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The manual provides major topics, objectives, activities and, procedures, references and materials, and assignments for the training program. The topics covered are hospital organization and community role, organization and management of a medical records department, international classification of diseases and operations, medical terminology, legal aspects, standards, education and training, and data processing. (The Instructor's Guide for the training program is available as LI 003097). (AB)

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COURSE OF STUDY

MEDICAL RECORD CLERK TRAINING PROGRAM

STUDENT MANUAL

For Medical Record Personnel in Small Rural Hospitals in Colorado

September 1971

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INTRODUCTION



OBJECTIVES OF THE TRAINING PROGRAM FOR MEDICAL RECORD CLERKS

The purpose of the training program for medical record clerks is to impart basic knowledge to and develop the skills of medical record personnel who work in small rural hospitals so that they may better perform the technical tasks associated with the maintenance and custody of medical records. A second purpose of the program is to develop an attitude in trained medical record clerks which will lead to more constructive relationships with the medical staff and administrators.

Hospital. Specific training goals for the clerk in the understanding of the basic principles of hospital organization are:

- 1. To understand the structure, functions, and interdepartmental relationships of hospital organization.
- 2. To know the standards and requirements of inspecting, certifying, and accrediting bodies and agencies.

Medical Record Department. The specific training goals for the clerk in understanding the functions of the medical record department are:

- 1. To understand the basic principles of organization and management of a medical record department.
- 2. To understand the component parts of a medical record--content of medical records and forms.
- 3. To evaluate quantitatively a medical record for completeness, consistency of information and accuracy, and the discharge analysis.
- 4. To understand basic medical terminology and anatomy to facilitate transcription of medical dictation.
- 5. To code diagnoses and operations according to SNDO and ICDA.
- 6. To organize and maintain all necessary indices including diseases, operations, physicians, and patients.
- 7. To use systems of identification, numbering, and filing to insure prompt location of a patient's medical record.
- 8. To understand how to develop meaningful hospital statis-



- 9. To perform secretarial duties, including correspondence, committee meeting minutes, reports, and memoranda.
- 10. To know medico-legal aspects of medical records.

Personal Knowledge. The specific training goals for the clerk are:

- 1. To practice good interpersonal relationships with physicians and other hospital personnel.
- 2. To seek continuous educational training in medical record library science.

TOPICAL OUTLINE OF TRAINING PROGRAM FOR MEDICAL RECORD CLERKS

- I. Hospital Organization and Community Role -- 2 Hours
 - A. Health as a Community Affair
 - B. Internal Hospital Organization
- II. Organization and Management of a Medical Record Department-9 Hours
 - A. Hospital Organization and Management
 - B. Medical Record Department
 - C. Tour of Medical Record Department
 - D. Secretarial Services
- III. Basic Filing Systems -- 2 Hours
 - A. Filing Arrangement
 - B. Four Required Indices Maintained in Medical Record Department
 - C. Patient Index
 - D. Method of Filing of Medical Record Folder
 - IV. International Classification of Diseases and Operations--
 - A. What is ICDA?
 - B. Content of Code Book, Volume I
 - C. Coding Problems
 - D. Coding Problems on Operations
 - V. Standard Nomenclature of Diseases and Operations -- 16 Hours
 - A. Purposes for Using a Disease and Operation Nomenclature
 - B. Dual System of Coding
 - C. Derivation of Code Numbers
 - D. Supplementary Terms
 - E. Presentation of Examples and Exercises
- VI. Medical Terminology--18 Hours
 - A. Word Building
 - B. Drill Using Programmed Text
 - C. Classroom Drills and Reviews



VII. Basic Human Anatomy -- 8 Hours

- A. Introduction
- B. Regions and Landmarks of the Body
- C. The Brain
- D. The Heart
- E. Circulation
- F. Tracheobronchial Tree
- G. Gastrointestinal Tract
- H. The Spleen
- I. Kidneys
- J. Endocrine Glands
- K. Pelvis
- L. Lymphatic System
- M. Blood

VIII. Content of Medical Records--14 Hours

- A. Requirements and Content of Each Type of Record
- B. Special Records
- C. Content of Medical Records

IX. Discharge Analysis -- 4 Hours

- A. Daily Analysis of Hospital Service
- B. Content of Medical Records
- C. Practical Exercises

M. Hospital Statistics -- 11 Hours

- A. What Are They?
- B. How Are They Gathered?
- C. What Information Is Needed by Whom?
- D. Analysis of Hospital Service
- E. Computations

XI. Ethics for Medical Records Personnel -- 1 Hour

- A. Medical Record Librarian as a Profession
- B. Code of Ethics
- C. Role Playing

XII. Legal Aspects of Medical Records -- 2 Hours

- A. Legal Aspects
- B. Definitions
- C. Purpose
- D. Areas of Law to Be Considered

- XIII. Standards and Requirements of State, Medicare, and Joint Commission -- 6 Hours
 - A. Certification and State Licensure
 - B. Medicare Survey
 - C. Physician's Responsibility for Good Medical Records
 - D. Joint Commission on the Accreditation of Hospitals
 - XIV. Education and Training -- 1 Hour
 - A. Changing Pattern of Medical Care
 - B. Educational Opportunities for Medical Record Librarians
 - C, Membership in American Association of Medical Record Librarians
 - XV. Data Processing -- 1 Hour
 - A. Punched Card Accounting
 - B. Need for Common Language in Medical Records

HOSPITAL ORGANIZATION AND COMMUNITY ROLE

HOSPITAL ORGANIZATION AND COMMUNITY ROLE

I. Topic: Hospital Organization and Community Role.

II. Objectives:

- A. To orient the student to the nature and organization of the hospital.
- B. To orient the student to the role of the hospital in the community.
- III. Activities and Procedures: Lecture.
 - IV. Materials and Bibliography:

Tapes of lectures available.

American Hospital Association, <u>Guide to the Organization</u> of a <u>Hospital Medical Record Department</u>, American Hospital Association, Chicago, 1962.

Amicarella, Henry, "Internal Hospital Organization," National Center for Audio Tapes, University of Colorado, Boulder.

Cunningham, Robert M., The Modern Hospital, McGraw Hill, Chicago, 1968.

Darley, Ward, and Somers, Anne R., "Medicine, Money, and Manpower--the Challenge to Professional Education," New England Journal of Medicine, 276:1234-1238, June 1, 1967.

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National Commission on Community Health Services, Comprehensive Health Care, A Challenge to American Communities, Public Affairs Press, Washington, D.C., 1967.

National Commission on Community Health Services, Health Is a Community Affair. Harvard University Press, Cambrdige, 1966.

V. Assignments: None.

HEALTH AS A COMMUNITY AFFAIR

- I. What is a health care system?
 - A. A process which a person goes through to take care of health problems, e.g., seeing a doctor or a dentist.
 - B. A process which provides for people not seeking it, e.g., fluoridation of water, air pollution control.
 - C. In the care system are all kinds of hospitals, e.g., private, government.
 - 1. All have different rules for physicians to follow.
 - 2. There are great differences in small town hospital and large city clinic.
 - D. System provides educational opportunities for the growing number of health workers and professionals.
- II. Health care system is complex.
 - A. Six basic areas are:
 - 1. Doctors
 - 2. Ambulance service
 - 3. Preventive medicine
 - 4. Manpower
 - 5. Facilities
 - 6. Services
 - B. A system is a set or arrangement of things so related as to form a unified or organic whole.
 - C. Education of health manpower is related to services, and services are related to facilities.
 - It is not a one-to-one relationship, but one of complex relationships.
 - 2. As a system, the separate units have great potential.



- 3. Careful planning is required to insure that the system will operate.
- 4. A community hospital could provide the leadership needed to make the system work in a given geographic area.

III. Community hospital.

- A. Could provide the leadership to make health care a community affair.
- B. This is because the hospital is the hub of the community health care wheel.
- C. The other parts of the system make up the spokes of the wheel so all must be operating for the system to work.
- D. In addition to providing care for patients, the community hospital should have a comprehensive health care program for the community it serves.
 - 1. New methods of financing health care are helping hospitals service communities, e.g., home health service and extended care outside of hospital.
 - 2. Boards of directors are made up of people with only limited interest (political or social) in problem; hence, they are poorly informed about the changing role of the hospital.
 - 3. Role of the hospital board is changing. It should look for new ways for the hospital to serve the community. It should be a social architect for the future of the hospital.
- IV. A comprehensive program would guarantee the services of specialists and range beyond a single illness, and would include preventive care, maintenance of good health, rehabilitation of good health after illness.
 - A. Health services to be comprehensive must not be limited by geography, by ability to pay, and by social class. Accessibility and continuity are important components of a good system.
 - B. Group practice can provide an effective and efficient method of furnishing comprehensive medical care of good quality. This must include needed medical specialties and health services.



- C. Need full range of health manpower, e.g., nurses, social workers, physical and occupational therapy, health aid service, nutritional service, laboratory support, specialists.
- D. Must be able to draw upon every resource known to scientific medicine. In small communities there is a danger of duplicating experience and infrequently used facilities and personnel. Medical self sufficiency must be regionally based.
- E. Must be able to deliver health care to anyone who needs it in the most efficient and economical manner.
- V. Factors involved in comprehensive health care program
 - A. It is an individual responsibility for using health resources.
 - B. Community has collective responsibility for developing organized and continuing educational program. It is responsibility of personal physician to direct person to the integrated program.
 - C. Group practice of medicine is a way of integrating services of physicians.
- VI. What is being done about planning?
 - A. Congress has passed bills promoting health planning.
 - B. We are beginning to look at health care as a whole.

 There is a concern with how various aspects of health care may be coordinated or integrated.



INTERNAL HOSPITAL ORGANIZATION

- I. Personnel is key to good hospital administration.
 - A. The more knowledgeable personnel are the better job is done.
 - B. There is a need for good human relations.
 - C. There is a need for good community relations.
- II. Basic job of the hospital is to care for the sick.
 - A. Regardless of size or kind, all hospitals have some things in common.
 - B. There is a business side and a professional side to the operation of every hospital. Sometimes these are in conflict.
- III. Types of hospitals.
 - A. Government hospitals -- federal and non-federal (36% of the hospitals).
 - B. Voluntary, non-profit hospitals (50% of the hospitals).
 - C. Proprietary hospitals are operated for profit.
 - 1. About 14% of the hospitals.
 - 2. Closed corporations -- owned by doctors, etc.
 - D. Short and long term hospitals.
 - Short term hospitals where people spend only a few days or weeks.
 - 2. Long term hospitals which are for special problems, e.g., T.B. or mental cases.
 - IV. Administrative services of hospitals are broken into two areas.
 - A. General services, such as, administration, maintenance.
 - B. Special services like X-ray, laboratories, operating room.



- V. Programs for hospital regulation.
 - A. Joint Commission for Hospital Accreditation-hospital of over 25 beds.
 - B. Licenses--issued by State Department of Public Health.
 - C. Agencies approving schools:
 - 1. Nursing school
 - 2. Interns in residence
 - 3. X-ray technicians, etc.

VI. Governing boards of hospitals.

- A. Organization of the board varies with the type of hospital.
- B. Non-profit, voluntary community hospital has a Board of Trustees or Directors, members of which are not paid.
- C. Legal responsibility for operation of hospital rests here.
- D. Board makes policy for the hospital.
- E. The hospital administrator is charged by the board to put the policies into operation.
- F. Board has a number of committees to handle special problems; e.g., Executive Committee, Maintenance Committee, Finance Committee.
- G. Board operates on its own bylaws which are in its charter.

VII. Medical staff.

- A. They are concerned with the care of patients.
- B. They have their own governing boards and committees.
- C. Many hospitals have a joint committee to handle problems between medical staff and hospital administration.



- VIII. Operation of hospital administration is broken down into departments.
 - A. Medical Records is one department.
 - B. Head of Medical Records is appointed by the hospital administrator.
 - C. Even in a small hospital the work needs to be broken down into functional parts and assigned to different administrative areas.
 - D. There should be job descriptions, written administrative procedures, recognized lines of authority, and lines of communication.

IX. Staff qualifications.

- A. There are certification requirements for hospital positions.
- B. All hospitals should be concerned with getting qualified people. This is a difficult problem because they offer only limited career potential.
- C. In-service programs are needed constantly to bring personnel up to qualifications and keep them there.



ORGANIZATION AND MANAGEMENT OF A MEDICAL RECORDS DEPARTMENT



- /.

HOSPITAL ORGANIZATION AND MANAGEMENT

- I. Topic: Hospital Organization and Administration.
- II. Objective: To provide some basic knowledge on organization and administration of hospital as it relates to the over-all management and operation and relationships between Board of Governors, Administration, Medical Staff, Departments, Employees, and Community.
- III. Activities or Procedures: Lectures, discussion, questions and answers, tests, role playing, and problem solving.
- IV. Materials, Resources, and Bibliography: Topic outline of lecture, own experience. Reading references-books and publications:

MacEachern, Malcolm T., <u>Hospital Organization</u> and <u>Management</u>--2nd Ed., Physicians' Record Co., Chicago, 1947.

Huffman, Edna K., <u>Manual for Medical Record</u>
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Cunningham, Robert M., The Modern Hospital, McGraw Hill, Chicago, 1968.

Hospital Management (The News and Technical Journal of Administration), Chicago.

Film: "Department Manager," Mountain Plains Educational Media Council Film Catalog, University of Colorado, Boulder, 30 min.

V. Assignments: None.

HOSPITAL ORGANIZATION AND MANAGEMENT

I. Hospitals.

- A. Purpose.
- B. Hospital classifications by ownership and control-(Special and Professional; Business and General; Facilities and Services--laboratory, X-ray, physical therapy, pharmacy, etc.).
- C. Approvals -- Standards and Licensure; Accreditation; Licensing and Reporting; Third Party Contracts; Schools.
- D. Internal Organization -- Corporation; Association; Board of Governors; Administration; Departments, Sub-units; Medical Staff.
- E. External Organization -- Affiliation and relationships with other community organizations and activities.

II. Governing Board (Board of Directors, Trustees).

- A. Purpose, size, qualification and membership; selection.
- B. Duties and Responsibilities.
- C. Relationships of Board to Administration, Staff, and Community.
- D. Officers and Committees.

III. Administration.

- A. Duties and Responsibilities.
- B. Relationships to Board, Medical Staff, Departments, and Community.
- C. Volunteers and Community.

IV. Departmental.

- A. Classifications in Professional, Special Services, Administrative, and General.
- B. Department Heads and Supervisors.
 - 1. Duties and Responsibilities.
 - 2. Departmental relationships.



V. Medical Staff.

- A. Organization, Duties, and Responsibilities.
- B. Relationship to Board, Administration, Departments, and Community.
- C. Functions of Medical Staff.
- D. Appointment qualifications and membership on medical staff.
- E. Medical Staff organization.
 - 1. Categories of medical staff.
 - 2. Departments, Committees, and Tifficers.

VI. Hospital Auxiliary (Volunteers).

- A. Organization and primary purpose.
- B. Relationship with Board, Administration, Staff, Departments, and Committees.

VII. Policies and Procedures.

- A. Importance -- Duties, responsibilities, authority, lines of communication control, efficiency of operation, planning, effective relationships, successful end results.
- B. Down the Line--Board to Employee (for better communication, understanding, efficient operation towards hospital objective, good patient care).

ORGANIZATION AND MANAGEMENT

(outline for students)

A. Hospital Organization.

- 1. Governing Board.
 - a. Rule of hospital.
 - b. Purpose
 - c. Size and composition.
 - d. Responsibilities.
 - e. Meetings.
- 2. Hospital Administrator.
 - a. Authority delegated by Governing Board.
 - b. Duties and responsibilities.
 - c. Good leader.
- 3. Medical Staff.
 - a. Primary concern.
 - b. Types of Staff.
 - 1. Open staff.
 - 2. Closed staff.
 - c. Staff appointments.
 - d. Organization.
 - e. Review of work.
 - f. Research.
 - g. Chairman.
 - h. Meetings.
 - i. By-laws.
- 4. Departments of the Hospital.
 - a. Existence.



- b. Delegation of authority to supervisor.
- c. Organization.
- d. Purpose.
- 5. Organization Chart (hospital) Illustration.
- B. Medical Staff Committees.
 - 1. Executive Committee.
 - a. Size and composition.
 - b. Meetings.
 - c. Dutles.
 - 2. Credemtials Committee.
 - a. Size and composition.
 - b. Meetings.
 - c. Duties.
 - 3. Joint Conference Committee.
 - a. Size and composition.
 - b. Meetings.
 - c. Duties.
 - 4. Medical Record Committee.
 - a. Size and composition.
 - b. Meetings.
 - c. Duties.
 - 5. Medical Audit Committee.
 - a. Size and composition.
 - b. Meetings.
 - c. Duties.
 - 6. Infection Committee.
 - a. Size and composition.

- b. Meetings.
- c. Duties.
- 7. Tissue Committee.
 - a. Size and composition.
 - b. Meetings.
 - c. Duties.
- 8. Utilization Committee.
 - a. Size and composition.
 - b. Meetings.
 - c. Duties.
- 9. Questions from Students.

End of First Hour

- C. Interdepartmental Relations.
 - 1. Understanding Functions of Hospital.
 - a. Primary reason for existence of hospital.
 - b. Education and training.
 - c. Medical research.
 - 2. Responsibility of Hospital Administrator.
 - 3. Responsibility of Medical Staff.
 - 4. Harmonious Existence with Other Departments.
 - 5. Hospital Departments.
 - a. Admitting Department.
 - (1). Medical record begins here.
 - (2). Understanding of both departments necessary.
 - b. Nursing Service.
 - (1). Importance of good nursing notes.
 - (2). Medical record department made known to nurses.



- c. Climical Laboratory and Pathology.
 - (1). Laboratory reports filed with record.
 - (2). Delinquent pathology reports.
 - (3). Control for autopsy reports.
- d. Surgery and Anesthesiology.
 - (1) Operative report.
 - (2). Anesthesia report or record.
- e. X-rmy or Radiology Department.
 - (1) X-ray reports filed with record.
 - (2). In small hospitals problems may result.
- f. Physiotherapy Department.
 - (1). Physiotherapy reports filed with record.
 - (2). No existing problems.
- g. Dietetics.
 - (1). Dietetics reports filed with record.
 - (2). No existing problems.
- h. Medical Library.
 - (1). Combined with medical record department.
 - (2). Separate departments.
- 1. Business Services -- Accounting, Purchasing, Supply.
 - (1). Contact with these departments.
 - (2). Budget responsibility.
 - (3). Equipment for department.
 - (4). Other supplies.
- j. Maintenance and Housekeeping.
 - (1). Cleaning and upkeep of department.
 - (2). Maintenance and safety hazards.
- k. Contact with Other Departments.



- D. Film Strip.
- E. Recep of Session (2 Hours).

End of Second Hour

- F. Organization and Management of Medical Record Department.
 - 1. Emetions of medical record department.
 - Specific functions.
 - E. Over-all functions.
 - ... Medical records established for:
 - (1). Patient.
 - (2). Hospital.
 - (3). Physician.
 - (4). Research.
 - 2, Organization -- effective tool of management.
 - a. Definition.
 - Four types of organization.
 - (1). Line organization.
 - (2). Staff organization.
 - (3). Line and staff organization.
 - (4). Functionalized organization.
 - c. Functionalized organization -- medical record department.
 - 3. Management -- definition.
 - a. Department managed in accordance with hospital policies.
 - b. Good leadership of supervisor.
 - 4. Medical Record Librarian -- second level of management.
 - Supervisory knowledge and skills.
 - b. Technical knowledge and skills.
 - e. Boss or leader.



- 5. Organizational Charts.
 - a. Position (illustrate).
 - b. Function (illustrate).
 - c. Organizational charts displayed.
- 6. Work Flow.
 - a. Straight-line.
 - b. Study of work flow.
 - c. Work simplification.
 - (1). Selection of operation to be studied.
 - (2). Write down steps.
 - (3). Question steps.
 - (4). Place into operation.
 - (5). Select best method.
- 7. Definition of a Job.
 - a. Requirements.
 - b. Job analysis.
 - c. Evaluation of each job analysis.
- 8. Job description.
 - a. Definition.
 - b. Steps to follow when writing job description (illustrate).
- 9. Procedure Manual.
 - a. Definition.
 - b. Invaluable tool in department.
 - c. Result in uniformity of department.
 - d. Use as teaching method.
 - e. Procedures stated clearly and specifically,
 - f. Difference in procedure manuals.
 - g. Each employee should have copy of manual.



- h. Employee's help enlisted when compiling manual.
- i. Manual kept up to date.
- 10. Selection of Personnel.
 - a. Probably no medical record experience.
 - b. Best available candidate.
- 11. Training of Personnel.
 - a. Simple task.
 - b. Steps in training new employee.
- 12. Location of Medical Record Department.
 - a. Ideal location.
 - b. Functions centralized.
 - c. File room.
 - d. Accessible area.
- 13. Physical layout.
 - a. Adequate space.
 - (1). Requirements for each worker.
 - (2). Access to aisle space.
 - (3). Transcription area.
 - (4). Space for physicians completing records.
 - b. Adequate lighting.
 - c. Use of color.
 - (1). Good color scheme.
 - (2). Departments with no windows.
 - (3). Problem windows.
 - d. Tile floor or carpet.
 - e. Employees involved in plan of department.
 - f. Equipment.
 - (1). List of necessary equipment.



- (2). Filing equipment -- medical records.
- (3). Filing équipment--indices.
- (4). Filing equipment -- if microfilming is done.
- (5). Other equipment and supplies.
- (6). Telephones.
- (7). Equipment contributing to efficiency.
- g. Expansion of department.
 - (1). Adequate space in building or expansion plans.
 - (2). Expansion thought of in terms of ten years.
- 14. Good organization of Medical Record (chart).
 - a. Waste of paper.
 - b. Convenience of physician.
 - c. Decision for use of forms prerogative of hospital.
 - d. Uniformity of forms in all hospitals in some communities.
 - e. Record forms committee.
 - f. Forms numbering systems.
 - g. Records kept simple--follow steps.
- 15. List of appropriate books for department or hospital:
 - a. Directory, American Medical Association.
 - b. Guide Issue of the American Hospital Association.
 - c. Five Basic Publications of Joint Commission on Accreditation of Hospitals, JCAH, 645 North Michigan Ave., Chicago, Illinois, 60611.
 - d. Hospital Accreditation References, AHA, 840 N. Lake Shore Drive, Chicago, Illinois, 60611.
 - e. <u>Hospital Organization and Management</u>, by Malcom T. MacEachern, M. D., Physician's Record Company, 3000 So. Ridgeland Ave., Berwyn, Illinois, 60402.
 - f. International Classification of Diseases Adapted,
 Vols. 1 and 2, United States Department of Health,
 Education, and Welfare, Public Health Service, U. S.
 Government Printing Office, Washington, D. C.



- g. Legal Aspects of Medical Records, by Hayt and Hayt, Physician's Record Co.
- h. Manual for Medical Record Librarians, by Edna K. Huffman, Physician's Record Co.
- i. Standard Nomenclature of Diseases and Operations, by Edward T. Thompson and Adaline C. Hayden, American Medical Association, Chicago, Illinois.
- G. Problems for Discussion.
- H. Re-cap of Session (last 2 hours).
 - 1. Questions from Students.
 - 2. Any Further Discussion.
- I. Assignment: Guide to Organization of a Hospital Medical
 Record Department, American Hospital Association,
 Chapter 1, Basic Principles; Chapter 2, Location
 and Facilities; and Chapter 6, Medical Record
 Forms.

Before our second week session read:

<u>Manual for Medical Record Librarians</u>, Huffman,
Edna K., Chapter XV, Organization and Management of a Medical Record Department.



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ORGANIZATION AND MANAGEMENT OF MEDICAL RECORD DEPARTMENT

- I. Topic: Organization and Management of Medical Record Department
- The objectives of this lesson are to acquaint II. Objective: the student with organization and management of the medical record department. To do so, we will first study hospital organization, organization of medical staff and staff committees, and interdepartmental relationships. We will then study the organization of the medical record department including responsibility and place of the department in relation to the hospital as a whole, responsibilities of the medical record librarian, operations performed in the department, selection, training, and supervision of personnel, layout of department, physical location, and equipment utilized. The student will be given time for discussion of these items. At the end of the session, the student should have acquired basic understanding of hospital and medical record department organization.
- III. Activities or Procedures: Lectures, discussion, field trip; role playing, questions and answers, tests.
 - IV. Materials, Resources, and Bibliography: Lecture outline, hospital facility, references:

Air Force Manual 50-20, <u>Guide for Supervisors</u>, Department of the Air Force, Washington, D.C., 1955.

Air Force Manual 25-1, The Management Process, Department of the Air Force, Washington, D.C., 1954.

American Hospital Association, <u>Guide to the Organization of a Hospital Medical Record Department</u>, AHA, Chicago, 1962.

Bachmeyer, Arthur C., The Hospital in Modern Society, The Commonwealth Fund, New York, 1943.

Goldwater, Sigismund S., On Hospitals, The Macmillan Co., New York, 1947.

Huffman, Edna K., <u>Manual for Medical Record Librarians</u>--5th Ed., Physician's Record Co., Chicago, 1963.

MacEacher, Malcolm T., Hospital Organization and Management, Physician's Record Co., Chicago, 1957.



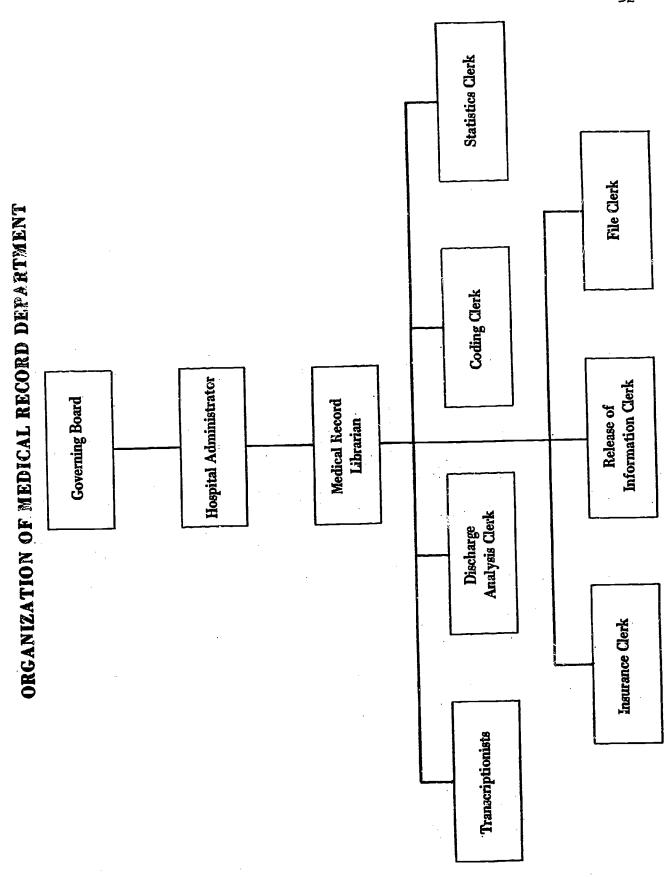
v. Assignments:

Guide to Organization of a Hospital Medical Record Department, American Hospital Association, Chs. 1, 2, and 6.

