



NEW HAMPSHIRE HEALTHY KIDS

Q-CHIP EVALUATION (FY03)

TECHNICAL APPENDICES

09/22/2005

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Appendix 1: Measure Definitions

Enrollment, Demographics, Disenrollment

Measure	Definitions	Numerator	Denominator
Monthly/Yearly Enrollment	Total (unduplicated count) of the number of all members enrolled at any time during the reporting period (month or year). Members who turned 19 years of age during the reporting year were excluded.		
Demographic Profile: Yearly Age/Gender Distribution	Distribution of the number (unduplicated count) and percent of female and male members by age group, based on information from the member's most recent eligibility segment. This measure includes members with any eligibility during the reporting year. Note that age is defined as age on the last day of the reporting period.	Number (unduplicated count) of female and male members by age group	Total (unduplicated count) number of all members enrolled during the reporting year.
Demographic Profile: Yearly Geographic Distribution	Distribution of the number (unduplicated count) and percent of female and male members by New Hampshire DHHS Hospital Service Area (see Appendix 2), based on information from the member's most recent eligibility segment.	Number (unduplicated count) of female and male members by New Hampshire DHHS Hospital Service Area	Total (unduplicated count) number of all members enrolled during the reporting year.
Length of Enrollment	Number of months from enrollment to disenrollment. This measure includes members with any eligibility during the reporting year.		
Transitions between Programs	Number and percent of members who transition between HKS and HKG at least once within each reporting year.	Number of members in age cohort who transition between HKS and HKG	Total (unduplicated count) number of all members enrolled (in HKG or HKS) during the reporting year.
Disenrollment	Number and percent of members who were enrolled during the first month of the year but disenrolled later that year. Any member who has a gap exceeding one calendar month after initial enrollment is counted as a <i>disenrollment</i> .	Disenrolled: Enrolled during the first month of the reporting year, and no more than 10 months. Re-enrolled: Disenrolled, and re-enrolled during the final month of reporting year	Number of all members enrolled during first month of the reporting year.

Access and Prevention

Measure	Definitions	Numerator	Denominator
<p>Access to Primary Care Provider – Percent with Visits</p>	<p>Percent of continuously enrolled children with at least one visit to a Primary Care Provider (PCP) during the year.</p> <p>A primary care practitioner (PCP) visit is defined as a claim/encounter with any CPT or ICD-9-CM code in the Code Map under “Access to Primary Care Practitioner” (see Appendix 3).</p> <p>Excludes:</p> <ul style="list-style-type: none"> - inpatient procedures, emergency department, and specialist visits - mental health and chemical dependency services <p>The measure includes ANY visit to a primary care practitioner as defined by the plan <i>per HEDIS</i>; it is not limited to visits to a specific PCP.</p>	<p>Number of members each age cohort who had a PCP visit during reporting year.</p>	<p>Total number of members in each age cohort who were continuously enrolled during the reporting year, or for newborns, for their entire life with a one month gap.</p>
<p>Access to Primary Care Provider – Number of Visits</p>	<p>For those with PCP visits, the average number of visits to a PCP per year is also calculated.</p> <p>Number of members in each age cohort who had a PCP visit during reporting year</p>	<p>Number of PCP visits for members in each age cohort during the reporting year Total number of members in each age cohort who were continuously enrolled during the reporting year, or for newborns, for their entire life with a one month gap.</p>	<p>Total number of members in each age cohort who were continuously enrolled during the reporting year, or for newborns, for their entire life with a one month gap <i>and</i> who had a visit with a PCP during the reporting year.</p>

Access and Prevention, continued

Definition	Numerator	Denominator	Definition
Access to Primary Care Providers – New Enrollees	<p>Number of new enrollees with a PCP visit <i>during the reporting period.</i></p> <p>A <i>new enrollee</i> is defined as:</p> <ol style="list-style-type: none"> enrolled for a minimum of three months during the reporting year, and no (monthly) enrollment segments during the six months prior to beginning of the reporting year <p>For those with visits, the average number of months between first month of enrollment and month of first visit is also calculated.</p>	Number of new enrollees with a PCP visit.	Number of new enrollees
Well Child Visits: Number and Percent of children with Expected number of visits	<ol style="list-style-type: none"> A well-child visit is defined as a claim/encounter with any CPT or ICD-9-CM codes in the Code Map under “<i>Well-Child Visit</i>” for the specified age range. (Appendix 3) See Appendix 4 for chart of <i>Expected Well-Child Visits</i> Only one well-child visit per day is counted. Number of expected visits calculated using age in months at end of reporting year. For 7-11 age cohort, measure counts one visit in either of the two reporting years. 	Number of members in age cohort <i>continuously</i> enrolled during reporting year or under 1 year of age, who have had the expected number of visits.	Number of members in age cohort continuously enrolled during reporting year or under 1 year of age.
Well Child Visits: Number and Percent of children with Minimum Number of Visits	<i>Minimum number of visits is one less than the number on Appendix 4 - <i>Expected Well-Child Visits</i> chart.</i>	Number of members in age cohort continuously enrolled during reporting year or under 1 year of age, who have minimum number of visits.	

