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AUTHOR

Kennedy, W. Robert; Wile, Marcia Z.

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ABSTRACT

The core surgical clerkship is described as the most intensive clinical experience during the student's first three years, and one which is extremely difficult to examine systematically. The research strategy, methodologies, data collected, and major findings of a study of such clerkships are reported. The data from more than 1800 hours of observation and self-reports of 77 medical students provided a substantial base of descriptive information about the commonality and diversity of experiences. No judgment as to the quality of the experiences has been undertaken; rather, questions about students! activities have developed that have begun a process of examination to determine if such experiences are consistent or inconsistent with good educational planning. Major concerns are outlined regarding equitable distribution of time, student-patient contact without direct supervision, purposes of conferences, roles and responsibilities of faculty toward the medical clerk, procedures that all students should learn, and instructional possibilities in the operating room. It is concluded that these studies are a beginning of a systematic examination to determine whether learning under the circumstances of the core clerkship can be optimized. (LBH)

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Studies of Medical Students' Activities on Core Surgical Carkships:

A Preliminary Report

W. Robert Kennedy, Ph.D.; Marcia Z. Wile, Ph.D.

Case Western Reserve University

§ School of Medicine

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Studies of Medical Students' Activities on Core Surgical Clerkships:
A Preliminary Report

W. Robert Kennedy, Ph.D., Marcia Z. Wile, Ph.D. Case Western Reserve University School of Medicine

The clerkship as an:educational experience has become an established part of the medical school curriculum. It is generally the most intensive clinical experience during the students' first three years and directly follows the basic science core. Although it has critical importance to the development of the student as a physician, it is one of the most difficult segments of the curriculum to examine systematically. A number of significant reasons exists for this situation including the variability of hospital services; diversity of attending faculty and house staff as to their roles, activities and interests; the patient census; the lack of a fund of information common to the first two years of medical education; and the problems of clinical evaluation of students. These factors are compounded by, in many instances, the "institutionalization" of the clerkship experience. That is, many departments have become so accustomed to having the program that faculty often have great difficulty stepping back to determine whether educational goals are clear and logical, if activities are indeed meaningful experiences for students, and what, if any, changes are necessary. Many times specific goals and objectives are not described or even available, making student and faculty expectations, roles, and activities even more variable and learning, potentially, more episodic.

For these reasons, the Core Clerkship Coordinator, Dean for Medical Education, and the Division of Research in Medical Education undertook a series of three studies to simply define "what the students were doing on the clerkships." This paper describes the research strategy, the Methodologies developed and used, the data collected, and major findings of the study.

STRATEGY

The clerkship experience at Case Western Reserve University School of Medicine has been in a process of evolution for over twenty years. The development of the formal model for the curriculum in the early 1950's included the teaching by subject committee and introduction of three phases (Ham, 1962)

Phase 1 -- Normal Biology of Man

Phase 2 -- Pathologic Physiology and Principles of Medicine

Phase 3 -- Clinical Medicine and Patient Care
In 1964, the Committee on Clinical Teaching reported on the status of undergraduate education to the Committee on Medical Education (CME). The CME then made recommended changes in the third and fourth years which included completion of the basic clinical experience by the end of the third year, and the fourth year as an elective program in advanced clinical science with increased patient responsibility. In 1967, efforts were undertaken to describe specific educational goals and objectives for the introductory and core clerkship using the cognitive, affective, and psychomotor domains.
Although significant efforts were made in these directions, not all clerkships

were undertaken and class size increased nearly sixty percent over three years.

Of necessity, additional hospitals and services were added for clerkships with most being unfamiliar with such educational missions and responsibilities.

This created other problems in addition to those previously listed. Student grievances included poor definition of the clerkship experience, lack of appropriate supervision too much scut-work, and a general lack of confidence in evaluation approaches.

were so described and practices-continued as previously.

During 1973, a strategy began to evolve concerning the examination of the clerkships. Built from the "discrepancy model," questions concerning the possible lack of congruence between intended and actual experiences began to emerge. Such questions as "what are the students doing?" how much time do they read?" how much patient contact are they having?" evolved. Quantification, and not the making of value judgements about the quality of the experiences was the research thrust.

In January 1974, a pilot study of approximately 400 hours of observation of students' activities on the pediatric, medicine, surgery, obstetrics/gyne-cology, and psychiatry clerkships was completed (Figure 1). The purposes were pre-testing and refinement of forms, data collection procedures, and the development of the necessary logistical supports. The form used (Figure 2) had been carefully evolved with the assistance of several fourth-year students and approved by the clinical faculty. Following the study, the instrument was revised to include students' level of participation in the activity (performing, assisting, observing, and/or discussing) and those persons with, whom they were working (Figure 3). These changes were the product of both research interests and the demonstrated capabilities of the observers to validly collect such information.

Study 1: Structured Observations of Medical Students' Activities on the Core Surgical Clerkship

Based upon the results of the pilot study, clerkship directors in the Department of Surgery were approached about pursuing an intensive descriptive study of their services. Since this Department had developed an extensive definition of goals and objectives (DePalma 1974) which were being followed at two of the four hospitals, it was felt an analysis of students activities might be useful to faculty: The intent was not that collection for change applications, but rather description of current experiences.

The purposes of the planned study were to:

- (A) observe and record students' activities on the ward and in the operating room;
- (B) define the levels of responsibility they exercised in patient contact and with whom (faculty, house staff, nurses, others);
- (C) the quantity and varieties of verbal interactions they had in the operating room.

Data Collection Procedures

Observers: Thirteen undergraduate pre-medical students were employed as observers and given an eight-hour training session which included four hours of actual observation of medical students, recording of information,—and familiarization with all sites, faculty, and procedures. The study was conducted during intersession, January 1975, when the observers were free from academic responsibilities and could follow their assigned surgery schedules.

Sites: 'The four affiliated training sites participating in this study were a large metropolitan hospital--Site 1, a university hospital--Site 2, a veterans hospital--Site 3, and a community hospital--Site 4.

Instrumentation

The forms previously described (Figure 3) were used in this study and a second section was added to include operating room verbal interactions (Figure 4). The observers were required to indicate in fifteen minute units the primary activity which had occurred for the entire period of observation (generally eight hours). In the event they could not make such a determination, they were encouraged to ask their medical student for assistance.

Scheduling the observations

The seedule for data collection was developed with the following parameters:

(a) observations would be done during the working day (I = 7 a.m. to 3 p.m.) and evening (II = 3 p.m. to 11 p.m.), for the period January 6 through 31, inclusive.

(b) a 20 percent minimum of the possible student work days would be observed. For example, a site with 4 students would have 80 possible observation periods (4 x 20 days without weekends). Twenty percent of this would be 16 possible observations. As such, the schedule for the four sites was:

•	Site		Planned Observat	ions	Saturday/Sับกูday
	• 1 •		50	,	Yes
	2	٠,	. \ 53		Yeş
· /·	3	•	25.		No.
マノ	. 4	•	27	* 1	:No

The 20 percent minimum was used as a guideline with deviations being made to sample subrotations at different sites a specific number of times. For example, one director wanted one subrotation seen three times at night. This was done but resulted in additional observations to the pre-determined number.