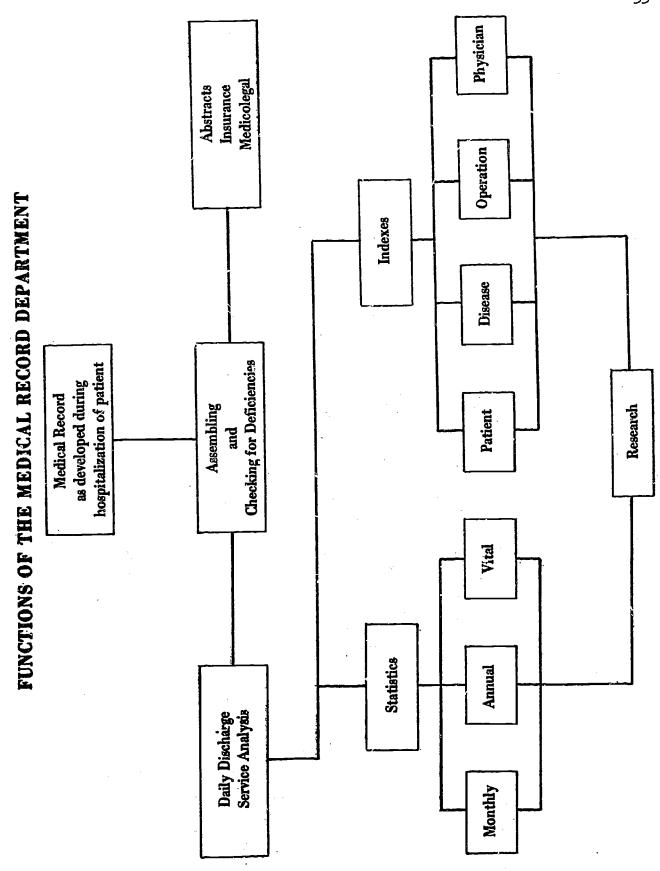
Manual for Medical Record Librarians, Huffman, Ch. XV.



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FORMS FLOW CHART

ROUTE OF COMPONENT PARTS OF THE MEDICAL RECORD PRIOR TO DISCHARGE OF THE PATIENT

Admitting Department

Clinical Laboratory

X-ray Department

Outpatient records

Attending physician (history and physical, notes, orders, diagnosis, results, signature)

Consultants

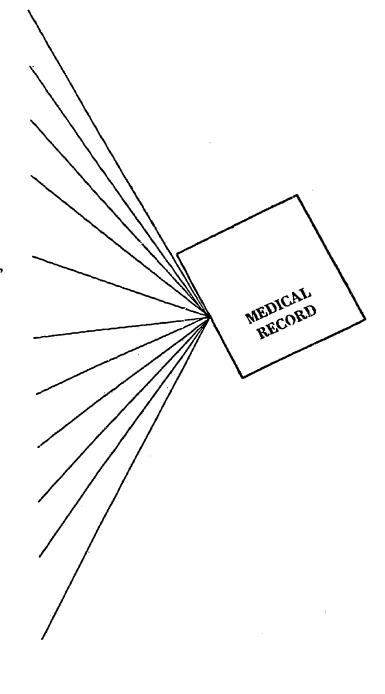
Surgical reports

Anesthesia

Pathology

Physiotherapy

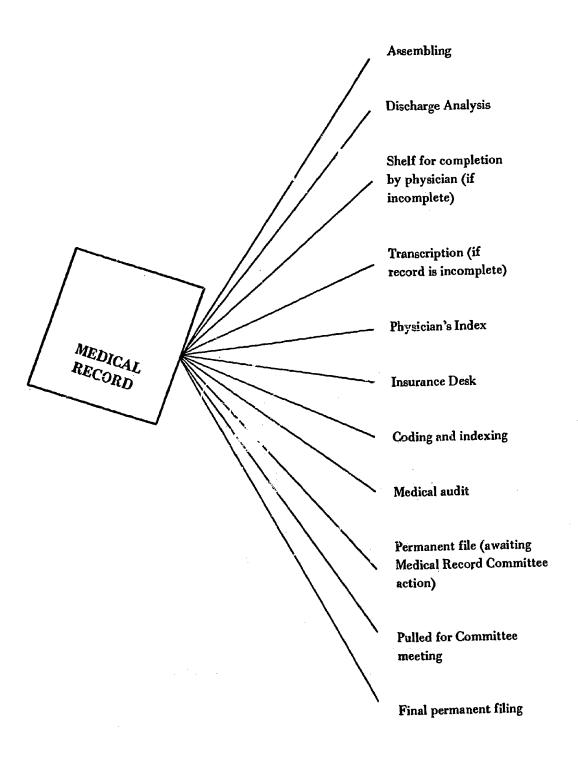
Nurses (temperature-pulserespiration charts, nurse's notes)





WORK FLOW CHART

ROUTE OF THE MEDICAL RECORD AFTER DISCHARGE OF THE PATIENT





JOB DESCRIPTION

OCCUPATION:

Supervisory Medical Record Clerk.

SUMMARY:

Works under the supervision of the hospital administrator. She is guided in her functions by the Medical Record Committee and a consultant medical record librarian, if available.

WORK TO PERFORM:

Using initiative and independent judgment and having a thorough knowledge of work involved, performs any or all of the following duties:

- 1. Assures that all medical records are accounted for by checking daily patient census.
- 2. Assembles medical records of discharged patients in proper order.
- guantitatively analyzes the component parts of medical records to insure completeness and accuracy according to the requirements of the accrediting bodies. If discrepancies exist, completes a deficiency check list and returns record to physician concerned. If case remains questionable, after reevaluation, refers record to Medical Record Committee for final decision.
-)+. Prepares daily, monthly, and annual statistical reports based on discharge analysis.
- 5. Transcribes dictated medical reports to be incorporated with medical record. May also be required to transcribe medical correspondence for physician.
- 6. Abstracts, from medical records, information for release to insurance companies, other hospitals, and physicians. She must apply a good working knowledge of what is appropriate for release and which records are not for general knowledge.
- 7. Assigns appropriate diagnostic and operative codes from either the Standard Nomenclature or the International Classification of Diseases Adapted.



- 8. Maintains the following indexes:
 - A. Patient Index (Master File)
 - B. Disease Index
 - C. Operative Index
 - D. Physicians' Index
- 9. Maintains a filing system which assures rapid location of records.
- 10. Be familiar with the objectives and functions of the Medical Record Committee, and be prepared to assist and have available medical records for review and any other necessary information.
- May be required to coordinate the medical record department and the medical library.

DESCRIPTION OF PERSONAL REQUIREMENTS:

- l. Requires good memory for a quantity of detailed work.
- Requires good working knowledge of hospital medical records and the significance of accurate records.
- 3. Must be aware of and practice ethics, including medico-legal aspects, involved in the handling of all medical records.
- 4. Must be able to type 60-70 words a minute accurately.
- Must be able to file accurately, whether it be numerically or alphabetically.
- 6. Shorthand is desirable but not a requirement for this position.
- 7. Must possess a well-rounded personality, ability for leadership, persistency, accuracy, cooperativeness, progressiveness, persuasiveness, decisiveness, and good judgment.



PROBLEMS FOR DISCUSSION

 I can not delegate some of my responsibilities to my subordinates as that will weaken my position and cause it to be reduced in importance. Discuss:

2. Susic is a good worker but argues each time she is asked to do something. Eventually, she does a good job but wastes valuable time each time she starts a new procedure. How would you handle this employee?

3. Jane has been working in the medical record department for six months. She is doing medical transcription, mainly histories and physicals. As this is a small town, she knows many of the patients. She is doing well in her job but is very tempted to discuss the ills of the patients with others outside the hospital and indeed has done so. You, as the supervisor, become aware of this, hearing about it from someone outside the hospital. What would you do?



ROLE PLAYING

- I. Action Situation: Medical Record Department Duties and Work Flow.
 - A. Objective.
 - Medical record functions to be accomplished within time limits <u>daily</u>.
 - 2. Application of knowledge.
 - B. Roles.
 - l. Leader (medical record librarian?).
 - 2. Other medical record personnel.
 - C. Action.
 - 1. Patient admission procedure.
 - a. Admit and admission register.
 - b. Master file cards.
 - c. A & D sheets all procedures.
 - d. a.m. census.
 - 2. Admission record procedure.
 - a. Folders.
 - b. Forms setup, etc.
 - 3. Patient floor medical record activity.
 - 4. Discharge procedure.
 - a. Receiving records.
 - b. Assembling and analysis quantitative.
 - Discharge analysis and posting to all indices and registers.
 - d. Routing records.
 - e. Rechecking for completion.
 - f. Coding and indexing.
 - g. Filing.



- 5. Various processes with discharged records.
- 6. Various duties within department.
- 7. Records pulled to leave department of use in department.
- 8. Procedure manual, policy manual, time and motion studies, all work for day to be finished within day.
- 9. Month-end statistics.
- II. Action Situation: Relationship with Medical Staff.

A. Roles.

- 1. Medical Record Librarian Miss Quick.
- 2. Chief of Medical Staff Dr. M. Rude.
- 3. Medical Staff Member Dr. I. B. Mean.
- 4. Chairman of Medical Record Committee Dr. R. Smar
- 5. Administrator Mr. M. Fairly.
- 6. Chairman of the Governing Board Mr. J. Graves.

ACT I: Medical Record Department

ACT II: Administrator's Office

B. Problem.

Chief of Staff - Dr. M. Rude: 50 incomplete records dating back to 1967.

and
Medical Staff
Member - Dr. I. B. Mean: 100 incomplete records
dating back to 1966.

and
Chairman of Medical Records
Committee - Dr. R. Smart: 3 incomplete charts, recent
discharges.

C. What to do?

III. Action Situation: A Day in Medical Record Department.

Everything Seemed to Go Wrong.

Relationship with Other Departments.

Test of Medical Record Librarian.



A. Roles.

- 1. Medical Record Librarian,
- 2. Administrator.
- 3. Admissions Office Person.
- 4. Director of Nursing.
- 5. Laboratory Technician.
- 6. X-ray Technician.
- 7. Chief of Staff.
- 3. Janitor.
- 9. Hospital Attorney.
- B. Problem -- the events of the day in the department.
 - Admitting office skipped 100 numbers in assigning numbers to patients—discovered two days later.
 - 2. Nurse on floor refuses to let medical record department have records of patients discharged for last four days because physicians want to keep them to finish.
 - 3. Laboratory technician brings in reports (100 in number) held until patient discharged.
 - 4. Chief of staff requests a patient record of another physician.
 - Janitor cleaning department at night read records on his wife who is under psychiatric care.
 - 6. Hospital attorney requested all patient records admitted for automobile accident cases be sent to his office.
 - 7. X-ray technician rubber stamping radiologist's X-ray reports as ordered by visiting radiologist.
 - 8. Administrator took day off.
 - 9. Medical record librarian has a headache!
 - C. What to do?



- IV. Action Situation: Research in Hospital,
 - A. Roles.
 - 1. Medical Record Librarian.
 - 2. Medical Staff Membor Dr. C. U. Gross.
 - 3. Administrator.
 - B. Place--Medical Record Department.
 - C. Problem -- Dr. Gross has decided to do some research.
 - 1. Appendectomy cases of pregnant women.
 - 2. Gallbladder studies in patients over 50 years of age.
 - 3. Dr. Gross <u>DEMANDS</u> records tomorrow.
 - D. What to do?

BASIC FILING SYSTEMS



BASIC FILING SYSTEMS

- I. Topic: Basic Filing Systems and Arrangements Used in Medical Record Departments.
- II. Objectives: The objectives of this lesson are to acquaint the student with filing systems used in medical record departments, why such systems are used, and to afford opportunity for practice in filing arrangements, both alphabetical and numerical. At the end of this two-hour session the student should be acquainted with these various filing systems and begin to understand which system would best fit his respective hospital. (The student will have an opportunity to further discuss individual needs in afterclass hours and/or with the consultant.)
- III. Activities and Procedures: Lesson Presentation.
 - A. Filing arrangements.
 - 1. Alphabetical.
 - 2. Numerical.
 - B. Four required indices maintained in medical record department.
 - 1. Patient index.
 - 2. Physicians' index.
 - 3. Disease index.
 - 4. Operation index.

(We will not be concerned in this lesson with physicians' index, disease index, or operation index. They are merely mentioned here because they are included with the patient index as required indices.)

- C. Patient index.
 - Most important index in medical record department.
 - Cards are initiated in either admission department or medical record department.
 - 3. Cards can be filed either alphabetically or phonetically.



- 4. Number index.
- 5. Permanency of file.
- 6. Personnel -- orientation.
- 7. Content and size or card.
 - a. 3 x 5 card.
 - b. Information contained on card.
- 8. Steps for filing (alphabetical) according to letters of alphabet.
 - a. Strict alphabetical sequence.
 - b. Special problems encountered with various names.
 - c. Number of cards behind each guide.
 - d. Advantages of system.
 - e. Searching for misfiles.
 - f. Practice sessions.
- 9. Steps for filing (phonetic or Soundex) a system in which words or names filed according to sound in pronunciation.
 - a. Surnames are coded to Soundex Code.
 - b. Method of coding.
 - c. Method of filing.
 - d. Advantages of system.
 - e. Practice session.
- 10. Questions from students on patient index.
- D. Method of filing of medical record folder.
 - 1. Numbering systems.
 - a. Unit.
 - b. Serial.
 - c. Modified system of serial unit.



- 2. Filing systems.
 - a. Centralized.
 - b. Decentralized.
- 3. Filing of medical records.
 - a. Strict numerical.
 - (1). Procedure of filing.
 - (2). Personnel.
 - (3). Filing equipment.
 - (4). Practice session.
 - b. Terminal digit.
 - (1). Procedure of filing.
 - (2). Personnel.
 - (3). Filing equipment.
 - (4). Practice session.
 - c. Charge out systems.
- E. Short recap of two-hour session.
 - 1. Questions from students.
 - 2. Discussion.
- IV. Assignment: Guide to Organization of a Hospital Medical Record Department, American Hospital Association, Chicago, 1962, Ch. 3, "Record Filing System."

Questions will be posed to the students during the lecture portions. Audio-visual aids will be used in giving filing instructions for patient index, both alphabetical and phonetic, and for filing medical records, both strict numerical and terminal digit.

V. Bibliography:

American Hospital Association, <u>Guide to the Organization of a Hospital Redical Record Department</u>, American Hospital Association, Chicago, 1962.

Huffman, Edna K., <u>Manual for Medical Record Librarians</u>, 5th Ed., Physicians' Record Co., Berwyn, 1963.

Remington Rand, Brochures on Soundex Filing System.



BASIC FILING SYSTEMS

(outline for students)

- I. Filing arrangements.
 - A. Alphahetical.
 - B. Numerical.
- II. Four required indices maintained in medical record department.
 - A. Patient Index.
 - B. Physicians' Index.
 - C. Disease Index.
 - D. Operation Index.

III. Patient Index.

- A. Most important index in medical record department.
- B. Cards initiated in either admission department or medical record department.
- C. Cards filed either alphabetically or phonetically.
- D. Number Index.
- E. Permanency of file.
- F. Personnel--orientation.
- G. Content and size of card.
 - 1. 3 x 5 card.
 - 2. Information contained on card.
- H. Steps for filing (alphabetical) according to letters of alphabet.
 - 1. Strict alphabetical sequence.
 - 2. Special problems encountered with various names.
 - 3. Number of cards behind each guide,
 - 4. Advantage of system.



- 5. Searching for misfiles.
- 6. Practice sessions.
- Steps for filing (phonetic or Soundex) -- system in which words or names filed according to sound in pronunciation.
 - 1. Surnames coded to Soundex code.
 - 2. Method of coding,
 - 3. Method of filing.
 - 4. Advantages of system.
 - 5. Practice session.
- J. Questions from students on patient index.
- IV. Method of filing of medical record folder.
 - A. Numbering systems.
 - 1. Unit.
 - 2. Serial.
 - 3. Modified system of serial-unit.
 - B. Filing systems.
 - 1. Centralized.
 - 2. Decentralized.
 - C. Filing of medical records.
 - 1. Strict numerical.
 - a. Procedure of filing.
 - b. Personnel.
 - c. Practice session.
 - 2. Terminal digit.
 - a. Procedure of filing.
 - b. Personnel.
 - c. Filing equipment.
 - d. Practice session.



- 3. Charge-out systems.
- V. Recap of two-hour session.
 - A. Questions from students.
 - B. Further discussion.
- VI. Assignment: <u>Guide to Organization of a Hospital Medical Record Department</u>, American Hospital Association, Chicago, 1962, Ch. 3, "Record Filing System."

STEPS FOR FILING ALPHABETICALLY

- 1. Arrange cards in strict alphabetical sequence placing surname first, then given name and middle name or initial.

 If surname and given name are the same, arrange cards according to initial. If there is no initial, place earliest birth date on top.
- 2. Names beginning with prefixes or hyphenated names are filed in strict alphabetical sequence. Names beginning with Mc or Mac are filed in strict sequence unless you are using commercial guides separating Mc and Mac. This is acceptable, but be consistent. File any religious names as brothers and sisters under religious name commonly used; however, it is well to place the family surname in parenthesis. Legal name of a married woman along with her given name should be used, as Thomas, Mrs. Eileen (John). If a female patient has married since her last period of hospitalization, a cross-reference should be made. One card is left filed under her maiden name indicating a reference to the card filed under the married name. This can also be done when a patient is admitted with an alias.
- 3. No more than 20 cards should be filed behind a guide; therefore, a file with 4,000 cards would require a 200-division index. Generally, there are twice as many W's as A's, B's as G's, and one name in every five begins with either M or S; Q, X, and I are few.
- 4. The main advantages of this type of filing of the patient index cards are easy maintenance and clerks can be oriented to filing with minimal instruction.
- 5. If a card appears to be misfiled, look for various ways the name might have been spelled.

STEPS FOR FILING BY SOUNDEX

1. When cards are filed according to this system, the surname is coded to one alphabetic letter, the beginning letter, and a 3 digit code number. The first letter of the surname is not coded. Then cards are arranged in alphabetical order with 26 sections. Within each section 6 groups are used. Each group has a code number as follows:

Number equivalents

b, f, p, v	1
c, g, j, k, q, s, x, z	2
d, t	3
1	4
m, n	5
r	6
no consonants, or not	_
enough consonants	0

a, e, i, o, u, y, w, and h are not coded--no number equivalents.

2. Five rules for coding.

Letters

- a. Each name is coded to 3 digits.
- b. Two letters together or double letters are coded as one letter.
- c. If a letter and its equivalent appear together they are coded as one letter.
- d. The first letter in the surname is not coded but appears with the 3 digits.
- e. Vowels and y are separators. H and w are not coded either.



PRACTICE SHEET FOR FILING PATIENT INDEX CARDS

Mrs. Joseph (Kathryn) Schmidt

John S. Kelly

Sister Mary Matthew

Rufus, Adolph

Plumblade, Josephine

Clarence Behrens

Robert W. Davis

Judy Karr

Garcia, Ernest John

Dr. Juan Romero

Gleason, James

Shubert, Charles J.

Margaret MacAuley

J. S. Carlson

Shotkowski, Alex

Westmoreland, Kenneth

Nicholas Carr

John Vigil

Carlsen, Ethel M.

Higginbotham, Harry H.

Janet C. Keller

McMahon, Mortimer

Graham, Edward T.

White, Harry

Maes, Carlos

Berens, Louise

Zwolle, Benjamin

Robert F. Davis

Obrien, Sr. M. Patricia

Lund, Eliz. A.

INTERNATIONAL CLASSIFICATION OF DISEASES AND OPERATIONS



INTERNATIONAL CLASSIFICATION OF DISEASES

- I. Topic: Basic Principles of ICDA.
- II. Objective: To familiarize the student with the ICDA coding system,
- III. Activities and Procedures:
 - A. Explanation of the ICDA code.
 - B. Discussion of the uses of the ICDA.
 - C. Presentation of examples and coding problems using the ICDA with operations.
 - IV. Materials: Examples, coding problems, 5 x 8 steel file containing indices for Diseases and Operations.
 - V. Assignment: Coding problems will be given the students as homework. These will be checked in class the following session.
 - VI. Reference: <u>International Classification of Diseases</u>

 <u>Adapted</u>, Vol. 1, U. S. Department of Health,
 Education, and Welfare, Public Health Service,
 Washington, D.C., 1962.

ICDA CODING SYSTEM

I. What is ICDA?

A. Background.

- 1. International Classification of Diseases, adapted for indexing hospital records by diseases and operations. (U. S. Public Health Service Publication 719, Revised Edition, 2 Vols., December, 1962).
- 2. Method of classifying diseases and operations for:
 - a. Research purposes.
 - b. Joint Commission requirement.
- B. Explanation of ICDA Code Books.
 - 1. Vol. II. Alphabetical Index.
 - a. Arranged by condition, not anatomical site, i.e., "hemorrhage of mouth," look under "hemorrhage" not "mouth."
 - Arranged by noun rather than adjective,
 i.e., "acute appendicitis" is listed under "appendicitis, acute," rather than "acute."
 - 2. Vol. I Tabular List.
 - a. Section I -- Diseases and Injuries.
 - b. Section II -- Operations and Treatments.
 - c. Arranged in numerical order by code number.
- II. Explanation of Contents of Vol. I.
 - A. Read through major diagnostic groups with brief explanation of each.

1.	Infective and Parasitic Diseases	Page	e l
1. 2.	Neoplasms	11	23
3•	Allergic, Endocrine System, Metabolic and Nutritional Diseases	rt	51
4.	Diseases of Blocd and Blood-forming Organs	71	61
5.	Mental, Psychoneurotic and Personality Disorders	n	65
6.	Diseases of the Nervous System and Sense Organs	.11	73



7. Diseases of the Circulatory System 8. Diseases of the Respiratory System 9. Diseases of the Digestive System 10. Diseases of the Genitourinary System 11. Deliveries and Complications of Pregnancy, Childbirth, and Puer 12. Diseases of the Skin and Cellular	rperium " 146 " 159
13. Diseases of the Bones and Organs Movement 14. Congenital Malformations 15. Certain Diseases of Early Infancy 16. Symptoms, Senility, and Ill-defin Conditions 17. Injuries and Adverse Effects of Chemical and Other External Car	" 186 " 194 ned " 198
A. Infective and Parasitic Diseases. (Infective underlined word.)	Use Vol. II Answer
1. Pulmonary <u>tuberculosis</u> , active, 12. <u>Pleurisy</u> with effusion due to tu 3. Pulmonary <u>tuberculosis</u> , active 4. Primary <u>tuberculosis</u> of skin B. Neoplasms, Malignant (140-239)	DOT CRTODES OF ST
1. Carcinoma of the ovary 2. Adenocarcinoma of the prostate 3. Carcinoma of the cervix 4. Carcinomatosis	175.0 177. 171. 199.9
C. Allergic, Endocrine System, Metaboli Nutritional Diseases (240-245), pa Subgroupings should always be used codes 240 to 245. 1. Allergic bronchitis due to feath 2. Urticaria, due to undetermined e 3. Diabetes Mellitus	with ners 241.2
D. Diseases of Blood and Blood-forming 1. Iron deficiency anemia secondary blood loss	y to 291.0
2. Anemia 3. Polycythemia E. Mental, Psychoneurotic, and Personal Disorders (300-329).	293. 294. lity
1. Delirium tremens (alcoholic) 2. Manic Depressive Reaction	301.1 319.2



F.	Diseases of the Nervous System and Sense Organs (330-398)	Answer
	1. Cerebral thrombosis	332.1
	 Cerebral encephalopathy due to arteriosclerosis or hypertension 	334.1
	3. Paralysis agitans	350.
G.	Diseases of the Circulatory System (400-468)	
	 Rheumatic fever without mention of heart involvement 	; 400.
	2. Active rheumatic myocarditis	401.2
	3. Acute coronary occlusion	420.1
н.	Diseases of the Respiratory System (470-527)	
	1. Acute nasopharyngitis (common cold)	470. 491.2
	2. Bronchopneumonia due to staphylococcus 3. Spontaneous pneumothorax	520.
	-	
I.	Diseases of the Digestive System (530-587)	
	 Ulcer of stomach without perforation, with hemorrhage 	540.1
	2. Gastroduodenitis	543.
	3. Acute appendicitis, gangrenous	5.50.
J.	Diseases of the Genitourinary System (590-65	37)
	l. Acute nephritis	590.
	2. Pyelitis, pyelonephritis	600.0
ĸ.	Deliveries and Complications of Pregnancy, Childbirth, and Puerperium (640-689)	
		6).o. o
	l. Pyelitis of pregnancy2. Preeclampsia of pregnancy	640.0 642.2
		648.0
	4. Abortion, incomplete	650.0
	5. Delivery without mention of complication	n 660.
	 Delivery complicated by cephalopelvic disproportion 	674.0
L.	Diseases of the Skin and Cellular Tissue (690-716)	
	1. Furunculosis of face	690.0
	2. Cellulitis of right upper arm with	693.2
	lymphangitis 3. Eczema	701.
	3. Eczema 4. Eczema, atopic	708.



М.	Dise	eases of the Bones and Organs of ement (720-749)	Answer
	1. 2. 3. 4. 5.	Acute arthritis, nonpyogenic Rheumatoid arthritis Osteoarthritis Acute osteomyelitis Herniation of nucleus Pulposus Synovitis of shoulder	721. 722.0 723.0 730.0 735. 741.1
N.	Cong	genital Malformations (750-759)	
	1. 2. 3.		752. 756.2 756.5 756.6
0.	Cer	tain Diseases of Early Infancy (760-776)	
	ı.	Ophthalmia Neonatorum	765.
	2. 3.	Erythroblastosis without mention of nervous affection Hemorrhagic disease of the newborn	770.0 771.
P.	Sym dit	ptoms, Senility, and Ill-defined Con- ions (780-795)	
	2.	Convulsions Epistaxis Pylorospasm	780.2 783.0 784.2
Q.	Tas	uries and Adverse Effects of Chemical and er External Causes (800-999)	
	1. 2. 3.	Fracture, open, of pelvis Fracture, open, intertrochanteric	805.0 808.1 \$20.1
	4.	Dislocation of acromic Lavicular Julie	852.0
	5. 6.	Concussion of brain Traumatic hemothorax with open wound	860.1
	7.	into thorax Traumatic amputation of thumb without complication	886.0
	8.	Contusion of abdominal wall	922. 999.0
	9.	Anaphylactic shock	777.0
	10.	Hospital contracted infection dua to transfusion	999 .5
Co		Problem on Operations.	
Α.	Ope	erations on Nervous System (01-06)	
	1.	Craniotomy	01.0
	2.		03.3
	3.	Spinal puncture	رور



IV.