Access and Prevention, continued

Measure	Definition	Numerator	Denominator
Annual Dental Visit	<p>Number and percent of children age 1 or older with at least one dental visit.</p> <p>A <i>dental visit</i> is defined as a claim/encounter with any CDT or ICD-9-CM code in the Code Map under “<i>Annual Dental Visits</i>”. (Appendix 3).</p>	<p>Number of members continuously enrolled during reporting year who have had one or more dental visits during reporting period</p>	<p>Number of members in each age cohort continuously enrolled during reporting period</p>
Chlamydia Screening	<p>Percent of sexually active young women (ages 16 to 18 years old, inclusive) with annual Chlamydia screening.</p> <p>A <i>Chlamydia screening</i> is defined as a claim/encounter with any of the CPT codes in the Code Map under “<i>Chlamydia Screening –Numerator</i>” (Appendix 3).</p> <p>No exclusions were made (e.g., those allowed in HEDIS).</p>	<p>Number of continuously enrolled members, age 16 to 18 during the reporting period, who have at least one claim/encounter with any of the CPT codes in the Code Map under “<i>Chlamydia Screening –Numerator</i>” (Appendix 3)</p>	<p>Number of <i>continuously</i> enrolled members, age 16 to 18 during the reporting period, who have at least one claim/encounter with any of the CPT OR ICD-9-CM code in the Code Map under “<i>Chlamydia Screening – Sexually Active Women-Denominator</i>” (Appendix 3) OR Revenue Code 923 or 925 OR One or more prescriptions from Appendix 5 – HEDIS <i>Contraceptive NDC Codes</i>.</p>

Utilization and Cost

Measure	Definitions	Numerator	Denominator
Inpatient Use: Monthly admission rate per 1000 members	<p>A hospital admission is defined as a claim/encounter that meets either of the following criteria:</p> <p>1) For HKG, admissions are identified using the Advantage Build process.</p> <p>2) On HKS claims, admissions are identified by Claim Category equal to INPATIENT</p> <p>Excludes mental health admissions (ICD-9-CM 290 – 316, 960 – 979 w/secondary diagnosis of 290, 291, 292, 303, 304, 305) and births (V30 – V39) per HEDIS.</p>	Monthly Rate: Number of hospital admissions for members in each age cohort within each month of the reporting year.	Number of members in each age cohort enrolled during the reporting month.
Inpatient Use: Yearly admission rate per 1000 members		Yearly Rate: Number of hospital admissions for members in each age cohort for each reporting year as a whole.	Average of the monthly number of members enrolled in each age cohort during the reporting year.
Emergency Department Use: Monthly ED visit rate per 1000 members	<p>An institutional claim for an <i>ED visit</i> is defined as any UB92 Revenue Code or Bill Type in the Code Map under “<i>ED Visit Rates – Facility/Institution</i>” (Appendix 3)</p> <p>Excludes ED visits resulting in inpatient admission (per HEDIS)</p>	Monthly Rate: Number of ED visits for members in each age cohort within each month of the reporting year.	Number of members in each age cohort enrolled during the reporting month.
Emergency Department Use: Yearly ED visit rate per 1000 members		Yearly Rate: Number of ED visits for members in each age cohort for each reporting year as a whole.	Average of the monthly number of members enrolled in each age cohort during the reporting year.
Emergency Department Visits for Otitis Media	A ED visit for <i>otitis media</i> is defined as a claim/encounter with one of the following primary or secondary ICD-9-CM diagnosis codes: 381.0X, 381.1X, 381.2X, 381.3, 381.4, 382.X	Number of ED visits for <i>otitis media</i> during reporting period.	Number ER visits for members enrolled during reporting period.

