# Survey of Incidence of and Physicians' Attitudes Toward SEXUAL ASSAULT

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A survey of private physicians was undertaken to gather data for a comprehensive rape-reduction project, funded by a State and county. The project includes a legal component, which is to draft and introduce model rape legislation, an advocacy agency for rape victims, and a program at the emergency room of the Harborview Medical Center (HMC), Seattle, Wash., which is seeking to systematize a medical and psychological protocol for the treatment of victims of sexual assault.

The intent of the physician survey was, first, to obtain data regarding the type and number of victims of sexual assault who had been seen by physicians in private practice during a specified period (1973), and second, to assess the physicians' attitudes toward a range of issues related to the treatment of sexual assault and toward the involvement of police in these cases. The survey of the physicians was a pilot investigation that focused broadly on many issues. Analysis of the physicians' responses suggests certain areas in which greater depth and delineation will be required in future research. The need to assess incidence rates for treatment of rape by private practitioners has been expressed by many workers in this field and was of particular concern to the staff of the rape reduction project in the light of their commitment to community education and involvement in medical education. Dr. Charles R. Hayman, medical director of the Job Corps, Manpower Administration, Department of Labor, has been the author or co-author of a number of articles on rape, including one published in an earlier issue of this journal (1). He has expressed the opinion, in correspondence with Stern, that a large portion of sexual assaults on middle-class white women are not reported because the medical services of private physicians are available to this group of victims. We have no data to support or contradict this view.

Many workers believe that the incidence of forcible rape reported to the police, although comprising a significant public health problem in itself, reveals only a small portion of rape occurrences. A survey conducted in the Chicago area, for example, showed that only about one of every four victims of assault was reported to the police (2). During the study year 1973, approximately 250 to 300 women from the Seattle area were treated for sexual assault at the HMC emergency room. A previously conducted survey of hospital emergency rooms in the Seattle area showed that in 1972 about 120 rape victims were seen in emergency rooms other than the one at HMC. We believed that a canvass of private physicians would make these figures on rape victims in the Seattle area more comprehensive and therefore undertook the study reported here.

### Methodology

The survey instrument for the study was written by the interdisciplinary sexual assault team at the Harborview Medical Center. The questionnaires were mailed in March 1974 to 1,010 physicians, whose names and specialties had been obtained from the 1973 King County medical roster. A followup mailing of approximately 600 questionnaires was also sent to those physicians who failed to return the first ones by April 1.

The information section, or second part of the survey instrument, was administered to 258 college undergraduates in an upper-level course in abnormal psychology, as well as to the private physicians, in order to contrast the knowledge level and attitudes of non-medical persons with those of physicians. Attitudes were inferred by examining the direction of bias on certain items. For example, the correct completion of the statement that "The emotional trauma associated with sexual assault compares with that of general physical assault in the following manner" would be: "This is unknown." However, the fact that only 20 percent of the responding physicians completed the statement correctly is less significant than the fact that 68 percent felt that the "trauma in sexual assault is

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greater," and that only 7 percent felt that "there was less trauma in sexual assault." This result seems to reflect a willingness by the majority of the responding physicians to acknowledge the emotional and psychological factors associated with sexual assault.

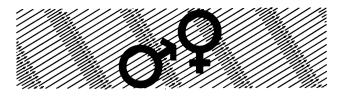
A variety of questions in our survey were designed to elicit physicians' attitudes toward sexual assault and its victims. For example, the private physicians sampled were asked whether they considered rape victims culpable, whether they encouraged them to report assaults to the police, and how they felt about the need for providing psychiatric assistance or referral for victims. We interpreted the information section of the questionnaire from the standpoint of the attitudes the physicians revealed. Such an assessment of attitudes is critical, because the general cultural taboos and strong emotional impact associated with rape cause its victims to be exposed to serious emotional stresses and tensions (3).