В.	Operations on Endocrine System (08-09)	Answer
	 Thyroidectomy, subtotal Ligation of thyroid arteries 	08.1 08.6
C.	Operations on Eye (10-18)	
	 Enucleation of eyeball Extraction of lens, intracapsular 	10.4 17.4
D.	Operations on Ear, Nose, and Throat (20-22	2)
	 Tympanotomy Mastoidectomy, simple Submucous resection of nasal septum 	20.4 20.7 21.1
E.	Operations on Buccal Cavity and Esophagus (24-28)	
	 Extraction of tooth, simple Removal of salivary calculus Tonsillectomy without adenoidectomy Dilation of esophagus 	24.1 25.1 27.1 28.6
F.	Operations on Heart and Intrathoracic Vess (30-32)	els
	 Commissurotomy Catheterization of right heart Removal of embolus of great vessel, intrathoracic 	30.3 30.4 31.1
G.	Operations on Bronchi, Lung, Pleura, Chest Wall, and Mediastinum (33-35)	;
	 Thoracentesis Complete lobectomy 	34.1 35.3
н.	Operations on Gastrointestinal Tract and Related Organs and Tissues (40-57)	
	1. Repair of inguinal hernia, recurrent 2. Exploratory laparotomy or celiotomy 3. Pyloromyomoty 4. Total Gastrectomy 5. Appendectomy 6. Colostomy 7. Choledochotomy 8. Splenectomy 9. Removal of embolus of abdominal aorta	40.1 41.1 44.1 44.3 45.1 47.1 53.0 56.1 57.1
I.	Operations on Urinary and Male Genital Systems (60-69)	
	1. Nephrectomy, complete	60.4 60.6



			Answer
	2	Ureterectomy	62.1
	3.	Cystectomy, complete	63.2
	¥.	Urethroplasty	64.4
	₹•	Decatatory transfire Unital	66.2
	0.	Incision and drainage of cyst of tunica	4
	€ •	vaginalis	67.0
	8.	Orchiectomy, bilateral, complete	67.5 68.5
			68.5
	9. 10.	Vasectomy, complete	68.1
J.	Opei	ations on Female Genital Organs, Excludi	ng
•	0bs	tetrical (70-75)	
	1.	Salpingo-oophorectomy, unilateral	70.3
	2.	Biopsy of ovary	70.8
	2.	Salpingectomy, bilateral	71.2
	. J.	Salpingectomy, bilateral Hysterectomy, total, vaginal approach Dilatation and curettage of uterus Hysteropexy	72.6
	۳. ۲.	Diletation and curettage of uterus	72.8 73.4 74.4
	2.	Hrate and Th	73•4
	7	Repair of cystocele and/or rectocele	74.4
	8.	Excision of Bartholin's gland	75•3
K.	Obs	tetrical Procedures (76-78)	m/ 5
	1.	Artificial rupture of membranes	76.0
	2.		76.4
	ີ້.		n //•T
	3. 4.	Repair of laceration of cervix, postpart	um 77.2
_		rations on Musculoskelatal System (80-87)	
L.	Ope		
	-	Excision of bone for graft (donor site)	80.3 80.4
	1.	Complete cstectomy	80.4
			80.6
. :			81.2
	¥.	ASAAA BAAHATIAN II IBMUU	82.0
	5.	Open reduction of fibula with internal	20.0
	υ.	fixation	82.2
.:	7	Anthrotomy of knee	83.0
	8.	Excision of semilunar cartilage of	^~~
200	0.	knee joint	83.5
		Spinel fusion. lumbosacrai	84.4
	9.	THE SECOND STREET	85.3
	*		
M	α0	erations on Peripheral Blood Vessels and	
	Ly	mphatic System (88)	
	1	Ligation and stripping of varicose vein	00 1.
	Τ.	of leg	
	2.		88.7
	3.		88.8
	3 .		



N.	0pe (90	rations on Skin and Subcutaneous Tissue)	Answer
	1.	Onychectomy Biopsy of skin and subcutaneous tissue	89.2 89.8
0.	Non	-Surgical Procedures (90-99)	
	12345678	Doon radiation therapy	90.0 90.2 90.6 90.5 92.1 93.2 95.2
	9.	Gynecological implants of radioactive substance Shock therapy Use of artificial kidney	95.5 99.0 99.5



INDEXING

Headir	ngs for Cards for Disease Indices	Codes
I.	Infective and Parasitic Diseases	002-138
II.	Neoplasms	140-239
	Malignant (140-199.9) Benign (210-229) Unspecified (230-239)	
III.	Allergic Endocrine System, Metabolic and Nutritional Diseases	240-289
IV.	Diseases of Blood and Blood-forming Organs	290-299
٧.	Mental, Psychoneurotic and Personality Disorders	300-329
VI.	Diseases of the Nervous System and Sense Organs	330-398
VII.	Diseases of the Circulatory System	400-468
VIII.	Diseases of the Respiratory System	470-527
IX.	Diseases of the Digestive System	530- <i>5</i> 87
x.	Diseases of the Genitourinary System	590-637
XI.	Deliveries and Complications of Pregnancy, Childbirth and Puerperium	640-689
XII.	Diseases of Skins and Cellular Tissue	690-716
XIII.	Diseases of Bones and Organs of Movement	720-749
.vix	Congenital Malformations	750-759
.vx	Certain Diseases of Early Infancy	760-776
.IVX	Symptoms, Senility and Ill-defined Conditions .	780-795
XVII.	Injuries and Adverse Effects of Chemical and Other External Causes	800-999
Suppl	ementary Classifications	:
	Special Conditions and Examinations without	Y00-Y18



Classification of Liveborn Infants According to Type of Birth	Codes . Y20-Y29
Classification of Causes of Stillbirth	• Y30-Y39
Supplementary Classification of External Cause of Injury	E802-E998
Headings for Cards for Operation Indices	
Classification of Operations and Treatments	
1. Operations on Nervous System	. 01-06
2. Operations on Endocrine System	. 08-09
3. Operations on Eye	. 10-18
4. Operations on Ear, Nose, and Throat	. 20-22
5. Operations on Buccal Cavity and Esophagus	. 24-28
6. Operations on Heart and Intrathoracic Vessels	. 30-32
7. Operations on Bronchi, Lung, Pleura, Ches Wall, and Mediastinum	
8. Operations on Breast	. 38
9. Operations on Gastrointestinal Tract and Related Organs and Tissues	. 40-57
10. Operations on Urinary and Male Genital Systems	. 6
11. Operations on Female Genital Organs, Excluding Costetrical	. 70-75
12. Chstetrical Procedures	. 76-78
13. Operations on Musculoskeletal System	. 80-87
14. Operations on Peripheral Blood Vessels and Lymphatic System	å . 88
15. Operations on Skin and Subcutaneous Tissu	89
at Gambata Non superior I Transdamon	90-99



CODING AND INDEXING (ICDA)

- I. Topic: Brief Review of ICDA and Explanation of the Use of Volumes I and II.
- II. Objective: The students are to learn how to locate the various diseases and operative procedures.

III. Activities and Procedures:

Hospitals are required to maintain a minimum of four indices—the patients' index, physicians' index, disease and operation indices. Cards will be distributed to the students and instructions given for completion of the index cards.

The patients' index is an arrangement of cards containing the name and hospital number of the patient. It is the key needed to locate any information in the medical record department pertaining to a patient.

The physicians' index is a record of the work done and the end results obtained by physicians practicing in the hospital. It is a strictly confidential record and should be available for inspection only to the governing board of the hospital through the administrator, the medical audit committee, the credentials committee for an evaluation of the work of the individual physician or to the physician himself for a review and analysis of his own work.

Disease and operation indexing is the last major step in making the medical records readily available for research. These diagnoses must conform to terminology of standard nomenclature.

The group will be divided into three classes—one for beginners, one for intermediate, and one for advanced. During the first hour the students will be given a test reviewing 12 coding problems.

IV. Assignment:

Coding problems have been assigned to the three groups, and "homework" will be assigned for the first day so that the papers may be brought to class the following day and corrections made.



I. C. D. A.

- 1. Vincent's infection of mouth
- 2. Infectious Encephalitis, acute
- 3. Herpes zoster of eye
- 4. Infectious hepatitis
- 5. Dermatophytosis of foot
- 6. Adenocarcinoma of palate
- 7. Malignant Melanoma, skin of breast
- 8. Lipoma of spermatic cord
- 9. Bronchitis due to dust
- 10. Toxic nodular goitre
- 11. Thyroiditis, acute
- 12. Adenoma of parathyroid gland
- 13. Iritis due to gout
- 14. Renal glycosuria
- 15. Pernicious anemia
- 16. Aplastic anemia
- 17. Hemophilia
- 18. Acute brain syndrome due to arteriosclerosis
- 19. Addiction to barbiturates
- 20. Subarachnoid hemorrhage, (non traumatic)
- 21. Trigeminal neuralgia
- 22. Corneal ulcer, right eye
- 23. Mature cataract, left eye
- 24. Acute otitis media, left
- 25. Chorea
- 26. Arteriosclerotic heart disease



- 27. Acute myocardial invarction
- 28. Inguinal hernia e obstruction
- 29. Esophageal hiatus hernia
- 30. Cholecystitis with Cholelithiasis
- 31. Diverticulum of bladder
- 32. Pyelitis--pregnancy 32 weeks
- 33. Cystitis due to abortion
- 34. Pregnancy, uterine del. c postpartum hemorrhage
- 35. Pregnancy, uterine del. previous C. Section
- 36. Cesarean Section, low cervical
- 37. Kyphoscoliosis
- 38. Cephalhematoma
- 39. Osteofibrosarcoma of humerus
- 40. Papilloma, malignant, of left kidney

TEST REVIEW

1.	Rheumatoid arthritis	
2.	Meningitis due to H. influenzae	
3.	Virus bronchopneumonia	
4.	Benign hypertrophy of prostate	
5.	Old myocardial infarction	
6.	Arteriosclerotic gangrene	
7.	Adenoma of thyroid	
8.	Immature cataract	
9.	Chocolate cyst of ovary	
10.	Bleeding duodenal ulcer	
11.	Delivery complicated by precipitate labor	
12.	False labor	

EXERCISE I--INTERMEDIATE GROUP

	Terms	AUSMers
1.	Varicose Ulcer	460.0
2.	Congestive heart failure	434.1
3.	Diabetic acidosis	260.4
4.	Congenital dislocation of hip	758.0
5.	Postoperative infection	998.5
6.	Uterine fibroid	214.
7.	Perthes' disease	732.3
8.	Recurrent dislocation of the patella	734•
9.	Anxiety reaction	324.0
10.	Streptococcal tonsillitis	051.
11.	Compound fracture of mandible	802.3
12.	Repair of aneurysm of the abdominal aorta	57.3
13.	Bilateral salpingo-oophorectomy	70.5
14.	Laminectomy with excision of herniated	83.4
15.	Chronic brain syndrome associated with cerebral arteriosclerosis	313.0
16.	Preeclampsia of pregnancy	642.2
17.	Delivery complicated by cervical dystocia	675.2
18.	Malignant neoplasm of sigmoid colon	153.3
19.	Dilatation and curettage for removal of retained placenta	77.1
20.	Open reduction of fracture of shaft of femur with fixation by intramedullary nail	82.2
21.	Nonunion of fracture of femoral neck	820.9
22.	Angina pectoris with myocardial infarction	420.1
23.	Urticaria due to penicillin reaction	963.0 243.6
24.	Subarachnoid hemorrhage due to rupture of cerebral aneurysm	330.
25.	Premature twin delivered by cesarean section	Y24.3



EXERCISE II -- ADVANCED GROUP

- 1. Partial gastrectomy with gastroduodenostomy
- 2. Diathermy for reattachment of retina
- 3. Surgical aftercare
- 4. Observation, mental, without need for further care
- 5. Transient paralysis of right arm, etiology unknown
- 6. Open wound of hand with division of extensor pollicis longus tendon
- 7. Generalized carcinomatosis secondary to carcinoma of sigmoid
- 8. Aspirin poisoning
- 9. Open wound of wrist with tendon involvement
- 10. Previous cesarean section
- 11. Acute appendicitis with peritonitis
- 12. Dislocation of temporomandibular joint, compound
- 13. Vomiting
- 14. Hirsutism
- 15. Cicatrix of arm secondary to a 3rd degree burn
- 16. Hyperchlorhydria due to emotional stress
- 17. Class III Papanicolaou smear
- 18. Laboratory examination
- 19. Postpartum observation
- 20. Dumdum fever



EXERCISE III -- CODING

Terms	i	Answers
Jejunal ulcer with perforation and hemorrhage		542.3
Gastritis, acute, corrosive, due to lye		960.8
Transverse spinal sclerosis		357.3
Trigeminal neuralgia	-	361.
Brachial neuritis .		362.
Chorioretinitis .	malayayad - ganaga	376.2
Ulcer of right cornea		381.
Prolapse of iris		388.5
Amblyopia		389.1
Labyrinthitis		394.0
Acute coronary occlusion		420.1
Myocardial ischemia		420.3
Congestive heart failure		434.1
Dissecting aneurysm		451.0
Gangrene of leg, etiology undetermined		455.0
		467.0
Hypotension Tonsillitis due to streptococcus		051.
		763.
Pneumonia of newborn		633.6
Stricture of cervix		
Hypertension during pregnancy		642.0
Placenta previa		643.
Ectopic pregnancy with rupture of tube		645.
Therapeutic abortion		650.1



Exercise III (Continued)

Terms	Answers
Delivery complicated by postpartum hemorrhage	672.1
Delivery complicated by cephalopelvic disproportion	674.0
Delivery complicated by precipitate labor	678.1
Delivery complicated by obstetrical shock	678.5
Cystitis of puerperium	681.0
Puerperal pulmonary embolism	684.
Cellulitis of forearm	692.2
Eczema, allergic, due to contact with skin	703.9
Dermatitis due to adhesive plaster	703.3
Erythema multiforme	705.1
Pityriasis rosea	706.2
Hirsutism	713.1
Decubitus ulcer	715.1
Cicatrix of trunk due to burn	(716.0) (942.9)
Rheumatoid arthritis of spine	722.1
Acute osteomyelitis	730.0
Herniation of nucleus pulposus	735.
Ankylosis of left ankle	737.7
Ganglion of tendon sheath	741.
Contracture of palmar fascia	744.7
Hallux valgus	747.0
Hydrocephalus, congenital	752.
Patent ductus arteriosus	754.1
LSTOUP ANG PAS ST POT TOOMS	



Exercise III (Continued 2)

Terms	A	nswers
arctation of aorta		754.7
Tracheoesophageal fistula, congenital		756.0
Supernumerary fingers		758.8
Greenstick fracture of proximal end of radius		813.0
Compound fracture neck of humerus		812.1
Compound fracture of lumbar vertebra		805.5
Comminuted fracture of 7,8,9 ribs, left		807.0
Compound fracture of acetabulum		808.1
Compound fracture medial condyle left tibia		823.1
Dislocation temporomandibular joint		830.0
	har the Markette see and	837.
Dislocation of astragalus		840.
Sprain acromioclavicular joint		

EXERCISE IV--CODING

Terms		Answers
Talipes pes cavus		748.2
Colles Fracture, greenstick		813.4
Sprain of ankle		845.0
Contusion of kidney		866.0
Poisoning due to lead		961.1
Urticaria due to tetracycline		(243. (963.5)
Pregnancy, uterine, delivered at home (admitted to hospital following	g)	Y07.
Term birth, twins, low forceps, mate stillborn		Y23.1
Lobotomy		01.1
Neurolysis of peripheral nerve		05.6
Removal of retained placenta		77.0
Cesarean Section, low cervical		78.1
Closed reduction of mandible with wiring		24.9
Anastamosis of hepatic duct to stomach		53.2
Resection of exteriorized intestine		46.7
Umbilectomy		41.6
Radical mastectomy		38.3
Herniorrhaphy for recurrent inguinal hernia		40.1
Laryngectomy		22.2
Dacryocystorhinostomy		18.3
Cyclodialysis		15.6
Paracentesis of iris		15.0
Resection of recti muscle		11.2

Exercise IV (Continued)

Terms	Answers
Enucleation of eyeball .	10.4
Excision of thyroglossal cyst .	08.4
Otoplasty	20.2
Radical mastoidectomy	20.7
Rhinoplasty	21.4
Sinusotomy with Caldwell-Luc	21.6
Laryngotracheotomy	22.0
Extraction of tooth, simple	24.1
Removal of calculus from salivary gland	25.1
Glossectomy	26.1
Tonsillectomy	27.1
Tonsillectomy and Adenoidectomy	27.2
Arteriotomy of great vessel, Intrathoracic	31.0
Thoracentesis	34.1
Complete lobectomy	35.3
Biopsy of breast	38.8
Repair of diaphragmatic hernia, thoracic approach	40.8
Celiotomy	41.1
Pyloromyotomy	<u> </u>
Gastroduodenostomy with partial gastrectomy	144.2
Excision of Meckel's diverticulum	46.2
Total colectomy	46.5
Colostomy	47.1
Enteroenterostomy	47.3

Exercise IV (Continued 2)

Terms	Answers
Abdominoperineal resection	48.2
Closure of fistula in ano	49.5
Evacuation of thrombosed hemorrhoids	49.9
Menisectomy	83.5
Arthroplasty of hip	84.0
Arthrodesis of ankle	84.5
Transplantation of pollicus longus tendon	85.5
Amputation of hand and forearm	87.2
Thrombectomy of peripheral vessels	88.0
Ligation and stripping of varicose veins	88.4
Gynecological implant of radium	95.4
Myelography	92.1
Partial ostectomy	80.2
Refracture (surgical) for faulty union	81.2
Closed reduction of shaft of femur	82.0
Open reduction of extremity of femur with internal fixation	82.5
Open reduction of Colles fracture without internal fixation	82.4
Open reduction of shaft of femur with internal fixation	82.2



EXERCISE V--INDEXING

Please Index the Following on Appropriate Card:	Answers
Tuberculous abscess of lung	002-019
Tuberculous necrosis of bone	78
Compound fracture of cervical vertebra	800-826
Depressed fracture of acetabulum	140
Greenstick fracture proximal end of radius	ven
Dislocation of mandible	830-839
Dislocation of proximal end of femur	1,7
Sprain of tibiofibular joint	840-848
Lumbosacral strain	"M
Concussion	850-856
Traumatic pneumothorax	860-869
Traumatic pneumothorax with openwound in thorax	n,
Contusion of kidney	n
Laceration of cornea	870-898
Laceration of scalp	850-856
Basal Cell carcinoma of upper lip	140-148
Adenocarcinoma of nasopharynx	u
Carcinoma of stomach	150-159
Carcinoma insitu of cervix	170-181
Adenocarcinoma of bladder	- 11
Glioblastoma of brain	190 -199
Acute gangrenous appendicitis with	550-553
Intussusception of appendix	-



Exercise V (Continued)		Answers
Inguinal hernia, incarcerated		560-561
Esophageal hiatus hernia		17
Regional ileitis		570 - 578
Paralytic ileus		r
Cirrhosis of liver due to alcohol		580 - 第7
Gingivitis, ulcerative		530-539
Maxillary sinusitis		510 - 527
Bronchitis, acute		500-502
Lobar pneumonia due to staphlococcus		490-493
Varicose ulcer of leg		460-468
Hypertensive cardiovascular disease		իրե Տ-րդե3
Hypertensive heart disease with arteriolar nephrosclerosis		11
Hypertensive vascular disease		<u> </u>
Arteriosclerotic heart disease		420-422
Acute coronary occlusion		. 11
Coronary insufficiency		11
Rheumatic fever		400-402
Chronic rheumatic heart disease		410-416
Meniere's Disease		390-398
Otitis media, acute		**
Pterygium, left eye		380-389
Mature cataract, right eye		11
Detachment of retina		ft
Sciatica, right hip		360-369
Sciatica due to intervertebral disc		730-738
Fibrocystic disease of breast	ot i sa <u>i ta di</u> i s	620-626



Exercise V (Continued 2)		Answers
Gynecomastia		620-626
Pyosalpinx		17
Pyelitis of pregnancy		640-649
Preeclampsia of pregnancy		PT
Threatened abortion		t1
Pregnancy, uterine, delivered without complications		660-678
Pregnancy, uterine, delivered complicated by cephalopelvic disproportion	n	660-678
Please Index the Following Operations	:	
Burr holes		01-06
Lobectomy		11
Cranioplasty		11
Thyroidectomy		08-09
Excision thyroglossal duct cyst		11
Enucleation of eyeball		10-18
Mastoidectomy		20-22
Dilatation and Curettage following abortion		76-78
Delivery by low forceps with episiotomy		70-75
Salpingo-cophorectomy, bilateral	•	11
Elopsy of ovary		11
Hysterectomy, vaginal approach		11
Transurethral resection of prostate		60-69
Anastamosis of ureter		11
Burn of right wrist, 2nd degree		940-949
Non transport Accidents		E888-E936
	· · · · · · · · · · · · · · · · · · ·	· ·

Exercise V (Continued 3)	Answers
Repair of recurrent inguinal hernia	40-57
Vagotomy	 11
Appendectomy	 ti .
Biopsy of pancreas	 41
Biopsy of mandible	80-87
Closed reduction of fractured tibia	ti
Biopsy of skin and subcutaneous tissue	 89
Cystoscopy	 90 -99
Intravenous pyelography	tt
Term birth, living child, delivery by Section	¥20-¥29
Cirrhosis of liver	580-587

FINAL TEST ICDA

Hypertrophic pyloric stenosis, congenital	
Incisional hernia, irreducible	
Cholecystitis with cholelithiasis	
Acute pharyngitis, pneumococcal	
Urticaria due to tomatoes	
Pregnancy, uterine, delivered by low forceps	
Term birth, living child (for this mother)	
Pregnancy, uterine, delivery of twins, complicated by abnormality of bony pelvis	
Baby 1. Term twin infant, stillborn due to difficult labor	
Baby 2. Term birth, living twin	
Pregnancy, uterine, delivered, previous C. Section	
Term birth, living child (for this mother)	
Transverse fracture, shaft of humerus	
Open reduction with internal fixation (above)	
Removal of Smith-Petersen nail from femur	
Fracture, closed, radius and ulna, upper extremity	
Open reduction of above without internal fixation	
Leiomyosarcoma of uterus (corpus uteri)	
Adenocarcinoma of cecum	
Adenocarcinoma of Liver	
Bronchopneumonia due to staphylococcus	
Cystitis due to abortion	
Prostatectomy, transurethral	
Concussion due to fall at home	
and degree burn of leg. due to explosion	



STANDARD NOMENCLATURE OF DISEASES AND OPERATIONS



STANDARD NOMENCLATURE OF DISEASES AND OPERATIONS

- I. Topic: Basic Principles of Standard Nomenclature.
- II. Objectives: The objectives of this lesson are to acquaint medical record clerks in small hospitals with:
 - A. Basic understanding of the principles of SNOD.
 - B. Basic knowledge of the arrangement and contents of SNOD.
 - C. An understanding of the benefits to be gained by the hospital, the physicians, and the Medical Record Department by using a disease and operations code book.
 - D. An appreciation of diagnostic, operative, and physicians indexes with basic instruction in setting up these indexes and how to use them.
 - E. An appreciation of the importance of coding and indexing all diagnoses and all operations on each clinical record.

III. Activities and Procedures:

- A. Purposes for using a disease and operative nomenclature.
- B. Dual system of coding.
- C. Derivation of code numbers.
- D. Supplementary terms.
- E. Presentation of examples and exercises.
- IV. Assignment: Memorize the first digits of the topographical codes and procedural codes.
 - V. Bibliography:

Current Medical Terminology

"Efficiency in Hospital Indexing of the Coding Systems of the International Statistical Classification and Standard Nomenclature of Diseases and Operations," <u>Journal of the American Association of Medical Record Librarians</u> 30:95-111, 129, June, 1959.



Huffman, Edna K., <u>Manual for Medical Record</u>
<u>Librarians</u>, Physicians' Record Co., Berwyn, 1962.

Knutti, Sarah H., "Precise Terminology," Hospitals 33:63, 66, November, 1959.

McGuire, Helen, "Service from Headquarters," Hospitals 32:26, 28, March, 1958.

INCOMPLETE OR MASTER CODE NUMBERS--Certain master code numbers are given throughout the body of the nomenclature. These must not be confused with incomplete diagnoses.

Generally, master code numbers are found in the sections on regions (pages 122-130), skin (pages 131-142), the musculoskeletal system (pages 146-174), the arteries (pages 216-219), the veins (pages 224-225), the lymphatic channels (page 234), and the lymph nodes (pages 235-236).

Master codes are recognizable by pyramids that take the place of digits. They begin with a digit or digits specifying the system, organ, or part involved in the topographical section of the code number and are followed by one or two pyramids and likewise in the etiological section.

There are two procedures for use with the incomplete or master code numbers.

1. COMPLETION

Insertion of the proper digit in the place of the pyramid.

Example:

"324-123 Tuberculosis of sinus (specify sinus)." The diagnosis stated on the medical record is "Tuberculosis of ethmoid sinus." One must refer to the topographical section 32 (accessory sinuses, page 22). The code number here for ethmoid sinuses is 323. Therefore, the completed code number is 323-123.

2. SUBSTITUTION

The digits in the master code numbers must never be changed, although sometimes substitutions must be made.

Example:

"134-401 Abrasion (specify region).
The diagnosis on the medical record
is "Abrasion of skin, right inguinal
region." In the topographical section,
inguinal region is 146. Here, the
digit 4 is substituted for the digit
3. The completed code is 146-401.

OPEN-END CODE NUMBERS

Found only in the topographical section. They pertain to regional and general diseases involving more than one anatomical system.

Where open-end code numbers appear, the first digit is also replaced by a pyramid.



Example:

(page 122). The diagnosis on the medical record is "Congenital absence of left forearm." The pyramids must be replaced by digits to represent the part or organ indicated. The topographical code for forearm is 083 (page 5). The completed code is 083-011.

BEHAVIOR OR MALIGNANCY CODE LETTERS -- Behavior code letters are attached to the etiological numbers for neoplasma (new growths) in order to describe the histology of the tissue involved.

The behavior letters are listed at the end of category -8, etiological division, page 99.

Occasionally these letters appear as a part of the basic code number. To determine if a behavior code letter is a part of the basic code number, always refer to category -8 in the etiological division of SNOD, pp. 93-99. If the behavior code letter is listed there, it is a part of the basic code number and must be retained. NEVER DROP these letters--if dropped, the meaning will be changed.

Example: 814A Squamous cell papilloma (benign)(page 94) 814 Epidermoid cardinoma (malignant)

Whenever behavior letters do not appear as a part of the basic code number, physicians and pathologists are the only ones qualified to decide whether a code letter should be assigned.

The behavior letter $\underline{\mathbf{I}}$ indicates the secondary or metastatic site to which the primary tumor has metastasized.

Example: Metastatic epidermoid carcinoma of the lungs 360-8141 (shows metastasis to lungs)

Use of the behavior letter $\underline{\mathbf{I}}$ when the basic code number already contains a behavior letter. The letter $\underline{\mathbf{I}}$ follows the complete basic code number.

Example: Leiomyosarcoma of the uterus with metastasis to right ovary 788-866FI (shows metastasis to ovary)

When the basic code number does not contain a behavior letter but one has been assigned by the physician or pathologist, the behavior letter I follows the basic code number and the behavior letter assigned by the physician follows the letter I.

Example: Undifferentiated adenocarcinoma of the lungs with metastasis to the liver 680-80911G



The decimal digit .0 indicates a primary tumor which has metastasized.

> Epidermoid carcinoma of the cervix with Example: metastasis to the lungs

783-814.0 (shows primary cancer) 360-814I (shows metastatic site)

It is necessary to determine whether the behavior letter is a part of the basic code by referring to pages 72-78 before proceeding to code the disease.

DECIMAL DIGITS (GENERALLY)

Decimals are added to code numbers to impart additional information not given in the basic code number. They are most frequently found in the Etiological Classification, however, they are found in system 2 in the Topographical Classification, page 21. The decimal digits found on page 21 indicate accessory structures to bones, joints, and muscles.

Example: Periostitis, acute of humerus 230.4-100 (page 149)
The decimal digit four indicates the periosteum.

Decimal digits added to etiological numbers indicate end results of disease processes. They mean practically the same in every category EXCEPT category -8 (see page 9--this exercise).

Example: Fistula of larynx due to infection 330-100.3 (page 183)
The decimal digit three indicates fistula.

Structural and functional changes indicated at the end of an etiological section may be used arbitrarily.

Example: Fistula of larynx due to infection 330-1x3

A good rule to follow is to use the complete code as in the first example of fistula of the larynx above. Use the "x" code when there is a need for two codes in order to express two decimal digits.