Utilization and Cost, continued

Measure	Definitions	Numerator	Denominator
Admissions for Top Five Ambulatory Sensitive Conditions (ASC)	ASC Admission includes inpatient claim/encounters with a primary (principal) diagnosis defined as one of the ICD-9-CM codes in <i>Appendix 6 - Ambulatory Sensitive Conditions</i> Days of care for ALOS includes day of admission but not day of discharge	Number of admissions with each of the Top Five ASC conditions within each month over both reporting years. Total Days of Care for each ASC by within both reporting years. Total Costs for each ASC cohort within both reporting years.	Number of hospital admissions during each month over both reporting years. Number of hospital admissions during the reporting year times. Total Yearly Hospital Admissions for each ASC
ED Visits for Top Five Ambulatory Sensitive Conditions (ASC)	<i>ED Visit</i> defined above in Emergency Department (ED) Visit Rates measure. ASC ED Visit includes claim/encounter with a primary (principal) diagnosis defined as one of the ICD-9-CM codes in <i>Appendix 6 - Ambulatory Sensitive Conditions</i>	Number of ED visits with each of the Top Five ASC conditions within each month over both reporting years. Number of ED visits with each of the Top Five ASC conditions within both reporting years.	Number of ED visits during each month over both reporting years. Number of ED visits within both reporting years.
Payments per Member per Month 1) Average cost of inpatient admissions per member per month 2) Average cost of inpatient admissions for mental health per member per month 3) Average cost of outpatient mental health services per member per month 4) Average cost of emergency department services per member per month		1) Total amount paid for all admissions with during reporting month. 2) Total amount paid for admissions with mental health diagnoses during reporting month. 3) Total amount paid for outpatient mental health services during reporting month. 4) Total amount paid for emergency department services during reporting month.	1) Number of members with one or more admissions during reporting month. 2) Number of members with admission for mental health diagnosis during reporting month. 3) Number of members with one or more mental health visit during reporting month. 4) Number of members with one or more emergency department visits during reporting month.
Top Twenty Drugs	Drugs are analyzed by generic name	Cost per member: Total amount paid for each of top ten drugs by reporting period.	Cost per member: Total number of members who received each of the top ten drugs in reporting period.
Annual utilization of ADD/ADHD medications	See list of medications in Appendix 7 – <i>ADD/ADHD Medications</i>	Cost per member: Total amount paid for AD/ADHD medications by reporting period.	Cost per member: Total number of members with ADD/ADHD medications by reporting period.

Quality/Effectiveness of Care: Appropriate Medications for Asthma

Measure	Definitions	Numerator	Denominator
<p>1) Prevalence of members with asthma</p> <ul style="list-style-type: none"> ▪ Number of members with asthma (first part of definition) ▪ Number of members with persistent asthma (second part of definition) ▪ Number of members with intermittent asthma (number of members with asthma LESS number of members with persistent asthma) <p>2) Use of appropriate medications for persons with asthma</p>	<p>Excludes members < 2 years old</p> <p>A member with asthma is defined as having one or more of the following events during the reporting year:</p> <ul style="list-style-type: none"> ▪ At least two face-to-face outpatient encounters with a primary diagnosis of asthma, OR ▪ One ED visit with a primary or secondary diagnosis of asthma, OR ▪ One hospital admission with a primary or secondary diagnosis of asthma, OR ▪ Two or more asthma prescriptions in Appendix 8 – HEDIS <i>Asthma NDC Codes</i>, OR ▪ One face-to-face outpatient encounter with a primary diagnosis of asthma and one asthma prescription <p>Consistent with HEDIS, a member with persistent asthma is defined as having during the reporting year:</p> <ul style="list-style-type: none"> • At least 4 outpatient asthma visits (based on codes in Code Map under “<i>Asthma w/Outpt Visit</i>”) with asthma as 1 of the listed diagnoses and at least 2 asthma medication dispensing event*, OR • At least 1 ED visit (based on codes in Code Map under “<i>Asthma w/ED Svc</i>”) with asthma (ICD-9 code 493) as principal diagnosis, OR • At least 1 inpatient admission (based on codes in Code Map under “<i>Asthma w/Inpt Discharge</i>”) with asthma as principal diagnosis, OR • At least 4 asthma medication dispensing events* (i.e. an asthma medication was dispensed on four occasions). <ul style="list-style-type: none"> ▪ *A <i>dispensing event</i> is 1 prescription of an amount lasting 30 days or less 	<p>For prevalence: number of persons with asthma, with persistent asthma, with intermittent asthma (see previous column)</p> <p>For appropriate medications: number of members <i>with persistent asthma</i> who had at least one prescription from Appendix 9 - HEDIS “<i>Appropriate Asthma NDC Code</i>” list during the second reporting period.</p>	<p>For prevalence: number of <i>continuously</i> enrolled members during reporting period.</p> <p>For appropriate medications: number of members with <i>persistent asthma</i> who were <i>continuously</i> enrolled during both reporting periods.</p>

