2005

Vermont Hospital Utilization Monographs

Inpatient Discharges
Outpatient Procedures
Emergency Department Visits

September 2007

Department of Banking, Insurance, Securities
and Health Care Administration

Department of Health

This report was produced in cooperation with the Department of Health, Division of Health Surveillance

Joan Mongeon, Public Health Analyst III
Peggy Brozicevic, Research and Statistics Chief

Under the direction of the Vermont Department of Banking, Insurance, Securities and Health Care Administration, Division of Health Care Administration

Dian Kahn, Director of Analysis and Data Management
Spenser Weppler, Health Care Administrator

Copies of this report can be obtained from either of the following:

The Department of Health
Division of Health Surveillance
108 Cherry Street, PO Box 70
Burlington, Vermont 05402-0070
(802) 863-7300 or (800) 869-2871

The Division of Health Care Administration
89 Main Street, Drawer 20,
Montpelier, Vermont 05620-3601
(802) 828-2900 or (800) 631-7788
www.bishca.state.vt.us

Acknowledgments

The production of this document would not be possible without the assistance of many individuals and the cooperation of the hospitals.

The Vermont Department of Banking, Insurance, Securities and Health Care Administration (BISHCA) thanks the Vermont Association of Hospitals and Health Systems - Network Services Organization (VAHHS-NSO) for providing assistance under a contract with the department and for working with the hospitals to ensure timely and accurate reporting of the data. BISHCA also thanks the participating hospitals for their efforts in submitting the data and responding to requests for clarification and corrections. In addition, BISHCA appreciates the sharing of data by the New Hampshire Department of Health and Human Services, the Massachusetts Division of Health Care Finance and Policy and the New York Department of Health. These organizations provide data for Vermont residents using New Hampshire, Massachusetts and New York hospitals.

Disclaimer

Hospital discharge data for use in this publication were supplied by the VAHHS-NSO reporting system, Vermont Explor, under a contract with BISHCA. These data were supplied upon the authorization of the hospitals through agreements between VAHHS-NSO and each participating hospital.

After receipt of the data files from VAHHS-NSO, the data undergo additional editing and processing by the Vermont Department of Health (VDH), under an agreement with BISHCA, before inclusion in the Vermont Uniform Hospital Discharge Data Set. The Vermont Uniform Hospital Discharge Data Set is used to construct this Monograph Series and is the official state data file available to the public. The Health Department does not assume responsibility for errors in the data due to coding or processing by hospitals, VAHHS-NSO Vermont Explor, or other data providers.

Monographs Available in Electronic Format

This Monograph report is available on the BISHCA website at: http://www.bishca.state.vt.us/HcaDiv/Data_Reports/hospdata/hospital_monograph_series/index_hospital_monograph.htm
Monograph tables are also posted there in Excel, Word or PDF formats. To obtain a hard copy of the report contact the Vermont Department of Health at (802) 863-7300 or (800) 869-2871.

Requesting Hospital Data Files

Public use hospital discharge data files are available for download on the BISHCA website at:
http://www.bishca.state.vt.us/HcaDiv/Data_Reports/uniform_discharge_data/index_VUHDDS.htm
Information on requesting research hospital discharge data sets is also provided on this website. For any additional information concerning the data sets contact the Vermont Division of Health Care Administration at (802) 828-2900 or (800) 631-7788.

Table of Contents

Introduction 3

Inpatient Discharges

User's Guide to Inpatient Monograph Tables 9

Monograph I 19
Estimated and Census Populations of
Vermont Hospital Service Areas by Age, 2000-2005

Monograph II 37
Summary Statistics by Hospital, 2005

Monograph III 57
Patient Origin: Discharges by Hospital Service Area
and Zip Town of Residence, 2005

Monograph IV 73
Patient Origin: Patient Days by Hospital Service Area
and Zip Town of Residence, 2005

Monograph V 89
Utilization by Hospital Service Area and
Major Diagnostic Category, 2001-2005

Monograph VI 143
Utilization by Hospital Service Area,
Major Diagnostic Category and Age of Patient, 2005

Monograph VII 221
Discharges by Vermont Hospital, Major Diagnostic
Category and Principal Payer, 2005

Monograph VIII 255
Service Area by MDC by Top 5 Hospitals, 2002-2005

Outpatient Procedures

User's Guide to Outpatient Procedure Tables 329

Table O1 333
Outpatient Procedure Groups by Admission Source, 2005

Table O2 336
Top 20 Outpatient Procedure Groups and Leading
Procedures by Admission Source, 2005
Number of Procedures and Average Charges

