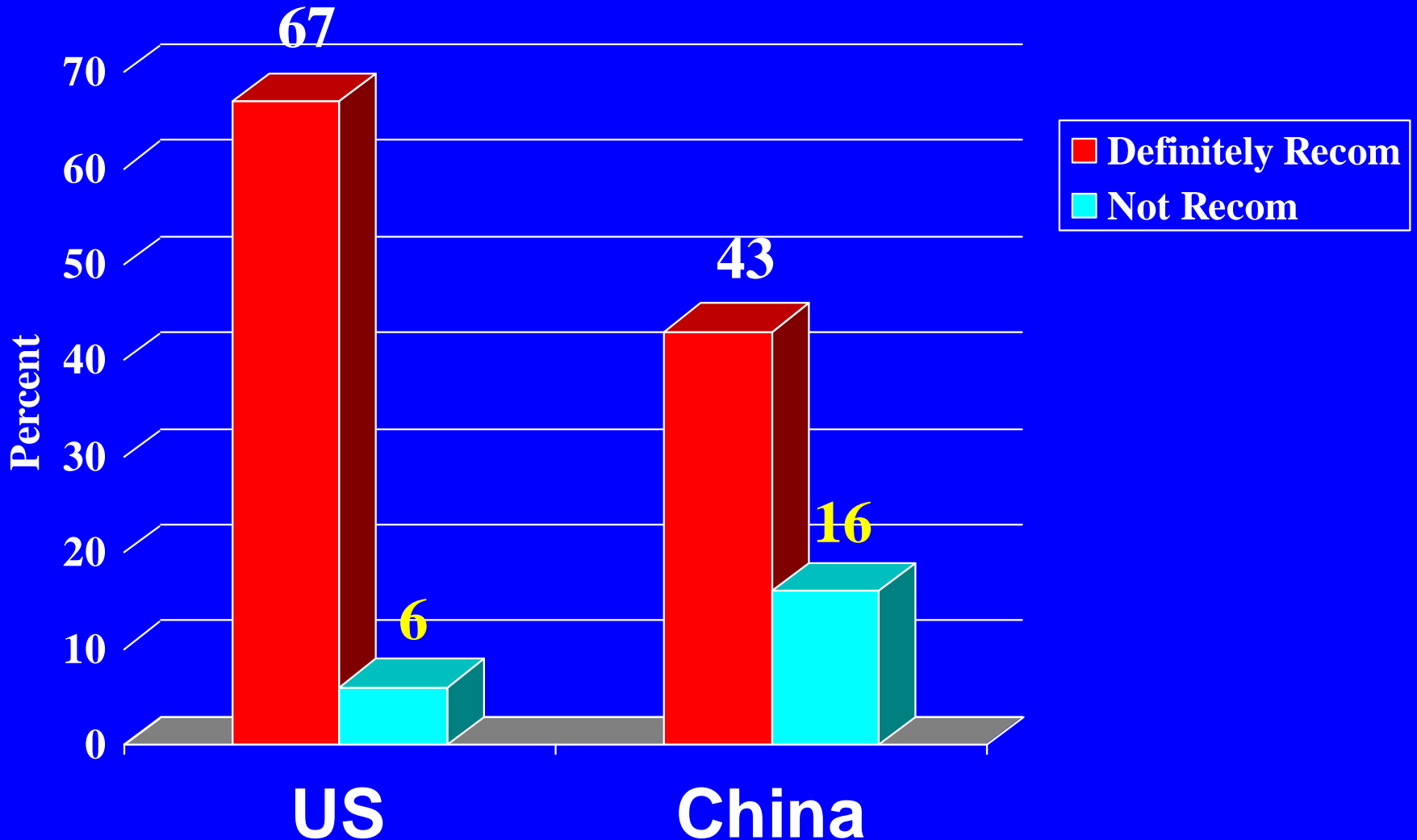
Nurse-rated Unit Quality of Care: Fair/Poor