Mental Health and Substance Abuse

Measure	Definitions	Numerator	Denominator
<p><u>Outpatient Visits</u> (excluding Chemical Dependency)</p> <p><u>Inpatient Stays</u> (excluding Chemical Dependency)</p>	<p>A <i>mental health outpatient visit</i> is defined as a claim/encounter with a principal diagnosis and CPT code or Revenue Code from the Code Map under “<i>Mental Health Service Utilization – Ambulatory Day/Night Care</i>”.</p> <p>Excludes ED visits resulting in inpatient admission (per HEDIS)</p> <p>A <i>mental health inpatient admission</i> is defined as a claim/encounter with a principal diagnosis from the Code Map under “<i>Mental Health Service Utilization – Inpatient Discharges</i>”.</p> <p>HKS Only: number of members with 1,2,3,4, etc outpatient mental health visits.</p> <p>A <i>chemical dependency visit</i> is defined as a claim/encounter with a principal diagnosis and CPT code or Revenue Code from the Code Map under “<i>Chemical Dependency Utilization – Ambulatory Day/Night Care</i>”.</p>	<p>Number of members with one or more mental health services during each reporting year.</p> <p>Number of mental health services for members during each reporting year.</p>	<p>Number of members enrolled during each reporting year.</p> <p>Number of members with one or more mental health visit during each reporting year.</p>
<p><u>Chemical Dependency</u></p> <p>1) Number/percent of children receiving mental health (chemical dependency) services</p> <p>2) Average number of visits per member receiving mental health (chemical dependency) services</p>			