- (c) clerkship directors would determine those subrotations to be sampled and the number of desired observations for each (i.e., neurosurgery, ENT, general surgery).
- (d) assignments for observers at each site would be random by subrotation and eight hour units throughout the thirty day period. Medical students on the rotation at the assigned time were also randomly selected from available schedules and if, for any reason, they were unavailable, the observer was given alternate names.

Final Schedules

The following table compares the <u>planned</u> and <u>actual</u> observations by subrotation and time (I or II), at each of the four sites.

SITE 1

DI ANNED :	Gen. I	Surg. II	Nei I	uro II	, E	R IÍ	Ort I	ho II	•	Ped _I	Burns II	C1 _ I	inic II	Total
PLANNED ?	8	3	5	5	5	7	2	3		1	0 .	0	0	50
ACTUAL	10	2	5	2	5	8	1	.1		1	1	1	õ	44

SITE 2

	Neuro	Anesth.	Pla	astic	0r	tho		ER	Ped	Burns		G.s.	* Total
	I II	, A. II	I.	II	Ι	II.	I	II	Ĭ.	II.	ŀ	ΙΙ	
PLANNED	2. 3	6 0	.0	ó	0	0	1	. 4	4	1	15	17	53
ACTUAL	61,	3 0.	1	0	1	0	2	3	2	Q	22	5	46
	1	,					<u>' </u>		<u> </u>	<u></u>	<u> </u>		

SITE 3

,	Major	·Surg.		Surg.	Total
	, , I	II	I	II	٠,
PLANNED	11.	5	6	3	25
ACTUAL	- 11	/5	. 5	· 4	25 (*

SITE 4

//	/ 0ı	^tho .		ER		ENT	CV-	Thor	Gen.	Surg.	Total
/	I	II	<u> I ·</u>	II	· · I	II o	ľ	П	· I	ΙI	•
PLANNED	4	2	0 .	ρ,	2	2	5	. '1'	7	4	27
ACTUAL ,	· '4,	0	1	1.	2	0	4	~]	6	7 ·	26

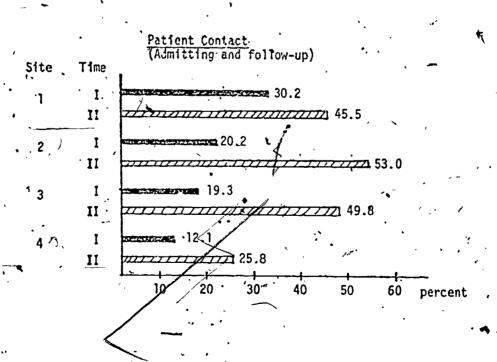
Findings

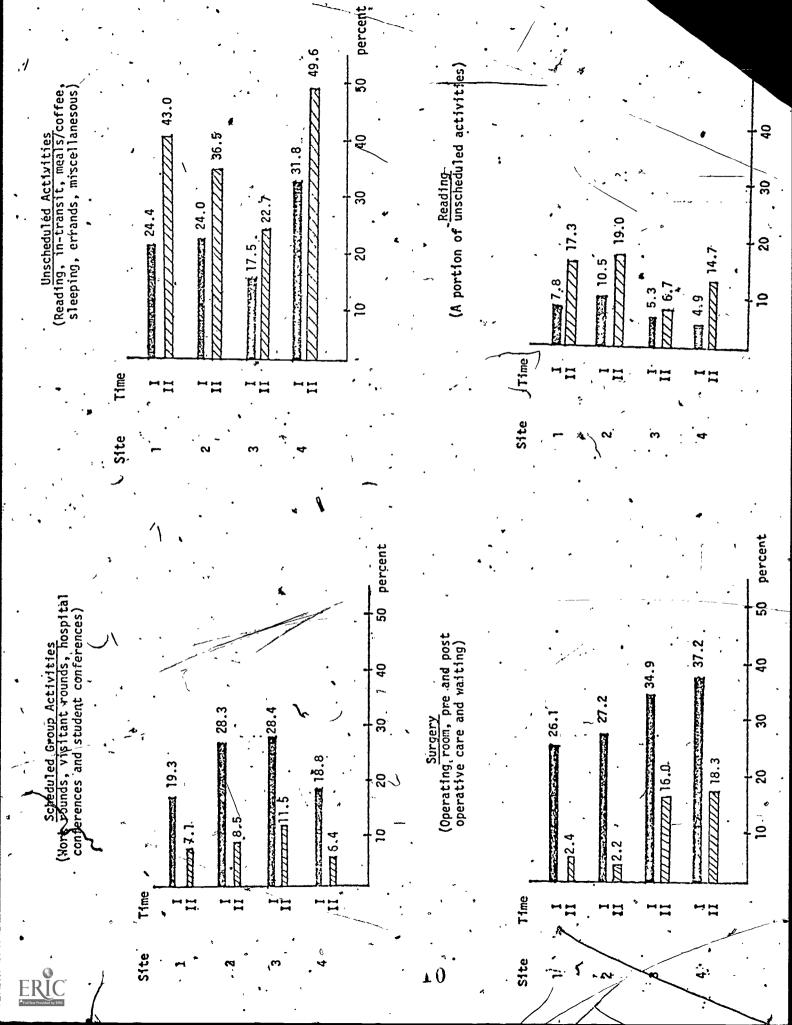
The data derived from the 1000 hours of observation are presented in selected form since the amount of information is massive and more pertinent (as was intended) for hospital service application.

"What are the students doing in specific types of in-patient activities?".

The tables in Appendix A show the number of hours and percent time per activity for "morning", "evening", and "total" for students observed across the four training sites.

The four major categories of activities defined in the observational study were: patient contact -- scheduled group activities -- surgery unscheduled activities. Included in "unscheduled activities" was reading. A comparison of these major categories across the four sites is presented in the following bar graphs.





Students' activities differed in "patient contact" from the morning to evening shifts with the greater percentage at night due to fewer "scheduled" and "surgical" pursuits, and hospital admission procedures. The pattern prevailed across all sites.

"Scheduled activities" differed on the morning rotations because Sites 2 and 3 allotted more time to "work rounds" and "student conferences."

"Visitant rounds" were fairly constant across sites as were "hospital conferences," with Site 1 having fewer student attendees. Overall, similar patterns prevailed for evening activities across sites with services differing in visitant rounds (Site 1 having the lowest of 0.2 percent) and student conferences, (Site 3 having 6.7 percent, and the others of 2 or less percent).

"Surgery activities" tended to occur primarily during the morning rotations as would be expected. Evening surgery did not reach the level at:

Sites 1 and 2 as did Sites 3 and 4. However, at the latter two sites, the surgery was primarily done, not by faculty, but by residents; and students on these rotations were encouraged to assist them. (Upon questioning the students stated they enjoyed both the experience and the responsibility assumed).

The number of students on these clerkships was 4 (as compared with 10 and 11 at Sites 1 and 2), and this may have contributed to closer relationships.

The evening hours were without the structure common to the morning routines. Therefore, more time was spent reading, going to x-ray or labs (in-transit), having coffee/meals or just sitting around talking or doing personal errands (a trip to the bank or to the library). Unscheduled activities prevailed, with more patient-admitting (all sites) and patient follow-up (Sites 2 and 3) than during the day. This generally occurred on the general surgery and emergency room subrotations (see tables in Appendix B).