In most places, "little attention is paid to the emotional trauma, which is often aggravated by the [physician's] examination" (4). This emotional trauma is said to occur because "the unhealthly air surrounding such a distasteful situation" is shared by the physician (5). The literature reveals no serious study of physicians' attitudes. Yet better knowledge of these should help in the assessment of present problems, the provision of more sensitive care for rape victims, and the intelligent modification of the medical school curriculum.

The results of the physician survey were tabulated for all data received by April 15, 1974. The relatively small number of anonymous returns were tabulated separately to avoid any possible contamination of the rest of the data. We reasoned that the responses of physicians not signing the questionnaires might differ in uncontrollable and unpredictable ways from the responses of physicians signing their names and that the two sets of questionnaires did not constitute a homogeneous sample.

Because physicians with certain specialties were most likely to see the victims of sexual assault, those physicians were selected for study. The following table shows the number of questionnaires sent to the physicians and the number and percentage returned, according to the physician's specialty.

Specialty	Number sent	Number returned	Percent returned
General and family practice	390	191	49
Obstetrics and gynecology	120	46	38
Pediatrics	109	52	48
Psychiatry	142	69	49
General surgery	64	21	33
Internal medicine	165	66	40
Other	20	10	50
Unusable returns		46	5
Anonymous returns		22	4
Total	1,010	523	52



The 523 physicians who returned their questionnaires represented slightly more than half of the total population to whom they were sent. We believe that a 50 percent response in this type of survey affords a sufficiently large sample to warrant attention to the results.

Most specialties individually averaged a 50 percent return rate with the exception of obstetrics-gynecology. internal medicine, and general surgery, which when combined averaged 37 percent. The low response rate from specialists in obstetrics-gynecology is of some interest, inasmuch as physicians in this specialty are the primary ones assigned to treat rape victims in hospital emergency rooms. However, interpretation of this result is difficult. It may be due simply to a sampling error. That is, it may be that a replication of the survey would result in entirely different response rates for the various specialties. Also, the failure of the obstetrics-gynecology group to return the questionnaire may have been a defensive reaction. This specialty has been singled out for criticism by the women's health care movement, and the questionnaire was clearly identified as originating with the rape reduction project. Physicians may have chosen not to respond rather than to make themselves further vulnerable to a presumed attack.

#### Results

Since not all respondents answered every question in the survey, the number of responses per question varies. All percentages in this report were calculated by comparing the responses of a particular group with the total number of responses per question. Percentages have been rounded to the nearest whole number.

Section I of the questionnaire. Nine questions from the first part of the survey are included in this paper, along with a tabulated summary of the specialists' responses to them. The first question and the summary of the answers to it were as follows:

1. How many females alleged to have been raped during 1973 have you seen in your practice?

Response		Percent of all respondents	Number of victims
No victims seen	. 309	67	0
Victims seen		33	369
Total	458	100	369

Following is the distribution of the 149 victims of sexual assault according to the specialty of the physicians who saw them:

	Respo	ndents	Victims		
Specialty	Number	Percent	Number	Percent	
General and family practice	83	56	191	52	
Obstetrics-gynecology		16	46	12	
Psychiatry	18	12	40	11	
Pediatrics	6	4	14	4	
Surgery	4	3	14	4	
Internal medicine	7	5	16	4	
Other	7	5	48	13	
Total	149	101	369	100	

Specialists in general practice and family medicine saw the greatest percentage of rape victims—52 percent. Since the victims were not evenly distributed among the 149 physicians and relatively few physicians saw the majority of the victims, it would appear that outreach to the private sector would be most effective by concentrating on those physicians seeing most of the rape victims.

The other questions in section I and the summary of the responses to them appear in table 1.

