# Support Services for Family Practice Residents

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*Background*. Internship and residency are stressful experiences for physicians in training. Residency programs vary in their provision of supportive services for residents.

Methods. A random sample of 50% of the nation's family practice residency programs was surveyed to determine the prevalence of 19 support services, 10 of which were assessed a decade previously. Programs were also asked about on-call frequency, vacation benefits, and program size.

*Results.* Approximately 91% of the programs responded. The surveys indicated that residents were on call an aver-

Internship and residency are intense periods of professional socialization during which attitudes, values, and behavior patterns are established that may extend beyond training. Residents work long hours, are overloaded with information, and often struggle with uncertainty and issues of responsibility and control. Frequently, physicians begin their residency training in a new community, with few friends and little family support. Most residents perceive their training experience as stressful.<sup>1–36</sup> Residency-sponsored support services attempt to counter the stress of training and assist in the development of productive behavior patterns.<sup>37–41</sup>

A comprehensive survey of support services for residents was performed during the 1979–80 academic year and published by Berg and Garrard in 1980.<sup>42</sup> Subsequent to that publication, the subject of residency stress gained notoriety through the death of Libby Zion in a New York hospital in 1984.<sup>43–48</sup> In response, by the end of the 1980s, 16 specialty residency review committees of the Accreditation Council on Graduate Medical Education had incorporated language in their requirements for house staff working hours and conditions.<sup>49</sup> The Special

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age of once every four nights, a 10% decrease from a decade ago. The prevalence of three support services had increased over the last decade: seminars and speakers on the stresses and conflicts of being a physician, support groups for residents, and child care services. "Night-float" rotations and part-time residencies are the least offered support services of those studied.

*Conclusions*. Support for family practice residents is increasing, yet in many cases remains inadequate.

Key words. Family practice; internship and residency; stress; professional-family relations. J Fam Pract 1992; 34:78-85.

Requirements for Residency Training in Family Practice, effective July 1989, recommend:

1. Permitting residents to spend, on average, at least 1 day out of 7 away from the residency program;

2. Assigning on-call duty no more frequently than every 3rd night on the average;

3. Ensuring adequate backup if sudden and unexpected patient care needs create resident fatigue sufficient to jeopardize patient care during or following on-call periods.

In light of these developments, this study was undertaken to assess which support services are currently in place in family practice residency programs, and what changes in support services have occurred since 1980.

## Methods

To determine the prevalence of support systems for residents, the authors surveyed a random sample of 50% of the nation's family practice residency programs as listed in the 1988 Directory of Family Practice Residency Programs. After carrying out a pilot survey at local residencies, the survey was sent to 196 family practice programs. The survey consisted of questions addressing the prevalence of 19 specific support services (Appendix).

In addition, the questionnaire specifically asked for

information on the number of first-year residents, the length of paid vacation, the average frequency of night call, the total number of residents in the program, and the type of residency program (community-based unaffiliated, community-based university-affiliated, community-based university-administered, university-based, or military). Finally, an open-ended question was added to allow respondents to identify other support services provided.

Programs that did not respond to the first mailing were sent a second and then a third questionnaire over a 3-month period in the first half of the 1988–89 academic year.

Response rates by program type were 88.9% for community-based unaffiliated; 93.4% for communitybased university-affiliated; 83.3% for community-based university-administered; 89.3% for university-based; and 100% for military. The overall response rate was 91.8%. Examining the list of nonrespondents revealed no differences in program size or geographic region when compared with the respondents.

#### Statistical Methods

Responses were analyzed to compare types of programs with regard to the availability of support services in 1988-89 and, where applicable, between the present survey and the one conducted by Berg and Garrard.42 Comparisons were carried out using Kruskal-Wallis and Mann-Whitney paired-group tests, depending on whether responses were ordinal- or interval-scaled. Comparisons between ours and the survey by Berg and Garrard were difficult because only summary data were available for the earlier study. While it is quite likely that overlap exists between programs surveyed in both samples, it is not known which programs were part of both. For our purposes, the samples were assumed to be independent, and comparisons were made using chi-square tests. If the results of both surveys were positively correlated, then these inferences were more conservative than their nominal significance would indicate.