"In patient-contact, what levels of responsibility are exercised and with whom (faculty, house staff, nurses, others?"

The summary data describe morning and evening rotations for each site and are presented in tabular form in Appendix C.

It was found that at least 60 percent of students' "patient-contact"

was spent performing the admission/follow-up activities (ranging from 64 percent at Site 2 to 91 percent at Site 1). Activities in "assistance" and "observing" were constant except for Site 2 which had a higher percentage in these categories. This was possible due to the high number of clerks (10) on this service and their having greater opportunity to "watch" house staff rather than "perform." Site 3 had a higher incidence of "performance" since there are no interns at this hospital and students fill this role quite readily.

Efforts were made to determine with whom the students interacted during the "patient-contact" activities. The next table presents this information. The vast majority of the time was spent with house staff; with house officers and faculty accounting for 100 percent of all the supervision, discussion, etc. with students. At no time was any other person (i.e., nurse) observed in this capacity.

Patient Contact

Hours of Contact With	ĥ <u>.</u> ≱	o .	SIT	<u>ES</u>	• /-
``		1	2	_3-	** 4
Faculty	•	11.00	11.75	1.50	4.00
House Officers		59.25	58.50	18.00	11.25
Nurses	•	Ò	0	0	0
• .Others		. 0	. 0	<u></u> .	0
Student Alone	*	18.75	45.50	36.00	15:75
	TOTAL HOURS	89.00	115.75	55.50	31.00

"What quantity and varieties of verbal interactions occurred in the operating room?"

The purpose of collecting these data was to examine students interactions in the operating room. Were they included in discussions of procedures, anatomy, physiology, or were they ignored? The tables in Appendix D present the cumulative totals of all operating room interactions which were observed at the four sites. Interprétation is difficult and individual critical incidents are much more meaningful to faculty. Many variables tend7 to interact to make this situation of value to students. It was found that individual personalities, the patient's problem, number of persons in the room were factors that tended to make the situation rather unpredictable. In certain instances, howerver, consistent patterns of behavior were found, Such as the surgeon who consistently failed to note the presence of the clerk. Other surgeons not only were aware of the medical student's presence, but actively engaged in a lively educationally oriented discussion to familiarize the clerk with the many facets of the surgical intervention. Depending on various factors, students also interacted with the residents, and occasionally with nurses and anesthesiologists.

Study 2: Task Analysis of Medical Students Activities on Core Surgical Clerkships

The second component of the surgical clerkship study was an analysis of the tasks and activities experienced by third-year medical students at the four training sites. Its objective was to describe the types of experiences and the students' level of participation in the activities.

Instrumentation

The general surgery task inventory of 319 items, previously used in a house officer survey, served as the model for the data collection. The six clerkship directors were asked to select tasks which they would expect to be experienced by clerks during the two-month rotation on their surgical service. Within this list, high priority tasks were designated. Following final individual review of the inventory by the clerkship directors, they met as a group with the clinical coordinator and the authors to determine the final item selections. The criterion for inclusion was the appropriateness of the task for medical students at this particular phase of their educational experience, and 200 tasks and activities were identified.

A second consideration was the description of the "level of participation" of the clerks in each activity. At the group meeting, it was decided to use the following descriptive categories for the tasks: no experience; only observed; only assisted; observed and assisted; observed and performed with supervision; assisted and performed with supervision; observed, assisted and performed with supervision; performed with supervision; and performed without supervision. For another group of activities such as "attending grand rounds" and "presenting reports in conferences" the two responses were "experienced the activity" or "did not experience the activity."

The revised 200 item inventory was distributed to the clerkship directors for their critique and approval. Based upon their comments a final inventory consisting of 196 items was evolved, the content validity of which had been ascertained by the subject expert consensus—that is, the persons who were directing the educational experience.

It should be stressed that the purpose of the instrument was to describe the overall clerkship activities and <u>not to assess individual student performance</u> or to <u>compare</u> training sites. The emphasis was on providing information concerning the breadth and depth of the surgical clerkship experience without the implication that the clerks should have performed or had contact with . all the tasks and activities identified.

Figure 5 and 6 present the cover letter and a sample page of the inventory. The inventory was distributed to each of the medical students who had been assigned to surgical clerkship rotations in the period December 1, 1974 to January 31, 1975. This included the one month in which the observation study was completed. The same inventory was given to the students who had served on the surgical clerkships from February 1, 1975 to March 31, 1975, and April, 1975 to May 31, 1975, and was completed during the final week of their clerkships. The students recorded their responses on optical scanning sheets and were given the option to remain anonymous, and to write suggestions for improvement of the clerkship or any other comments they could offer. The optical scanning sheets were then computer-processed to provide frequency distributions for each item. The subjective comments were transcribed and the data analyzed for each training site for each rotation.

Student Particpation

Of the 91 students assigned to the surgical ckerkships for the three rotations, 77 returned completed inventories. Twenty-two were from the first rotation (32 assigned), 29 were from the second rotation (31 assigned), and 26 were from the third rotation (28 assigned). The observation study was a factor in lowering the response in the first rotation, especially at one hospital. In spite of the fact that medical students were told that they were not being evaluated, during the last week some of the clerks at Site 1 failed to complete the instrument. The number of respondents from each site for each rotation is presented in the following table.

Task and Activity Inventory Respondents

Hospital Site	Rotat 12/1/75 - Respondents	/		 on 2 . 3/31/75 ts Assigned	Røtat 4/1/75- Respondent	
1	5	12	10	. 11	№ · 8	8
2	9.	12	• 10	11	. 10	11
3	4	4	₹ 4	4	3	,4
4	-4 5	4	5	5	5	5
TOTAL	22	32	29	31	2 6 `	28
Findings	•	. `		• .	٠.	

The diversity of the experience reported by students at each of the four training hospitals was very apparent. This was reflected in both the number of experiences and the degree of involvement. A profile was identified for each, hospital site which was consistent throughout the three rotations of data collection.

It was anticipated that certain activities would be experienced by all students in all hospitals. However, the only one which was indicated by all 77 students was participation in special "student conferences." All but two persons mentioned they had conferred with peers or physicians regarding patient management. For instance, there were a few students who had not participated in teaching rounds at three of the sites; at one site two students had not engaged in work rounds; and nine students did not attend grand rounds at one site. More than a third of the clerks indicated that they had not been given opportunities to suggest topics for classes or conferences and only about half mentioned that they had presented reports in conferences. Ten percent of the clerks responded that they had not read or reviewed general medical literature during their clerkship and thirty percent indicated that they had had no experience researching the literature regarding a particular patient's problem.

Most of the items referred to specific tasks and to the level of participation in which the students engaged--from no experience to performance without supervision. There were no tasks in which every student reported performance without supervision. All but one or two clerks indicated they had performed unsupervised the ophthalmoscopic and otoscopic examinations, auscultation of heart and lung fields, and palpation of pulses. Eighty-three percent of the students reported they had obtained and recorded medical/surgical histories without supervision, with the remaining students indicating they had performed this task under supervision. One student's experience with the initial physical examination was limited to observation only; the rest of the clerks actually performed the examination, with all but eight doing this unsupervised. Five students reported they had had no experience in taking vital signs at any time in their clerkship. Four of these students had been assigned to the same training site and represented all three rotations. With one exception, the other clerks accomplished this task with no supervision.