Section II of the questionnaire. The responses of the physicians and of the 110 male and 148 female students to the information section of the questionnaire are summarized in table 2. Again the pattern and the direction of the responses and the relative differences between those of the students and those of the physicians are of interest, rather than the absolute performance of any respondent on a scale of 10. If a difference greater than 5 percent existed between the percentage of the physicians giving the correct response (that is, the one that best reflects current understanding about sexual assault) and the percentage of all students giving the correct response, then a difference was said to exist for that question. If a difference of 5 percent or less existed between the two groups' responses and the

Table 1. Summary of responses to questions in section I of survey

Not report to the police   101   27   57   18   19   19   369   389	Survey questions and responses 1		Percent of respondents	
Not report to the police	2. In how many of the sexual assault cases did your patient—			
No information	Report to the police	211	57	
Total   369   290   29	Not report to the police	101	27	
3. Would you support mandatory reporting by physicians of suspected cases of rape?   7	No information	57	15	
(res, for all patients       199       46         (res, for patients under 18       33       8         (res, other       38       5         (res, other       159       37         (res, other       159       37         (res)       159       37         (res)       159       37         (res)       291       76         (res)       259       75         (res)       259       75         (res)       259       75         (res)       259       75         (res)       2346       100         (res)       250	Total	369	²99	
Yes, for patients under 18	Would you support mandatory reporting by physicians of suspected cases of rape?			
Access for patients under 18	/es. for all patients	199	46	
Access of the response   Access of alleged rape? (You may indicate more than one.)   Access of alleged rape? (You may indicate more than one.)   Access of the time   Access of the possibility of being equired to testify in legal proceedings?   Access of the possibility of the time   Access of the time   Access of the possibility of the time   Access o		33	8	
Total   429   100		38	9	
i. Do you feel that there is a need for a routine social service agency (public assistance, public health, etc.) for intervention to help provide adequate treatment for post-traumatic problems (such as pregnancy, VD, emotional disturbance)?  Yes		159	37	
bublic health, etc.) for intervention to help provide adequate treatment for post-traumatic problems (such as pregnancy, VD, emotional disturbance)?  (28		429	100	
Total	public health, etc.) for intervention to help provide adequate treatment for post-traumatic			
Total	/es		<b>7</b> 5	
i. Which of the following do you feel characterize police contacts you have observed in cases of alleged rape? (You may indicate more than one.)  Favorable response	10	119	29	
Cases of alleged rape? (You may indicate more than one.)   Cases of alleged rape? (You may indicate more than one.)   Cases of alleged rape? (You may indicate more than one.)   Cases of alleged rape? (You may indicate more than one.)   Cases of alleged rape?   Cases of the possibility of the page	Total	410	100	
Total				
Total	avorable response	259	75	
Total		87	25	
equired to testify in legal proceedings?  /irtually always	<u> </u>	²346	100	
Most of the time       25       7         About half of the time       12       3         Few times       37       10				
Most of the time       25       7         About half of the time       12       3         Few times       37       10	/irtually always	43	12	
About half of the time       12         Sew times       37         10       37		25	7	
ew times		12	3	
Tirtually never		37	10	
	/irtually never	243	68	
Total	Tatal	360	100	

Table 1. Summary of responses to questions in section I of survey-Continued

Survey questions and responses 1	Number of respondents	Percent of respondents
. Have you ever testified in a legal proceeding for rape?		
ever	371	85
nly once	42	10
to 5 times	18	4
ore than 5 times	3	1
Total	434	100
. Do you generally—		
ncourage or strongly encourage patients to report rape to police?	248	70
ot encourage or discourage patients from reporting rape to police?	27	8
Iscourage or strongly discourage patients from reporting rape to police?	1	
ary your advice considerably from case to case?	78	22
Total	³354	100
In your opinion, what percentage of rape victims increased their likelihood of being ttacked by behavior such as wearing revealing clothes or behaving in a suggestive manner?		
-2	59	41
<del>-4</del> 0	16	11
D-60	46	32
<b>⊢8</b> 0	17	12
P-100	6	4
Total	4144	100

<sup>&</sup>lt;sup>1</sup> Responses to question 1 are summarized on page 104.

