THE HOSPITAL: A SOCIAL AND ARCHITECTURAL HISTORY

John D. Thompson and Grace Goldin

New Haven and London  Yale University Press

1975
# Contents

List of Illustrations xi
List of Tables xxiii
Acknowledgments xxv
Introduction xxvii

## Part 1: A History of Hospital Ward Design in Europe and the United States

1. Early Forms
   - Greek Asklepieia 3
   - Roman Military Hospitals: Vindonissa 4
   - An Early Christian Monastic Hospice: Turmanin in Syria 6
   - The Plan of St. Gall Monastery, Switzerland 10

2. The Open Ward
   - Monastic Hospitals 15
   - The Great Hall
     - Ourscamp, Angers, Tonnerre, Byloke, Rhodes, Bruges
     - Cross Wards 30

3. Small Rooms and Private Rooms
   - Large Halls Subdivided 41
   - Pensioners, Almshouses, Leprosaria, Plague Houses 41
   - Insane Asylums 53
      - French Insane Asylums 54
      - Central European Insane Asylums 59
      - English Insane Asylums: The Restraint System 67
      - English Insane Asylums: Moral Treatment 71
      - American Insane Asylums: The Kirkbride System 76

4. Medium-Sized Wards from the Renaissance to the Nineteenth Century: Derived Plans
   - The Derived Plan 79
      - Julius Hospital, Würzburg; St. Jacques du-Haut-Pas, Paris
      - British Voluntary Hospitals: Courtyard Plans 83
         - St. Thomas’s and Guy’s Hospital, London
      - British Voluntary Hospitals: Block Plans 87
         - Rotunda Maternity Hospital, Dublin
         - Middlesex, and The London Hospital, London
         - Royal Infirmary, Edinburgh
      - Three Early American Voluntary Hospitals 96
         - Pennsylvania Hospital, Philadelphia
         - New York Hospital, New York City
         - Massachusetts General Hospital, Boston
      - Eighteenth-Century Hospitals of an Enlightened Absolutism in Central Europe 105
         - The Royal Frederiks Hospital, Copenhagen
         - Allgemeines Krankenhaus, Vienna
         - The Hospital of Bamberg, Germany

5. The Pavilion Hospital: A Designed Plan
   - The Hôtel-Dieu of Paris and How It Grew 118
   - Projects for Rebuilding the Hôtel-Dieu: Cross Wards 125
CONTENTS

Projects for Rebuilding the Hôtel-Dieu:
  Pavilions 128
  The Royal Naval Hospital of Plymouth, England 142
  Forerunners of the Pavilion Plan 146
    Hôpital St. Louis, Paris
    Wren's Plan for Greenwich Hospital
  Barracks 149
    Pringle; Tilton's Indian Hut; Renkioi
  The Nightingale Ward 155
  Nightingale Hospitals 165

6. From Pavilions to Skyscrapers 170
  Civil War Barracks, United States 170
  Five Plans for Johns Hopkins Hospital, Baltimore 175
  The Actual Plans of Johns Hopkins Hospital 183
  The First Skyscrapers 187
  Skyscraper Possibilities 193

Part 2: Twentieth-Century Ward Planning in the United States and Great Britain 205

7. A Loud, Loud Noise about Privacy: A Review of Contemporary American Literature on
   the Private Hospital Room 207

8. The All-Private-Room Hospital: An Eighteenth-Century Reprise 226

9. Supervision/Observability: A Review of Contemporary British Literature on
   Privacy versus Supervision 231

Part 3: The Yale Studies in Hospital Function and Design 251

10. Research Approaches to Contemporary Hospital Problems 253
    Comparative Model 255
    Conceptual Model 255
    Mathematical Model 256
    Computer Simulation Model 258

11. A Centralized versus a Decentralized Food Service 261

12. A Brief History and Description of the Yale–New Haven Hospital 266

    Study Method 270
    Windows 270
    General Furnishings 271
    Beds 272
    Lounge Chair 272
    Tables 272
    Lights 273
    Toilet Unit 273
    Noise 273
    Food Temperature Preference 274

14. Who Really Uses the Patient–Nurse Call System 276

15. The Yale Traffic Index 282
    Need for the Study 282
    The Organization of the Study 282
    Findings 283
    Variables 287
    Other Considerations 287
<table>
<thead>
<tr>
<th>CONTENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Yale Traffic Index</td>
</tr>
<tr>
<td>The Yale Traffic Index Applied</td>
</tr>
<tr>
<td>16. Maternity: Analysis of a Random Service</td>
</tr>
<tr>
<td>Relationship between the Size of a Maternity Service and Its Average Occupancy</td>
</tr>
<tr>
<td>Relationship between the Size of a Maternity Service and Its Investment Costs</td>
</tr>
<tr>
<td>Relationship between the Size of a Maternity Service and Its Operating Costs</td>
</tr>
<tr>
<td>Discussion and Application</td>
</tr>
<tr>
<td>17. The Economics of Privacy</td>
</tr>
<tr>
<td>Social Indications</td>
</tr>
<tr>
<td>The Economic Arguments for Privacy</td>
</tr>
<tr>
<td>The Patient Room Simulator</td>
</tr>
<tr>
<td>Findings</td>
</tr>
<tr>
<td>Discussion and Conclusions</td>
</tr>
<tr>
<td>Part 4: Progressive Patient Care</td>
</tr>
<tr>
<td>18. Toward a Progressive Patient Care System of Hospitals</td>
</tr>
<tr>
<td>Dynamo and Virgin</td>
</tr>
<tr>
<td>Utilization Review and Progressive Patient Care</td>
</tr>
<tr>
<td>To What Extent are Progressive Patient Care Patients Moved?</td>
</tr>
<tr>
<td>Planning for Progressive Patient Care</td>
</tr>
<tr>
<td>19. Progressive Patient Care Writ Large</td>
</tr>
<tr>
<td>Acceptance and Development of the Progressive Patient Care Concept</td>
</tr>
<tr>
<td>Milieu Therapy</td>
</tr>
<tr>
<td>Cost Trends Affecting the Design and Utilization of the Inpatient Unit</td>
</tr>
<tr>
<td>Alternatives to Present Hospitalization Policies</td>
</tr>
<tr>
<td>Hospital Pressure Groups</td>
</tr>
<tr>
<td>Appendix</td>
</tr>
<tr>
<td>Endnotes</td>
</tr>
<tr>
<td>Bibliography</td>
</tr>
<tr>
<td>Index</td>
</tr>
</tbody>
</table>