## Results

The average number of first-year residents per program ranged from 5.3 in the community-based, universityadministered programs to 8.6 in the military programs. Community-based, unaffiliated programs averaged 5.5 residents; community-based, university-affiliated programs averaged 6.5; and university-based programs averaged 8.0 first-year residents.

More programs reported that their residents were on call every 4th night than any other frequency. Residents in community-based, university-affiliated and university-administered programs were on call an average of every 4.1 nights; those in community-based unaffiliated programs, an average of every 4.0 nights; those in university-based, an average of 3.8 nights; and those in military programs, an average of every 3.6 nights. The length of paid vacation for first-year residents averaged 3.2 weeks in university-based programs, 2.5 weeks in community-based and university-affiliated and unaffiliated programs, and 2.4 weeks in community-based, university-administered programs. All military programs offered first-year residents 2 weeks of vacation.

While more than 88% of all types of family practice programs offered residency-sponsored social activities, only approximately half offered residency retreats (Table 1). Of note, from 12% to 31% of programs did not offer an orientation week or month. Nearly all programs identified formal gripe sessions (92% to 100%), and resident participation in decision making (88% to 97%).

In all program types, seminars or speakers dealing with emotionally charged medical issues were more prevalent than seminars or speakers dealing with the stresses and conflicts of being a physician. Balint-type seminars, defined generically as "ongoing problem patient seminars focused on the doctor-patient relationship," were less prevalent than either of the other types of seminars, but were offered in 38% to 56% of program types (average 44%).

In all program types, ongoing support groups were offered more often for residents than for residents and spouses together or for spouses alone. Of the 25 university-based programs responding, none identified a support group for spouses alone. Unaffiliated, community-based programs offered significantly more support groups for residents and spouses together than any other program type (P < .025).

Few programs offered a "night-float" system; military and university-based programs were most likely to have such a system (13% and 12%). Fewer than one program in five offered residents postcall time off; however, "mental health" days were the most likely of those mechanisms surveyed to afford residents time off (20% to 31%).

Twenty percent of community-based, university-administered residencies offered a part-time residency. Military programs offered no such alternative schedule. From 6% to 12% of the other three program types offered part-time residency. Child care services were offered in 4% to 25% of program types.

## Discussion

Our results enabled us to compare program types, as well as to compare over time with Berg and Garrard's re-

### Support Services for Residents

# Table 1. Psychosocial Support Services by Residency Program Type, 1988-89 (%)

Support Service	Community- Based Unaffiliated (n = 16)	Community- Based University Affiliated (n = 99)	Community- Based University Administered (n = 25)	University- Based (n = 25)	Military  (n = 15)	Total
Social activities sponsored by residency	94	95	92	88	100	94
Retreat for all residents	50	49	60	40	60	51
Orientation week or month	69	87	88	88	87	86
Formal gripe sessions	100	94	92	92	100	94
Resident participation in program and institutional decision making	94	97	88	96	93	95
Seminars or speakers on emotionally charged medical issues	100	91	88	100	93	93
Seminars or speakers on stresses and conflicts of being a physician	88	87	76	84	87	85
Balint-type seminars	38	41	56	44	53	44
Support groups for residents	75	73	56	68	93	72
Support groups for residents and spouses	63*	31	20	12	13	28
Support groups for spouses	44	32	20	0†	27	27
Night float	0	3	4	12	13	5
Postcall time off	13	18	8	12	13	15
Mental health days (off duty)	31	26	20	24	27	26
Part-time residency	6	12	20	8	0	11
Child care services	19	25	4	20	20	21
Professional counselors in the program	81	75	56	76	93	86
Counseling benefits as part of health coverage	81	57	52	56	80	60
Financial advisors on staff	56	46	40	32	27	43

\*Significantly higher than all other program types (P < .025).