Example: Fistula of the larynx with cyst formation due to infection 330-1x3.8

The decimal digit .0 is also used to indicate chronicity.

Example: Pleurisy, acute 370-190 Pleurisy, chronic 370-190.0



DILATION AND CURETTAGE

The operative procedure, dilation and curettage, is coded 785-104.

The digit 4 in the third position indicates curettage. This code number is used when the procedure is <u>not</u> associated with pregnancy, removal of retained placenta, placental fragments, or membrane.

The operative procedure to terminate a pregnancy (therapeutic abortion) is coded 7x5-104.

This code must not be used for dilation and curettage for sincomplete abortion. In an incomplete abortion, the placenta and its membrane or their fragments are removed. Earts of the fetus or the entire fetus may be removed. Comes for removal of fetal structures are:

. 790-1	•	•	•	•	•	•			•	•	•	•	o	bry	em	of
.7942-12	•	• ·	•	•	•	•		nt.	ζme	'ag	fı	a	nt	ace	pl	of
. 794-12	•	•	•	•	•	•		ta.	en:	Lac	p]	ð	.n∈	tai	re	of
.7941-12		Je	ુલ!	nbı	ner	1	and	ta	er	Lac	p]	be	.n€	tai	re	of

Correct coding of the above conditions is desired in order to furnish statistical information about pregnancy loses, etc., through the operative index.

The clinical entity for which the procedure was performed must be determined before you can accurately classify and code dilation and curettages. BASIC HUMAN ANATOMY



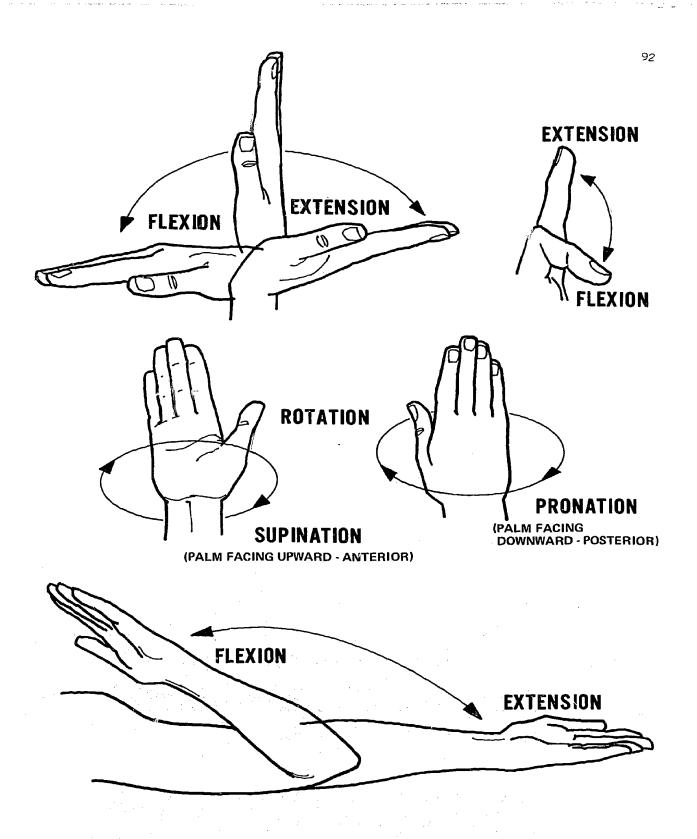
BASIC HUMAN ANATOMY

- I. Topic: Basic Human Anatomy.
- II. Objectives: To present the basic elements of human anatomy.
- III. Procedures and Activities: Lecture.
 - A. Introduction.
 - B. Regions and Landmarks of the Body.
 - C. The Brain.
 - D. The Heart.
 - E. Circulation.
 - F. Tracheobronchial Tree.
 - G. Lungs and Pleura.
 - H. Gastrointestinal Tract.
 - I. The Spleen.
 - J. Kidneys.
 - K. Endocrine Glands.
 - L. Pelvis.
 - M. Lymphatic System.
 - N. Blood.
 - IV. Materials and Resources: Movie, Models, Diagrams.

Grant, J. C. Boilean, A Method of Anatomy, 7th Ed., 1965, The Williams & Wilkins Co., Baltimors.

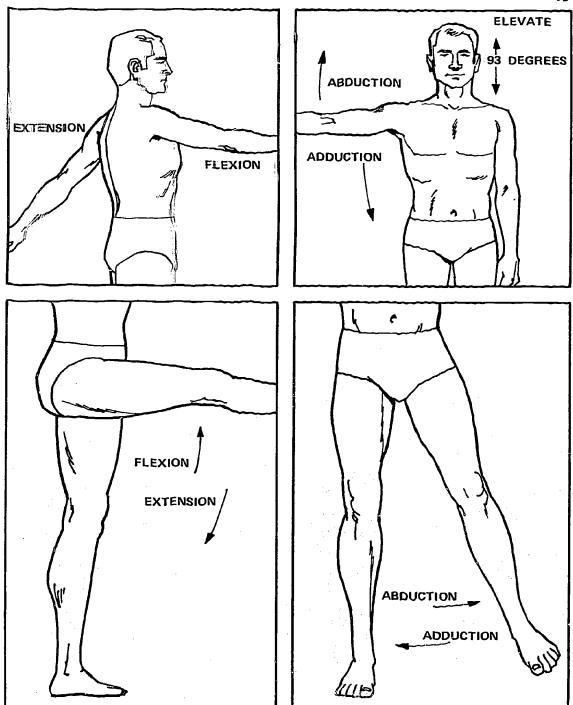
Steen, Edwin B., and Montague, Ashley, Anatomy & Physiology, Vols. 1 & 2, College Outline Series, Barnes & Noble, Inc., New York, 1959.

"Human Body: Circulatory System (14 min.),
Digestive System (14 min.), Excretory System
(14 min.), Respiratory System (14 min.),
Skeleton (14 min.), Mountain Plains Educational,
Madia Council Film Catalog, 1966-68, University
of Colorado, Boulder.



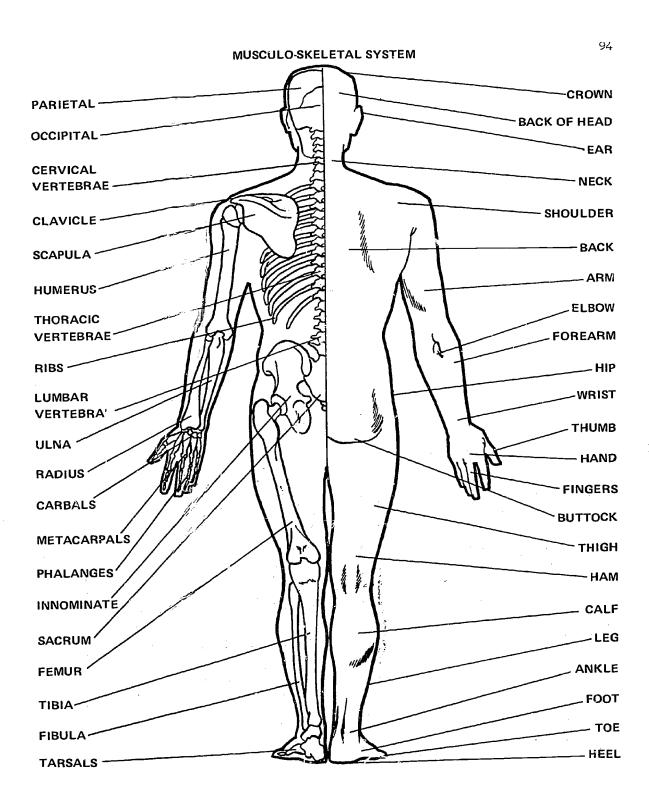




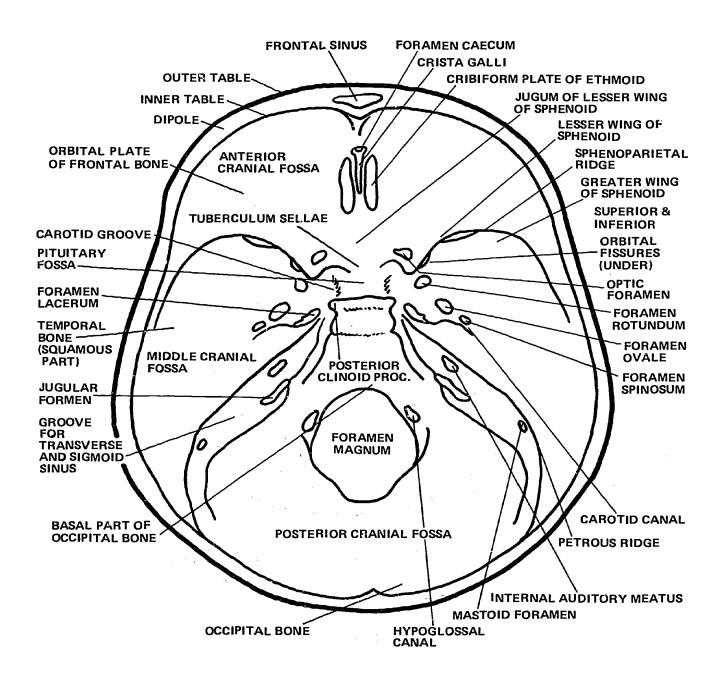




. 100

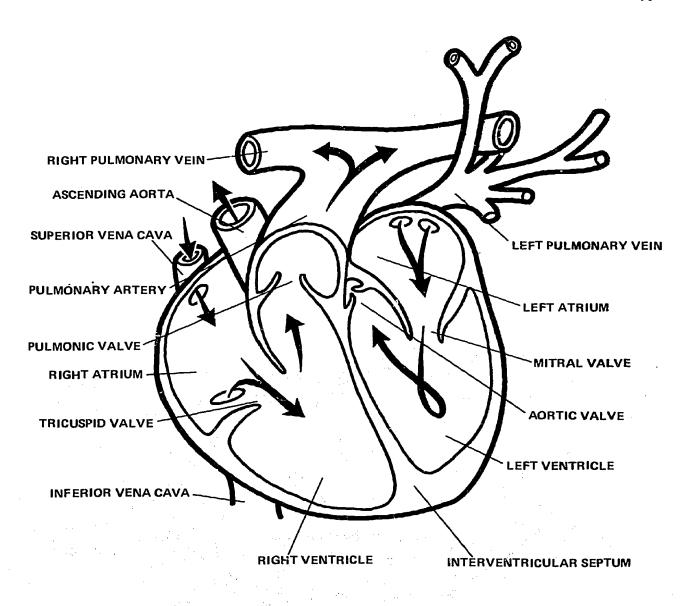






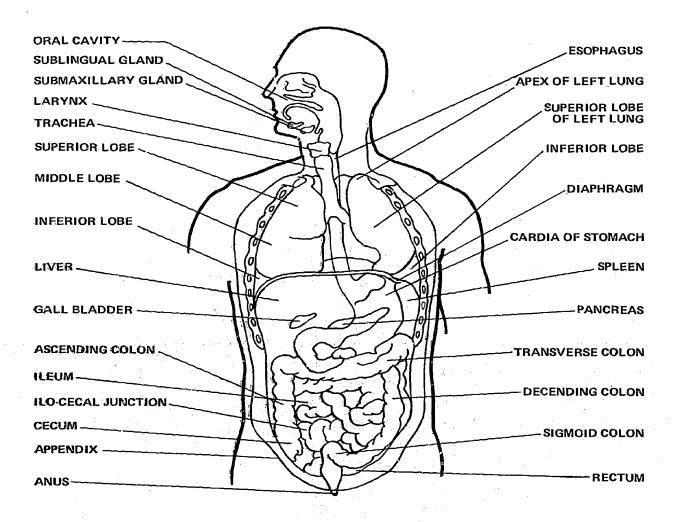
CROSS VIEW OF THE SKULL

ERIC Full Text Provided by ERIC



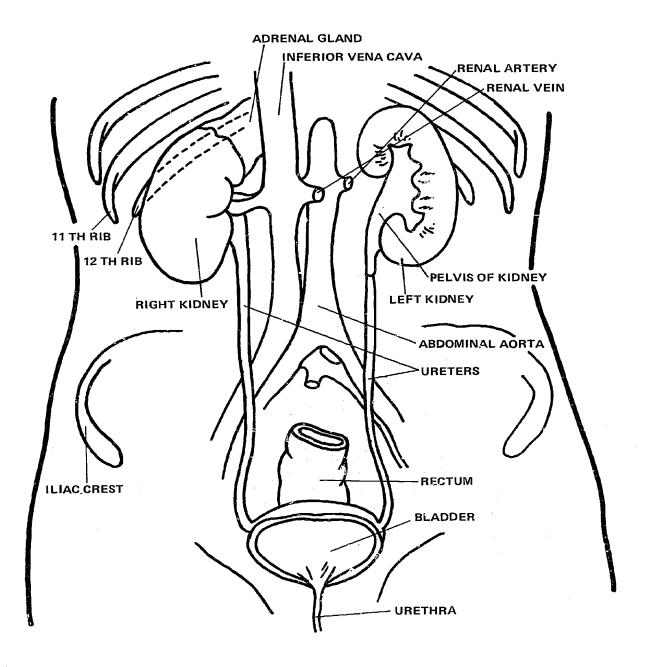
CARDIOVASCULAR SYSTEM





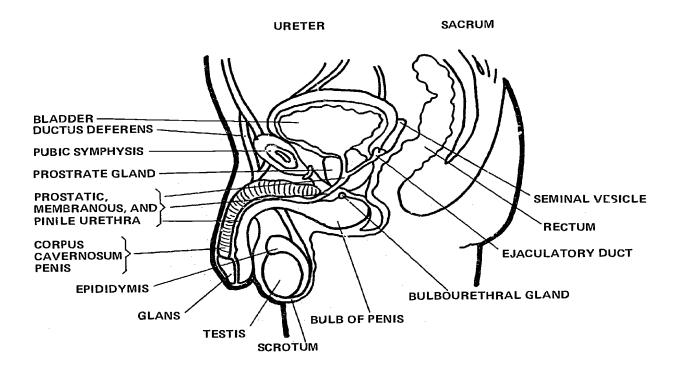
DIGESTIVE SYSTEM AND ASSOCIATED ORGANS





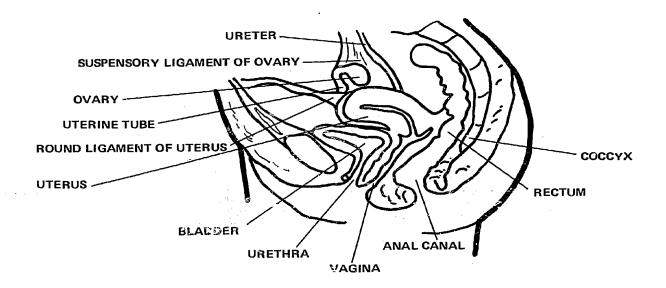


MALE REPRODUCTIVE SYSTEM





FEMALE REPRODUCTIVE SYSTEM





101

MEDICAL TERMINOLOGY



Topic: Medical Terminology. I.

II. Objectives:

- To acquire the ability to pronounce and spell medical words.
- To develop knowledge of the elements of medical words. В.
- To acquire the ability to recognize word parts and C. to detect meanings of unfamiliar medical words.
- To use a medical dictionary intelligently. D.

Activities and Procedures: III.

- Lecture on word building.
 - Discussion of contents found in frames 1-88. The program and the word-building system. formed by:
 - Word root -- foundation of the word. **a** .
 - Compound words can be formed when two word roots are used to build words. ъ.

 - Combining form--root word plus a vowel. Prefix--the word part that goes before a đ. word to change its meaning.
 - Suffix--the word part that follows a word e. root.
 - Unusual letter combinations. 2.
 - pneumonia pn - n
 - chemistry; cheiloplasty gnat; gnathalgia = na-thal' ge-ah ch - k b. gn - n c.
 - phobia; diphtheria ph - fđ.
 - psittacosis; psychosis ps - s e.
 - rhonchus mh - r ſ.
 - cnemis = ne'mis cn - n g.
 - ptosis pt - t
 - Knowledge of singular and plural endings peculiar to Greek and Latin words will prevent many errors. Some common ones are:

Sing	gular	Plural	
a ax is ma	axilla thorax diagnosis; crisis myoma; fibroma	ae aces es mata	axillae thoraces diegnoses; crises fibromata; myomata (also fibromas)

Singular		Plural	
on	phenomenon; ganglion	a	phenomena; ganglia
nx	phalanx; larynx	ges	phalanges; larynges
um us	antrum; septum bacillus; bronchus	a 1	antra; septa bacilli, bronchi

- B. Drill using programmed text.
- C. Classroom drills and reviews.
 - Emphasis will be on the meaning of prefixes, roots, and suffixes.
 - Analysis of the basic structures of medical words.
 - Reference to medical dictionary for new words-pronunciation, spelling, analysis, and definition.
 - 4. Students will be required to memorize some of the most common components.
 - Application of acquired knowledge by combining forms and building medical words.
- D. Written test exercises.
- IV. Materials, Resources, and Bibliography.
 - A. Textbook: Smith, Genevieve L. and Davis, Phyllis E., Medical Terminology, A Programed Text, 2nd Ed., John Wiley and Sons, New York, 1967.
 - B. Overhead projector and transparencies of oral drills.
 - C. Bibliography:

Bollo, Louise E., <u>Introduction to Medicine and Medical</u> Terminology, W. B. Saunders Co., Philadelphia, 1961.

Dorland, William A., <u>Illustrated Medical Dictionary</u>, 24th Ed., W. B. Saunders Co., Philadelphia, 1965.

Harned, Jessie M., Medical Terminology Made Easy, Physicians' Record Co., Berwyn, 1951.

Huffman, Edna K., <u>Manual for Medical Record Librarians</u>, 5th Ed., Physicians' Record Co., Berwyn, 1963.



Frenay, Mary, <u>Understanding Medical Terminology</u>, 3rd Ed., Catholic Hospital Association, St. Louis, 1964.

Szulec, Jeannette A., A Syllabus for the Surgeon's Secretary, 1st Ed., Medical Art Fublishing Co., Detroit, 1965.

Tabor, Clarence W., Cyclopedic Medical Dictionary, F. A. Davis Co., Philadelphia, 1965.

٧. Assignment: Textbook.

Frames 88-664

88-524 Exercises oral spelling 525-711

spelling and definitions

612-634 Urinary system

Frames 665-1245

Digestive system 664-711

712-875 Exercises spelling and definitions

875-1083 1084-1246

Frames 1247-1397

1272-1293 1232-1397 Respiratory system Exercise 1354-1390 Skeletal system spelling and analyzing 1013-1353 #10 Exercise

Frames 1398-1535

Organs of special senses Cardiovascular terms Female genital system

LIST OF ABBREVIATIONS

<u>Abbreviations</u>	Meaning
AA, aa	of each
a.c.	before meals
ACTH	adrenocorticotrophic hormone
A. I.	right ear (auris dextra)
add.	let there be added
	at pleasure; at discretion
ad_lib.	acid-fast
A.F.	albumin-globulin ration
A/G ratio	American Hospital Association
A.H.A.	ankle jerk
A.J.	Citize Joseph
Alb.	albumin
Alt. dieb.	every other day (alternis diebus)
Alt. hor.	every other hour (alternis nour)
Alt. noct.	THOUT OTHER NIGHT (ALTERNIS HOUSE DAS)
A.M.	before noon (ante maridiem)
_	anesthesia
Anes.	hefore (ente)
Ante	Aortic 2nd heart sound greater than
A_2 P_2	nulmonic 2nd sound
A . /D-	Aortic 2nd heart sound less than
A ₂ <\p ₂	pulmonic 2nd sound
aq.	water
ay.	
aq. dist.	distilled water
a.s.	left ear (auris sinistra)
A.T.S.	antitetanic serum
A.V.	auriculoventricular Aschheim Zondek test
A.Z. Test	Aschneim Zonder Cest
Page	bacterium
Bact. Ba. enem.	barium enema
Bib.	drink
b.i.d.	twice a day (bis in die)
B.M.	bowel movement
	beret metabalia Mata
B.M.R.	basal metabolic rate
B.P.	blood pressure benign prostatic hypertrophy
B.P.H.	breath sounds
b.s.	
ं	with
Ca	carcinoma
c.b.c.	complete blood count
CC .	cubic centimeters
C.C.	chief complaint
cf.	compare
~~·	



C.I. cm. C.M. C.N. C.N.s.	color index centimeter tomorrow morning (cras mane) tomorrow night (cras nocte) central nervous system
C.P.C. C.S.F. C.V. C.V.A.	clinical pathological conference cerebrospinal fluid temorrow night (cras vespere) Cerebrovascular accident or Costo-vertebral angle dilation and curettage
decub. De d. in d. Dieb. alt. Dieb. tert. D.O.A.	lying down (decubitus) from day to day (de die in diem) on alternate days (diebus alternis) every third day (diebus tertiis) dead on arrival
dr. Dx ECG or EKG E.D.C. EEG	dram diagnosis electrocardiogram estimated date of confinement electroencephalogram
E.E.N.T. E.N.T. E.O.M. E.S.R. F.H.	eye, ear, nose, and throat ear, nose, and throat extraocular movements erythrocyte sedimentation rate family history
F.H.S. Fl., fld. G.B. GC G.E.	fetal heart sounds fluid gallbladder gonorrhea gastroenterology
G.I. gm. G.P. gr. gt., gtt.	gastrointestinal gram general practitioner grain drop; drops
G.U. Gyn h. Hb., Hbg. H.d., h.s.	genitourinary gynecology hour hemoglobin at bedtime
H.C.V.D. /HPF H.V.D. I.M. In d.	hypertensive cardiovascular disease per high power field hypertensive vascular disease intramuscular daily



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Internal Medicine
Int. Med.
                    intelligence quotient
I.Q.
                    intercostal space
I.V.P.
                    intravenous
                    intravenous pyelogram
                    knee jerk
k.j.
                    knee kick
k.k.
                    kidney, ureter, and bladder
K.U.B.
\mathbf{L}_{ullet}
                    1st lumbar vertebra; 2nd lumbar vertebra
L_1; L_2
                    left border of dullness (of heart to
L.B.D.
                       percussion)
                    left costal margin
L.C.M.
                    left lower quadrant
L.L.Q.
                    local medical doctor
L.M.D.
                     last menstrual period
L.M.P.
                    left occipito-anterior
L.O.A.
                     liver, spleen, and kidneys
L.S.K.
                     living and well
L. & W.
                    McBurney's point
McB. pt.
                    mean corpuscular hemoglobin
MCH
                    mean corpuscular hemoglobin concentration
MCHC
                     mean corpuscular volume
MCV
                     milligram
mg.
                     mitral insufficiency
M.T.
                     millimeter
mm.
                     mitral stenosis
M.S.
                     nonprotein nitrogen
N.P.N.
O.B.; Ob.; Obs.
                     obstetrics
                     right eye (oculus dexter) left eye (oculus sinister)
0.D.
0.8.
                     ounce
P. & A.
                     percussion and auscultation
                     A woman having borne one child
Para I
                     pernicious anemia
PA
                     after meals
pc.
                     physical examination
P.E.; Px
                     past history
P.H.
                     physical medicine
Phys. Med.
                     present illness
P.I.
                     pelvic inflammatory disease
P.I.D.
                     point of maximal impulse (of heart on
P.M.I.
                       chest wall)
                     polymorphonuclear neutrophilic leukocytes
P.M.N.
                     whenever necessary
 p.r.n.
                     prognosis
 prog.
                     phenolsulfonphthalein test (kidney)
 P.S.P.
                     psychiatry
 Psy.
                     psychology
 Psych.
```

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114

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Pt.
P.T.
                     patient
                     physical therapy
                     daily
auotid
q.
                     every
q.d.
                     every day (quaque die)
                     every hour (Quaque hora)
q.h.
                     four times a day (quater in die)
q.1.d.
                     every 2 hours
every night (quaque nocte)
q. 2h
q.n.
                     sufficient quantity
q.s.
                     quantity not sufficient
q.n.s.
                     red blood cells
R.B.C.
                    right lower quadrant
R.L.Q.
                     round, regular, and equal (of pupils)
R.R.&E.
                     without
33
                     one half
                     let it be labeled
sig.
                     specific gravity
Sp.gr.
                     sedimentation rate (C.S.R.-corrected
S.R.
                       sedimentation rate)
                     one half
SS;ss
                     one and one half
Tss.
                     at once
Stat.
                     let it stand
Stet.
                     temperature, pulse, respiration tetanus antitoxin
T.P.R.
T.A.T.
                     tuberculosis; tubercle bacilli
T.B.; t.b.; Tbc
T.F.
                     tactile fremitus
                     three times a day (ter in die)
T.I.D.; t.i.d.
                     tincture
Tr.; tr.
                     venersal disease
V.D.
                     valvular disease of heart
V.D.H.
                     vocal fremitus
V.F.
WBC
                     white blood cells (white blood count)
```



ABBREVIATIONS

Abbreviations	Meaning
A.A.M.R.L.	American Association of Medical Record Librarians
A.M.A.	American Medical Association
A.H.A.	American Hospital Association
F.A.C.S.	Fellow, American College of Surgeons
F.A.C.P.	Fellow, American College of Physicians
F.A.C.H.A.	Fellow, American College of Hospital Administrators
U.S.P.	United States Pharmacopeia
U.S.P.H.S.	United States Public Health Service
AgNO3	silver nitrate
ASA	aspirin (acetylsalicylic acid)
co ₂	carbon dioxide
H ₂ 0	water
HC1	hydrochloric acid
KMnO _l	potassium permanganate
K	potassium
KI	potassium iodide
NaC1	sodium chloride (common salt)
N20	nitrous oxide
NH ₄ C1	ammonium chloride
02	oxygen
(C ₂ H ₅) ₂ O	ethyl ether
С ₂ H ₅ C1	ethyl chloride
с3н6	cyclopropan e

EXERCISE I

Build a word that means:

- 1. enlargement of the extremities
- 2. condition of blueness
- 3. skin that is abnormally white
- 4. record of electrical impulses given off by heart
- 5. inflammation of the stomach
- 6. vomiting excessively
- 7. excision of a gland
- 8. tumor containing fat
- 9. another name f the muccsa
- 10. overdevelopment
- 11. brain tumor
- 12. surgical repair of a joint
- 13. resembling or like a tooth
- 14. movement toward a midline
- 15. herniation of the bladder
- 16. process of taking pelvic measurements
- 17. inflammation of the meninges
- 18. producing pus or formation of pus (noun)
- 19. wandering away from (the normal course)
- 20. abnormally slow eating
- 21. bone tumor
- 22. pertaining to ribs
- 23. toothache
- 24. pertaining to abdomen and bladder
- 25. the instrument used to take pelvic measurements



MEDICAL TERMINOLOGY EXERCISE I--ANSWERS

- 1. acromegaly
- 2. cyanosis
- 3. leukoderma (IA)
- 4. electrocardiogram
- 5. gastritis
- 6. hyperemesis
- 7. adenectomy
- 8. lipoma
- 9. mucous membrane
- 10. hypertrophy
- 11. encephaloma; cerebroma
- 12. arthroplasty
- 13. dentoid
- 14. adduction
- 15. cystocele
- 16. pelvimetry
- 17. meningitis
- 18. pyogenesis
- 19. aberrant
- 20. bradyphagia
- 21. osteoma
- 22. costal
- 23. dentalgia; dentodynia
- 24. abdominocystic
- 25. pelvimeter

MEDICAL TERMINOLOGY EXERCISE II--ORAL SPELLING

Spell and Give a Brief Meaning for 25 Words

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.
- 17.
- 18.
- 19.
- 20.
- 21.
- 22.
- 23.
- 24.
- 25.