Table 2. Summary of responses to questions in section II of survey

Survey questions and responses -	Physicians		Male Students		Female students		All students	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
1. Forcible rape rates during the past decade—1								
Increased somewhat	70	21	30	28	31	21	61	24
More than doubled (6 percent difference)	151	44	53	50	73	50	126	50
Tripled	83	24	29	18	30	21	49	20
Did not change	35	10	4	4	11	8	15	6
Total	339	²99	106	100	145	100	251	100
2. In the 1970s, rape increased greater than any other crime.								
True (9 percent difference)	208	66	54	51	85	61	139	57
False	105	34	52	49	54	39	106	43
Total	313	100	106	100	139	100	245	100
3. The proportion of rapes that occur in the victim's home is quite small.3								
True	53	15	13	13	38	26	51	20
False (5 percent difference)	291	85	91	88	108	74	199	80
Total	344	100	104	²101	146	100	250	100

<sup>&</sup>lt;sup>2</sup> Components do not add to 100 because of rounding.

<sup>&</sup>lt;sup>3</sup> Because only 149 of the physicians answering this question had seen sexual assault victims, the answers reflect in part what the physicians believed they would do rather than their actual experience.

<sup>4</sup> Only 144 of the 523 physicians returning questionnaires chose to respond to this "projective" rather than "objective" type of item. Therefore response attrition biases this sample, making interpretation of the responses difficult.

Table 2. Summary of responses to questions in section II of survey—Continued

Survey questions and responses —	Physicians		Male students		Female students		All students	
	Number	Percent	Number	Percent	Number	Percent	Number	Percen
4. The proportion of women raped to the number of women reporting rape is believed to be—3								
2:1	27	8	14	13	4	3	18	7
:1 (5 percent difference)	125	38	44	41	41	28	85	33
:1 `	80	24	27	25	48	33	75	30
0:1	95	29	22	20	54	37	76	30
	327	²99	107	²99	147	²101	254	100
. Victims of rape are usually—1								
/hite	100	30	32	30	38	27	70	28
lack	34	10	7	6	5	3	12	5
riental	<u>.</u>		• • • • • • •	· · · · · · · · ·		• • • • • • •	· • • • • • •	• • • • •
ndianodian (8 percent difference)	2 196	1 59	69	64	100	70	169	<del>.</del> . 67
Total	322	100	108	100	143	100	251	100
Assailants in rape cases are usually—1								
/hite	65	21	21	20	24	17	45	18
lack	<b>5</b> 5	19	9	8	14	10	23	9
dian				. <b></b>				• • • • • • • • • • • • •
o racial predilection (11 percent difference)	192	62	77	72	104	73	181	73
Total	312	²101	107	100	142	100	249	100
	012	101	107	100	172	100	240	100
. What percentage of rape victims suffer physical auma?1								
-25 (34 percent difference)	95	43	9	9	11	9	20	9
E−50	82	37	36	38	33	27	69	32
I–75	14	6	15	16	34	27	49	22
S–100	32	14	35	37	46	37	81	37
Total	223	100	95	100	124	100	219	100
The emotional trauma associated with sexual								
ssault compares with that of general physical								
ssault in the following manner—1								
rauma in sexual assault is greater	224	68	87	81	132	90	219	87
lo difference in trauma	14	4	3	3	3	2	6	2
ess trauma in sexual assault	24	7	1	1	0	0	1	0
his is unknown (9 percent difference)	67	20	16 	15 	11	8	27	11
Total	329	²99	107	100	146	100	253	100
. The period of time in which emotional trauma								
ssociated with sexual assault is most likely to								
ecome evident is the first 2 months following								
ne assault.3							4-4	70
rue (0 percent difference)	213	70	74 22	77 23	97 50	66 34	171 72	70 30
alse	93	30						
Total	306	100	96	100	147	100	243	100
0. Of the over 2,500 women reported raped in								
ew York City in 1972, the number of men		•						
onvicted and sentenced for rape was—3	_	_	_	•	40	-	40	•
pproximately 500	5 60	2	6 20	6 27	10 40	7 28	16 69	6 27
approximately 100	69 126	25 44	29 44	40	40 52	28 36	96	38
pproximately 50	126 81	44 29	30	40 28	52 41	30 29	96 71	28
·· -								
Total	281	100	109	²101	143	100	252	²99

Percentage of physicians giving correct response differed from percentage of all students giving correct response by more than 5.
 Components do not add to 100 because of rounding.

standing about sexual assault.