There was reported more direct and unsupervised experiences in tasks involving physical examination and work-up, interpreting laboratory results evaluating signs and symptoms, and patient communication and education.

Three-fourths of the students reported they had answered patients' questions and informed patients of procedures without supervision. Most of them indicated experiences in reassuring patients, explaining minor surgical procedures, and instructing patients in care of their incision. However, about a third reported no experience in counseling the patient and/or the family regarding a terminal illness or counseling related to a psychomatic complaint.

Among the six broadly defined objectives for the core surgical clerkship was the acquisition of common psychomotor techniques. Diagnostic manual skills included lumbar puncture, thoracentesis, and arterial puncture; therapeutic manual skills included intravenous cut-down and cardiac resuscitation; adjuvant manual skills included nasogastric intubation and bladder catherization. The responses to the task items related to these skills revealed that a significant proportion of the clerks at all sites had had no experience whatsoever with these skills including observation; 43 students indicated no experience with thoracentesis; 37 had no contact with an intravenous cut-down; and 27 students responded "no experience" with external cardiac massage. From two to nine students indicated no experience with venipuncture, arterial puncture, catheter insertion, bladder catherization, nasogastric intubation, tracheal intubation and protoscopy.

In the observation component of this investigation, it was found that operating room activities occupied from 17 percent to 27 percent of the clerks' time. However, there were many surgical procedures with which most students reported limited experiences. These included aspiration of breast cysts, hemorrhoidectomy, vagotomy, hiatus hernia repair, vein ligation, adrenalectomy, and pancreatiocoduodenectomy. Specific items concerning

participation in lung, cardiac, esophageal, urologic, spinal cord, and ophthalmologic surgery for example, revealed few students had been involved in these procedures other than observing, and many-indicated no experience.

Limitations

The accuracy of the students' self-reports concerning those activities which they had experienced and at what level they had participated, is difficult to determine. In several instances, the validity of the responses was questioned, particularly concerning the performance of certain surgical procedures. For example, two students indicated they had performed laparascopy without supervision, 10 clerks reported they had prescribed medications unsupervised, and 2 indicated they had performed aneuryspectomies under supervision.

Since these were retrospective observations and completed anonymously, checking was not possible. The critical factor was not the identification of these possible "invalid" or "inappropriate" incidents. Rather, the emphasis was on the overall profile of tasks common across the four sites. Such profiles did emerge which were consistent throughout the three clerkship rotations, as well as unique to each.

Discussion

These studies were directed at the description of the four surgical core clerkships through the regular activities of third year students assigned to them. The intent was to collect information which would define the experience in terms of:

- -- What the students were doing
- -- When the activities were being done
- -- Where they took place
- -- And with Whom the students were interacting.

Clinical core clerkships are a dramatic change in the educational activities of the medical student. Learning quickly becomes a more personal responsibility without reliance or guidance from "cognitive tests;" it is more episodic and the product of interactions with patients, interns, and visitants; and it tends to be relatively unstructured without the core of information so readily identifiable in previous instructional situations. The "clerkship", depending upon the motivations of individual students can either be a very good, average, or very poor learning experience. However, since not all the responsibility should be the students' exclusively, what are the characteristics of a "good clerkship"? What should the medical students be expected to do and/or learn in these situations?

At the CWRU School of Medicine, the goals and objectives of the core surgery clerkship have been described and implemented to varying degrees in each of the four services. With this as a starting point, research efforts were directed toward the determination of the degree of discrepancy, if any, between what faculty thought students were doing and what was actually occurring. The rationale for this approach was to categorize questions about the purposes and merits of students' activities prior to the introduction to any "change" orientation.



Any examination of the clerkship as an educational pursuit must begin with the premise that "diversity" is commonplace. Not enly do patients differ, but also hospital routines, attending faculty, interns, residents, and others. Such diversity, however, should not be equated with overwhelming disequilibrium. Students have, and will probably continue, to Tearn, to professionalize, and to become practitioners of medicine. The critical concern is whether there is a sufficient guidance system to facilitate the students' development toward these ends. For example, should students know what to expect on a clerkship beyond the schedule of nights on and off? What competencies are to be evolved? What services are they to render and under what circumstances? Undoubtedly, many such questions prevail across clerkships. However, since each site is unique, each must work within its idiosyncratic constraints. Students learning on a service without interns will probably. have greater responsibility and learn more through experience than services with interns. Services with male and female patients will provide more learning experiences than those with only males. These characteristics are to be built upon as much as possible and to do this, data about actual activities are of value.

The data from more than a thousand hours of observation and self-reports of 77 medical students have provided a substantial base of descriptive information about the commonality and diversity of experiences across the four sites. No judgement as to the "quality" of the experiences has been undertaken as yet; rather, questions about students' activities have developed which have begun a process of examination to determine if such experiences are consistent or inconsistent with good educational planning. Among the major concerns identified thus far are the following:

- * What is an equitable distribution of time across "patient contact".
 "structured activities", "surgery", and "unstructured activities"? When does an area become overemphasized (greater than 30% per category)?
- * Should the students be "performing" so much in the area of "patient contact" without direct supervision? Who is available to identify (and correct) constant errors which may be occurring?
- * What are the purposes of conferences? How are topics determined for discussion? Should students be given greater roles in selection?
- * What should faculty roles and responsibilities be, relative to the medical clerk?
 - * What procedures should \underline{all} students learn? Are there any at all?
- * In the O. R., what are the instructional possibilities? Is it merely a passive situation or should more active roles be ascribed to clerks?

Many other questions have evolved. These studies are a beginning of a systematic examination to determine whether learning under the circumstances of the core clerkship can be optimized. At minimum, can the potential of the experience be more clearly delineated so that students can have a greater understanding of what they are to learn, how they may learn it, and those areas for which they are accountable?

SURGICAL CLERKSHIP STUDY SUHMARY OF MORNING OBSERVATIONS

•	A hrs	354	(34 77)	701)	9 (152.25)	(53.25)	1(27.25)	 	3 (4109.50/	(195,75)	1 5-75	(210,25)		1(55.02)	163 701	(6.25)	1(45, 25)	(172.75)	(30, 107)	. 767 - 677	
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	%	28	3.3	1		3:3	2:5	18 8	The state of the s	34.9	0.0	37.2		6 6	7.2	0.2	18.3	31.8	65.9	12.0	
	Nars .	S 10 A	(05.2.)	(22,00)	<u> </u>	(10.50)	(06.731)	(32.25)		134.50	(4.00)	(39.75)	٠	1.25	7.00	1.00)	(3.25)	(19.75)	(113.75)		
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	75		5.8	20.2	İ	2.9	14.2	28.3	1	0.3	2.1	27.2	10 5	2.8	6.0		4.2	100.0	79.6		٠
	A. hrs o hrs		(33.25)	(62.25)	(15,00)	3.00	16:33	(39.75)	(5) 50)	1.00		(53.75)			2,50)	1.50)	(50.50)		(206.25)		• • • •
,	74 75		9.0	30,2	7.3	2.9	6.7	19.3	25.5	0.5		26.1		2.9	1.2	0:7	24.4	100.0	20.3	· · · · · · · · · · · · · · · · · · ·	The state of the s
	ACTIVITY=CATEGRY:	Patient Confact	. Follow-vo	Scheduler	Nork Rounds	Hospital Founds	Student Conferences	Surgary	. O.R.	Pre/Post-Co	Sustain)	8V. Unscheduled Activities	Reading	Heals/Coffee	Sleeping	Miscellankous	Subtotal	4 per chiumn	***		
ᠰ~~	¥ };	:	٠.	#=		1	,	١	•	• •		1 2			•		,•	F	•	·	