EXERCISE II--ORAL SPELLING ANSWERS

- 1. cephalodynia
- 2. gastromegaly
- 3. hypodermic
- 4. carcinoma
- 5. gastroduodenostomy
- 6. laryngalgia
- 7. leukocytopenia
- 8. dermatosis
- 9. acroparalysis
- 10. adenoma
- 11. lipoid
- 12. cephalic
- 13. duodenal
- 14. acrodermatitis
- 15. chondrocostal
- 16. osteomalacia
- 17. costectomy
- 18. tachycardia
- 19. cholecystitis
- 20. abdominocentesis
- 21. thoracotomy
- 22. hydrocephalus
- 23. suprapubic
- 24. staphylococcus
- 25. kinesiplogy



EXERCISE III

Build a word that means:

- 1. breathing with difficulty
- 2. spasm of a muscle
- 3. destruction of spermatozoa
- 4. incision into an eyelid
- 5. surgical repair of the renal pelvis
- 6. tumor containing black pigment
- 7. resembling a fungus
- 8. biting of the lips
- 9. inflammation of the gums
- 10. inflammation of the colon
- 11. breathing rapidly
- 12. spasm of a vessel
- 13. suture of the kidney
- 14. prolapse of an eyelid
- 15. inflammation of the renal pelvis
- 16. cell containing black pigment
- 17. study of fungi
- 18. incision of the lips
- 19. excision of part of the gums
- 20. plastic repair of the rectum

MEDICAL TERMINOLOGY EXERCISE III--ANSWERS

- 1. dyspnea
- 2. myospasm
- 3. spermatolysis
- 4. blepharotomy
- 5. pyeloplasty
- 6. melanoma; melanocarcinoma
- 7. mycoid; fungoid
- 8. cheilophagia
- 9. gingivitis
- 10. colonitis; colitis
- 11. tachypnea
- 12. angiospasm
- 13. nephrorrhaphy
- 14. blepharoptosis
- 15. pyelitis
- to. melanocyte
- 17. mycology
- 18. cheilotomy
- 19. gingivectomy
- 20. rectoplasty

MEDICAL TERMINOLOGY EXERCISE IV--ORAL SPELLING

25 WORDS GIVEN ORALLY

- l.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.
- 17.
- 18.
- 19.
- 20.
- 21,
- 22.
- 23.
- 24.
- 25.



EXERCISE IV -- ORAL SPELLING ANSWERS

SPELL AND ANALYZE THE FOLLOWING WORDS:

- 1. bradypepsia
- 2. neurectomy
- 3. angiography
- 4. aganesis
- 5. hematology
- 6. hysterosalpingo-cophorectcmy
- 7. hepatorrhaphy
- 8. pancreatectomy
- 9. nephropexy
- 10. ure throspasm
- 11. pneumorrhagia
- 12. pneumothorax
- 13. hypoglossal
- 14. gastrectasia
- 15. rectoscopy
- 16. dyspepsia
- 17. neurolysis
- 18. urethrocystitis
- 19. enterocele
- 20. pancreatolithiasia
- 21. ureteropyeloplasty
- 22. gastrorrhagia
- 23. cystorrhaphy
- 24. pneumonia
- 25. stomatodynia



EXERCISE V

Build a word that means:

- 1. surgical fixation of a wein
- 2. cocci that grow in pairs (double)
- 3. surgical crushing of a nerve
- 4. speech that is rapid
- 5. overdevelopment
- 6. abnormally small head (noun)
- 7. inflammation of many joints
- 3. an adjective which means living without oxygen
- 9. having an affinity for (attraction to) color
- 10. rupture of the liver
- 11. hardening of a vein
- 12. loss of voice
- 13. surgical crushing of a stone (calculus)
- 14. speech that is very slow
- 15. pertaining to heat (adjective)
- 16. inflammation of many nerves
- 17. abnormal fear of air
- 18. breathing with ease
- 19. excessive thirst
- 20. seeing two images of a single object
- 21. medical specialty that deals with the nervous system
- 22. underdevelopment
- 23. abnormally large head
- 24. very large cells
- 25. abnormally small ear

EXERCISE V -- ANSWERS

- 1. phlebopexy
- 2. diplococcus
- 3. neurotripsy
- 4. tachyphasia
- 5. hyperplasia: hypergenesis: hypertrophy
- 6. microcephalus
- 7. polyarthritis
- 8. anaerobic
- 9. chromophilic (IA)
- 10. heratorrhexis
- 11. phlebosclerosis
- 12. aphonia
- 13. lithotripsy
- 14. bradyphasia
- 15. thermal (IC)
- 1.6. polyneuritis
- 17. aerophobia
- 18. eupnea
- 19. polydipsia
- 20. diplopic; ambiopia
- 21. neurology
- 22. hypoplasia: hypogenesis: atrophy
- 23. macrocephalus
- 24. macrocytes
- 25. micretia



EXERCISE VI

SPELL AND BRIEFLY DEFINE 25 WORDS

- 1.
- 2.
- 3•
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.
- 17.
- 18.
- 19.
- 20.
- 21.
- 22.
- 23.
- 24.
- 25.



EXERCISE VI--ANSWERS

- 1. anesthesia
- 2. hyperalgesia
- 3. myelitis
- 4. phonic
- 5. psychoneurosis
- 6. prognosis
- 7. syndrome
- 8. anterolateral
- 9. analgesia
- 10. salpingitis
- 11. posterolateral
- 12. diagnosis
- 13. syndactyly
- 14. polyneuritis
- 15. cephalic
- 16. caudal
- 17. dystocia
- 18. neurorrhaphy
- 19. arteriosclerosis
- 20. stomatitis
- 21. esophagus
- 22. pyopneumothorax
- 23. hypertrophy
- 24. eupnea
- 25. aerophobia



EXERCISE VII

- 1. incision into the abdominal wall
- 2. prolapse of viscera
- 3. excessive sweating
- 4. abnormal fear of women
- 5. control (of flow) in arteries
- 6. surgical fixation of the vagina
- 7. having water removed from something (noun)
- 8. out of the normal place
- 9. fever
- 10. without fever
- 11. suture of the vagina
- 12. any disease peculiar to women
- 13. excessive menstruation or menstrual hemorrhage
- 14. painful menstruation
- 15. white blood cell
- 16. red blood cell
- 17. unequality in size of the cells
- 18. instrument used for examination of interior of the eye
- 19. word for undescended testicle
- 20. inflammation of the vagina
- 21. an adjective meaning within the cranium
- 22. situated behind the colon
- 23. word for turning forward
- 24. a woman who has borne more than one child
- 25. excision of the uterus
- 26. enlargement of the spleen



MEDICAL TERMINOLOGY EXERCISE VII--ANSWERS

- 1. laparotomy
- 2. visceroptosis
- 3. hidrorrhea: hyperhidrosis
- 4. gynecophobia: gynephobia
- 5. arteriostasis
- 6. colpopexy
- 7. dehydration
- 8. ectopic
- 9. febrile
- 10. afebrile
- 11. colporrhaphy
- 12. gynecopathy
- 13. menorrhagia
- 14. dysmenorrhea
- 15. leukocyte
- 16. erythrocyte
- 17. anisocytosis
- 18. ophthalmoscope
- 19. cryptorchidism
- 20. colpitis: vaginitis
- 21. endocranial
- 22. retrocolic
- 23. anteversion
- 24. multipara
- 25. hystersctomy
- 26. splenomegaly



EXERCISE VIII

Give	the	word	part	for	the	following:
ULVO	0110	44 CT C				

G1V0	tue Mond bare for	CHG IOTIONTS	•6•
1.	testes	26.	from
2.	fixation	27.	incision
3.	hidden	28.	excision
4.	dilatation	29.	formation of a communication
5.	single	30.	surgical fixation
6.	pus	31.	surgical fusion
7.	blood	32.	suture
8.	self	33•	crushing
9.	liver	34.	to view
10.	around	35•	destruction
11.	behind-backward	36.	over-upon
12.	misplaced	37.	against
13.	uterus	38.	together
14.	outer	39.	above
15.	middle	40.	ovary
16.	inner	¥1.	fallopian tube
17.	hemorrhage	¥2 .	skin
18.	flow	43.	pain
19.	suture	jłj ⁱ •	new
20.	pain	45.	before
21.	eat	46.	behind
22.	cartilage	47.	within
23.	sleep	48.	under
24.	fingers-toes	49.	below
		_	· · · · · · · · · · · · · · · · · · ·



toward

25.

50. outside of or beyond

EXERCISE VIII--ANSWERS

1.	testes orchid	26.	fromab; de; ex
2.	fixation pexy	27.	incision otomy
3•	hiddencrypt	28.	excisionectomy
ч.	dilatationectasia	29.	formation of a communication ostomy
5.	singleuni	30.	surgical fixation pexy
6.	puspy	31.	surgical fusiondesis
7.	bloodhemo: hemato	32.	suture orrhaphy
8.	selfauto	33.	crushing paxy: tripsy
9.	liverhepato	34.	to view oscopy
10.	aroundperi	35.	iestruction lysis
11.	behind-backwardretr	036	over-uponepi
12.	misplacedectop	37.	againstanti
13.	uterushyster	38.	tog thersyn: con
14.	outerecto	39•	abc supra
15.	middlemeso	40.	ov y oophor
16.	innerendo	41.	fa lopian tubesalping
17.	hemorrhage orrhagia	42.	skinderm: dermato
18.	flow orrhea	43.	pain algia: dynia
19.	suture orrhaphy	₩.	newneo
20.	paindynia: algia	45.	beforeante: pre
21.	eatphag	46.	behindretro
22.	cartilage chondr	47.	
23.	sleepnarco	48.	
24.	fingers-toesdactyl	49.	
25.	towardad	50.	outside of or beyond: around or nearpara
	•		

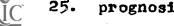
EXERCISE IX

BUILD A WORD THAT MEANS:

- excision of the cervix
- 2. instrument to examine the larynx
- 3. inflammation of the pharynx
- 4. spasm of the larynx
- 5. examination of the bronchus
- 6. puncture of the pleura
- 7. controlling flow of blood
- 8. pertaining to the nose
- 9. originating in the bronchus
- 10. situated within the cranium
- 11. within the substance of a muscle
- 12. situated behind the nose
- 13. without fever
- 14. occurring before childbirth
- occurring after birth 15.

FORM THE PLEURALS OF THE FOLLOWING:

- 16. appendix
- 17. vertebra
- 18. cortex
- 19. арех
- 20. thorax
- 21. bronchus
- 22. bacterium
- 23. rhabdomyosarcoma
- 24. naris
- prognosis



EXERCISE IX -- ANSWERS

BUILD A WORD THAT MEANS:

- 1. excision of the cervix. . .cervicectomy
- 2. instrument to examine the larynx. . .laryngoscope
- 3. inflammation of the pharynx. . . pharyngitis
- 4. spasm of the larynx. . .laryngospasm
- 5. examination of the bronchus. . . bronchoscopy
- 6. puncture of the pleura. . .pleurocentesis: thoracocentesis: thoracentesis
- 7. controlling flow of blood. . . hemostasis: hemotostasis
- 8. pertaining to the nose. . . nasal: rhinal
- 9. originating in the bronchus. . .bronchogenic
- 10. situated within the cranium. . .intracranial
- 11. within the substance of a muscle. . .intramuscular
- 12. situated behind the nose. . .postnas_l
- 13. without fever. . . afebrile
- 14. occurring before childbirth. . . antepartum
- 15. occurring after birth. . . postnatal

FORM THE PLEURALS OF THE FOLLOWING:

- 16. appendix. . . appendices
- 17. vertebra. . . vertebrae
- 18. cortex. . . cortices
- 19. apex. . . apices
- 20. thorax. . . thoraces
- 21. bronchus. . . bronchi
- 22. bacterium. . . bacteria
- 23. rhabdomyosarcoma. . . rhabdomyosarcomata
- 24. naris. . .nares
- 25. prognosis. . .prognoses

EXERCISE X--SPELLING

SPELL THE WORD, DRAW LINES INDICATING THE WORD PART, AND GIVE BRIEF DEFINITION.

- l.
- 2,
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
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- 21.
- 22.
- 23.
- 24.
- 25.



EXERCISE X -- SPELLING ANSWERS

- 1. aseptic
- 2. necrosis
- 3. narcolepsy
- 4. exacerbation
- 5. antipyretic
- 6. auscultation
- 7. contraindication
- 8. percussion
- 9. splenectomy
- 10. symphysis
- ll. analgesia
- 12. apnea
- 13. epigastrium
- 14. inflamed
- 15. bifurcation
- 16. dissection
- 17. euphoria
- 18. adduct
- 19. abduct
- 20. circumoral
- 21. suprapubic
- 22. semiconscious
- 23. dystrophy
- 24. consanguinity
- 25. ankyloglossia

MEDICAL TERMINOLOGY EXERCISE XI--SKELETAL SYSTEM

GIVE	THE MEDICAL TERM FOR THE FOLLOWING:
1.	breast bone
2.	collar bone
3.	shoulder bone
4.	cheek bone
5.	shin bone
6.	thigh bone
7.	wrist bones
8.	ankle bones
9.	upper arm bone
10.	knee cap
11.	upper jaw bone
12.	lower jaw bone
13.	bones of the fingers and toes
14.	a rounded process that occurs on many bones
-	the lower posterior bone of the pelvis
LABE	L THE ABOVE MEDICAL TERMS ON THE SKELETAL DRAWING IN YOUR

Note: See Plate XL, Dorland's Illustrated Medical Dictionary, 24th Ed., p. 1395.



MEDICAL TERMINOLOGY EXERCISE XI--ANSWERS

GIVE THE MEDICAL TERM FOR THE FOLLOWING:

- 1. breast bone . . . sternum
- 2. collar bone . . . clavicle
- 3. shoulder bone . . . scapula
- 4. cheek bone . . . malar: zygomatic
- 5. shin bone . . . tibia
- 6. thigh bone . . . femur
- 7. wrist bones . . . carpals
- 8. ankle bones . . . tarsals
- 9. upper arm bone . . . humerus
- 10. knee cap . . .patella
- 11. upper jaw bone . . . maxilla
- 12. lower jaw bone . . . mandible
- 13. bones of the fingers and toes . . . phalanges
- 14. a rounded process that occurs on many bones . . . condyle
- 15. the lower posterior bone of the pelvis . . . ischium

REVIEW EXERCISE

MEDICAL TERMINOLOGY--URINARY SYSTEM

ANATU	MICAL TERMS				
	IDNEY NEPHR:REN	2 bean-shaped organs situated in lumber regionsecretes urine. Basin of the kidney. Funnel-shaped			
	RETER	enlargement as it enters the kidney.			
		Tube which conveys the urine from kidney to the bladder. Reservoir for the urine.			
	RETHRA				
_	RIGONE	The canal which conveys the urine from the bladder to the exterior of the body. A triangular area on the interior of the bladder at the opening of the ureters and the mouth of the urethra.			
SYMPT	OMATIC TERMS: GIVE TE	IE MEANING OF THE FOLLOWING:			
ANURI.	A				
	INURIA				
PYURI.	APAINF	TUL OR DIFFICULT URINATION			
BL00D	IN THE URINE	SUGAR IN THE URINE			
PASSA	GE OF LARGE AMOUNTS OF	URINE			
EXCE?	rion at nigh	T			
DIAGN	Ouga 1ERMS				
infla	MMATION OF THE URETER_	OF BLADDER			
INFLA	MMATION OF THE URETHRA	OF TRIGONE			
ACCUM	CULATION OF PUS IN THE	URETER			
DISCH	ARGE	URETER WITH URINE OR WITH A WATERY			
STONE	IN THE BLADDER	IN URETER			
HARDE	NING OF THE KIDNEY	RENAL CALCULI			
INFLA	MMATION OF THE PELVIS	OF THE KIDNEY			
ANY D	DISEASE OF THE KIDNEY_	TUMOR OF THE KIDNEY			
DOWNW	ARD DISPLACEMENT OF THE	E KIDNEY			
INFLA	MMATION OF THE RENAL E	PELVIS AND KIDNEY			



REVIEW EXERCISE

MEDICAL TERMINOLOGY -- DIGESTIVE SYSTEM

PRIN	CIPAL ORGANS OF THE DIGE	STIVE	SYSTEM: GIVE THE ROOT WORD.
1.	MOUTH	7.	GALLBLADDER
2	PHARYNX	8.	LIVER
٦.	ESOPHAGUS	9.	PANCREAS
4.	STOMACH	10.	SALIVARY GLANDS
5.	INTESTINES	. 11.	APPENDIX
6.	RECTUM	. 12.	ANUS
GIVE	THE MEANING OF THE FOLI	COWING	WORD PARTS:
13.	CHEIL	20.	LABI
14.	GLOSS	21.	GINGIV
15.	ODONT	_ 22.	DOCH_
16	DENT	_ 23.	ANGI
ז <i>יי</i>	STAL	_ 24.	COLO
18.	PTYAL_	_ 25.	PHAGIA
19.	LITHIASIS	_ 26,	EMESIS
27.	THE SPECIALIST IN THIS	FIELD	IS
28.	VESTS THE VISCERA IS		NES THE ABDOMINAL WALL AND IN-
DIV	IDE THE WORDS BELOW AND		
29.	HEMATEMESIS		
30.	PYLOROSPASM	<u>. 2000</u>	
31.	GASTROCOLITIS		
32.	CHOLECYSTITIS		
33•	HEPATOMEGALY		
34.	ENTEROPTOSIS	and the second	
35.	ANOREXIA		
36.	DYSPHAGIA		



MEDICAL TERMINOLOGY-DIGESTIVE SYSTEM (continued)
DIVIDE THE WORDS BELOW AND GIVE BRIEF MEANING:

37.	BRADYPHAGIA
38.	ENTERIC
39.	ENTEROCELE
40.	CHOLANGITIS
41.	CHOLECYSTOLITHIASIS
42,	GASTROSC OPE
43.	ILEOCOLITIS
44.	DUO DE NUM
45.	DYSPEPSIA
46.	GLOSSALGIA
47.	
48.	PANCREATOLYSIS
49.	MACROGLOSSIA
50.	
51.	PROCTOLOGIST
GIV	E THE MEDICAL TERM FOR THE FOLLOWING:
52.	PLASTIC REPAIR OF THE LIPS AND MOUTH
53.	SUTURE OF THE LIVER
54.	INCISION INTO THE INTESTINES
55.	EXCISION OF THE STOMACH
56.	MAKING A COMMUNICATION BETWEEN THE ESOPHAGUS AND DUODENUM_
57.	
58.	REMOVAL OF STONES FROM THE GALLBLADDER
59.	SUTURE OF THE TONGUE
	PLASTIC REPAIR OF THE ANUS
60.	
61.	SURGICAL CREATION OF AN OPENING BETWEEN TWO PARTS OF THE



REVIEW EXERCISE

MEDICAL TERMINOLOGY--RESPIRATORY SYSTEM

GIVE THE ROOT WORD FOR THE FOLLOWING ORGANS OF THE RESPIRATORY SYSTEM, BRIEFLY DEFINE:	
•	
NOSELARYNX	
TRACHEA	
BRONCHUS	
LUNGS	
PLEURA	
GIVE THE MEANING OF THE WORD P	ARTS:
OSMIA	DYSEU
TIPMO	EU
PNEA SEPT	CYAN PTYAL
SEPT	PNEUMO
PHON	F RES STATE OF THE
INFLAMMATION OF THE BRONCHUS_INFLAMMATION OF THE LARYNX, THE	RACHEA, AND BRONCHUS
,	
EASY OR NORMAL BREATHING	
DIFFICULTY IN SPEAKING	
NOSEBLEED	
SPITTING OF BLOOD	VOMITING OF BLOOD
LOSS OF VOICE	BLUENESS OF THE SKIN_
A NASAL STONE	PERTAINING TO LARINA
STRICTURE OR NARROWING OF THE	BRONCHIAL TUBES
	TERIOR OF THE BRONCHUS



REVIEW EXERCISE

MUSCULOSKELETAL SYSTEM

GIVE	THE MEDICAL WORD PART FOR THE FOLLOWING:
1.	BONE
2.	MARROW
3.	MUSCLE
ц . •	JOINT
5.	CARTILAGE
6.	TENDON
GIVE	A BRIEF MEANING OF THE FOLLOWING WORDS:
7.	ANKYLOSIS
8.	BURSITIS
9.	CHONDROMA
10.	HEMARTHROSIS
11.	ARTHRALGIA
12.	MYOSITIS
	KYPHOSIS
•	LORDOSIS
	SCOLIOSIS
16,	ENDOSTEUM
17.	PERIOSTEUM
18.	OSTEOMYELITIS
19.	SEQUESTRUM_
so.	ARTHROPATHY
SURG:	ICAL TERMS:
21.	ARTHRODESIS
22.	CHONDROTOMY
23.	МУОЛЯНАРНУ
24.	OSTECTOMY
25.	SEQUESTRECTOMY



ORGANS OF VISION

WORD ROOTS

MOLLD HOOTE			
CYCL DACRY, LACRIM DACRYADEN	EYELID CORNEA EYELASH PUPIL CILIARY BODY TEAR TEAR GLAND TEAR SAC CORNEA	OCUL OPHTHALM OPT, OPIA OPS PHAK RETIN SCLERA	EYE EYE VISION SIGHT LENS RETINA HARD
GIVE THE MEDICAL	WORD FOR THE FO	LLOWING:	
1. INFLAMMATIO	N OF THE IRIS		
2. INFLAMMATIO	N OF THE IRIS AN	D CILLIARY BO)DY
3. DIMNESS OF	VISION		
4. DOUBLE VISI	on		
5. PROTRUSION	OF THE EYEBALL		

FARSIGHTE DNESS_____

8. INFLAMMATION OF A LACRIMAL GLAND

6.

7.

9. INFLAMMATION OF A LACRIMAL SAC_____

NEARSIGHTE DNESS_____

lo. DROOPING OF THE EYELID

11. INFLAMMATION OF THE CONJUNCTIVA

12. RESEMBLING THE RETINA

13. INFLAMMATION OF THE CORNEA_

14. PROLAPSE OF THE IRIS_____

15. PRESENCE OF CALCULI IN A TEAR DUCT_____

16. EXCESSIVE FLOW OF TEARS_____

17. REMOVAL OF A LACRIMAL SAC_____

18. SUTURE OF AN EYELID

19. PLASTIC REPAIR OF RETINA_____

20. INSTRUMENT FOR INCISING THE CORNEA____



REVIEW EXERCISE ORGAN OF HEARING

EAR

TUBE

AUR EAR OT MYRING EARDRUM SALPING TYMPAN EARDRUM

GIVE THE MEANING OF THE FOLLOWING:

1.	OTITIS MEDIA
2.	OTITIS EXTERNA
3.	MYRINGITIS
4.	TYMPANIC
5.	OTOGENOUS
6.	IMPACTED CERUMEN
7.	TINNITUS
	OTONEURALGIA
	HELIX
	OTOPYOSIS
	AURICLE, PINNA_
	MACROTIA_
	MICROTIA
	PREAURICULAR
	TYMPANOTOMY
	MYRINGOMYCOSIS_
	VERTIGO
1 /	V (% (C) 1 1 UTM



CARDIOVASCULAR SYSTEM

GIVE THE MEANING OF THE FOLLO	WING WORD PARTS:
CARDI	BLAST
COR	CYTE
ANGI	HEM
ARTER	HEMAT
ERYTHR_	EMIA
I.EUK	OSIS
PHAG	PENIA
GIVE THE MEANING OF THE FOLLO	WING WORDS:
ENDOCARDIUM_	
MYOCARDIUM_	
PERICARDIUM	
SEPTUM	
ATRIUM OR AURICLE	
VENTRICLE	
ARRHYTHMIA	
BRADYCARDIA	And the second s
TACHYCARDIA	
PALPITATION	
THROMBUS	
EMBOLUS	
STENOSIS_	
DEXTROCARDIA	
CARDIOMEGALY	
CARDIOMALACIA	
AUSCULTATION	
PERCUSSION	



CARDIOVASCULAR SYSTEM (continued)

RALES
SYSTOLIC
DIASTOLIC
ACROCYANOSIS
ARTERIOSCLEROSIS_
PHLEBITIS
THROMBOPHLEBITIS
CARDIORRHEXIS
AORTIC VALVULITIS
PYOP NEUMOTHORAX
HYDROTHROX
ANEURYSM
HEMOPERICARDIUM
LEUKOCYTOSIS
ANISOCYTOSIS
LEUKOCYTOPENIA
POIKILOCYTOSIS
BASOPHIL
ERYTHROCYTOSIS
ANOXEMIA
HYPOPROTRINEMIA
MICROCYTIC
ERYTHROBLASTOSIS FETALIS
NEUTROPHIL
MACROCYTE



MEDICAL TERMINOLOGY -- FEMALE GENITAL SYSTEM

COLP CERVIC TRACHEL METRO HYSTER	Vagina Neck Neck Uterus Uterus	OOPHOR OO, OVI, MENO EPISIC SALPING	OVO	OVARY EGG MONTH, VULVA TUBE	menses
ANATOMICAL	TERMS				
PERINEUM VAGINAthe ne CERVIX UTE ADNEXAad	external genital of the pelvic floor and the pelvic outlet. e canal in the fema et of the uterus. RIthe neck of the jacent structures of	d associatele, extend uterus.	ing fi	om the	vulva to the
PARAMETRIU	FALLOPIAN TUBESth ui Mtissue around th Mthe mucous lining bthe muscular coat	erus. ne uterus. ne of the u	terus		the ova to the
GIVE THE M	EDICAL WORD FOR THI	FOLLOWING	t		
ABSENCE OF	MENSTRUATION		•		
PAINFUL ME	NSTRUATION		•		
SCANTY MEN	STRUATION	·	-		
UTERINE BI	LEE DING		_		
EXCESSIVE	BLEEDING DURING ME	NSTRUATION_			
	ION OF AN OVARY		.		
ABNORMAL V	WHITISH DISCHARGE F	ROM THE VAC	JINA A	ND UTER	INE CAVITY
COLLECTION	W OF WATERY FLUID I	N THE UTER	- INE TU	JBE	
COLLECTIO	N OF PUS IN AN OVID	uct			
INFLAMMAT	ION OF THE VAGINA_		-		
THE PELVI	AL TISSUE OCCURRING C CAVITY		_		•
Inflammat	ION OF FALLOPIAN TO	JBE AND OVA	RY		
	NE DISEASE				



FEMALE GENITAL SYSTEM (continued)

EXCISION OF THE VAGINA
SUTURE OF THE PERINEUM
EXCISION OF THE UTERUS
SUSPENSION OR FIXATION OF A DISPLACED UTERUS
FALLING OR PROLAPSE OF THE UTERUS
EXCISION OF THE UTERUS, FALLOPIAN TUBE, AND OVARY
SURGICAL REMOVAL OF THE CERVIX
SUTURE OF A LACERATION OF THE NECK OF THE UTERUS
GIVE THE MEANING OF THE FOLLOWING:
ANTEFLEXION OF THE UTERUS
NULLIPARA
PRIMIPARA
PARA REFERS TO NUMBER OF
GRAVIDA PERTAINS TO THE NUMBER OF
DYSTOCIA
GESTATION
ANTEPARTUM
ECTOPIC PREGNANCY
CYSTADENOMA OF THE OVARY
COLPOPLASTY
HEMATOSALPINX
ATRESIA OF A FALLOPIAN TUBE
MENARCHE_
PRURITUS VULVAE
PAPANICOLAOU SMEAR



1¹+3

CONTENT OF MEDICAL RECORDS



CONTENT OF MEDICAL RECORDS

- I. Topic: Requirement and Content of Each Type of Record in General.
- II. Objective: To gain a knowledge of the requirements for each type of record.
- [II. Activities and Procedures:
 - A. Introduction.
 - B. Size and color.
 - C. Joint Commission on Accreditation of Hospitals.
 - D. Combining forms.
 - E. Record control.
 - F. Assembly of the record.
 - G. Record forms.
 - H. Responsibility for content of the medical record.
 - I. Medical record department's responsibility for record content.
- IV. Assignment: None.
- V. References and Materials:
 - A. Transparencies.
 - 1. WORD: "Quantitative Analysis."
 - 2. WORD: "Qualitative Analysis."
 - 3. Cartoon: "Measure Up or Drop Out."
 - 4. Cartoon: "Medical Records Marching in to the Medical Record Department."
 - B. Huffman, Edna K., <u>Manual for Medical Record</u>
 Librarians, 5th Ed., Physician's Record Co., Chicago,
 1963, pp. 33-39; 493-494.
 - C. Sample forms.

