



in the chart, talking on the phone and answering pages, performing laboratory tests, sleeping, eating, being in transit, and reviewing old records. A Duke University⁶ time-and-motion study, using random beepers to signal house officers to record their activity, found a similar amount of touching or talking time with patients.

In a study on the difference between on-call and off-call activities, Wood and colleagues⁷ found that residents perceived the evaluation of acutely ill patients during night call as being the most educational.

This latter finding leads us to ask, "What have the '405 regulations' done to the quality of education, by limiting work hours of house officers?" If the most enlightening thing residents do is to work up patients at night, are interns who have limited night call learning anything? Norcini and colleagues⁸ found that the knowledge level of U.S. medical graduates is getting worse and that of foreign medical graduates is getting better.

To assess the impact of the "405 regulations," Conigliaro⁹ polled house staff and attending staff on problems with the night float system imposed by these regulations. Two thirds of house officers said there were generally more benefits, but one third said the regulations induced a "shift mentality"—the notion that when the "shift" was over, the resident's obligation or responsibility for the patients was also over, regardless of the patients' needs—and continuity of care has decreased. Attending staff said they saw no benefit.

■ WHAT SHOULD BE DONE?

Intense patient care requires intense training. The 80-hour work week should be eliminated. Residents should again "reside" in the hospital for months at a time. For example, the internship should comprise 3-month blocks of alternating inpatient and outpatient rotations. Inpatient months would require total commitment by the house officer. Residents destined for outpatient practice would spend the remaining 2 years in the outpatient department. Those wishing to be hospitalists or subspecialists would complete 2 more years with 3-month inpatient blocks alternating with

research and consultative medicine. We also need to develop a national strategy to reduce the costs of medical school, or a program of repayment (ie, national service).

■ REFERENCES

1. Weinberger LM. "Smoke" and vitamins—notes on an internship 55 years ago. *Pharos* 1989 (Winter):21–23.
2. Asch DA, Parker RM. The Libby Zion case—one step forward or two steps backward? *N Engl J Med* 1988; 318:771–775.
3. Petersdorf RG. Financing medical education. *Acad Med* 1991; 66:61–65.
4. Petersdorf RG. Financing medical education—a universal "Berry Plan" for medical students. *N Engl J Med* 1993; 328:651–654.
5. Lurie N, Rank B, Parenti C, et al. How do house officers spend their nights? *N Engl J Med* 1989; 332:1673–1677.
6. Oddone E, Guarisco S, Simel D. Comparison of house staff's estimates of their workday activities with results of a random work-sampling study. *Acad Med* 1993; 68:859–861.
7. Wood VC, Markert RJ, McGlynn TJ. Internal medicine residents' perceptions of the balance between service and education in their night-call activities. *Acad Med* 1993; 68:640–642.
8. Norcini JJ, Shea JA, Benson JA. Changes in the medical knowledge of candidates for certification. *Ann Int Med* 1991; 114:33–35.
9. Conigliaro J, Frishman WH, Lazar EJ, et al. Internal medicine house staff and attending physician perceptions of the impact of the New York State section 405 regulations on working conditions and supervision of residents in two training programs. *J Gen Int Med* 1993; 8:502–507.

CORRECTION

An error appeared in the article by Dr. Franck G. Skobieranda, "A 30-year-old woman with headache" (*Cleveland Clinic Journal of Medicine* 1997; 64:293–297). In TABLE 3 on page 296, the term "monoamine oxidase inhibitors" was incorrectly indented. This part of the table should have been as follows:

Antidepressants

Nonsedating
 With less anticholinergic effects
 Fluoxetine
 Sertraline
 Paroxetine
 Venlafaxine
 Monoamine oxidase inhibitors
 Nefazodone
 Buspirone
 Bupropion