Table O3 340
Top 10 Outpatient Procedure Groups by Age and
Sex for Discharges Not Originating in the ED, 2005

Table O4 342
Top 20 Outpatient Procedure Groups by Primary
Payer for Discharges Not Originating in the ED, 2005
Number of Procedures, Average Charges, and Row
and Column Percents

Table O5 346
Top 20 Outpatient Procedure Groups by Vermont
Hospitals for Discharges Not Originating in the ED, 2005
Number of Procedures and Average Charges

Table O6 349
Outpatient Procedure Groups by Vermont Hospitals, for
Discharges Not Originating in the ED, 2005

Table O7 358
Top 20 Outpatient Procedure Groups by Vermont,
New Hampshire and New York Hospitals for Discharges Not
Originating in the ED, 2005

Emergency Department Visits

User's Guide to Emergency Department Tables.....363

Table E1 367
Clinical Classifications Software (CCS) High Level Diagnosis Groups by Type of ED Visit, 2005

Table E2 368
Clinical Classifications Software (CCS) High Level and Leading Single Level Diagnosis Groups by Type of ED Visit, 2005

Table E3 371
Vermont Hospitals by Type of ED Visit, 2005

Table E4 372
Clinical Classifications Software (CCS) High Level Diagnosis Groups by Age, 2005

Table E5 376
Clinical Classifications Software (CCS) High Level Diagnosis Groups by Sex and Age, 2005

Table E6 380
Clinical Classifications Software (CCS) High Level Diagnosis Groups by Primary Payer, 2005

Table E7 382
Primary Payer by Age, 2005

Table E8 383
Clinical Classifications Software (CCS) High Level Diagnosis Groups by Vermont Hospitals, 2005

Table E9 385
Primary Payer by Vermont Hospitals, 2005

Table E10 386
Clinical Classifications Software (CCS) High Level Diagnosis Groups by Vermont, New Hampshire and Massachusetts Hospitals, 2005

Figure E1 389
Bar Chart: Percent of Visits by Admission Day of Week and Type of ED Visit, 2005

Figure E2 391
Bar Chart: Percent of Visits by Admission Day of Week and Injury Versus Non-Injury Diagnosis, 2005

Figure E3 393
Bar Chart: Percent of Visits by Admission Hour and Type of ED Visit, 2005

Figure E4 395
Bar Chart: Percent of Visits by Admission Hour and Injury Versus Non-Injury Diagnosis, 2005

Hospital Setting Comparisons

User's Guide to Hospital Setting Comparison Tables 399

Table C1 402
Clinical Classifications Software (CCS) High Level Diagnosis Groups by Setting, 2005

Table C2 404
Clinical Classifications Software (CCS) High Level and Leading Single Level Diagnosis Groups by Setting, 2005

Table C3 407
Clinical Classifications Software (CCS) High Level Procedure Groups by Setting, 2005

Table C4 409
Clinical Classifications Software (CCS) High Level

and Leading Single Level Procedure Groups by Setting, 2005

Table C5 412
Clinical Classifications Software (CCS) High Level Diagnosis Groups by Setting, 2005
Number of Discharges and Average Charges

Table C6 413
Vermont Hospitals by Setting, 2005

Table C7 414
Clinical Classifications Software (CCS) High Level Diagnosis Groups by Inpatient Admission Source, 2005

Table C8 415
Vermont Hospitals by Inpatient Admission Source, 2005

Table C9 416
Vermont, Massachusetts, New Hampshire, and New York Hospitals by Setting, 2005

Appendices

Appendix A: Definitions and Formulae 419

Appendix B: Major Diagnostic Categories (MDCs) 421

Appendix C: Major Diagnostic Categories (MDCs) and Diagnosis Related Groups (DRGs) 423

Appendix D: 2005 Clinical Classifications Software (CCS) High Level Diagnostic and Procedure Categories 433

Appendix E: 2005 Clinical Classifications Software (CCS) High-Level and Single-Level Diagnosis Categories 435

Appendix F: 2005 Clinical Classifications Software (CCS) High-Level and Single-Level Procedure Categories 441

Appendix G: Hospitals in This Report 445

Appendix H: Towns and Hospitals in Vermont Hospital Service Areas 449

Appendix I: Vermont Hospital Discharge Data Elements 455