CONTENT OF THE MEDICAL RECORD

- I. Topic: Content for Each Type of Record.
- II. Objectives: To acquire an understanding of the purpose of quantitative analysis.

To gain a knowledge of the requirements for each type of record (JCAH and individual hospitals).

Purpose of the quantitative analysis is to check for omission and discrepancies within the medical record and to draw these to the attention of the attending physician by means of the "THIS RECORD LACKS" checklist or refer the matter to the Medical Record Committee.

- III. Activities and Procedures: Lecture.
 - A. Summary Sheet.
 - B. Consents.
 - C. Autopsy Findings.
 - D. History and Physical Examinations.
 - E. Consultations.
 - F. Laboratory Reports.
 - G. X-ray Reports.
 - H. Special Reports.
 - I. Anesthesia Reports.
 - J. Report of Operation.
 - K. Progress Notes and Summary.
 - L. Physicians' Orders.
 - M. Nurses' Notes.
 - N. Memoranda Slips.
 - O. Routing and Control Systems.
 - IV. Assignment: Read References and Work Problems.



V. References:

- Huffman, Edna K., Manual for Medical Record Librarians, 5th Ed., Ch. V., "Assisting the Physician," pp. 191-203; Ch. II, "The Medical Record," pp. 33-126; Ch. XIV, Section on Correction of Original Data, p. 446; Ch. XIV, Section on Consents, pp. 446-449; "Record Forms," pp. 493-494, Physician's Record Co., Berwyn, 1963.
- Hospital Accreditation References, 1964 Ed., American Hospital Association, Chicago, 1964. (Section on Medical Record Department, pp. 101-118)
- Bulletin #10, Standards for Hospital Accreditation, Joint Commission on Accreditation of Hospitals, Chicago, 1964.
- Bulletin #17, Standards for Hospital Accreditation, Joint Commission on Accreditation of Hospitals, Chicago, 1964.
- American Hospital Association, <u>Medical Record Forms</u>
 <u>for Hospitals: Guide to Preparation</u>, American
 Hospital Association, Chicago, 1963.
- American Hospital Association, <u>Guide to the Organization</u>
 of a <u>Hospital Medical Record Department</u>, American
 Hospital Association, Chicago, 1962.
- American Medical Association, <u>The Wonderful Human</u>

 <u>Machine</u>, American Medical Association, Chicago,
 1967.

VI. Materials:

- A. Transparencies.
 - 1. Routing List.
 - 2. Cartoon: "Signatures."
 - Outline: "Dictating Histories and Physicals."
 - 4. Operative Report
 - 5. Cartoon: "Typing Confidential Reports."
 - 6. "This Record Lacks" Slip.
 - 7. Routing List.
- B. Fictitious Medical Record Case.
- C. Problems.



RECORD CONTENT

QUANTITATIVE ANALYSIS OF THE MEDICAL RECORD--PART ONE STUDENT OUTLINE

- I. Definition of Quantitative Analysis (Huffman).
- II. Purpose of Quantitative Analysis.
 - A. Deficiency check.
 - B. Source of Medical Statistics.
- III. Requirements for each type of recard.
 - A. History and Physical Examination.
 - 1. Content: CC, PI, PH, FH, PX.
 - 2. JCAH requirements; signatures, etc.
 - 3. Medical Record Librarian's responsibility.
 - 4. Attending physician's responsibility.
 - B. Summary Sheet.
 - Contents: provisional diagnosis, identification data, final diagnosis; associated diagnoses, complications or infections, operative procedures performed.
 - 2. JCAH requirements; signatures.
 - 3. MRL's responsibility.
 - 4. Attending physician's responsibility.
 - 5. Admitting officer's responsibility.
 - 6. Summary note.
 - C. Report of Operation.
 - 1. Contents.
 - 2. JCAH requirements.
 - 3. MRL's responsibility.
 - 4. Surgeon's responsibility.

- D. Anesthesia report.
 - 1. Content.
 - 2. MRL's responsibility.
 - 3. JCAH requirements (pre-anesthesia hab work and history).
 - 4. Anesthetist's responsibility.
- E. Pathology report.
 - 1. Content.
 - 2. JCAH requirements (gross description)
 - 3. MRL's responsibility.
 - 4. Pathologist's responsibility.
- F. Clinical laboratory report.
 - 1. Contents.
 - 2. JCAH requirements.
 - 3. Technician's responsibility.
 - 4. Signatures.
 - 5. Original reports.
- G. X-ray reports.
 - 1. Contents.
 - 2. JCAH requirements.
 - 3. MRL's responsibility.
 - 4. Radiologist/Roentgenologist.
- H. Consultations.
 - 1. Definition.
 - 2. Signatures.
 - 3. MRL's responsibility.
 - 4. Required consultations (JCAH).

- I. Progress Notes.
 - 1. Admission notes.
 - 2. Fraquency.
 - 3. Signatures -- JCAH.
- J. Doctors' Orders.
 - 1. Signatures.
 - 2. Stop orders on dangerous drugs.
 - 3. Narcotics.
 - 4. Counter-signatures.
- K. Nurses' Notes.
- L. Autopsy findings.
- IV. General Review -- Cover for Materials.

RECORD CONTENT

QUANTITATIVE ANALYSIS OF THE MEDICAL RECORD--PART TWO STUDENT OUTLINE

- I. Special Records.
 - A. Obstetrical Record.
 - 1. Prenatal record.
 - 2. Content of history and physical.
 - 3. Labor and delivery.
 - 4. Postpartum record -- nurses' notes.
 - 5. Birth certificates.
 - B. Newborn.
 - 1. Physical examination.
 - 2. Maternal history.
 - 3. Nurses' notes.
- II. Specific Record Forms.
 - A. Nurses' notes.
 - B. Graphic record.
 - C. Electrocardiogram.
 - 1. Interpretation.
 - D. Accident report.
 - 1. Content.
 - 2. Accidents to inpatients.
 - 3. Outpatients admitted due to accident elsewhere.
 - E. Diabetic curve--graph.
 - F. Electroencephalogram.
 - G. Basal metabolism record.



- H. Authorizations.
 - 1. Operative.
 - 2. Autopsy.
 - 3. Special treatment.
 - 4. Release of medical information.
 - 5. Release against medical advice.
 - 6. Mortician's receipt for body.
- I. Certificates.
 - 1. Birth.
 - a. MRL's responsibility.
 - 2. Death.
 - a. MRL's responsibility.
- J. Recovery Room Record.
- K. Short Stay Record.
- L. Clothes List.
- M. Deficiency Record.
- N. Correspondence.
- O. Transfusion Record.

CONTENT OF MEDICAL RECORDS

- I. Topic: General Review.
- II. Objective: To review principal points of medical records.
- III. Activities: Lecture and discussion.
 - A. Standards.
 - B. Medical Record Forms.
 - C. Record Content.
 - IV. Assignments: Review Exercises.
 - V. Materials and References:
 - A. Transparencies.
 - 1. "Dear Doctor #1"
 - 2. "Dear Doctor #2"
 - 3. "Dear Doctor #3"
 - 4. "Dear Doctor #4"
 - B. Set of slides.
 - C. Guide for Preparation of Medical Record Forms.
 - D. Sample Forms.
 - E. Review Exams.

Medical Record Standards

Please refer to your Hospital Accreditation References of JCAH and find solutions for the following:

A. The Head Nurse in a small hospital in southern Colorado has been writing the histories for the patients.

STANDARD: P. 104 A-4.

B. Several of the physicians on the medical staff use manifestations for final diagnoses (i.e., acidosis, angina, vomiting, retention of urine).

STANDARD: p. 105 A-12.

C. The pathologist insists on keeping the original report in his files.

STANDARD: p. 104 A-6.

D. The four physicians on the medical staff have built a clinic near the hospital. They take the medical records of their patients to the clinic to complete them.

STANDARD: p. 117, paragraph 3.

Hospital Standards

X-ray reports are signed with a rubber stamp signature.
 The head X-ray technician stamps the reports before placing the criginal typed report on the record.

STANDARD: p. 111, paragraph 5.

2. The Joint Commission advises that after discharge of a patient, his record should be complete within how many days?

STANDARD: p. 107 g-2.

PROBLEMS

You are engaged to take charge of the Medical Record Department in a 150 bed hospital where the following conditions exist:

- a. Medical Records are filed by diagnosis.
- b. Medical Records are filed on open shelves.
- c. A system called "Lambert" classification is still being used.
- d. No definite terminology for operations is being used.
- e. Histories and physical examinations are incomplete.
- f. Anyone in the hospital is permitted to borrow medical records.
- g. The medical record forms used are different from those you have been accustomed to.

To what extent would you reorganize the department with reference to the above conditions? What changes would you suggest and what steps would you take to bring about these changes?



PROBLEMS

- 1. If you have tried every means within your power to get the doctor to complete his records, and the hospital authorities or the medical staff take no action, what would you do?
- 2. You are engaged to work in a 150-bed hospital. You are asked to install a record system where there has been none, and the medical records have been poorly written. How would you go about it? What would be your first steps?
- 3. The basic requirements for an efficient medical record department are:

4. Give the required autopsy percentage for an approved hospital.

General Review

The physicians on the medical staff are responsible for the QUALITY of medical care in the hospital. This is accomplished through their review of the medical records in their medical staff committee activity. The medical record librarian assists the physician in his qualitative review.

The history and physical examination should be recorded within 24-48 hours of the patient's admission to the hospital. If the patient goes to surgery, the history and physical reports should be on the record prior to the surgery. This should include a record of the condition of the patient's heart and lungs.

If the patient is readmitted within 30 days for the same illness, the previous history and physical with an interval note will suffice.

Each clinical entry should be signed by the attending physician. This includes the face sheet (usually comprising provisional diagnosis, final diagnosis, operation, and condition on discharge), as well as history and physical examination, operative report, progress notes, discharge summary, and orders for treatment.

The specialized reports such as pathology, radiology, anesthesiclogy, etc., are the responsibility of those specialists alone.

If the attending physician signs only the face sheet, he takes the responsibility for the reports and entries of the nurses, technicians, admitting personnel, etc.

Initials are valid if they can be identified as belonging to the physician involved.

If the physician wishes to use a rubber stamp he may. However, he should place in the hands of the administrator a signed statement to the effect that he is the only person who will have possession of the stamp and is the only one who will use it. The use of the rubber stamp by a nurse or secretary is not acceptable.

A short form is acceptable in certain treatment and diagnostic cases of a minor nature, which require less than 48 hours' hospitalization. Short forms may be appropriate for such conditions as tonsillectomies, cystoscopies, lacerations, plaster casts, removal of superficial growths, and accident cases held for observation. The short form should at least include identification data, a description of the patient's condition, pertinent physical findings, an account of the treatment given, and any other data necessary to justify the diagnosis and treatment. The record should be signed by the physician.



The routine laboratory work required of all admissions should be a urinalysis, a hemoglobin and/or hematocrit.

All patients admitted to the hospital shall have discharge summaries with the exception of normal newborns, normal obstetrical cases, and those cases in the hospital 48 hours or less for minor conditions.

In conducting a general quantitative review of the medical record, the medical record librarian should watch for errors, discrepancies, or omissions.

This quantitative analysis should be done promptly upon dismissal while the patient and his hospital stay are still in the minds of those responsible for his care.

Be careful to identify all records with the patient's full name and his hospital number. It is a good habit to check the typed name with the patient's actual signature. All reports should have the complete date, this includes the year.

All reports should be original and signed by party responsible. If the Medical Record Committee approves the use of thermofax or copies, the report should bear the original signature of the physician along with a statement that this is a true copy of the original. A rubber stamp can be made up to provide this statement. Remember that this is a permanent record. Pencil should not be used in the medical record as this is not a permanent media.

Review the sociological data. Sometimes there are discrepancies throughout the medical record regarding sex, age, marital status, etc.

(Refer to JCAH Bulletin #10, December, 1955)

Medical Record Clerks Training Program
BETTER FORMS FOR BETTER PATIENT CARE

A check list for form control Please answer yes or no if applicable

m. L. L.
Form NoTitle
1. Is this form necessary? 2. Do you know of any other forms in use that have approximately the same information? 3. Could this form be eliminated by combining it with
another one? 4. If this form is prepared with more than one copy, should it be a snap-out?
5. Are all copies necessary? 6. Do copies of this form go to other departments? 7. Do other departments use this form as is, or do they transcribe the information to another form? 8. Are all departments who need the information on this
form getting a copy? 9. Is there any information on this form not being used? 10. Is the source information from which this form is prepared in the same sequence as this form?
12. Is sufficient space provided? 13. Is too much space provided? 14. Are there any ambiguous, strange words, or abbrevi-
16. Could check block be utilized? 17. Is all possible data preprinted? 18. If this form is written on a typewriter, is there much time lost skipping through headings to get to the blank space to enter the information?
19. Does the spacing fit the machine? 20. If so, do you think it should be redesigned to utilize tabulator stops? 21. Do you plan to use the form as a permanent record? 22. If so, does the size of this form fit the file? 23. Approximately how many copies of this form do you use in a year?

NOTE: This form is sponsored by the Texas Hospital Association Council on Administrative Practice to encourage hospitals to establish a Forms Committee and concentrate on standard, well-prepared forms to avoid waste, expense, and inefficiency.



DAILY REVIEW EXAM

Analysis of the Medical Record

- The medical record of a discharge could take anywhere from a half hour to an hour to answer most requests. following should be used to establish quick and efficient location of a medical record that has been requested.
 - Institute a control system to provide information a. about the location of all incomplete records.
 - Offer a prize to the employee who first locates each b.
 - Assign a clerk to devote his time to searching for C. such records.
 - Ask each person who wants am review or use a record d. to look for it himself.
- It is considered good practice to have the medical records 2. of discharged patients:
 - kept at the nurses station until the doctors complete them.
 - collected from the nurses' station once a week. ъ.
 - picked up from the nurses' station by the attending c. physicians.
 - reach the medical record department by the morning of d. the day following discharge.
- For a hospital to meet the standards of the Joint Commission 3. on Accreditation of Hospitals, each medical record must contain:
 - daily progress notes written by a doctor.

 - the notarized signature of the attending physician. a typewritten discharge summary dictated by the attending physician.
 - a history written or dictated by a doctor. d.
- The quality of care reflected in a hospital's medical records is evaluated by the:
 - physicians on the medical staff.
 - medical record librarian. b.
 - hospital administrator. c.
 - hospital attorney. d.

T

F

DAILY REVIEW EXAM

1.	Circle	T for tr	ue statements	and F	for false	statements:
	A A35	, notiont	e admitted to	the h	ospital sh	all have

A.	All patients admitted to the hospital shall have discharge summaries with the exception of normal newborns, cases of a minor nature that have been in the hospital for less than 48 hours.	T	F
В.	The statement of the chief complaint should be recorded in the words of the patient.	T	F
c.	A complete history and physical work-up should be done on every patient regardless of the service under which he is admitted or if ad- mitted by a physician who specializes in one field.	T	F
D.	The medical record of a patient who has been admitted to the hospital and expires within 48 hours requires a discharge or final summary.	T	F
E.	If a patient is admitted to a hospital bed following treatment in the Emergency Room, the original report of examination and treatment in the Emergency Room should be placed in his in-patient's medical record.	T	F
F.	The deficiency record should be made a per- manent part of the patient's medical record.	T	F
G.	The final diagnosis is a statement of opinion made by the attending physician after he has conducted a thorough study of the patient.	Ť	F
н.	The "initial impression" is formulated before the attending physician has performed the physical examination of the patient.	T	F
I.	Reports of operative procedures should be dictated or written immediately after the surgery and should contain both a description		

- I. Reports of operative procedures should be dictated or written immediately after the surgery and should contain both a description of the findings and a detailed account of the technique used and the tissues removed.
- J. Duplicates of the X-ray and laboratory reports should not be entered in the patient's record. T
- K. A postanesthetic note should be recorded by the surgeon following the surgery.
- L. A newborn record need not include the physician's orders.



MEDICAL RECORD CONTENT

(circle the correct answers)

According to the standards of the Joint Commission on Accreditation of Hospitals, what routine laboratory work must be done on all admissions to the hospital?

A urinalysis, hemoglobin and/or hematocrit should be done om all admissions.

Patient X has been admitted to the hospital twice this month mecause of a duodenal ulcer condition. Yesterday, he was admitted from the emergency room with a broken leg due to a car accident. The physician enters an inter-val nome on the chart since this is the patient's third admission this month. Is this sufficient? If answer is no. explain below.

A physician may write an interval note only if the patient is readmitted within a month for the same illness. If for a different illness, a complete history and physical should be obtained.

In what situation may a hospital medical record contain notes written months before the patient is admitted to the hospital?

Obstetrical patient.

- There are situations in which a short form is acceptable on the medical record. From the situations listed below, select the two that would qualify.
 - A patient who expires shortly after admission to his hospital room and who had been unresponsive.
 - B. A patient admitted for the purpose of having X-rays and cystoscopy.
 - A T & A (tonsillectomy and adenoidectomy case) that required transfusions because of postoperative bleeding.
 - An emergency room patient admitted for observation D. overnight.
 - A patient with a subsiding pneumonia who has a sebaceous cyst removed three days after admission.

3 12 1

- Circle those cases that are required to have a consultation by the Joint Commission on Accreditation of Hospitals.
 - Patients with obscure diagnoses.
 - Interruption of suspected pregnancies. First Cesarean Sections. В.
 - C.
 - Poor Surgical Risks. D.
 - All of the above. E.
 - None of the above. F.



DAILY REVIEW EXAM

ANALYSIS OF THE MEDICAL RECORD

Circle the letter identifying the correct answer to the questions.

- Which of the following would be the most diplomative answers or explanations to a patient who objects to answering questions in the admitting office about his father's name and his mother's maiden name?
 - Many patients have similar names and this will help assure a. us that we are not confusing your confidential record with anyone else's record.

This is a hospital regulation and all patients are asked b.

this information.

Should you die this information is necessary for the death certificate.

- No hospital record is complete without that imformation.
- What is the legal name of this patient?
 - Mrs. Ronal Bush. a.
 - Mrs. Ronald (Alyce) Brown. b.
 - Alyce Brown. c.
 - Mrs. Alyce (Ronald) Brown.
- The examining doctor will note clubbing (if present) when he examines the:
 - genitalia. a.
 - b. extremities.
 - ears. c.
 - chest. d.
- Which one of the following statements would be found on a physical examination report?
 - "Short seizures" of one-year duration. a.

Fundi: No edema, hemorrhage, or papilledema. Patient admitted for neurological workup. **b**.

- After abdominal cavity was entered, exploration was done. d.
- Which of the statements in number 4 might be found in the 5. operative report?
- Indicate which of the following is not a part of the obstetri-6. cal record.
 - Prenatal record.
 - Labor record. b.
 - Newborn Physical Examination Record. C.

Postpartum record.

- A maternal or obstetrical morbidity would be considered 7. when there occurs:
 - Temperature of 100.6° on 2nd postpartum day, 100° on 3rd day, and 102° on 4th day.
 Postpartum hemorrhage necessitating the transfusion
 - b., of 100 cc. of blood.
 - Blood pressure ranging from 210/110 to 180/90 for 6 days postpartum.
 - Temperature rising to 1020 three hours after delivery; d. mormal thereafter.
- In a small hospital where there is no pathologist, the 8. tissue being removed at operation is sent to a pathologist in a mearby town; which of the following methods of reportage his findings is preferred?
 - He sends a signed original copy of his report to the hospital.
 - He gives a report by telephone to the medical record b. librarian and to the surgeon.
 - He writes a letter to the surgeon in which he reports c. his findings.
 - He keeps a complete report in his own files and sends d. carbon copies to the hospital.

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STUDY QUESTIONS

CONTENT AND ANALYSIS OF THE MEDICAL RECORD

Reference: Chapter II, Manual for Medical Record Librarians, pp. 69-73.

- U. What are the chief uses, purposes, and value of nurses' notes while a patient is still in the hospital?
 - Ans. As a record of the patient's condition during the physician's absence.
 As a time saver for the physician and an eliminator of errors.
 As proof of work done.
 To complete the medical record.
- 2. What are the chief uses, purposes, and value of nurses' notes in the weeks, months, and years after the patient has been discharged from the hospital?
 - Ans. Nurses' notes show the doctor's visits and the care for his patients.

 They also are used for medical audit and for medicolegal purposes.

 They will also show whether treatments were given or not and how the patient responded to them; the patient's progress, and picture of the patient's care should the case go to court.



DAILY REVIEW EXAM

ANALYSIS OF THE MEDICAL RECORD

Circle the letter identifying the correct answer to the questions.

- Since many records come to the medical record department without any name, room number, or hospital number on some of the sheets, or with only incomplete headings, which of the following do you feel is the wisest action to take?
 - a. Call the matter to the attention of the director of nursing service.
 - b. Find out what nurse or ward secretary is responsible for each omission and return the records to her to be filled in.
 - c. Have someone in the medical record department fill in each missing or incomplete heading.
 - d. Fasten the sheets securely with the rest of the record and leave them as received.
- 2. While charting on the evening of 11/30/67, a nurse inadvertently reversed the notes on medication administered
 to two patients, writing them in the wrong records. This
 was discovered the next day. The nurse who made the error
 should:
 - a. Copy both sheets, making the indicated corrections and destroy the originals.
 - b. Draw heavy lines through the incorrect notes, blacking them out completely and write the correct information above with her signature and the date 12/1/67.
 - c. Use ink eradicator carefully to erase the incorrect notes, writing the correct information in the space left.
 - d. Draw a line through the incorrect notes, writing above them the correct notes, her signature, and the date of 12/1/67.



DISCHARGE ANALYSIS



CONTENT OF MEDICAL RECORDS AND QUANTITATIVE ANALYSIS

- I. Topic: Daily Analysis of Hospital Service.
- II. Objectives:
 - To analyze the various methods of compilation-their advantages and disadvantages.
 - To understand the content and uses of the Daily Analysis.
 - To become familiar with the requirements of the various accrediting agencies.

III. Activities -- Lecture.

- 1. Definition of terms.
- 2. General considerations.
- 3. Uses.
- 4. Methods of Compilation.
- 5. Content.
- IV. Materials: Discharge Sheets and Disease Service Classification Exercise.
 - V. Assignment: Complete Disease Service Classification Exercise.

DAILY ANALYSIS OF HOSPITAL SERVICE--OUTLINE FOR STUDENTS

Objectives: To analyze the various methods of compilation -- their advantages and disadvantages.

To understand the content and uses of the Daily Analysis.

To become familiar with the requirements of the various accrediting agencies.

- I. Definition of terms.
 - A. Daily analysis.
 - B. Service.
 - C. Consultation.
 - D. Postoperative death.
 - E. Infection.
- II. General considerations.
 - A. Principle of service assignment.
 - B. Place in work flow.
 - C. Accuracy.
 - D. Validity.
 - E. Reliability.

III. Uses.

- A. To governing board and administrator.
 - 1. Administrative planning and control.
 - 2. Comparative report.
- B. Outside agencies.
 - 1. Governmental.
 - 2. Professional.
 - 3. Educational.
 - 4. Insurance.



- C. To the medical record librarian.
- D. To the medical staff.
 - Departmental and staff meetings.
 - 2. Research.

IV. Methods of Compilation.

- A. Punch cards.
- B. Group analysis.
- C. Individual analysis.
- D. I.B.M.
- E. Professional activities service.

V. Content.

- A. Social data.
- B. Minimum service maintained.
 - 1. Medicine.
 - 2. Surgery.
 - 3. Obstetrics.
 - 4. Newborn.
- C. Results.
 - 1. Deaths.
 - 2. Autopsies.
 - 3. Other.
- D. Morbidity.
 - 1. Obstetrical.
 - 2. Other hospital infections.
 - 3. Complications.
- E. Consultations.
 - 1. JCAH requirements.
 - 2. AMA requirements.



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CONTENT OF MEDICAL RECORDS AND QUANTITATIVE ANALYSIS

- I. Topic: Daily Analysis of Hospital Service.
- II. Objectives:
 - A. To learn the individual and group methods of compilation-their advantages and disadvantages.
 - B. To understand the content and uses of Daily Analysis.
- III. Activities: Lecture and Laboratory Session.
 - A. General review of first lesson.
 - B. Practice session using individual and group compilation.
 - IV. Materials:
 - A. Transparencies.
 - 1. "Outline of Content of Discharge Analysis."
 - 2. "Flow of Charts."
 - B. References.
 - 1. Huffman, Edna K., <u>Manual for Medical Record Librarians</u>, 5th Ed., Physician's Record Co., Berwyn, 1963.
 - C. List of Definitions.
 - D. Exercise Forms.

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SERVICE ASSIGNMENT FOR QUANTITATIVE ANALYSIS

COMMUNICABLE DISEASE: to include all transmissible disease in the customary acceptance of the term.

DERMATOLOGY: to include all diseases and conditions of the skin.

FRACTURES: to include all cases of fracture without regard to the age of the patient.

GYNECOLOGY: to include all diseases and conditions of the female generative organs and the urinary organs, and the rectum if a part of the disease syndrome of the generative organs. Disease of the breast and diseases and conditions associated with pregnancy and the puerperium are not included.

CANCER: (Malignant disease): to include all malignancies of all sites, including lymphatic and hematopoietic tissues.

MEDICINE: to include all diseases and conditions treated by the administration of internal remedies except those which are assigned to a subspecialty.

NEWBORN: (Alive at birth): to include only infants born in the hospital. Infants born at home or on the way to the hospital should be entered under medicine. An infant is considered a newborn until he is 28 days old.

OBSTETRICS: to include all diseases and conditions of pregnancy, labor, and the puerperium, whether normal or pathological, pregnancy commencing with conception and the puerperium ending, insofar as it concerns the patient admitted for delivery, with discharge from the hospital.

<u>DELIVERED</u>: (20 weeks or over): to include mothers for whom pregnancy has terminated in the hospital, regardless of whether the infant is a live birth or a fetal death (stillbirth).

ABORTED: (under 20 weeks): to include mothers from whom the pregnancy has terminated under the time specified by your health agency for a viable infant. If the fetus was aborted before admission to the hospital, no count is kept of the fetus, but if aborted after admission of the mother to the hospital, a count should be kept in the column provided for that purpose.

NOT DELIVERED: to include pregnant women for a condition of pregnancy but not delivered of a live born or stillborn infant in the hospital. Under this heading will come threatened abortions which have been prevented from terminating, false labors, deliveries outside the hospital brought in for the puerperium, retained placentas, postpartum hemorrhages, lactating breasts, and other puerperal conditions.



OPHTHALMOLOGY: to include all diseases, injuries, and conditions of the eye and supporting structures regardless of types of therapy, except tumors, venereal diseases, and some communicable diseases.