HOURS OF RECORDED OBSERVATION PER SERVICE

		/		•		
	Date	Pediatrics .	Psychiatry	Medicine.	Surgery	OB/Gyn
1.2	January		* .	•		
1	14/	11.73	10:25	12.75	11.00	10.00
11	15.	12.00	9.75	11.00	9.00	12.00
	••	6	<i>J</i>	•		
IÍI	17	10.00	10.00	11.25	10.00	S. S
ΙΫ,	18	11.50	12.00	12.00 '	9.00	8.0,
•	••	•				
Y	21	10.25	8.50	11.50	12.00	.10.75
Λī	22	11.75	12.00	10.50	12.00	10.00
	••	•				
ЙП	24	10.00	8.75	12.00	12.00	8.50
VIII	25	9.50	9.00	12.00	10.00	.8.25
Total	.s	86.75	80.25	93.00	85.00	73.00

FIGURE 2

	•	_
· · · · · · · · · · · · · · · · · · ·	1 HOUR	1 HOOR
ADMISSION OF THE PATTENT L		
, Procedures '		f
Piagnostic (lab tests)	-1 1 1 1	j
Therapeutic	J-1-1-1	I — I — I — I
Preparation of the Record		providence land
Chart review — Phone calls —		
Other sources		
Writing the record	1	/
INDIVIDUAL PATIENT FOLLOW-UP.		l A
exam ———————		[124-1.4
Procedures	<u>-</u> }!	
Diagnostic	J-,-,	
Therapeuric		
Record keeping	1-1-1-1	l
Errands (performing a		
carrier or secretary service)-	1-1-1-1	
SCHEDULED GROUP ACTIVITIES	1	f
nor founds (residents, interns, students)		}~* (~ ~ ~ . ~ }
Visitant/attengant rounds		
(visitant, residents,	1 - 1 - 1 - 1	
interns, students)]	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
" mospital conferences (all	 -	- -
personnel)	1 1 1 1	1 1 1 1
Student conferences		
UNSCHEDULED GROUP ACTIVITIES	\	}−
UNSCHEDULED GROUP ACTIVITIES	h , , , ,	
· intern	│─┲┼╌┼╌┼╌ │	[-
' Visitant —		┠╼╍╏╼╌ ┨
nursesocial service		
peers		
, others		
'		
Activities were	<u> </u>	
Work-related		
ADDITIONAL ACTIVITIES	•	. #
Off-ward procedures		/
Surgery — Other special — Other		
Reading		
In-transit (site to site)	╼╂╼┼╌┼╌┤╵╶┃	
Meals, coffee breaks	╼┼╼┼╼┤╸┃	
Sleeping		

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,	
Observer	For individual observed-code
Date	participation in activity as: a - performing function
Student Observed	b - assisting in function c - observing function
Area Assignment	
* * * * * * * * * * * * * * * * * * * *	·
atton atton into a coffee control of the control of	ty; off.
Participation Of faculty	erticipation foods of faculty of house of Cuce of faculty of house
Procedures Disgnostic (lab tests)	
Preparation of the import	
Chart review Phone calls Other sources	
Writing the record	
· INDIVIDUAL PATIENT FOULDS-UP Selected history/physical exam	
Rrocedures Pregnostie	
Therapevic Record Recting Writing orders	
Errands (perforaige a curve)	
Or cectetaty, service	
Work rounds (residents, in- terns, students)	
Yisitant/attendent rounds (Visitant, residents, in- terns, students)	
Hospital conferences (all personnel)	
DISCHEDULED CLGUP ACTIVITIES	
Student with resident intern	
Visitant	
social service peers others	
Activities vere	
- ADDITIONAL ACTIVITIES	
Off-ward procedures	
Other special Reading In-thansit (-ite to site)	
Sleeping	
Hiscollaneou,	
• • • • • • • • • • • • • • • • • • • •	•

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Page ____

FIGURE 4 FIGURE Student Observed Observer_ Time in O.R. 1st 2nd lst 2nd Anesth. Other Ass't. Nurse STUDENT Initiates Question to Responds to Question from Participates in discussion with · Responds to Instructions from Medical · Participation Code Students a. performing functionb. assisting in functionc. observing function Time Present 3rd 4th 2nd Other Surgeon Ass't. Anesth. STUDENT Initiates Question to Responds to Question from Participates in discussion with Responds to Instructions from Medical Students -3rd 15' Time Present 26

SUNMARY OF OBSERVATIONS

APP. A

;		2116		31.15	ر ان	SITE	p.	SITE	, p		
		· · ·	4				1				
	. ACTIVITY CATEGORY:	At Bt	A hrs o hrs	A2 02	A brs 0 brs	A 44	A hrs		A hrs . 6	-	A hrs
	For Patient Contact			/			\$14 O	38	e hrs	. 83	B hrs
•	Adnitting	20.7	(66.00)	9 8/	1	8 01	(0) (1)				
`	Subtotal		(49.75)	Ы	15%321	19:61	1. (38. 30)	3.8	118:38/	13.1	133 251
	11, Scheduled Group Activities		(115,75)	26.9	(34.50)	/ 30.7	(55,50)	16.8	(31.00)	28.7	(291 251
	Vork Rounds	6.1	(19 50)	1 8/	1.00	4 4		÷.			
-	Visitant Rounds	2,0	6.25)	7.3.8	7.	7.,	(13.00)	3.1	(5.75)	6.4	(65, 63)
,	Student Conferences	13	13.50)	4.3	INK	2.8	5.00)	3.7	3.50	2.1	
	Subtotal	15.0	11.3	7:1	130.00	10.6	(19.25)	6.0	117:66	7.8	19 50
	Ill. Surgery	2:/:	(2/:/:)	24.3	(80.25)	. 22.1	(40.00)	14.7	(27.00)	19.2	-
• ′	0.R.	17.2	(100 00)	, 0,			,				· I:
. '	Pre/Post-0p	0.4		0.2		24.6	146.50)	27.5	157.751	23.4	217 591
	Valeton	0.1	(-, 2/5)	1.7	(5.50)	2.2	7,400	2.3		0.8	8.25)
	Subhotal	17.7	(56.50)	27 1.	(72, 00)	9,45	1]	ł	157	7	11.50)
•	IV. Unscheddled Activities			- 11			100.001	50.7	(56.75)	23.7	(736.75)
`-	Reading	11.1	(35, 50)	12.3	160 761	, B 3	102 011	.			,
	Heal d/Col for	2.7 cms mx	37-9-	2.5	(8.25)	1,8	3.25)		15.85	10.0	102 001
••	Sleeping	1.1	3.50	5.4 5 g	12.72		(11,00)	8.8	(16.25)	7.0	(
	Recollance:	0.5	1.50	1:1	(3.50)	000	1-30	0.4	(5/,	0.8	B 25h
-		4.4	23.50).	4.7	(15.50)	7.3.9	7 00 2	10.7	1, 20, 36	8.0	-1
ાં	Subtotal	31.0	7(00.66)	26.8	(88 25)	0 1 01	$T_{!}$	Ş	ר ווי	9.0	81.251
٠.	L per column	100.0	,	100:0	1277		132,001	30.0	(70.00)	28.8	(22. 262)
	Wints no Ubserved	100.0	(319,00)	100.0	(330.50)	100	100,101)	7.00.			•
	AJJSTO TRIBITE	31.4		32.6	,	17.8	700-21-01	0.00.0	(184.75)	100.0	
* }					ý	, ,		10.6		100.0	(1015.25)
•	•										

