# MEDICAL RECORDS IN FAMILY PRACTICE

S.S. Withana



- S ubjective Information
- O bjective Information
- A ssessment
- P lanning

#### Learning goals...

- What are medical records
- Why we need them
- Features of an ideal medical record
- What are the types
- Difference between paper based records and electronic records
- Importance of computers

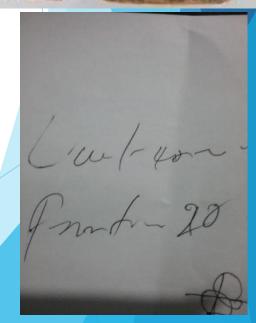
#### What are medical records?

An account of patient's history, physician's findings, results of the investigations and management plan.

#### History...

- Mesopotamians used 5000 years ago...
  - ► Clay tablets cuneiforms.
- Egyptians used papyrus...
- Dr. Lawrence Weed, 1969 POMR
- Currently, computer based electronic medical records (EMR)





### Why we need medical records...

- Continuity of care
- Co-ordination of care
- Legal documentation insurance
- ► ↑ Medical care ↑ life span ↑ Information
- Comprehensive care
- **Education..**

## Why we need medical records...

Support patient management - decision making

► Health care management - billing, reimbursement

Research - epidemiology, audit

**EXAM** 

## FEATURES OF AN 'IDEAL' MEDICAL RECORD..

- Setting up cost LOW
- Storage space MINIMAL
- ► Retrieval QUICK
- Complete & accurate
- Legible

## FEATURES OF AN 'IDEAL' MEDICAL RECORD..

- Easily updated
- Confidentiality
- ► Reliable Back up
- Active reminders / alerts
- Connected to medical knowledge

#### TYPES OF MEDICAL RECORDS...

- Patient held
  - Exercise book
  - Medical smart card
- Doctor held
  - Paper based
  - Computer based
- Web based

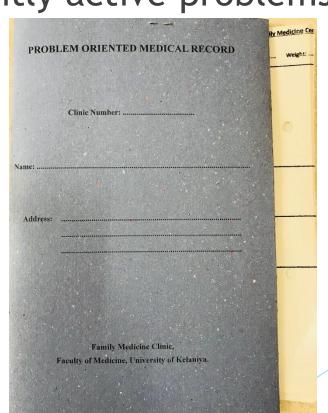
#### PAPER BASED MEDICAL RECORDS...

Problem Oriented Medical Record (POMR)

Contains a list of all currently active problems,

updated at each visit

- Data-sheet
- Problem list
- Clinical notes
- Flow sheet
- Lab reports



PROBLEM ORIENTED MEDICAL RECORD

No :

Name:

Address :

Family Practice Teaching Unit, Faculty of Medicine, University of Kelaniya, P. O. Box 6, Talagolla Road, Ragama,

#### DATA SHEET Date ; Number: Surname: Other names t Date of Birth : Sex: Address; Telephone No: Marital status : Occupation: Ethnic group; Religion; Mambers in the household: Husband: Wife: 5. 6. 7. 8. Children: 1. 2, 3. Father: Mother: Brothers; Sisters: Grandchildren: Others; 1. 2.

Name of the chief occupant / Guardian :

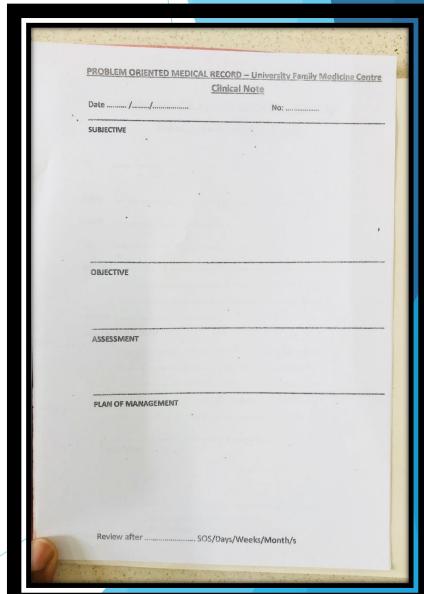
Previous illnesses/operations of note:	
Family illnesses of note:	
Blood group & Rh factor;	Temples
Record of immunizations :	
necord of minionizations;	- Sundantie
Adverse drug reactions :	

## PROBLEM LIST

Date	Problem	Date	Problem
4, 3, 79	Breast lump (benign) removed 12.4.79		
2. 4. 80	Diabetes		
4. 3. 79	Marraige problem resolved 1984		

Recording clinical notes in a POMR

- Subjective
  - Patient's view
- Objective
  - Doctor's findings
- Assessment
  - Diagnosis/problem definition
- Plan
  - Management plan



## PROBLEM ORIENTED MEDICAL RECORD Drug allergy No : Name: Address: Hypertension Family Practice Teaching Unit, Faculty of Medicine, research study University of Kelaniya, P. O. Box 6, Talagolla Road. Ragama.

