Contents

1. Author's Inquisition (Introduction) 1
- Author's Inquisition to Find out the Needs of Hospital Medical Records Services 1
- JIPMER–A Case Study 2
- The Development and Latest Status of Medical Record Departments In India 5

2. Retention and Preservation of Medical Records 7
- Retention of Medical Records 7

3. Pattern of Diseases 21
- Pattern of Diseases Related to the Number of Visits 21

4. Study of Waiting Time 28
- Study of Waiting Time of Patients where Comprehensive Records are Used in the Outpatient Department 28
- Methodology 28
- Study o Waiting Time of Patients where Outpatient Slip/Chit Records are Used in the Outpatient Department 36
- Study of Waiting Time of Patient at Government General Hospital and Maternity Hospital, Pondicherry 41
- Merits and Demerits Noticed 46

5. Evaluation in the Form of a Questionnaire 47
- Present System of Outpatient and Inpatient Records in JIPMER 47
- Outpatient Questionnaire 47
- Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER), Pondicherry 48
- General Observations 51
- Recommendations 52

6. Questionnaire Related to Inpatient Records System in JIPMER 66
- Jawaharlal Institute of Postgraduate Medical Education and Research, Pondicherry 67
- Summary of Findings 69

7. Study of Patients'(Clients') Views Regarding Comprehensive Records and Waiting Time in the Outpatient Department 113
- Jawaharlal Institute of Postgraduate Medical Education and Research, Pondicherry 115

8. Cost Analysis of Medical Record Department **127**
- Why Cost Analysis? 127
- Methodology 128

9. Development of Norms/Standards **134**
- Methodology 134
- Medical Audit 156

10. Summary of Findings and Suggestions **160**
- Suggestions 162

11. Medical Records in Afghanistan **169**
- History 169
- Evaluation 169
- Organization of the School for Medical Record Technicians 171

12. Kuwait Health Care Delivery System **175**

13. Problems in Keeping Medical Records in the State of Kuwait **179**
- Problems in Keeping Medical Records 180
- Suggestions 185
- Recommendations 187

14. Problems of Health Record Maintenance in Gulf Countries **189**
- Need for Medical Records 189
- Development of Medical Record Departments 190

15. Medical Record Educational Program in Kuwait **192**
- Health 192
- Growth of Medical Records 193
- A Brief Description of the Existing Medical Record Systems and Procedures in New Hospitals 193
- Medical Record Training Program 194
- Revised Procedure for Amiri and Al Razi Hospitals 195
- Reorganization of Medical Record Services in Older Hospitals 195
- Establishment of Central Archives Training and Research Center 195
- Computerized Integrated Health Information System 195
- National Civil Registration Number 196
- Utilization Review and Quality Assurance 196

16. Development of Medical Records in the Kingdom of Saudi Arabia **197**
- Government Hospitals with Autonomous Status 197
- Ministry of Health Hospitals 197
- Medical Record Development Plan 198

17. Medical Records in the Kingdom of Saudi Arabia 202
- Health Services 202
- Medical Records 202

18. Medical Records in the Sultanate of Oman 207
- Executive Summary 207
- Annexure 211

19. Creating a Health Information Management Profession in the Sultanate of Oman 231
- Health Information Management: The Missing link 231

20. Medical Records in Bahrain 236
- Overview 236
- Salmaniya Medical Center 237
- Psychiatry Hospital 238
- Naim Health Center 238
- Medical Review Office 238
- Bahrain Health Information Center 239
- Directorate of Training 239
- College of Health Sciences 240
- Evaluation of Proposed MRT Program Developed by Ministry of Health 242
- Recommendations 246
- Plan of Action 248

21. Patient Care in Hamad Medical Corporation, Qatar 251
- Findings 252
- Recommendations 253
- Action Plan for Medical Records Department 257

22. Patient Care in Al Rahba Hospital, Abu Dhabi, UAE 266
- Outpatient 267
- Inpatient 267
- Accident and Emergency Department 268
- Radiology 268
- Laboratory 269
- Pharmacy 270
- Physiotherapy 270
- Dietetics 271
- Medical Record Department 272
- Outpatient Registration 272
- Outpatient Clinic (Internal Medicine and General Surgery) 273
- Inpatient Admission 273
- Ward 274
- Accident and Emergency Registration 274
- Medical Record Library 275

- Medical Transcriptions 275
- Release of Information Desk 276
- Data Analysis Section 276
- Medical Record Forms 276
- Medical Interpreters 276
- Medical Record Staff 276
- Patient Affairs Section 279
- Department of Internal Medicine 280
- Anesthesia Department 281
- Operation Theater 281
- Support Services 281
- Information Technology Department 282
- Human Resources 283
- Committees 285
- Problems in the Hospital 286
- Disaster Plan 286
- Recommendations 288
- Suggested Action Plan for Preparing to Obtain Joint Commission on International Accreditation 290