2

HP STUDY	OBSERVATIONS
CLERKSHIP	MORN ING
3	P
SURGICAL	SUMMARY

	TAS A hrs	204 8 28 29 29 29 29 29 29 29 29 29 29 29 29 29	77 / 7 9 (00 4)	8.8 (10.75) 14.5	12.1	3.3 (4.03) 7.2	2.00		18.8 (23.00)	***	28.1	0.0 0 0 (00)	37.2. (45.25) 30.1 (1.90) 2.2	25) 0 0 163		3 (22,25) 6.5 (4	31.8 (38.75) . 24.7 (17.75)	· 0.001 ·	(121,75)		
COSENANT LONS	A hrs a hrs A2 1 ng		(15.25) 2.2 (3.50)	25) 17.1	(22.00)	9.2	(13,00) 4.4 (5,00)	13.0	(74.50) 28.4 (32.25)	70.7		· 3.5	(71.50) 34.9 (39.75)	-	3.5	(12.25) 6.2 (7.63)	25) 1.1	(1.00)	7.5	(56.61) (5.75)	100.	(113.75)		
	At the A.hrs o'hrs At 02		1 3 4 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	30.2 (62.25) 20.2			7.9	77.	(32.75) 28.3		0.5	*; · · · · · · · · · · · · · · · · · · ·	(53.75) 27.2	7.8	(6.00)	7.6 (15.75) 4.7	1,50		0.50)		(206.25)		and the second s	
	ACTIVITY-CATEGGRY:	8. Patient Confact	Follow-up	Subtotal	11. Scheduled Group Activities	Visitant hounds	Student Conjerences	Subtotal	Ill. Surgery	Pre/President	+	0131/	8V. Unscheduled Activities	Reading		Sleeping		2	Subtotal	4 per	TOTALS & hrs. paraing observ	. total nrs. observ.		

TOTALS " & evening observation total hrs. observ.	Subtotal \$ per_column	In-Transit Keals/Collect Sleeping Errands Rivering	Subspital IV. Unscheduled Activities	O.R. Pre/Post-05	Student Conferences Subtotal	11. Scheduled Group Activities Work Rounds Yisitant founds Hospital Runds	Acritting following Subtotal	ACTIVITY CATEGORY:
35.3	43.0	9.2	2.4	2.2 0.2 0.0	2.0	1.0 ~	38.}	78 20
(112:75)	14.75)	13, 50 2, 75) 10, 50) 1, 00)	(2,75)	(-2,50)	(<u>8.00)</u>	(4.50)	(43.50) (63.50)	A heav
100.2. 20,4 6.7	6.7	1.5 8.7 0.4	2.2	2.2	0.0	4. 4 2. 2	25.4	, 20 02
(67.50)	4,50) (24,50)	12.75) 1.00) 5.50) .25)	(1.50)	1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50	(1.25) (1.25) (1.5.75)	(3.00) (1.50)		A hrs 0 hrs
100,0 37.2 6.6	5.6 22.7	5.9 0.4	16.0	1.1	0.0 6.7 11.5	3:7	25.3 24.5	02 02
(67, 25)	(15,25)		(10.75)	(10.00) (37.01)	(7.75)	(33.50)	[05-31]	A hrs . B hrs
100.1 34.1 6.2	20,6	14.7 11.79 10.8	2.8	13.	9.9 6.4	25, 8	17.9	A2 Bt
(63.00)	(31.25)	(9. 25) (1.00) (7. 50)	(11.50)	8.25) 1.50)	(4.00)	(16.25)	(15:38)	A hrs a hrs
100.0 30.6	37.5	14. 4 2. 2 8. 6	8.5	6.7	2.3	45.8	37.7	A3
(310/50)	1.25) 36.00)	(27.52) (27.52) (27.52)	(25,50)	22.25)	(25. 50)	(139.00)	(88. <u>59)</u>	A brs

SITE

ROTATION:	1		-			<u> </u>					<u> </u>	•		. ; •	
	E	LUE	G	OLD	HE	EURO	,	N Y	OR	TIO	PED	BURNS	CL	INIC	TOTAL
		11	<u> </u>	11	1	11	1	- 11	1	111	1.	İI	1	111	
OBSERVATIONS: PLANNEC		3 .	8	3	5	5.	5	7	2	3	-1, ·	0	0	- C	50
· ACTUAL	10	2	4	3	5	.5	<u>_</u> 5-	8	1	1	1	1	1	-	44
TIME SPENT I. Patient Contact				\perp			•						·	Ť	1-17-
Admitting	6.50	3.75	.75	3.00	3.75	4.50	11.00	31.25		.50	3.00			-	
Follow up	#72.25	3.C0	3,25	3.25						,	1.00 2.25		4.00		65.00
II. Schd Froup Act's A. Hork Rounds	6.CO	_50	2.50								3,120		7.00		49.7
B. Vis. Rounds	1.25	_30	2 2.50	1.50		2.50		<u> </u>			.25		.75		19.50
Hosp, Conf.	11-		1 1 00		4.50					. 25	.25				6.25
- C. Stud. Conf.	8 4 OO	2.25	1.00	1.00	75				.75						3.50
II. Surgery	1	-			1.00		1.75	i	1.00	- 1	1.75	1	1.50		18.50
Pre and Post-Op -	1 31.00		8.25	-2.65	2.00				4.25	. 50	7.00				_
Waiting Waiting	.25				25	}	,	j		. 251	.75	<u>;</u>		-	55.00 1.25
IV. Reading					╤═╣					. 3		ş			y .25
In-Transit		2.75		4.5C	4.25	3.50	5.50	5.50	.75	3.25	1	1	1.00		
. Keals/Coffee	3.00	1_00	25 2.001	<u>.50</u> 2	1.0d	1.50	. 75	. 7년	50	-	.50		1.00	\dashv	35.50
Sleeping	,	. 75		2.50	3.5Q		2.00	6.29	.25	.75	.501	3	.50		8.75 26.25
Errands	.75		/3		1:25	7		<u> </u>	\rightarrow		2			٠.	3.50
 Kiscellaneous 	3.75	1.00	1.25	.25	1.75	\leftarrow					.75	i		\Box	-1.50
	- 1	1		• 6 3.	/-3		.50	12.25	.50	1.23			-25		23,50
Total Hours	79.50	5.00	26.50	18.75	33.50	12.5q	35.00	59.75	8.00	6.75	15.75	1	8.00	1	319.00