+Significantly lower than all other program types (P < .05).

sults.<sup>42</sup> On-call frequency decreased while vacation time increased slightly over the decade. During the 1979–80 academic year, on-call frequency for first-year family practice residents averaged once every 3.64 nights. During the 1988–89 academic year, on-call frequency averaged once every 4.01 nights, a 10% decrease. The aver-

age length of paid vacation for first-year family practice residents increased 8.3%, from 2.4 to 2.6 weeks per year.

Statistically significant changes over the decade were noted in 6 of the 10 support services queried in both surveys (Table 2). University-affiliated, communitybased programs significantly increased their offering of

Support Service (n)	Community- Based Unaffiliated		Community- Based University- Affiliated		Community- Based University- Administered		University- Based		Military		Total	
	1979 (49)	1988	1979	1988	1979	1988	1979	1988	1979	1988	1979	1988
Social activities sponsored by residency	92	94	88	95	88	92	96	88	(16)	(15)	(347) 90	(180) 94
Formal gripe sessions	92	100	88	94	75	92	77	92	100	100	85	94
Seminars or speakers on emotionally charged medical issues	92	100	91	91	90	88	95	100	94	93	92	93
Seminars or speakers on stresses and conflicts of being a physician	74	88	69	87*	67	76	77	84	94	87	72	85†
Support groups for residents	55	75	60	73‡	56	56	68	68	69	93	61	72†
Support groups for residents and spouses	20	63*	19	31‡	13	20	35	12	31	13	22	28
Part-time residency	20	6	12	12	15	20	30	8‡	0	0	16	11
Child care services	4	19	7	25§	6	4	7	20	25	20	7	21\$
Professional counselors in the program	88	81	82	75	79	56‡	88	76	81	93	83	86
Financial advisors on staff	47	56	51	46	48	40	46	32	25	27	48	43

Table 2. Residency	Programs	Providing	Psychosocial	Support	1070 00	Commend	1.1. 1000	00 10	12
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Note: Percentages given were not significant at P < .05 unless otherwise indicated. \*P < .002; †P < .01; ‡P < .05; \$P < .001.

seminars or speakers on the stresses and conflicts of being a physician, from 69% to 87% (P < .002). Overall, the prevalence of such seminars in all program types increased from 72% to 85% (P < .01). The lack of a significant change in any type of program offering seminars or speakers on emotionally charged medical issues reflects the high prevalence of these seminars over the decade.

Support groups have been identified as one of the most effective mechanisms to support residents in coping with the stresses of residency training.<sup>50–59</sup> Not surprisingly, support groups for residents are one of the more prevalent support services offered by family practice programs. Only university-affiliated, community-based programs increased their offering of support groups for residents (from 60% to 73%, P < .05) sufficiently to reach statistical significance. Overall, the prevalence of support groups for residents in all program types increased from 61% to 72% (P < .01).

While residency training can also be stressful for

spouses or significant others,<sup>60–62</sup> programs are much less likely to organize and offer support groups for spouses. Two program types significantly increased their offering of support groups for residents and spouses: communitybased, unaffiliated programs, from 20% to 63% (P <.002), and community-based, university-affiliated programs, from 19% to 31% (P < .05). We believe this demonstrates an increased recognition of the importance of balancing residency training and family life.

The significant decrease in the offering of part-time residencies by university-based programs is consistent with decreases in other specialty training programs.<sup>63</sup> The administrative and scheduling problems of shared positions may be the most important deterrent to residency directors. Part-time residencies may be more attractive to women residents, especially those with children. The percentage of women residents in family practice is steadily increasing.<sup>64,65</sup> Whether more pressure to reverse the trend away from part-time residencies will be felt in the future remains to be seen. Creative

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alternatives may become more prevalent, such as spreading 1 year's residency requirements over 2 calendar years, or alternating months of traditional inpatient rotations that include being on call with months in the family practice center without being on call.