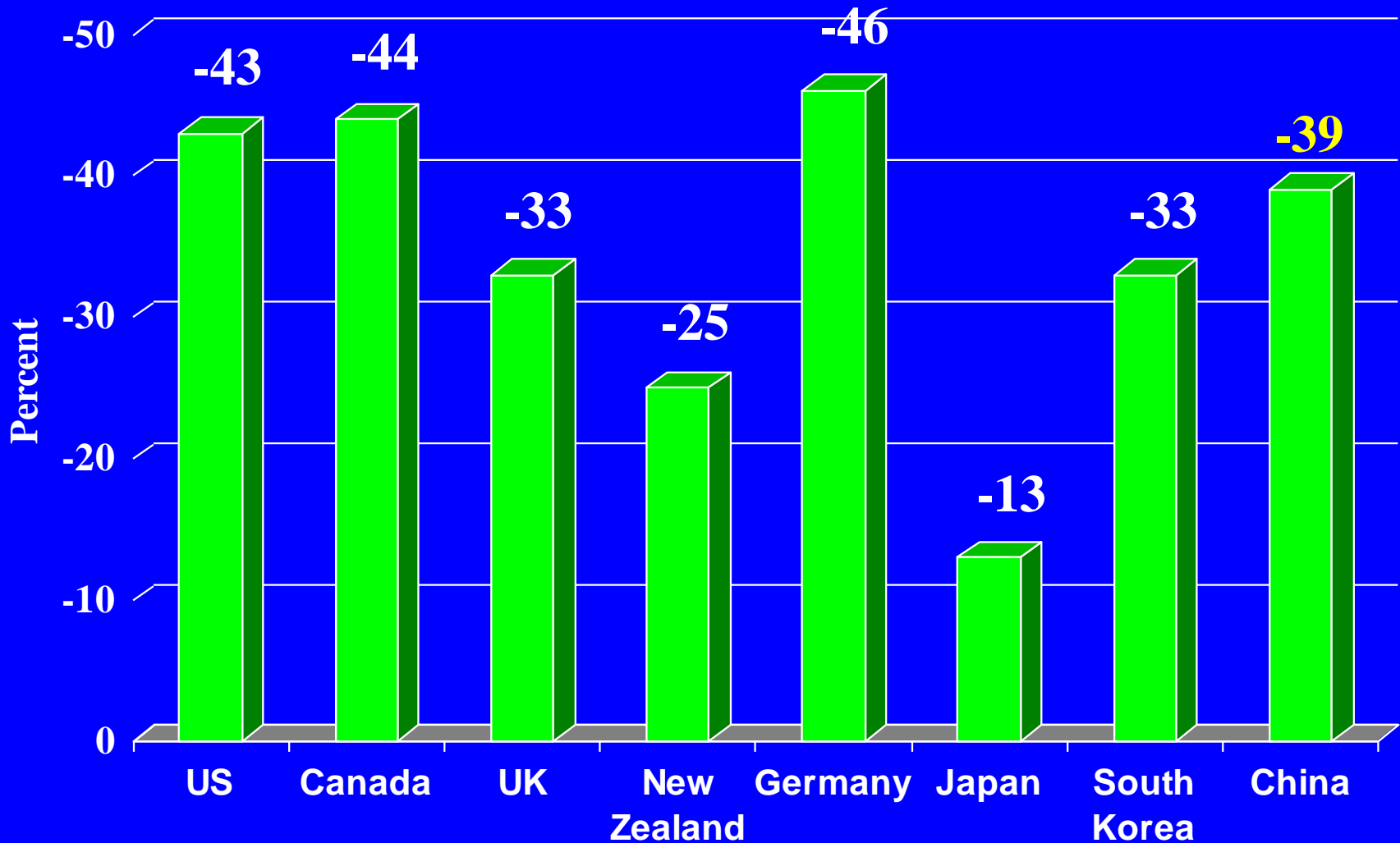
Nurses Not Confident That Patients Are Ready for Discharge