SITE -2

R	IBOITATO	HEU	80	AN	ESTH.	P1	ASTIC ¹			1					•	
٠,	_	11 1	111		1 11	1	1	ORT	1	1 '	ER	PED.	SURG.	GEN.	. SURG.	TOT
		 		ļ	<u> </u>	1 '	11	, ,	111	['	111		ने।	1	11	ĺ
BSERVATIONS:	PLANNED	2	3	6	0.	0	0	0.	0	1.	1.	14	- ,	-		
P	ACTUAL	6	1	3	0	1	0	1	. 0	-} -	+		 ' -	1 15	17	53
HE SPEHT		-			_	 ``		 	-	2	13	2	: 0	22	5	46
I. Patient Con Admitting					٠].	- •		
Follow-up			3.25				· ·	1		10.00	11.5		l			
		-13:75	.25	-75				.75		1.50					2~50	
A) Vork Rous	nds ·	1,00	į	2.00							7.7.	7.50	-	13.79	10.50	56.
Nospi. Co.		1.75	1.50	4.00		50 -75		1.75		<u></u>		2.775		15.79	3.00	~
c) sted. co.		7,601	1.25	1.50		•/>	<u>{</u>			<u> </u>		1		5.25		25. 9.
		2:60	1	7.25		1.00		<u> </u>		}	 			8.57		14.
. Surgery	#	635	1.504	6.50						-		2.125	2 24	14.50	<u> </u>	30.
Pre and Pos Walting	S1-00	251		-8-501		4-50		 _l				25	A	47.79		
	-`			1.75	<u> </u>			 -					**	- 4/-/-	- #	65_
· Read Ing	`~_}	c 201				•		-+					المثغ	3.75	- 1	
In-Transle		5.75	1.50	1.50	!	.50		3.25	_	.50	1.50	.50	197	16.00	#	
Keals/Coffee		1.50	7.0	1.00		25				.25		1.25	, 	3.50		40.
Sleeping	1	1.00	<u> 7</u> 2	-50				75		1.00	1.50			7.50	1.00#	8.
Errands	- 	1.00	ļ.	$\geq \downarrow$				T							3.75	17.
Hiscellancov	 #	25_~	\triangleleft		1			.25						1.25	.25	2.9
		3.02	1.25		1					25		450 کـــــ		<u>. 1.</u>	<u>soil</u>	-3,5
TOTAL	HOURS			<u>S</u>	7		 {-	- \	 Į	1.25	<u>75</u>]		I	6.79	2.50	15.5
		44.25 1	1.25 2	3.25	ل	7.50	_	6.75	.	14.75	22.50	16.00		150.50	37 26	330.0

				· · · · · · · · · · · · · · · · · · ·		
,	ROTATION: .	, 140	JOR	∦ . • ₩	ROHIL	TOTAL
		1	11	; I	11-	
OBSERVATIONS:	PLANNED	.11	\$ 5	6	3	` 25
	ACTUAL	, 11	. 5	- 5	1	25
Time Spent:		1		-		
I. Patient Contac	t.	1.00	0.50			
Follow up		1 1.00	8.50	1,50	8.50	19.50
POTTON UP		15.00	12.00	47.50	4.50	36.00
II. Scho Group	letis e	1		t:	J,	
· A) Hork Rou		9.00	1 1	1.50	2,50	
B) Vis. Rou	ınds	2.00	.75	1.50_	2.30	13.00
Hosp. Co	onf.	1.25	/,	3.75		2.75
C) Student		8.25	4.50	6.50		5.00 19.25
III. Surgery		18.75	. 6.75	15.75	3.25	
- Pre and Po	st-On	1.00	.50	.25	: 3:25	44.50
Waiting		1		4.00	.25	2.00
IV. Reading		-				4.00
In-Transit		5.75	⊸ go_		1_50_	10.50
		.50	1.75	.75	25	3,25
Keals/Coffee	_ <u>-</u>	5.00	2.50	2.00	1.50	11.00
Sleeping		1.25	.25			1.50
· Errands		50	.75	.50	:	1.75
Miscellaneous	**	3.25.	2.75		; T.co.	~ · 7.60.
	TOTAL HOURS .	72.50	44.00	41.25	23,25	181.00

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ROTATION:	ORT	i T	}	ER		EŅT ·	CV-	nor.	GEH.	SURG.	70711
,		11 '	1	- 11	1	11	-1	1 11	1	1 1	-TOTAL
DESERVATIONS: PLANNED	1 4	-2	0	0, .	2	2 .	†			 	
- ACTUAL	4	0	1	i ,	2	0	5	 	7	4	27
TIME SPENT: 1. Patient Contact						-	 - ` - 	 -'-	6 .	7	26
<u>Admitting</u>	25		2.25			1	1	l .	1		,
Follow up	4.00	,	1.25	3.00	.75		1	50_`	1.50	10.75	15.2
11. Sch Group Act's.		-				1,-	1.50	1.50	4.25	'. 50	<u>'15.</u>
A) Work Rounds B) Vis Round's	3					,	3.25.	` `	.75	1.75	5.7
Hosp. Conf.	.75						1.25	.50	ų, į	1.00	,3.9
. C) Stud. Conf.	1.00				1.50	<u> </u>	2.75		1.50		6.
· *	3.00	-	2.00		.50		1.75		3.00	.75	
11. Surgery	13.25	<u> </u>		1.25	6.25		3.75	2 00	7		11.0
Pre and Post-Op	2,50	,		•				3.00	19.25	4.00	50.7
Walting ·						· .	.25	25		1.25	4.2
IV. Reading							-			1.75	1.7
In-Transit -	 		1:50	 ↓			1.00	,	3.50	9,25	15.2
Meals/Coffee	25						.25	.,25	50	. 75	2.0
Sleeples	1.50	}	.1.00	1.25	2.75		.75	1.00	2.75	5.25	16.2
<u>·</u>					•					i'	· - 4
Errands			· · ·	;		سنفند		i	25	50	
Miscellaneous	, 1.00	. 7	.75	2.50	2.75		11.25		.50	}-	.5
TOTAL HRS.	27.50		7.75					1.25	6.50	9.25	35.2
			7.721	8.00	14.50		27.75	8.25	44.25	46.75	184.75

באל בכיוואכן	•	•	•	_	
Adalsslon &	FERFORM	ASSIST hrs	ODSERVE hrs	D1SCUSS hrs	101AL H(\$ HOUE
History/Physical Exam	. 22.50	. 00'2	4.50	٠	29.00 (.26)
Procedures (diag/therap)	30.00	5.75	75		, 16.50 (.15)
Record Preparation	5.75	05	.25	. \$0	5.00 (.05)
Writing the Record	12.00	.75	The state of the s	, Take	12.75 (.12)
Fellow-up				×	
Selected Physical Exam	9.25	3.8	.75	1.25	12.26 (.11)
Procedures ,	9.75	5.25	5.75	2.75	(12.50 (121)
Record Keeping	11.75			Ŷ	(21.) 57.11
TOTAL HOUSE	9.80 (.7.)	15.25	(11.8)	(+0°)	110.75