Residents in community-based, university-affiliated programs have increased access to child care services (P < .001). The overall trend, however, of increasing child care services (7% to 21%, P < .001) is consistent with similar social trends in other sectors of the work force as more families have both parents working.

An explanation for why Balint-type seminars<sup>66–70</sup> in our survey appear more prevalent than in other reports<sup>71</sup> may be found in our broad definition of these seminars as "problem-patient seminars focused on the doctor-patient relationship." Nonetheless, even with this broad definition, the prevalence of such seminars is lower than the seminars or speakers either on emotionally charged medical issues or on the stresses and conflicts of being a physician (Table 1). The authors speculate that it may be easier to arrange episodic speakers for a curricular element (emotionally charged medical issues, stresses and conflicts) than to maintain ongoing seminars (Balinttype), given the conflicting and somewhat unpredictable demands on residents' time.

The low prevalence of night-float systems<sup>72</sup> in family practice (0% to 13%) occurs in contrast to obstetrics/ gynecology, pediatrics, and internal medicine programs, in which night-float systems exist in 21%, 24%, and 27% of programs, respectively.63 The highest prevalence among family practice program types occurs in military (13%) and university-based (12%) programs. This may reflect utilization of other specialty departments in the teaching hospital that have night-float rotations. Community hospital-based programs, especially those in which family practice is the only training program in the institution, may not perceive sufficient manpower to implement a night-float rotation. Family practice residents regardless of program type may be unwilling to relinquish the continuity of care that is often necessitated by a night-float system. Anecdotal feedback regarding night-float systems leads us to believe that the stressreducing value may be great, while continuity of care may be minimally disrupted, or even enhanced by the presence of consistent physicians day and night.

The authors were frankly surprised at how few programs of all types offered postcall time off (8% to 18%). In contrast, mental health days were offered by 20% to 31% of programs. We speculate that perhaps some respondents who do not officially offer postcall time off do allow residents mental health days or half days that may not be directly linked to the call schedule.

Conclusions drawn from this study may be limited

by its design. While care was taken to define each question, the possibility exists that the respondent meant something different from the intended meaning of the question posed. In addition, differences in degree of response may be significant, though these were not elucidated. For example, both support groups held weekly throughout 3 years of residency, and those available monthly for only the first half of the first year may yield a positive response in the survey, but differ substantially in effect.

Who responds may also affect responses. While 90% of respondents were program directors, a few department chairs, administrative staff members, and chief residents filled out questionnaires. A review of responses to a similar survey<sup>73,74</sup> reveals that program directors may identify more support services than residents, either because they are more familiar with the scope of services offered or because they overestimate the availability of such services.

The authors chose questions that they believed were relevant based on a review of the literature and personal experience. Additionally, some respondents identified resident advisors, the availability of short-term loans, and the level of financial compensation as important in reducing resident stress.

# Conclusions

Many support services are found in nearly all family practice residency programs, regardless of program type, including residency-sponsored social activities, seminars or speakers on emotionally charged medical issues, formal gripe sessions, and resident participation in decision making. Moreover, while the latter was not previously studied, the first three have consistently been highly prevalent over a decade. Community-based, unaffiliated programs are more likely (P < .05) to offer support groups for residents and spouses than other program types. University-based programs are less likely (P < .05) to offer support groups for spouses alone than other program types.

Among the ten support services studied both in the 1979–80 and the 1988–89 academic years, family practice programs overall and community-based, university-affiliated programs in particular significantly (P < .001 to .05) increased their offering of three services: (1) seminars or speakers on the stresses and conflicts of being a physician, (2) support groups for residents, and (3) child care services. Two program types significantly (P < .002 to .05) increased their offering of support groups for residents and spouses.

There has been increased attention paid to resident

working hours and conditions, and to the potential negative consequences to both patients and physicians. Although all program types have made some progress in supporting residents, family practice residency education can improve. Programs may choose to implement support services based on the experiences of others, or may be required to implement changes by accreditation regulation or state law. Our hope is that this study will facilitate the implementation of support services for residents and the humanization of family practice residency training.

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