Registers used with paper based

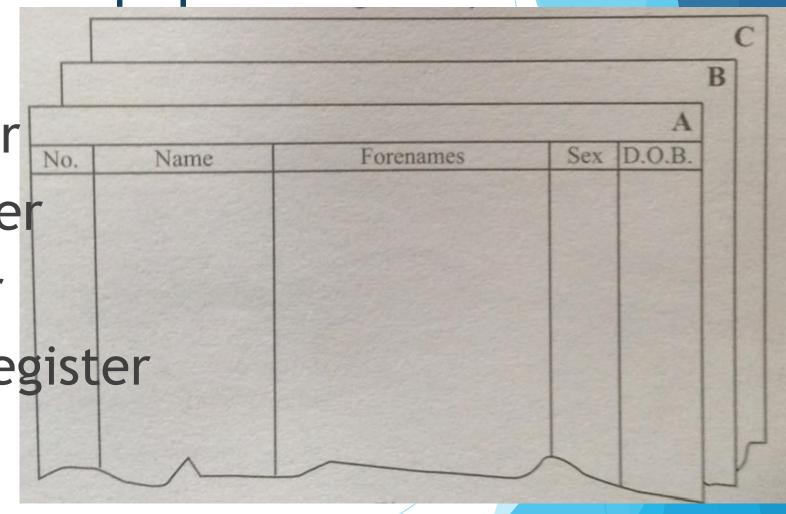
records..

Practice register

Age - sex register

Disease register

Immunization register



## Limitations of paper records...

- Large space needed
- Separate staff to maintain
- Hand written text may be
  - Illegible
  - Different in order and structure
  - Incomplete
- Limited warnings and alerts
- Analysis has to be done manually
- ► Back up difficult

#### EMR??

- An electronic record of health related information on an individual that can be created, gathered, managed and consulted by authorized clinicians and staff within one health care organization.
- Have the potential to provide substantial benefit to the patients, physicians, clinic practice and health care organizations
- Can improve quality of patient care and patient safety.



#### Medical smart card

- Similar to ATM card but with memory
- Stores a summary of patient details
- ► Patient held, portable
- Need a smart card reader
- Similar to electronic exercise book
- Doctor shopping possible



#### EMR vs PAPER BASED RECORDS

#### **EMR**

- Space less
- Retrieval instant
- Legibility high
- High accuracy when entered in the structure
- Codes are generated automatically
- Confidentiality with passwords at many levels

#### Paper

- Need more space when records increase
- Depends on number of patients and organization
- ► Hand writing??
- Difficult to maintain structure in blank paper
- Have to remember
- If lockers opened, difficult to maintain confidentiality

#### **EMR**

- Chance of subtle or catastrophic failures
- Alerts, prompts and reminders assist diagnosis and therapeutic decisions
- Initial cost high
- Users need initial training

#### Paper

- ► Floods, fire
- No active support
- Low cost
- Minimal training needed

### Why turn to computers now

- ► Technology becoming more accessible
- Impossible to remember all drugs, side-effects and patient details. Computers are best at data storage and retrieval

- Patients and practitioners are becoming more computer literate in everyday life
- Leapfrogging...

### Summary

- What are medical records
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#### **ACTIVITY**



#### **ANSWER**

- S cold and fever for 2 days
  - ► Cough+, Contact history<sup>0</sup>

- ▶ O Vitals normal, temperature Nl, Lungs clear
- ► A Acute upper respiratory tract infection

▶ P - Loratidine 10 mg daily, Increase fluid intake, if not settling R/V in 2 days to investigate The day will come when patients has to choose between a human doctor and a machine.

We need to train the our graduates up to a level, so the patients will choose a human doctor assisted by a computer instead of a machine.

Because we cannot loose the human touch in the practice of medicine..

Prof. K. Mendis

THANK YOU