<sup>&</sup>lt;sup>3</sup> Percentage of physicians giving correct response differed from percentage of all students giving correct response by 5 or less.

NOTE: Boldface type denotes answer that best reflects current under-

correct answer, then no difference was said to exist for that question. Each question was classified on this basis.

#### Discussion

Contrary to the notion that women seen by private physicians constitute a vast hidden iceberg of unreported rapes, we found that 57 percent of the women treated had reported their sexual assault to the police (table 1). In 15 percent of the rape cases, it was not known to the physician whether or not the women had given reports to the police, and presumably a certain proportion of this 15 percent also chose to report their rapes to the police. Furthermore, the number of rape victims (369) seen by private practitioners was fewer than the number seen at all Seattle emergency rooms during the same period (470). If the Ennis ratio of four women who do not report rape to every one who does (2) is accurate, these data suggest that many women simply receive no treatment for their sexual assault. Workers in the field have speculated that women might seek care from private physicians rather than present themselves at emergency rooms, not because they had undergone insufficient trauma of an emergency nature, but rather because of the relative anonymity insured by a private consultation. Reporting of sexual assault to the police is not mandatory for the private physician, as it is at most emergency rooms. Further, when a rape victim goes to a private physician, there may be less danger of publicity, being recognized, or having family members (parents, husbands) notified regarding billing.

If the epidemiologic figures for the incidence of rape are to be accepted, then several factors may be proposed to account for the discrepancy between the number of women assaulted and the number requesting either emergency room or private care related to their assaults. One possible factor is that women may be seeking help under other pretexts, for example, presenting themselves to a venereal disease clinic for examination for possible venereal disease without mentioning that sexual assault has occurred. Another possible factor is that professionals may be underestimating the extent to which sexual assault is a problem for poor women who are unable to afford the care of private physicians, but yet are too embarrassed or intimidated to go to a hospital emergency room in the absence of physical trauma. Finally, also, many women find it difficult to be candid with their physicians concerning sexual matters, and the same fears that prevent these women from going to an emergency room may function to a greater extent than workers have anticipated when these women see a private physician. Indeed, the private physician may not seem a safe haven to the raped woman at all because, for example, of the possible conflict in loyalties the physician may face in deciding whether to inform the patient's parents or spouse. Epidemiologic studies of different populations of women, to determine their attitudes and preferences, would seem to be the next research strategy.

A general willingness to cooperate with law enforcement agencies characterized the physicians' responses to many items on our questionnaire. Nevertheless, 37 percent (table 1) would not support mandatory reporting of rape. Seventy-five percent indicated that their impressions of police contacts in cases of sexual assault were favorable. Seventy percent stated either that they "strongly encouraged" or "encouraged" patients to report rape to the police. Sixty-eight percent denied being reluctant to testify in cases of rape. Physicians' fears of being called to testify appear to be exaggerated, as only 5 percent of those in our study reported testifying more than once in a case of rape.

Approximately 60 percent of the physicians correctly answered each item in the information section. No striking differences were noted between the physicians' responses and the responses of the students taken together or between the responses of male students and physicians. Of the 10 questions presented, differences greater than 5 percent were found for 6 and differences of less than 5 percent for 4 (table 2). Of the 6 questions in which there were differences, the differences were not great-6, 9, 8, 11, 34, and 9 percent. The question in section II for which the differences were most marked was No. 7 (34 percent difference); this differences may have stemmed in part from a wording that failed to distinguish between physical trauma (cuts, bruises) and forceful penetration. The difference probably also can be attributed to a popular conception of rape as a far more violent crime than it frequently is; 37 percent of the students believed that physical trauma occurred in 76 to 100 percent of the cases.