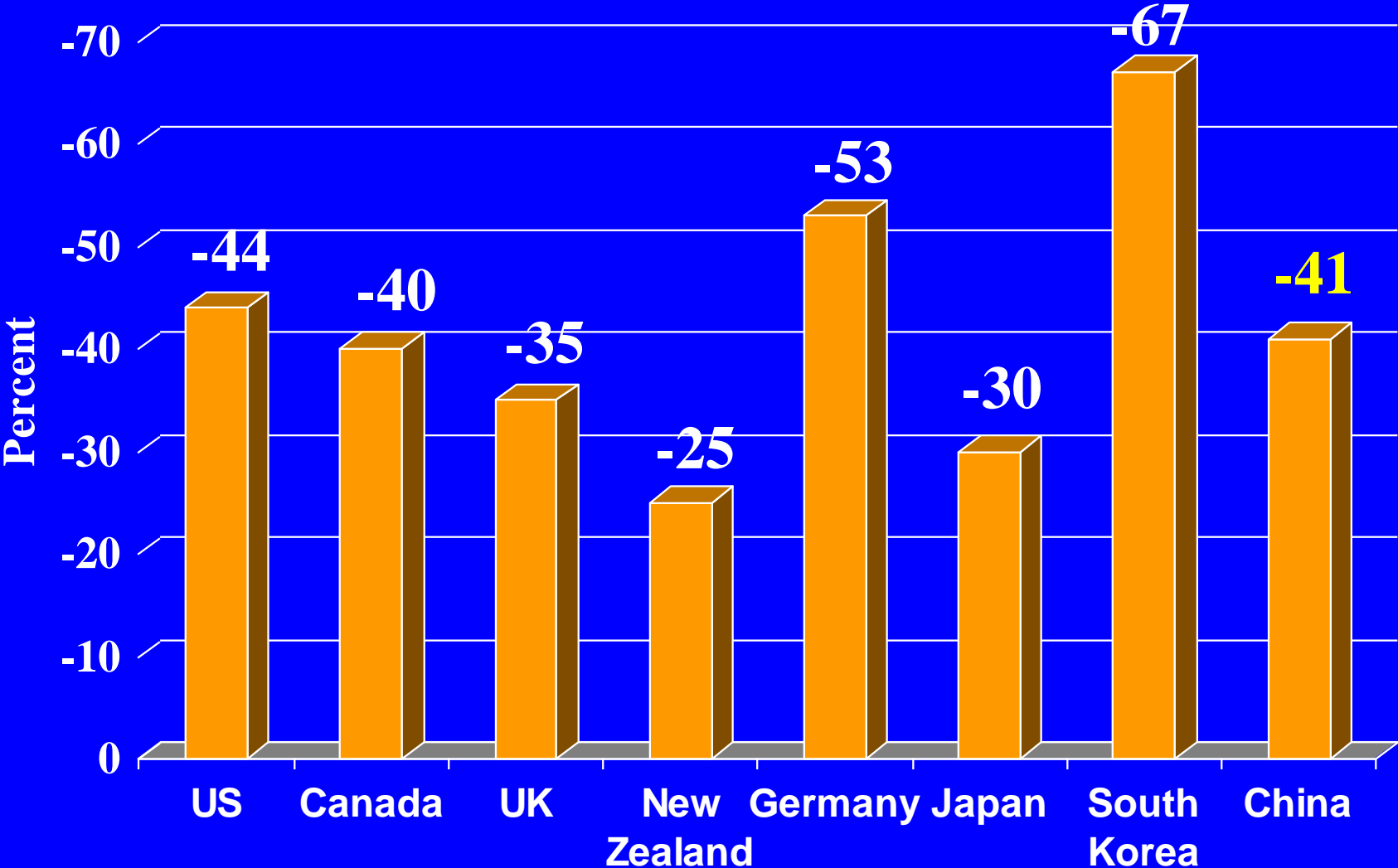
Patient Satisfaction



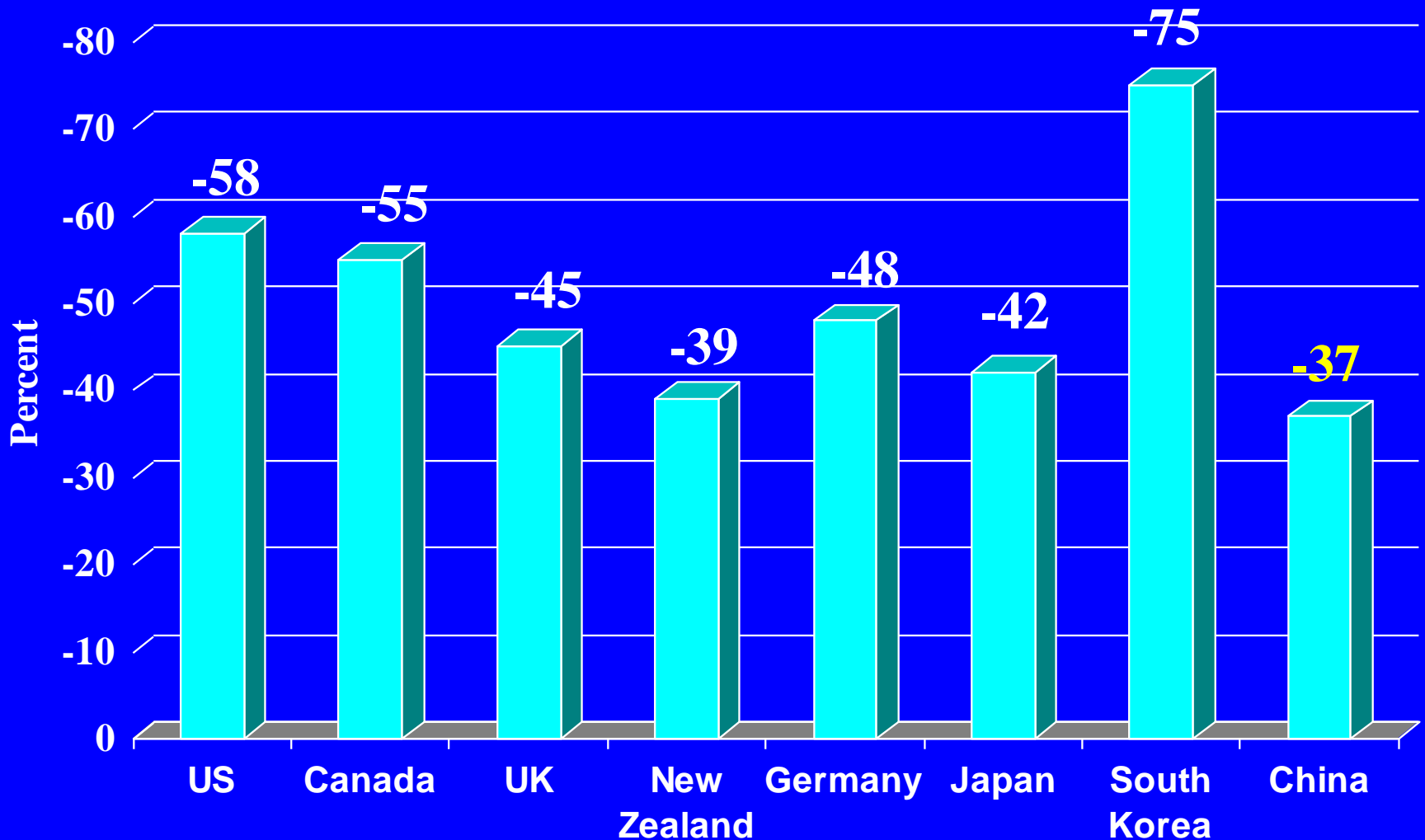
Decreases in Nurse Burnout in Better vs. Poor Hospital Working Environment



Decreases in Low Job Satisfaction in Better vs. Poor Hospital Working Environment



Decreases in Low Unit Quality in Better vs. Poor Hospital Working Environment



Nursing is a Global Community

- Challenges nurses face are very similar across countries despite differences in resources and national system design.
- Growing evidence that the solutions to nursing shortages and poor quality of care are also common across countries.
- The common solution: Improving nurses' work environments including improving nurse staffing