23. Patient Care in Tawam Hospital, Al Ain, UAE 293

- Tawam Hospital 293
- Admission and Registration 294
- Outpatient Clinic 295
- Outpatient Registration 296
- Emergency Department 297
- Wards 298
- Surgical Procedures 302
- Medical Records Department 303
- Laboratory 309
- Patient Affairs 314
- Patient Complaint 314
- Quality Management 314
- Information Technology 317
- Recommendations 320
- Suggested Action Plan for Preparing to Obtain JCIA Accreditation 321

24. Medical Records in King Fahad Specialist Hospital (KFSH), Dhammam, Saudi Arabia 324

- Medical Record Department 324
- Hospital 325

25. How Safe is Patient with Technology? 338

- Background Information on Adverse Outcomes 338
- Definition of Patient Safety 339
- Raising Rate of Litigation and Finance 341

- Studies on Patient Safety 341
- Tools Design to Prevent Errors and Adverse Events 342
- How IT can help in Preventing Adverse Effect? 343
- Patient Safety Solutions 345

26. Patient Care Evaluation 348
- A Typical Case Study 348
- Procedure of Meeting 351
- Improvement 353
- Outcomes of the Method 353

27. Challenges of the Health Care Delivery in 21st Century 355
- Human Rights 355
- Health Care Delivery System 355
- Problems of Internet 360

28. Background Information Required for Organizing a Medical Record Department 364
- General Information 364
- Information about Particular Hospital 365
- Emergency/Casualty Service 366
- Outpatient Department 367
- Admission and Discharge Section (Accident and Emergency) 367
- Medical Record Library (MRL) 368
- Statistics 369
- Radiology Department 369
- Laboratory Department 369
- General Inquiry (Public Relations) Section 369
- Microfilming 370
- Computer Application 370
- Inventory of Medical Record Department 370
- Forms Control 370
- Staff Patterns 370
- Time Factors 371
- Patient Problems 371
- Problems of Physicians, Nurses, Paramedical Personnel and the Administration Relating to Medical Record Department 371

29. Commissioning of Medical Record Services (Final Checklist of Operational System) 373
- Periodic Evaluation of Medical Record 375
- Equipment and Furniture 377
- Space 378
- Forms 378
- Stationery 378
- Other Contingencies 378

- Departmental Policies, Procedures and Job Descriptions 378
- Communication 379
- Orientation 379
- Training Program 379
- Confidentiality of Records 379
- Assessment of Quality of Service 379
- Retention of Records 380
- Microfilming 380
- Quarterly Progress Report 380
- Complaints Regarding Medical Record Service 380
- General Working Problems of MRD 381
- Concluding Report 381
- Evaluation of Medical Record Services 381

30. Mogli's Ready Reckoner for Counting Hospital Days 391

31. Investigations 393
- Blood and Lymphatic System 393
- Skin 393
- Endocrine System 393
- Cardiovascular System 395
- Respiratory System 395
- Digestive System 395
- Urinary System 395
- Radiology and Nuclear Medicine 396
- Female Reproductive System 397
- Male Reproductive System 397
- Cancer Medicine 397
- Commonly Used Investigation Index 398

32. Medical Record Forms Design, Estimation and Cost 401
- Forms 401

33. Use of Forms 413
- Admission and Discharge Sheet 413
- History and Physical Examination Form 415
- Physician Progress Notes 417
- Physician's Orders 417
- Consultation Form 418
- Consent to Operations and Investigations 420
- Anesthesia Record 421
- Operation Report Form 424
- Investigation Request and Report Forms 425
- Blood Transfusion Request Form 428
- ECG Form 428
- Paramedical Services Record 430

- Nurse's Notes Form 432
- TPR Chart 434
- Fluid Balance Chart 434
- Medical Record Folder 435
- Laboratory Mount Sheet 437
- X-ray Request and Report Form 438
- Discharge Summary Form 439
- Referral Form 440
- Outpatient Form 443
- Emergency Room (ER) or A/E Form 443

34. The Problems of Developing Countries in Health Record Maintenance 448
- Health Record Maintenance 448
- Questionnaire 448

35. Kuwait Health Services and Cost 455
- Health Services in Kuwait 455
- Cost Analysis 456
- Medical Records 458

36. Role of Medical Records in Economizing the Health Care Cost 459

Bibliography 461

Index 469