ORTHOPEDICS: to include all diseases and conditions of the bones, joints, muscles, fascia, tendons, and their nerve control which affect motion and are not acutely traumatic in nature.

OTORHINOLARYNGOLOGY: (also called otolaryngology): to include all diseases of the ear, nose, throat, larynx, pharynx, naso-pharynx, and tracheobronchial tree.

<u>PEDIATRICS</u>: (children): assign this service according to disease or condition; check "child" in the proper bracket on the statistical review sheet.

SURGERY: to include all diseases and conditions treated by manual or mechanical means except those which are assigned to a subspecialty. Breast surgery is counted under surgery.

UROLOGY: to include all diseases and conditions of the male genito-urinary organs and the female urinary organs, unless the latter are a part of the disease syndrome of the female generative organs. (See under Gynecology).

TRAUMATIC SURGERY: to include all cases dealing with a pathological condition brought about by sudden or acute injury. Includes sprain, contusions, lacerations, etc.



DEFINITION OF TERMS -- DAILY ANALYSIS OF HOSPITAL SERVICE

- Daily Analysis -- Gross appraisal of the efficiency of the hospital and medical staff primarily for the benefit of, and use by, the hospital itself.
- 2. Service--Grouping of records of discharged patients according to their diagnosis. The number of groups varies with the size of the hospital. It is recommended that a hospital of 100 beds or less have at least the following services: Medical, Surgical, Pediatric, Obstetric, and Newborn.
- 3. Consultation -- Written opinion of another physician on a case, requested by the attending physician.
- 4. Postoperative Death--One which is attributable to, or precipitated by an operation, such as deaths from hemorrhage, shock, embolism, infection, postoperative pneumonia, etc., and occurring within the convalescence period, which is usually regarded as being within the first ten days postoperative.
- 5. Census -Number of inpatients occupying hospital beds at any given time. The count is usually taken at midnight when there are fewer admissions and discharges. Any specified time is permissible, just so it is the same hour each day.
- 6. Census Days--Numerical accumulation of the days of care rendered to all inpatients by clinical service during the reporting period. A patient day (census day) is the unit of measure denoting lodging facilities provided and services rendered to one inpatient between the census-taking hour of two successive days.
- 7. Physicians' Index -- This index is a record of the work done and the end results obtained by the physicians practicing in the hospital.



DISEASE SERVICE CLASSIFICATION

	DISCASE SERVICE CHACKIE	ORITON	•			
		ot Del borted	ivered	•	Newl	oorn
Clas	esify the following according to seres listed.	vice,	using	the	seven	Se'
1.	Abortion, spontaneous					
2.	Acute appendicitis with appendectom	y				
3.	Acute colitis					
4.	Acute cystitis					
5.	Upper respiratory tract infection					
6.	Adenocarcinoma of the breast with m	astect	omy			
7.	Mumps in a 13 year old				 	
8.	Cardiac arrest					
9.	Rheumatoid arthritis				-,	
10.	Rheumatic fever in a 5 year old				<u> </u>	
11.	Cleft palate and harelip in a newbo	rn			<u></u> .	
12,	Gastroentaritis					
13.	Burn of the skin					
14.	Fracture, right ankle, with reducti and casting	Lon				
15.	Infectious hepatitis					
16.	Prematurity					
17.	Retained placental tissue				,	
18.	Cholecystitis with cholecystectomy					
19.	Bronchopneumonia					
20.	Inguinal hernia with herniorrhaphy					
21.	Subacute appendicitis, not operated	đ				
22.	False labor					
23.	Diverticulitis and diverticulosis					
24.	Adult situational reaction			<u> </u>		

ROLE PLAYING

ETHICAL PROBLEMS ACTION SITUATION:

OBJECTIVES:

Introduction to ethical decision-making of a Medical Record Librarian

ROLES:

- Medical Record Librarian Miss Quick Chief of Medical Staff - Dr. M. Rude Medical Staff Member - Dr. I. B. Mean Chairman of Medical Record Committee -2.
- Dr. R. Smart

Administrator - Mr. M. Fairly

Chairman of the Coverning Board - Mr. J. Graves

PROBLEM:

In reviewing medical record, Medical Record Librarian finds:

- Patient admitted and scheduled for 1. surgery.
- Patient had acute appendicitis and an 2. appendectomy.
- Pathological report indicated normal 3. appendix.

Rumor has it that the patient was an unmarried, pregnant girl and that the record was falsified. Further rumor has it that the patient had a surgical abortion.

WHAT TO DO?

HOSPITAL STATISTICS



HOSPITAL STATISTICS

- I. Topic: Hospital Statistics.
- II. Objectives: The objectives are to provide a better understanding of the importance of accurate statistical reports, to learn how to acquire the necessary information to complete the reports, and to learn how the information is to be used.
- III. Activities: Lecture.
 - A. Medical statistical data in the hospital are primarily gathered from the medical record. Statistical reports are required by the governing board, by the hospital administrator, and by the accrediting agencies.
 - B. A method or procedure for collecting the data must be established. Daily cumulative tabulation of data will provide the most accurate record. Data are collected from the medical records of discharged patients and from the daily census of admissions and discharges.
 - C. Key words for statistical data are: 'what, why, how, and when.
 - 1. What information do we need?
 - 2. Why do we need certain information?
 - 3. How are we going to use this information?
 - 4. When do we get the information and when do we need it?
 - D. What information is desired by whom?
 - 1. Hospital statistics -- determination of basic data.
 - a. Requirements of the accrediting agencies.
 - b. Collection of data (method).
 - c. Uniformity of data.
 - 2. Vital statistics.
 - a. Birth certificates.



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- b. Death certificates.
- c. Fetal death certificates.
- E. Analysis of hospital service.
 - 1. Discharge analysis procedure.
 - 2. Monthly and annual reports.
- F. Computation of percentages and rates most frequently computed.
- IV. Assignment: None.
- V. References:

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Hospital Handbook on Birth and Fetal Death Registration, National Center for Health Statistics, Health, Education, and Welfare and Public Health Service, U. S. Government Printing Offices, Washington, D.C., 1967.

International Recommendations on Definitions of Live Birth and Fetal Death, Federal Security Agency, Public Health Service, National Office of Vital Statistics, Washington, D. C., Public Health Service Publication 39:6, 1950.

Levine, Eugene, "The ABC's of Statistics,"
American Journal of Nursing 59:71, January, 1959.

Physicians Handbook on Death and Birth Registration, 11th Ed., National Office of Vital Statistics, Health, Education, and Welfare and Public Health Service, U. S. Government Printing Office, Washington, D. C., 1963.



HOSPITAL STATISTICS

NOTE: This supplement is intended to draw your ttention to variations in the way certain items are computed by (1) JCAH; (2) Huffman; (3) AMA; (4) AHA. It is also intended to point out the averages and/or rates that are computed in the same fashion by all.

1. AVERAGE LENGTH OF STAY:

- Total No. of inpatient days' care rendered to discharged patients (ex. N.B.)

 Total No. of inpatients who were discharged or who died (ex. N.B.)
- b. JCAH: survey report: no formula given; newborn excluded from average length of stay.
- c. AHA: Uniform Chart: same as Huffman.

2. DEATHS:

- a. Gross Death Rate:
 - (1) Huffman, p. 382.

 Total No. of deaths for the period x 100 = %
 Total No. of discharges (and deaths)
 for the period
 - (2) JCAH: same as Huffman.
 - (3) AHA: no formula given.
- b. Net Death Rate:
 - (1) Huffman, p. 382.

 Total deaths 48 hours or over for the period

 x 100 = %

 Total deaths over 48 hours and discharges for the period
 - (2) JCAH: survey report, p. 4.

deaths x 100 = % discharges
(Subtract deaths under 48 hours from both numerator and denominator.)



- (3) AHA: no formula given.
- c. Maternal Death Rate: (or Maternal Mortality Rate);
 - (1) Huffman, p. 383.

Total No. of deaths of obstetrical patients for the period x 100 =

Total No. of discharges (and deaths) of obstetrical patients for that period

(2) JCAH: survey report, p. 8.

maternal deaths x 100 = % obstetrical discharges

(3) AHA: no comment.

Note: JCAH and Huffman agree, if you recall that "obstetrical" refers to delivered, not delivered, or laborted.

- d. Infant Death Rate: (or Infant Mortality Rate):
 - (1) Huffman, p. 384.

Total No. of deaths of infants born in the hospital for a period x 100 = %
Total No. of viable newborn infants discharged (including deaths) for the period

(2) JCAH: survey report, p. 8.

newborn deaths x 100 = % live births

- (3) AHA: no comment.
- e. Perinatal Mortality Rate:
 - (1) Huffman: no comment.
 - (2) JCAH: no comment.
 - (3) AHA: no comment.
 - (4) Committee on Maternal and Child Care of the Council on Medical Service, American Medical Association, pp. 7, 10-11.

The Perinatal Mortality Rate is to be calculated on the basis of total births in the perinatal period chosen for study. However, for those using Perinatal Period II, it is necessary to calculate



and report both the Perinatal Period I and Perinatal Period II rates. This is to insure that the Perinatal Period II rate of one study will not be confused and wrongly compared with the Perinatal Period I rate of another study, and in order that all studies reported in the United States may be compared on a common basis with each other, and in turn with the rates of other countries, many of which use Perinatal Feriod I in calculating their perinatal mortality rates. Perinatal Mortality is defined as those deaths of fetuses and newborn infants.

Perinatal Period I rate is calculated by the following formula:

Hebdomadel deaths and Fetal deaths 1001 grams and over x 1000
Live births and Fetal deaths 1001 grams and over

Perinatal Period II rate is calculated by the following formula:

Neonatal deaths and Fetal deaths 501 grams and over x 1000
Live births and Fetal deaths 501 grams and over

The proportion of deaths of the various component parts and subparts of the perinatal period (such as hebdomadal and posthebdomadal in the neonatal, and antepartum and intrapartum in the fetal) should be calculated on the basis of total births in question as used in calculating the particular total perinatal mortality rate that is under consideration.

These component proportions are to be compiled in addition to—and the neonatal proportion is not to be considered a substitute for—the well established neonatal death rate which traditionally and accurately has been calculated on the basis of live births only. The purpose of calculating component proportions of the total perinatal mortality rate for either Perinatal Period I or Perinatal Period II as outlined above is to provide more accurate statistical data to better delineate the problem of the perinatal period.

f. Postoperative Death Rate:

(1) Huffman, p. 383.

Total No. of deaths within 10 days postoperative for a period x 100 = %

Total No. of patients operated upon during that period



- (2) JCAH: survey report, p. 7.

 number of deaths within 10 days of surgery x 100 = % number of operations
- (3) AHA: no comment.

Note: JCAH and Huffman agree, although the wording of the formula differs.

g. Anesthesia Death Rate:

(1) Huffman, p. 383.

Total No. of anesthesia deaths for the period $\frac{x \cdot 100}{x} = \frac{\pi}{100}$ Total No. of anesthetics administered for the period

- (2) JCAH: survey report, no comment.
- (3) AHA: no comment.

3. AUTOPSIES:

- a. Gross Autopsy Rate:
 - (1) Huffman, p. 388.

Total autopsies for a given period x 100 = %.
Total deaths for a given period

- (2) JCAH: survey report, no comment.
- (3) AHA: no comment.

b. Net Autopsy Rate:

(1) Huffman, p. 388.

No. of autopsies for a period x 100 = %
Total No. of deaths minus unautopsied coroner's or medical examiner's cases

Huffman notes: (p. 389): "If the coroner's cases had been autopsied at the hospital and had thus become available for teaching purposes, they would have been counted as net autopsies just as any death with autopsy that was not determined to be a coroner's case."

- (2) JCAH: survey report, no comment.
- (3) AHA: no comment.



- c. Autopsy Rate on Deaths Over 48 Hours:
 - (1) Huffman: no commant.
 - (2) JCAH: no comment, although this statistical item is required; suggested formula:

No. of autopsies on deaths over 48 hours during the period = %
No. of deaths over 48 hours during the period

(3) AHA: no comment.

- 4. DAILY AVERAGE NUMBER OF PATIENTS (or AVERAGE DAME CENSUS): (from the census)
 - a. Huffman, p. 395.

Total No. of inpatient days' care for the period (ex. of newborn)
Total No. of days in the period

- b. JCAH: survey report: no comment.
- c. AHA: Handbook, p. 19.

No. of patient days (other than newborn) during a period
No. of calendar days in the period

Note: Huffman and AHA agree, although formula differs.

- 5. PERCENTAGE OF OCCUPANCY: (from the census)
 - a. nuffman, p. 396.

actual patient-days care (exclusive of newborn) for a given period x 100 = % maximum patient-days care (ex. bassinets) for the period

b. JCAH: survey report, p. 3.

average daily census x 100 = % bed complement

JCAH Note: "bed complement - actual number of beds available for use at present '--."

c. AHA: Uniform Chart, p. 19-21.



actual patient days during the period x 100 = % maximum patient days (as determined by bed capacity) during the period

6. CESAREAN SECTION RATE:

a. Huffman.pp. 389-390.

Total No. of cesarean sections performed for the period x 100 = %Total No. of births for the period

b. JCAH: survey report, p. 8.

No. of sections x 100 = % No. of deliveries

c. AHA: no comment.

7. CONSULTATION RATE:

a. Huffman, pp. 362-363.

Total No. of patients receiving consultations x 100 = % Total No. of patients discharged, including deaths, during the period

b. JCAH: see Huffman, p. 363.

Total patients receiving consultations for the period $\times 100 = \%$ Total patients discharged (including deaths) for that period

c. AMA: see Huifman, pp. 363, 364.

Total No. of consultations given x 100 = %
Total patients discharged (including deaths) for that period

Note: JCAH wants percentage of <u>patients</u> receiving consultation, regardless of the number of consultations per patient; AMA wants consultations <u>given</u>, regardless of the number of patients receiving consultations. . . (Huffman, p. 363).



- 8. INFECTION RATE: (also called MORBIDITY RATE):
 - a. Gross Infection Rate, or Gross Morbidity Rate:
 - (1) Huffman, p. 386.

 Total No. of infections for period x 100 = %

 Total No. of patients discharged (incl. deaths)
 during the period
 - (2) JCAH: survey report, no comment.
 - (3) AHA: no comment.
 - b. Net Infection Rate, or Morbidity Rate:
 - (1) Huffman, p. 387.

 Total No. of infections debited against the hospital for a given period x 100 = %

 Total No. of patients discharged (including deaths) for that period
 - (2) JCAH: survey report, no comment.
 - (3) AHA: no comment.
 - c. Postoperative Infection Rate for Clean Surgical Cases:
 - (1) Huffman, p. 387.

Total No. of infections in clean surgical cases for a given period

Total No. of operations for that period

- (2) JCAH: survey report, p. 7.

 No. of infections in clean cases c 100 = 2
 No. of operations
- (3) AHA: no comment.

9. NEONATAL DEATH RATE:

a. Huffman, p. 384.

Total No. of infant deaths occurring within 28 days of birth for a given period \times 100 = % Total No. of viable newborn infants discharged (inc. deaths) during the period

Note: Follow-up system necessary to accurately determine number of infants who die within the 28-day period after birth, but after discharge from the hospital.

- b. JCAH: no comment.
 - c. AHA: no comment.

10. FETAL DEATH RATE:

a. Huffman, p. 384.

In hospital statistics, fetal deaths fall into two groups:

- (1) fetal deaths of less than 20 weeks gestation (abortions)
- (2) fetal deaths of 20 or more weeks gestation (stillbirths)

Rates are computed for stillbirths, usually, as follows:

Total No. of deaths of infants (born in the hospital)

for the period x 100 = %

Total No. of infant discharges (including deaths) for
the period

Note: total births = live births plus stillbirths

- b. JCAH: survey report, no comment.
- c. AHA: no formula.

BIBLIOGRAPHY:

American Hospital Association: Uniform Hospital Definitions, 196

Huffman, Edna K., Manual for Medical Record Librarians, 5th Ed., 1963, Physicians' Record Co., Berwyn.

Joint Commission on Accreditation of Hospitals: Survey Report:
Part II questionnaire to be completed by the hospital prior
to visit of JCAH field representative, 1958.



HOSPITAL STATISTICS

AVERAGE LENGTH OF STAY is the average number of days of service rendered to each inpatient discharged during a given period. (AHA)

Reference: Uniform Hospital Definitions, AHA.

MONTH	PTS. DISCHARGED	DAYS CARE TO PTS.	AVERAGE LENGTH OF STAY
Jan.	1918	7860	
i'eb.	1662	6968	
Mar.	1758	6491	

THE AVERAGE DAILY CENSUS is the average number of inpatients maintained in the hospital each day for a given period of time.

(AHA)

MONTH	PT.DAYS	PT.DAYS	TOT.PT.DAYS	AV. DAILY CENSUS ALL PTS.	AV. DAILY AV. DAILY CENSUS CENSUS AD. & CH. NEWBORN
Jan.(31)	5493	923			
Feb. (28)	4452	757		ومقور شاب المراب	
Mar.(31)	5847	986	again paintining and a second and a second and a second and a		

THE PERCENTIGE OF OCCUPANCY is the ratio of actual patient days to the maximum patient days, as determined by bed capacity, during any given period of time. (AHA)

DIRECTIONS: Compute the percentage of occupancy for the hospital with 150 beds and 30 bassinets.

MONTH	PT.DAYS	PT.DAYS NEWBORN	% OF OCCUP.	% OF OCCUP. NEWBORN	% OF OCCUP. AD.,CH.&NB.
Jan.	5493	923	·		
	, ,				_
Feb.	44.72	757			
Mar.	5847	986			



THE PERCENTAGE OF OCCUPANCY is the ratio of actual patient days to the maximum patient days as determined by bed capacity, during any given period of time. (AHA)

DIRECTIONS: Compute the percentage of occupancy for each of the following hospitals (X, Y, Z).

HOSP.	BEDS	PT. DAYS OF SERVICE AD. & CH.	BASSINETS	PT. DAYS OF SERVICE NEWBORN	PERCENTAGE OF OCCUP. NEWBORN
x	256	6262	J [‡] ን‡	713	
Y	160	3937	24	558	
Z	3 ¹ ÷0	9672	32	775	
					

AUTOPSY RATE is the ratio of autopsies to deaths. (Huffman)

GROSS AUTOPSY RATE is the ratio during any given period of time of all autopsies to all deaths. (Huffman)

NET AUTOPSY RATE is the ratio of total autopsies for a given period of time to total number of deaths minus the medical examiner's cases for that period which were not autopsied at the hospital. (Huffman)

MONTH	DEATHS		AUTOPSIES ALL CASES	MED. EXAM. CASES, AUTOP. AT HOSPITAL	GROSS NET AUTOPSY AUTOPSY RATE RATE	
Jan.	16	0	9	0		
Feb.	10	2	5	ı		
Mar.	21	3	12	2		

GROSS DEATH KATE is the ratio of deaths in a hospital during any given period of time to the total number of discharges and deaths during that time. (Deaths are included in figures listed under "total discharges.")

MONTH	TOTAL DISCHARGES & DE	ATHS DEATHS	GROSS DEATH RATE
Jan.	892	16	
Feb.	748	10	
Mar.	985	21	



NET DEATH RATE (or INSTITUTIONAL DEATH RATE) is the ratio of the total number of deaths occurring in the hospital 48 hours or over after admission to the total number of discharges and deaths during that time. When computing the net death rate, the number of deaths occurring under 48 hours is subtracted from the total number of discharges and deaths. (Note: Deaths are included in figures listed under "total discharges.")

MONTH	TOT. DISCHARGES & DEATHS	DEATHS UNDER 48 HOURS	DEATHS OVER 48 HOURS	NET DEATH RATE
Jan.	892	2	14	
Feb.	7 48	2	8	
Mar.	985	9	12	

MATERNAL DEATH RATE (JCAH) is the ratio of maternal deaths during any given period of time to the total number of obstetric patients discharged during that time.

If the total number of obstetric patients discharged during the year included 2,288 mothers delivered, 137 mothers aborted, and 373 mothers who were discharged undelivered, and one of these obstetric patients died during the year, what is the maternal death rate for the year?

INFANT DEATH RATE (or INFANT MORTALITY RATE) (JCAH) is the ratio of deaths of infants born in the hospital during a given period of time to live births (including deaths) during that time.

MONTH	LIVE BIRTHS	DEATHS	INFANT DEATH RATE
Jan.	154	ı	
Feb.	127	5	Many divergence of the state of
Mar.	188	14	
_	<u></u>		

CESAREAN SECTION RATE (JCAH) is the ratio of Cesarean Sections performed in a given period to the total number of deliveries in that period.

Mar.	175	2	
Feb.	117	1	
Jan.	159	3	
MONTH	TOTAL DELIVERIUS	CESAREAN SECTIONS	C/S RATE

POSTOPERATIVE DEATH RATE is the rate of deaths attributable to, or precipitated by, an operation, such as deaths from hemorrhage, shock, embolism, infection, postoperative pneumonia, etc., and occurring within the convalescence, which is usually regarded as being within the first ten days postoperative.

MONTH	OPERATIONS (PATIENTS OPERATED)	POSTOPERATIVE DEATHS	POSTOPERATIVE DEATH RATE
Jan.	392	5	
Feb.	255	2	
Mar.	355	5	

ANESTHESIA DEATH RATE is the ratio of anesthetic deaths (those courring on the operating table and caused by anesthetic agents, no surgical complication) during any given period of time to the total number of anesthetics administered during that time.

(NOTE: "ANESTHETIC ADMINISTERED" MEANS "PATIENTS RECEIVING ANESTHETICS")

YEAR	ANESTHETICS ADMINISTERED	DEATHS	ANESTHETIC DLATH RATE
1965	3,796	1	
1966	5,740	1	
1967	6,480	1	

FETAL DEATH (STILLBIRTH) RATE is the ratio of the total fetal deaths (stillbirths) to the total number of births, during the period.

MONTH	TOTAL BIRTHS	STILLBIRTHS (FETAL DEATHS)	STILLBIRTH RATE FETAL DEATH RATE
Jan.	149	1	
Feb.	130	3	Prophing in the Control of the Contr
Mar.	3.01 %	2	



Sample illustrating computation of daily chesus and patient days of service rendered each day.

ADULT AND CHILDREN CENSUS SUNSHINE HOSPITAL

	July 3	July 4	July 5	July 6	July 7
Pt. Rem. at Midnight Beginning of Day	295	298	301+	329	326
Admissions for the Day (Midnight to Midnight)	<u>25</u> 320	<u>30</u> 328	$\frac{47}{351}$	<u>35</u> 364	<u>30</u> 356
Discharges (and Deaths) for the Day	<u>-16</u>	<u>-27</u>	<u>-16</u>	<u>-21+</u>	28
Pt. Rem. at Midnight End of Day (census)	304	301	335	340	328
No. of Pt. Adm. and Dis. during the Day	_1	2	3	<u>14</u>	2
TOTAL PT. DAYS OF SERVICE RENDERED PER DAY	305	303	338	344	330

Total Pt. Days of Service Rendered for 5-Day Period: 1044 Hospital Bed Capacity 225



COMPUTATION OF PERCENTAGES

Statistics are facts represented by figures. It is the collection, presentation, analysis, and interpretation of numerical data. You have learned how to compile statistics from the discharge analysis, now we will compute these figures.

Percentages

Per centum is a Latin phrase meaning "by the hundred." Thus a percentage is a fraction whose denominator is 100. It may be written as a decimal fraction .54 or with the percent sign 54%.

Remember, in the first week of Statistics it was pointed out that any decimal fraction may be converted to a percentage by the following rule: Move the decimal point two places to the right and add the percent sign; any percentage may be written as a decimal by moving the decimal point two places to the left and dropping the percent sign.

Any common fraction may be written as a percentage by dividing the numerator by the denominator, multiplying the quotient by 100 (moving the decimal point two places to the right) and adding the percent sign).

Example: Write as a decimal and as a percentage 33/35.

Remember the rate in this manner: A rate is the number of times a thing happens compared to the number of times it could have happened.

Then if you want to state this ratio as a percentage, you will divide the number of times something did happen by the number of times this same thing could have happened and multiply by 100.

Take, for instance, in a hospital where 300 operations were performed, 300 wound infections could have occurred. Since 15 would infections did occur, you divide 15 by 300 to get the infection rate (5%).

Now, before we work some problems let's go over a few definitions.

Patient Definitions

A HOSPITAL PATIENT is a person receiving physician, dentist, or allied services in a hospital. Hospital patients are divided into two major types:



A HOSPITAL INPATIENT is a patient who is given lodging in a hospital while receiving physician, dentist, or allied services in the hospital.

A HOSPITAL OUTPATIENT is a patient who is not lodged in a hospital while receiving physician, dentist, or allied services in the hospital.

Bed Facilities

A HOSPITAL BED is one regularly maintained in a hospital for the use of patients.

AN OUTPATIENT BED is one regularly maintained for use by outpatients in a patient center.

AN INPATIENT BED is one regularly maintained for use by inpatients who are receiving continual physician or dentist services and are lodged in continuous nursing service areas of the hospital.

ADULT BEDS are those assigned for regular use by inpatients who are 14 years of age or over, and which are maintained in areas allotted for adult or adolescent lodging, even though in some instances utilized by children.

CHILD BEDS are those assigned for regular use by patients other than newborn who have not reached the age of 14 years, and which are maintained in areas allotted for children's lodging.

NEWBORN BEDS are those assigned for regular use by infants newly born in the hospital and which are maintained in areas allotted for newborn infant lodging.

THE HOSPITAL INPATIENT BED CAPACITY is the number of beds regularly maintained for inpatients in a hospital.

ADULT BED CAPACITY is the number of inpatient beds regularly maintained, in areas intended for the lodging and full-time care of adult inpatients (even though in some instances utilized by children), during periods of normal operations.

CHILD BED CAPACITY is the number of impatient beds regularly maintained, in areas intended for the lodging and full-time care of children and infants other than newborn, during periods of normal operations. This classification would be maintained only by those hospitals providing separate pediatric facilities.

NEWBORN BED CAPACITY is the number of inpatient beds regularly maintained, in areas intended for the lodging and full-time care of newborn infants, during periods of normal operations.

Inpatient Admission Classifications

AN INPATIENT ADMISSION is the formal acceptance by a hospital of a patient who is to receive physician, dentist, or allied services while lodged in the hospital.



An impatient admission always involves the occupancy of a hospital bed, bassinet, or crib, by the patient, and the maintenance of a hospital chart for the patient. Only one hospital admission may be counted for an inpatient during the period of his continuing as an inpatient of the hospital. An inpatient transferred after admission from one service to another, e.g., from medical to surgical service, is to be counted as a transfer, not as a second admission. Similarly, an inpatient admitted under one financial classification and subsequently transferred to another is to be counted as a transfer. If a discharged inpatient appears for further physician, dentist, or allied services at a future time, this is counted as another admission.

When a person dies in the emergency room, prior to the granting of lodging by the hospital, such patient should be recorded as an outpatient.

Classification by Age

ADULT INPATIENT ADMISSIONS: those accepted for lodging in an adult bed facility.

CHILD INPATIENT ADMISSIONS: those accepted for lodging in a child bed facility.

NEWBORN INPATIENT ADMISSIONS: those newly born in the hospital and accepted for lodging in a newborn bed facility.

Discharges and Deaths

AN INPATIENT DISCHARGE is the termination of the granting of lodging and the formal release of an inpatient by the hospital.

Since deaths are a termination of the granting of lodging, they are also impatient discharges, although recorded as a specific kind of discharge.