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LEVEL OF RESPONSIBILITY

DISTACT					TOTAL MOURS!
ıfsston	PERFORM	ASSIST	OBSERVE	hrs	X 110URS
listory/Fhysical Erac	10.25	1.50	37.	,	12.50 (.15)
Procedures (diag/therap)	6.50	0.1	1.25		7.75 (.09)
tecord Preparation	2.50	55.		1.75	(.50 (.05)
Friting the Record	5.75	05.	.25	•	6.50 (.08)
loreup			•9		
Selected Physical Exam	5.75	2.00	3.00		10.75 (.13)
Procedures	15.25	7.80	5.25	99	26.00 (.33)
Accord Keeping	8.75	2.75	1.25	1.25	14.00 (.17)
TOTAL HOURS	. 53.75	15.00	13.75	3.50	64.00
S HOURS	5				

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LEVEL OF RESPONSIBILITY

PATIENT CONTACT			<i>-</i> .	•	•
Admission	PERFORM	ASSIST	- OBSERVE hrs	015cd55	TOTAL HOURS
History/Physical Exam	, 12.00		ζ		12.50 (.23)
Procedures (diag/therap)	• .50	.75			1.25 (.02)
Record Preparation	۶۲.				(10.) 21.
Writing the Record	5.50		١,.	^	\$.50 (.16)
Follow-up-				ŕ	
selected Physical Exam	.75	8.1	25.		2.00 (.9.)
Procedures	20.75	1.75	s.		23.00 (.43)
, •Recard Keeping	8.00	05°			(91.) 05.0
TOTAL HOURS/ \$ 100HS	48.25.	6.03 0.03 0.03	(1.01)		\$3.00

SITE- H FOTATION: TOTAL OBSERVATIONS: 27

LEVEL OF RESPOYSIBILITY

CONTACT		•		_	
iglssion .	PERFORM	ASSIST	OBSCRVE hrs	. DISCUSS	TOTAL HOURS/
History/Physical Exam	9.50		37.		10.25 (.36)
Procedures (diag/thorap)	. 25 .		د		(10.) 25.
Record Preparation	2.50			•	2.50 (.09)
Writing the Record	1.00				1.00 (.04)
los-up					n
Selected Physical Exam .	1.75	2.75	.25	-	4.75 (.17)
Procedures	4.50	1,75	1.25		7.50 (.27)
Record Keeping	2.00			·	2.00 (.07)
TOTAL HOURS/- /	21.50	4.50.	2.25	Ĭ	28:25

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VERBAL INTERACTIONS:	SURCEON	7:53X	2nd 1,837	KURSE >	ANES	OTHER	2 10141	OPERATING ROOM ACTIVITIES VERBAL INTERACTIONS:	SURGEON	ASS'T	2nd ASS:17	KURSE	YAES.	07468	
Initiated question to		22.	15'	-	J 6	=	(15.)	Initiated question to	34	26				• .	
Responded to sweet for from	= \	7	.		, u	ı	(21.)	Responded to question from	13	55 .				g Programmy	
Participated in discussion with	â	20	п	01	ì	, 2	(*;-)	Participated in discussion with	31	35	2	1.	1	u	
Responded to instructions from ~	29	16 -	,	~	· ·	ız į	65 (.20)	Responded to Instructions from	34	10	1		2		
TOTAL & LATER	(u.)	(81.) (83.)	(2) (2)	(.04)	(.07)	(35. (37.	, 332 ,	101/1 2 7 101/1	. (112	76 (.38)	·(.02)	(.01)	(.62) (.62)	(:0:)	
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SITE 4

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269)0 (.04)	(.03)	16	.10 (.63.) ' (16.)	50 (•19)	175 (.65)	107AL/ \$ 107AL.
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106 (.39)	9	*	10 .	u	. ~	S	Participated in discognion with
40 (.15)				J	6.	32 /	Responded to question from
(.26)	,	٦	ω	IJ	Ħ	ş3	Initiated question to
\$ 1014T	OTHER	ANES!	NURSE	2nd ASS'T	1st ASS'T	SURCEON	VERBAL INTERACTIONS: \$
			SERVATIONS	HUMBER OF OBSERVATIONS			, 1

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FIGURE 5

May 15, 1975

TO: Phase 3 Surgical Clerks

FROM: Clerkship Directors of the Department of Surgery:
Drs. Frederick S. Cross, Ralph G. DePalma, Brown
M. Dobyns, Kent H. Johnston, James C. Jones, Jerry
S. Wolkoff

At the request of the Clerkship Directors of the Department of Surgery and the Dean for Medical Education of the School of Medicine, a surgical clerkship study is being undertaken by the Division of Research in Medical Education. As part of this study, we are asking you to complete the enclosed task and activity inventory.

The Clerkship Directors of the Department of Surgery have identified those tasks and activities which might be experienced in the surgical clerkships. The information provided by this inventory will help determine if the surgical clerks at the four training sites participated in these experiences. This inventory does not imply that each clerk will have performed or even participated in all of these activities. Its purpose is to assess the clerkship experience, not the student. Each hospital will be identified. The students may remain anonymous if they do not wish to sign the inventory.

Please use the answer sheets provided to record your responses to the items. The answer code is indicated on each page of the inventory. Answer sheet No. 1 is to be used for Items 1 through 100; answer sheet No. 2 is to be used for Items 101 through 196. Please return the answer sheets to the Director of your clerkship.

If you have any suggestions for the improvement of the surgical clerkship, please write them on the blank sheet provided.

Thank you for your invaluable assistance.

FSC/RGD/BMD/KHJ/JCJ/JSW/rl

Case Western Reserve University School of Medicine Department of Surgery SURGICAL CLERKSHIP ACTIVITY/TASK INVENTORY

Use answer sheet No. 1 for Items 1 - 100 DIRECTIONS: For Items 1 through 9 answer "A" if you experienced the activity in your surgical clerkship; or, "B" if you did not

experience the activity. Blacken the space under the selected

letter on the answer sheet.

A = experienced the activity B = did not experience the activity

- 1. Participate in teaching rounds
- Participate in work rounds
- Attend grand rounds
- Attend special student-oriented conferences
- Suggest topics for classes/conferences
- 6. Present reports in conferences
- Read/review general medical literature
- 8 Research literature concerning a particular patient's, problem
- Confer with peers or M.D.'s on patient management

DIRECTIONS: Use the key outlined below to report your experience in your surgical clerkship with each of the following tasks. Select the category which describes how you most commonly participated. Blacken the space under the selected answer on the answer sheet. Select

A = No experience

B = Only observed

C = Only assisted

P = Observed and assisted

E = Observed and performed with supervision

F = Assisted and performed with supervision

G = Observed, assisted and performed with supervision

H = Performed with supervision Ğ,

I = Performed without supervision

- 10. Obtain and record medical/surgical history
- 11. Make entries on medical records
- Plan/modify diagnostic procedures according to patient's response/need
- Assess patient's general appearance