The responses of the female students departed from those of the male students and the physicians in the direction of overestimating the frequency of rape. Thirty-seven percent of the female students believed that the proportion of women raped to the number reporting rape was 10 to 1, whereas only 20 percent of the male students and 29 percent of the physicians made that estimate. Furthermore, women tended to agree more frequently than the male students or physicians that "trauma in sexual assault is greater than trauma associated with general physical assault" (female students 90 percent agreement, male students 81 percent, physicians 68 percent). The female students believed more frequently than did the other two groups that emotional trauma following sexual assault was more likely to emerge after 2 months. The general tendency in female responses was to emphasize the duration and severity of the emotional trauma that they believed was associated with sexual assault and to overestimate the incidence. This result seems to reflect the women's greater sense of vulnerability and identification with the victims of sexual assault. It may be argued that because of regional variations

and lack of hard data on the subject, female students are more accurate in their perceptions and that male students and physicians underestimate these issues. The pattern of responses, in particular to the more "projective" questions such as the comparison between trauma associated with sexual and nonsexual assault, suggests that our interpretation is accurate. However, until this survey is replicated with different samples, this statement cannot be made with certainty.

There was a general tendency for all groups to overestimate rather than to underestimate the incidence of rape (question No. 4). A tendency was also seen to stereotype rape victims as white (question No. 5), and for physicians to overemphasize the role of the black male as assailant (18 percent for physicians versus 9 percent for all students). However, the differences only showed trends and were not marked. In summary, response patterns among the three groups for this section of the questionnaire showed remarkable similarities. The general tendency was to overestimate the incidence of psychological and physicial trauma associated with sexual assault rather than to deny them.

There are implications from these data for the treatment of rape victims, for the training of those who provide it, and for further research. The results suggest that the emergency room is still the principal treatment site for rape victims and that efforts at increasing services and care for these women should be directed there. Since the general practitioner, rather than the specialist, is most frequently consulted by the victims of sexual assault, it would seem appropriate to provide medical students with information regarding the physical and emotional treatment for sexual assault and not reserve such instruction until the student specializes.

Because of the broad nature of this investigation, certain significant questions could not be answered. They include (a) the type of victim seen by the various kinds of specialists in terms of victim's age, race, type

of assault, relationship to offender, presenting complaint, and the kind of relationship of the physician to the rape victim (that is, family physician, walk-in consultation, and so forth) and (b) the demographic and ethnic characteristics of the physicians who saw victims of rape, the physician's age, sex, location of office, community involvement, and whether he inquired when he suspected sexual assault.

The reliability of the information or attitudes section of the questionnaire could be increased by doubling the number of questions asked from 10 to 20. Elimination of the questions for which the correct response was most equivocal would facilitate interpretation of results. By determining the correlation coefficients among the items in the questionnaire, the consistency of the physicians' responses could be ascertained and thus the validity of the survey instrument assessed. The questionnaire also could be further validated by cross-validating items from the information section to relevant questions in the first section, for example, attitudes regarding the reporting of rape by the physician and the encouragement of reporting by the physician.

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# SYNOPSIS

McGUIRE, L. S. (University of Washington School of Medicine), and STERN, MICHAEL: Sexual assault: Survey of incidence of and physicians' attitudes toward. Public Health Reports, Vol. 91, March-April 1976, pp. 103–109.

In a recent pilot project, the number of women treated by private physicians for sexual assault was surveyed, and information was obtained regarding the physician's knowledge of, and attitudes toward, issues related to sexual assault. The high incidence rates for treatment of rape by private physicians that have been

speculated in the literature were not confirmed by the survey results. Sixty-seven percent of the 458 physicians responding to the survey reported seeing no rape victims during the study year. Since, however, the proportion of physicians seeing rape victims may show regional variations, this result should not be applied too generally.

Ten factual questions about rape were sent to more than 1,000 physicians and given to 258 undergraduate psychology students of both sexes. Both the responding physicians and the students answered approximately 60 percent of the questions correctly (that is, selected the answers that best reflect current understanding about sexual assault). The respondents' attitudes toward sexual assault were inferred from the direction of their responses. Physicians were seen to share attitudes similar to those of the male students, but not of the female students. The female students tended to overestimate the incidence of rape, the physical trauma associated with it, and the timing of its psychological after effects.