Detailed records should be maintained of inpatients deaths occurring within or beyond 48 hours after admission.

Fetal deaths (stillbirths) should be separately stated.

Deaths occurring before admission as an inpatient, e.g., in the emergency room, are not classified as inpatient deaths. However, for the protection of the hospital and for completeness of data, a separate record of such must be kept.

A PATIENT DAY is the unit of measure denoting lodging facilities provided and services rendered to one inpatient between the census-taking hour on two successive days.

THE HOSPITAL INPATIENT CENSUS is the number of inpatients occupying beds in the hospital at a given time.



THE AVERAGE DAILY CENSUS is the average number of inpatients maintained in the hospital each day for a given period of time.

THE PERCENTAGE OF OCCUPANCY is the ratio of actual patient days to the maximum patient days, as determined by bed capacity, during any given period of time.

AVERAGE LENGTH OF STAY is the average number of days of service rendered to each inpatient discharged during a given period.

The total number of adults, children, and newborn infants should always be stated separately in any statistical count of inpatients which determines service and facilities provided.

Infants transferred from the newborn infant nursery to a pediatric nursery should be recorded as regular child inpatients from the time of such transfer.

Infants born outside the hospital should be recorded as child inpatients and not as newborn inpatients upon admission.

Newborn infants remaining in the newborn infant nursery after discharge of the mother should continue to be recorded as newborn patients.



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LEGAL ASPECTS OF MEDICAL RECORDS



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LEGAL ASPECTS OF MEDICAL RECORDS

I. Legal Aspects of Medical Records.

II. Objectives:

- A. To teach the students that the medical record has both madical and legal aspects and they should be familiar with the principles and administration of law applicable to them.
- B. It is hoped the students will understand the following on the legal aspects of a medical record: Property Right, Confidential Communications, Types of Cases Using Evidence from Medical Records, The Medical Record in Court, Acceptance of a Subpoena, Conduct as a Witness, Legal Acceptance of Microfilmed Records, Release of Information and Authorization for Certain Procedures.
- C. The students must learn the policies regarding the release of medical information, whether it be in answer to a subpoena, in response to requests from governmental agencies, from the individual patients, from relatives of patients, or others.

III. Activities or Procedures:

Lecture, explanation, and discussion will be the procedure used. The students will be given questions on medico-legal aspects of the medical record for participation purposes and as a class project.

- IV. Materials, Resources, and Bibliography:
 - A. No special equipment will be needed.
 - B. If a clearance is obtained, it is possible that an attorney will speak for a short period.
 - C. References will be:

Huffman, Edna K., <u>Manual for Medical Record Librarians</u>, 5th Ed., Physicians' Record Co., Berwyn, 1963.

Hayt, Emanuel, and Hayt, Jonathan, Legal Aspects of Medical Records, Physicians' Record Co., Berwyn, 1964.

V. Assignment:

No assignment will be given as only one hour is devoted to this lesson.



VI. Summary and Evaluation:

- A. Summarization will be made by pointing out the value and significance of knowing the legal aspects of medical records as practically applied in our daily professional activity.
- B. Due to the brevity of this lesson, evaluation and whether or not the objectives have been obtained will roly heavily upon testing and follow-up instructor visits.



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ETHICS FOR MEDICAL RECORDS PERSONNEL



ETHICS FOR MEDICAL RECORDS PERSONNEL

I. Topic: Ethics.

II. Objectives:

- A. To teach the students that in the medical record profession there are standards to follow for proper conduct just as there are in any profession.
- B. For the students to be able to differentiate between ethics and etiquette.
- C. The students are to learn what the code of ethics are for our profession, not just the fundamental knowledge of ethics in general.

III. Activities or Procedures:

Lecture, explanation, and discussion will be the procedures used. The students will be given questions on ethics for participation purposes and as a class project.

Role playing.

IV. Materials, Resources, and Bibliography:

- A. No special equipment will be needed.
- B. Students will be given a copy of "The Code of Ethics."
- C. Three educational cartoons on "Unethical Practices" will be used.
- D. References will be:

Huffman, Edna K., Manual for Medical Record Librarians, 5th Ed., Physicians' Record Co., Berwyn, 1963.

Sister Mary Rose Agnes, R.R.L., "Ethical Aspects of Medical Records," Medical Record News, December, 1962.

V. Assignment:

No assignment will be given as only one hour is devoted to this lesson.

VI. Summary and Evaluation:

- A. Summarization will be made by pointing out the value and significance of our Code of Ethics as practically applied in our daily professional activity.
- B. Due to the brevity of this lesson, evaluation and whether or not the objectives have been obtained will rely heavily upon testing and the follow-up instructor visits.



MEDICARE, STATE, AND JOINT COMMISSION STANDARDS



MEDICARE, STATE, AND JOINT COMMISSION STANDARDS

- I. Topic: Medicare Certification, Colorado State Licensure, and Joint Commission on Hospital Accreditation STANDARDS FOR HOSPITALS.
- II. Objectives: 1. To introduce to the student some basic concepts about the various licensure, accreditation and certification organizations involved in surveys of hospitals and other health establishments.
 - 2. To acquaint the student with pertinent standards and requirements of each of the inspecting bodies and agencies with general and specific application to medical records in hospitals.
 - 3. To develop with the student a better understanding of the requirements and standards and to assist in interpretation of the standards.
 - 4. To have the student become familiar with reference materials and publications containing standards and requirements as set forth by licensing, accrediting, and certifying bodies which apply to hospitals and hospital medical records.

III. Activities and Procedures:

This subject will be presented to the students in five parts. The presentations are:

- A. Medicare Certification and State Licensure: State of Colorado: Lecture covering an overview of survey processes for licensing and certification purposes conducted by Colorado Department of Health.
- B. Utilization Review and the Physician's Responsibility for Good Medical Records: Lecture on involvement of hospital medical staff as a requirement for medicare certification.
- C. Medical Record Standards, Medicare Certification, and State Licensure of Hospitals: Presentation will consist of lecture, interpretation, and discussion (to include questions and answers) on pertinent standards, regulations and requirements.



- D. Joint Commission Accreditation of Hospitals--Survey of Medical Records: Lecture will include minimum standards applied during survey of medical records for purposes of accreditation.
- E. Interaction Panel: Lecturers on program for entire day to serve as panel members. Discussion, question and answer session held in a joint meeting of students and hospital administrators. Resource persons representing U. S. Public Health Service--Division of Medical Care Administration, Social Security--Bureau of Health Insurance, Blue Cross (as fiscal intermediary for Medicare benefits) and Colorado Department of Health will constitute supporting panel.

IV. Reference Books, Resource People, Texts:

- A. Arndal, Otto, "Joint Commission on Accreditation of Hospitals," National Center for Audio Tapes, University of Colorado, Boulder.
- B. Conditions of Participation for Hospitals (HIR 10, 6/67) U. S. Department of Health, Education, and Welfare, Social Security Administration, Baltimore, 1967.
- C. Basic Publications of the Joint Commission on Accreditation of Hospitals (June, 1968 Revision) Joint Commission on Accreditation of Hospitals, 645 N. Michigan Ave., Chicago, 1968.
- D. <u>Hospital Accreditation References</u> (1964 Revision) American Hospital Association, Chicago, 1965.
- E. Standards for Hospitals and Health Facilities, Colorado State Department of Public Health, Hospital Services Section, Denver, May, 1965.
- F. Samples of forms used in <u>Utilization Review</u> and <u>Transfer of Information</u>.
- G. Resource people and participants: Medical Consultant (Dr. John Zarit) for HIB Program, Social Security Regional Office Representative, Division of Medical Care Administration Regional Office.
- V. Assignments: None.

STANDARDS FOR HOSPITALS

I. Topic: Standards and Requirements for Medical Records: Medicare Certification and State Licensure of Hospitals.

II. Objectives:

- A. To have the students acquire some basic knowledge about surveys of hospital medical record departments which are conducted for purposes of qualifying facility for State Licensure and Medicare Certification.
- B. To have each student become familiar with documents which should become constant and ready desk-reference materials.

III. Activities and Procedures:

- A. Instruction Plan.
 - 1. Time required.
 - a. Two hours for medicare certification standards.
 - b. One hour for state licensure standards.
 - 2. Method of Instruction.
 - a. Lecture.
 - b. Student participation.
 - (1). Each student to mark the standards in her own documents under the direction of the instructor.
 - (2). Instructor-student discourse on interpretations of standards throughout instructor's presentation.
 - (3). Instructor-student discussion following instructor's presentation to include questions from students relative to subject material.
- B. Instructor's Outline on Lesson Content.
 - l. Lecture.



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- a. General information.
 - (1). Public Law 89-97.
 - (2). Providers of Health Insurance Benefits.
- b. Surveys -- state licensure and medicare certification.
 - (1). Team survey.
 - (2). Medical record consultant on team.
- c. Medical record department survey.
 - (1). Method of survey.
 - (2). Consultation part of survey.
 - (3). Final conference with administrator.
 - (4). Reports made following survey.
 - (5). Leniency on part of surveyor on first surveys with reason-- intent to assist in achieving compliance.
 - (a). Personal follow up.
 - (b). Training program--frist MRCTP PH 110-232.
- d. Training programs in order to attain functional department.
 - (1). Need established after first surveys.
 - (2). Training programs for hospitals without registered medical record librarians.
 - (a). Qualified medical record librarian consultants or group supervisor to be retained by the individual hospitals.
 - (b). Introductory training course for small hospital medical record personnel.



- (c). Correspondence course for medical record technicians.
- Survey findings: medical record deficiencies.
- 2. Instructor-Student Participation.
 - a. Introduction to reference documents on standards.
 - (1). Medicare Certification: Conditions of Participation-Hospitals.
 - (2). Licensure Standards: Standards for Hospitals and Health Facilities.
 - b. Instructor to guide students through booklets on standards.
 - (1). Definitions:
 - (a). "Statutory requirements."
 - (b). "Standards."
 - (c). "Factors."
 - (d). "Shall" and "should" as used in state standards.
 - (2). Reference to be made by instructor to pertinent standards, with explanation or interpretation as necessary.
 - (a). Students to enter pertinent notes in the documents as well as mark the standards under discussion for future reference.
 - (b). Question-answer-discussion between students and instructor during session.
 - (3). Short oral review and summarization.
- IV. Classroom Materials:
 - A. Reference booklets for classroom distribution to students.



- 1. Conditions of Participation-Hospitals-Regulations: Federal Health Insurance for the Aged, U. S. Department of Health, Education, and Welfare, Social Security Administration HIR-10(6-67).
- 2. Standards for Hospitals and Health Facilities: Colorado State Department of Public Health, Hospital Services Section, Denver, 1965.
- B. Additional material for distribution to students: Photocopy of "Hospital Survey Report-Medical Record Department," page 7, Form SSH-1537 (2-66).
- V. Assignments: No assignment outside of classroom activities.
- VI. Summary and Evaluation:
 - A. Oral summarization will be attempted through student discussion of topic immediately following subject presentation in classroom.
 - B. The general pre- and post-training session evaluations will be used as the medium for testing knowledge gained on this subject.

VII. Bibliography:

- A. Cowen, George C.; Horton, Clarence R.; Lee, Virginia, "The Team Prepares for Medicare in Colorado," <u>Medical Record News</u>, February, 1968.
- B. Huffman, Edna K., <u>Manual for Medical Record Librarians</u>, 5th Ed., Physicians Record Co., 1963.
- C. Letourneau, Charles U., M. D., "Medicare and the Record Librarian," <u>Hospital Management</u>, January, February, March, 1968.
- D. Porterfield, John D., M. D., "Attaining Medicare and Pursuing Higher Standards," <u>Medical Record News</u>, October, 1966.
- E. <u>Conditions of Participation</u>-Extended Care Facilities, U. S. Department of Health, Education, and Welfare, Social Security Administration, HIR-11(2-68).
- F. <u>Conditions of Participation</u>-Hospitals-Regulations, U. S. Department of Health, Education, and Welfare, Social Security Administration, HIR-10(6-67).
- G. Standards for Hospitals and Health Facilities, Colorado State Department of Public Health, Hospital Services Section, Denver, 1965.



MEDICARE SURVEYS, CERTIFICATION, AND STATE LICENSURE

- I. Organization of Public Health Department.
 - A. Seven Divisions, one of which is Division of Hospitals and Nursing Homes.
 - B. Structure of Division of Hospitals and Nursing Homes.
 - 1. Construction Branch @ Hill-Burton.
 - 2. Licensure and Evaluation Branch.
 - 3. Until recently had a Facility Planning Branch.
- II. Authority for Licensing.
 - A. Colorado Revised Statute of 1953 and the Colorado Sessions Laws of 1954.
 - 1. State Department of Public Health given authority to:
 - a. License.
 - b. Establish and enforce standards.
 - B. Powers and Duties of State Board of Health.
 - C. Powers and Duties of Division of Hospitals and Nursing Homes.
 - D. Powers of local authority.
- III. Classification of Health Establishments.
 - A. Hospicals.
 - B. Nursing Homes.
 - C. Other.
 - 1. Home for Aged.
 - 2. Maternity Home.
 - 3. Tuberculosis Home.
 - 4. Convalescent Center.
 - 5. Basic Nursing Home.



- IV. Licensing Procedures.
 - A. Application.
 - B. Scheduling of Survey.
 - C. Composition of Survey Team.
 - D. Processing of Report.
 - E. Issuance of License.
- V. Validity of License.
 - A. Period involved.
 - B. Requirement for retention.
 - C. Termination of license.
- VI. Survey Procedure.
 - A. Areas covered.
- VII. Certification Procedures.
 - A. Introduction.
 - 1. Facilities.
 - a. ECF.
 - b. Hospital.
 - 2. Designation of State Agency.
 - B. Conditions of Participation.
 - 1. Preparing agencies.
 - 2. Statutory requirement.
 - 3. Method of application.
 - C. Formal Survey.
 - D. Notification of acceptance.
- VIII. Conclusion.
 - A. Relationship to Medical Records.
 - B. Elevation of Patient Care Standards.



CONDITIONS OF PARTICIPATION

HOSPITALS

FEDERAL HEALTH INSURANCE FOR THE AGED

For ready reference for medical record clerks, the following passages should be marked in the U.S. Department of Health, Education and Welfare pamphlet number HIR-10 (6/67) titled "Conditions of Participation - Hospitals."

(Excerpts from Section 1861 (e) of the Social 405.1001 General. Security Act.)

"(e) The term "hospital" (except for purposes of section 1814 (d), subsection (a) (2) of this section, raragraph (7) of this subsection, and subsections (i) and (n) of this section means an institution which --

(1) is primarily engaged in providing, by or under the supervision of physicians, to inpatients, (a) diagnostic services and therapeutic services for medical diagnosis, treatment, and care of injured, disabled, or sick persons, or (b) rehabilitation services for the rehabilitation of injured, disabled, or sick persons;

(2) maintains clinical records on all patients;

(3) has bylaws in effect with respect to its staff of phy-

sicians;

(4) has a requirement that every patient must be under the

care of a physician;
(5) provides 24-hour nursing service rendered or supervised by a registered professional nurse, and has a licensed practical nurse or registered professional nurse on duty at all times;

(6) has in effect a hospital utilization review plan which

meets the requirements of subsection (k);

- (7) in the case of an institution in any State which State or applicable law provides for the licensing of hospitals, (a) is licensed pursuant to such law or (b) is approved, by the agency of such State or locality responsible for licensing hospitals, as meeting the standards established for such licensing; and
- (8) meets such other requirements as the Secretary finds necessary in the interest of the health and safety of individuals who are furnished services in the institution, except that such other requirements may not be higher than the comparable requirements prescribed for the accreditation of hospitals by the Joint Commission on Accreditation of Hospitals (subject to the second sentence of sec. 1863)."

405.1023 Condition of Participation-Medical Staff.

(b) Standard; Autopsies.

(2)

- (c) Standard; Consultations.
 - (3) (5) (It has been noted in surveys many hospitals are including all these areas as consultations.)



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(1) Standards; Bylaws.
     (2) (To be noted for purposes of information only in fol-
          lowing areas:)
          (vii)
          (viii)
           (ix)
           (x)
           (xi)
          (xii)
Medical record librarians should be thoroughly informed on the
following Standard since there is a direct relationship with
this committee:
(n) Standard: Medical Records Committee.
     (1)
(2)
(3)
(4)
          (i)
          (ii)
          (111)
          (iv)
(p) Standard; Meetings.
     (2)
(3)
          (1)
          (11)
405.1024 Condition of Participation-Nursing Department (for in-
formation only).
(g) Standard; Evaluation and Review of Nursing Care.
     (4)
     (6)
405.1024 Condition of Participation-Dietary Department (for in-
formation only).
(c) Standard; Diets.
     (1)
     (4)
Medical record librarians should become thoroughly familiar with
the following section since this does become the area of her (his)
responsibility.
405.1026 Condition of Participation-Medical Record Department.
The following Standards are those which become administrative
responsibilities:
                                    (This is a statutory requirement --
(a) Standard; Record Maintained.
                                     the Standard must be met in
     (1)
                                     order for the facility to become
                                     certified.)
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(It should be noted that State
(b) Standard; Preservation.
                                Standards state that "medical records
                                shall be preserved permanently.")
                            (It is in this area that acquiring knowl-
(c) Standard; Personnel.
                            edge and becoming an accredited medical record technician becomes important,
                            and where each student can become val-
                            uable to her hospital. The ART still
                            needs consultation or guidance from an
                            RMRL, however, but far less than would
                             otherwise be required.)
                                         (Most of the small hospitals
(d) Standard; Identification; Filing.
                                          without a professional
     (1)
                                          medical record librarian
     (2)
                                          should seek professional
     (3)
                                          guidance in this area.)
(e) Standard; Centralization of Reports.
     (1)
     (2)
(f) Standard; Indices.
     (1)
     (2)
     (3)
     (4)
     (5)
The following standards in the remainder of this section become
the area of medical staff responsibility.
(g) Standards; Content.
     (1)(2)
     (3)
     (7)
(8)
     (9)
    (10)
         (Since many hospitals, both large and small, do not
          understand this, there is an example of a chronological
          summary form that may be found in the Manual for Medical
          Librarians, by Edna Huffman.
(h) Standard; Authorship.
(1) Standard; Signature.
     (1)
     (2)
     (3)
(j) Standard; Promptness of Record Completion.
     (1) (Current records has reference to those on patients
          currently being treated on patient floors.)
     (2)
     (3)
405.1028 Condition of Participation-Laboratories.
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(2)

(b) Standard; Clinical Laboratory Examinations.

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(e) Standard; Routine Examinations.(f) Standard; Laboratory Report.
     (2)
(h) Standard: Tissue Examination.
     (1) (Note this states "all tissues removed from patients at
           surgery are macroscopically examined by the pathologist;"
this includes tonsils, adenoids, warts, etc. (i) Standard; Reports of Tissue Examination.
     (1)
     (2)
     (3)
405.1029 Condition of Participation-Radiology Department.
(d) Standard; Signed Reports.
      (1)
      (2)
      (3)
405.1031 Condition of Participation-Complementary Departments.
(a) Standard; Department of Surgery.
      (5)
(6)
      (8)
      (9)
(b) Standard; Department of Anesthesia.
      (1)
           (1) (If many days have lapsed between admission physical
                examination and anticipated surgery, a pre-
                anesthetic physical examination must be done and
                recorded by physician.)
           (ii)
           (111) (These notes are to be recorded by anesthesiologist
                   or nurse anesthetist.)
      (2)
           (v) (Please note this states 3 to 24 hours after opera-
                 tion.)
(c) Standard; Department of Dentistry and Dental Staff.
      (1)
           (ii)
           (iii)
      (2)
           (111) (Must include medical history and physical examin-
                   ation reports.)
(d) Standard; Rehabilitation, Physical Therapy, and Occupational
     Therapy Department.
      (6)
          (All notes should carry the signature of person recording
      (7)
           information as well as the date on which entries have
           been made.)
405.1032 Condition of Participation-Outpatient Department.
 (d) Standard; Medical Records.
      (1)
      (2)
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405.1033 Condition of Participation-Emergency Service or Depart-
(d) Standard: Medical Records.
     (1) (In most hospitals these records are found to be inade-
          quate--lacking in information content, and not pro-
     (2)
          perly filed. Too often these are regarded as business
     (3)
(4)
          office records, with charges for services to patient
          the most complete items of entry on these special re-
          cords.)
405.1034 Condition of Participation-Social Work Department.
(c) Standard; Records of Social Work Services.
     (2)
405.1035 Condition of Participation-Utilization Review Plan.
(a) Condition.
     (1)
     (2)
(d) Standard; Written Description of Plan.
     (4)
     (5)
(f) Standard; Reviews.
     (1)
          (111)
     (2)
          (1)
          (11)
          (111)
(g) Standard; Extended Duration Cases.
     (4)
(1) Standard; Administrative Staff Responsibilities.
For those students from psychiatric hospitals the following will
apply:
405.1037 Condition of Participation-Special Medical Record Require-
ments for Psychiatric Hospitals.
(a) Standard; Medical Records.
     (1)
     (2)
     (3)
     (4)
         (This includes physician orders, operative reports,
     (5)
(6)
          special procedures.)
     (8)
     (9)
     (10)
     (11)
Since there are no students in our class who are affiliated with
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information only:

a hospital caring for tubercular patients, the following is for

405.1039 Condition of Participation-Special Medical Record Requirements for Tuberculosis Hospitals.

(a) Standard; Reports on Laboratory Procedures.

(b) Standard; Records of Case Review Conferences.

(1) (2) (3)

(c) Standard; Progress Notes.

(1)

Very Important Person on a Very Important Program.

Please review:

Condition 405.1035-Standard i - factor 2.

"In order to encourage the most efficient use of available health services and facilities, assistance to the physician in timely planning for posthospital care is initiated as promptly as possible, either by hospital staff, or by arrangement with other agencies. For this purpose, the hospital makes available to the attending physician current information on resources available for continued out-of-hospital care of patients and arranges for prompt transfer of appropriate medical and nursing information in order to assure continuity of care upon discharge of a patient."

Please note the following excerpt from <u>Conditions of Participation</u> for <u>Extended Care Facilities</u>, HIM - 3 (3-66) Section 1861 (1).

"A hospital and an extended care facility shall be considered to have a transfer agreement in effect if, by reason of a written agreement between them or (in case the two institutions are under common control) by reason of a written undertaking by the person or body which controls them, there is reasonable assurance that;

(1) Transfer of patients will be effected between the hospital and the extended care facility whenever such transfer is medically appropriate as determined

by the attending physician; and

(2) There will a interchange of medical and other information necessary or useful in the care and treatment of individuals transferred between the institutions, or in determining whether such individuals can be adequately cared for otherwise than in either of such institutions."

A written transfer agreement is a legal, binding document. When a transfer agreement has been made between a hospital and an extended care facility, each facility assumes a legal obligation to transfer medical information to the institution receiving the transferred patient in order to assure continuum patient care. Hospitals are being very lax in meeting this requirement, for it has been found the majority of extended care facilities are operating in quiet desperation in their attempt to obtain some information in order to proceed with intelligent patient care.

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Every student in this training program on returning to her hospital could fill a very important function in becoming involved in efforts toward meeting this responsibility. This would indeed make you a very important person, and dedicated to patient care.

What information would the hospital send?

- 1) Transfer form with immediate information such as diagnoses, medications patient has taken, etc.
- 2) Copies of medical history and physical examination reports, or
- 3) A discharge summary containing all of the above information.



STANDARDS FOR HOSPITALS AND HEALTH FACILITIES

For ready reference for medical record clerks, the following passages should be marked in the STANDARDS FOR HOSPITALS AND HEALTH FACILITIES, Colorado State Department of Public Health, Hospital Services Section, Denver, Colorado.

Chapter I - Definitions

Section I - Health Institutions 1.1

Chapter III - General Hospitals

Section 3 - Medical Staff

3.4 Medical Audit (Committee)
3.5 Tissue (Committee)
3.6 Medical Records (Committee)

3.7 Consultations

Section 4 - Medical and Hospital Records

4.1 Facilities

4.2 Preservation

4.3 Personnel 4.4 Entries

4.5 Content (Note 4.5-1: Correction should be made by placing a semicolon as follows: "Social gical Data; Date and Time of Admission and Discharge; Adequate Identification Data; ____

4.6 Content, Surgical 4.7 Content, Obstetrical

4.8 Content, Newborn

4.9 Hospital Records (There are a few errors in this listing of requirements which should be noted and corrected: 1) "Diagnostic index" and "Operative index" should have addended the following words: ing to Standard Nomenclature or International Classification of Diseases and Operations" and 2) "Patient master card file according to Standard Nomenclature or International Classification of Diseases and Operations." This should read "Patient master card file" with the remainder of the words deleted.

Section 7 - Anesthesia 7.3 Administration

Section 8 - Clinical Pathology 8.6 Responsibilities 8.7 Tissues



- Section 9 Delivery Suite Nursing 9.10 (Last Sentence)
- Section 10 Dietary Services 10.4 Orders
- Section 11 Emergency and Outpatient Services 11.9 Discharges 11.10 Medical Records (Emergency) 11.18 Medical Records (Outpatient)
- Section 15 Nursery(ies) 15.19 Infant Examination 15.21.8 Physicians Orders
- Section 18 Occupational and Physical Therapy 18.2.4 Treatment Records
- Section 19 Patient Care Unit 19.23 Physician Orders 19.26 Medication Recording
- Section 24 Radiological Services 24.4 Medical Record

EDUCATION AND TRAINING



EDUCATION AND TRAINING

- I. Topic: Education and Training.
- II. Objective: To acquaint the students with the program and services of the American Association of Medical Record Librarians and with other programs of preparation.
- III. Activities and Procedures: Lecture.
 - IV. References and Materials:

Beard, Margaret, "Changing World of the Medical Librarian," National Center for Audio Tapes, University of Colorado, Boulder.

Membership materials for the Association.

V. Assignments: None.

THE CHANGING WORLD OF THE MEDICAL RECORD LIBRARIAN

- I. Changing patterns of medical care and their effect on medical record personnel.
 - A. In the future the average American worker will need to be re-educated every seven years to handle his job.
 - B. All hospital services are expanding and changing.
 - C. The general practitioner in medicine is disappearing and is being replaced by the specialist.
- II. Educational opportunities.
 - A. Full-time educational programs for:
 - 1. Medical record librarians.
 - 2. Medical record technicians.
 - 3. Nine-month post high school course.
 - 4. Many junior colleges are offering a program.
 - 5. There are a few four-year college programs.
 - 6. A few hospitals offer a post A.B. program.
 - B. Adult education programs.
 - 1. Correspondence education--1600 graduates of this course--must take exam after 25 lessons for accreditation.
 - 2. Basic institutes offered by organization.
 - Special subject institutes.
 - C. Literature put out by the organization.
 - 1. Journal.
 - 2. Newsletter.
 - 3. Monographs.
- III. Membership in American Association of Medical Record Librarians.
 - A. For medical record clerks.

- 1. Anyone may become an associate member.
- 2. Regular members are registered medical record librarians.
- B. National membership includes state membership.
- C. Meetings held both regionally and nationally for members.
 - 1. Provide in-service help.
 - 2. Disseminate up-to-date information.



DATA PROCESSING



DATA PROCESSING

- I. Topic: Data Processing.
- II. Objective: To introduce the student to the use of computers in data processing.
- III. Activities: Lecture, discussion, and film.
 - IV. Materials:
 - A. "The Information Machine," IRM Film.
 - B. The ABC of IBM Punched Card Accounting, IBM handout.
 - C. Key punching instruction sheet, IBM handout.
 - V. Assignments: None.