Appendix 2: New Hampshire DHHS Hospital Service Area Mapping

HSA	MDSS TOWN CODES	TOWNS
Berlin	401, 407, 408, 409, 412, 415, 416, 420, 433, 436, 443, 451, 455, 465, 466, 468, 470	Berlin, Dummer, Errol, Gorham, Milan, Randolph, Shelburne, Wentworth's Location, Cascade, Crystal, Millsfield, Cambridge, Dix's Grant, 2nd College Gnt, Success, Gorham Pond, W Milan
Claremont	&02, &03, &09, &14, &28, &32, &33	Charlestown, Claremont, Lempster, Unity, E Lempster, W Unity, S Charlestown
Colebrook	403, 404, 405, 414, 418, 422, 429	Clarksville, Colebrook, Columbia, Pittsburg, Stewartstown, Dixville, W. Stewartstown
Concord	102, 120, 606, 612, 629, 631, 632, 633, 703, 704, 705, 706, 707, 708, 710, 711, 713, 716, 717, 721, 722, 723, 725, 726, 731, 734, 735, 736, 742, 743, 746, 752, 826, &15	Barnstead, Ctr Barnstead, Deering, Hillsboro, Weare, Windsor, Hillsboro U Vil, W Deering, Boscawen, Bow, Bradford, Canterbury, Chichester, Concord, Dunbarton, Epsom, Henniker, Hopkinton, Loudon, Pembroke, Pittsfield, Salisbury, Warner, Webster, Contoocook, Penacook, Suncook, Davisville, Gossville, Short Falls, Gerrish, East Concord, Northwood, Washington
Conway	201, 202, 204, 205, 206, 209, 210, 211, 215, 223, 225, 228, 231, 233, 240, 241, 256, 262, 264, 269, 270, 271, 272, 449, 450, 452, 453, 454, 457, 458, 460, 461, 463, 464, 467	Albany, Bartlett, Chatham, Conway, Eaton, Hart's Location, Jackson, Madison, Tamworth, East Conway, North Conway, Chocorua, Hale's Location, Glen, Intervale, Kearsarge, South Tamworth, Ctr Conway, Silver Lake, Snowville, Redstone, Wonalancet, S Chatham, Beans Grant, Beans Purchase, Chandlers Purch, Crawfords Purch, Cutt's Grant, Green's Grant, Hadleys Purch, Low & Burbanks, Martins Loc, Pinkham's Grant, Sargents Purch, Thompson & Mes
Derry	801, 805, 808, 814, 819, 832, 833, 837, 839, 842, 843	Atkinson, Chester, Derry, Hampstead, Londonderry, Salem, Sandown, Windham, East Hampstead, N. Salem, E Derry
Dover	801, 805, 808, 814, 819, 832, 833, 837, 839, 842, 843, 901, 902, 903, 905, 906, 911, 912	Barrington, Dover, Durham, Lee, Madbury, Rollinsford, Somersworth
Exeter	803, 806, 809, 810, 811, 812, 815, 816, 817, 818, 821, 823, 824, 827, 828, 830, 834, 835, 836, 840, 841, 844	Brentwood, Danville, East Kingston, Epping, Exeter, Fremont, Hampton, Hampton Falls, Kensington, Kingston, Newfields, Newmarket, Newton, Nottingham, Plaistow, Raymond, Seabrook, South Hampton, Stratham, W Nottingham, Hampton Beach, Newton Junction
Franklin	111, 116, 127, 501, 507, 712, 714, 720, 737, 757	Tilton, Winnisquam, Lochmere, Alexandria, Bristol, Franklin, Hill, Northfield, Webster Lake, West Franklin
Haverhill	503, 504, 518, 529, 547, 548, 549, 550, 553	Bath, Benton, Haverhill, Monroe, No. Haverhill, Ctr. Haverhill, E. Haverhill, Woodsville, Pike
Keene	301, 302, 304, 305, 306, 307, 309, 310, 311, 312, 313, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, &01, &08, &29	Alstead, Chesterfield, Fitzwilliam, Gilsum, Harrisville, Hinsdale, Keene, Marlboro, Marlow, Nelson, Richmond, Roxbury, Stoddard, Sullivan, Surry, Swanzey, Troy, Walpole, Westmoreland, Winchester, N Walpole, N Swanzey, E Swanzey, W Swanzey, Ashuelot, Spofford, Munxonville, Drewsville, Westport, E Sullivan, E Westmoreland, W Chesterfield, Acworth, Langdon, S Acworth

HSA	MDSS TOWN CODES	TOWNS
Laconia	103, 104, 105, 106, 107, 108, 109, 110, 112, 113, 114, 117, 118, 119, 121, 122, 123, 124, 125, 126, 128, 212, 214, 221, 253, 266	Belmont, Center Harbor, Gilford, Gilmanton, Laconia, Meredith, New Hampton, Sanbornton, Gilmanton Crnr, Gilmanton I.W., Lower Gilmanton, Weirs, Lakeport, Meredith Center, No. Sanbornton, Sanbornton Bay, Sanbornton Sq., Bear Island, Glendale, Governor Isle, Alton Bay, Moultonboro, Sandwich, Center Sandwich, Moultonboro Nck, N Sandwich
Lancaster	410, 411, 413, 417, 419, 424, 426, 435, 440, 442, 444, 446, 447, 448, 456, 459, 462, 917	Jefferson, Lancaster, Northumberland, Stark, Stratford, Groveton, North Stratford, Coos Junction, Grange, Meadows, Percy, Riverton, So. Lancaster, Stratford Hlw, Erving's Loc., Kilkenny, Odell, Ctr. Strafford
Lebanon	509, 510, 513, 515, 517, 522, 528, 530, 531, 532, 536, 552, 554, 555, 556, 557, 558, 709, 754, &04, &05, &07, &11, &12, &30, &31, &34	Canaan, Dorchester, Enfield, Grafton, Hanover, Lebanon, Lyme, Orange, Orford, Piermont, Warren, Glencliff, West Lebanon, Lyme Center, W Canann, Enfield Center, Etna, Danbury, South Danbury, Cornish, Croydon, Grantham, Plainfield, Springfield, Cornish Flat, Meriden, W Springfield
Littleton	402, 406, 421, 423, 428, 432, 438, 441, 445, 505, 511, 514, 521, 523, 524, 525, 526, 527, 539, 540, 541, 551	Carroll, Dalton, Whitefield, Bretton Woods, Twin Mountain, Bethlehem Jct, Fabyans, Maplewood, Pierce Bridge, Bethlehem, Easton, Franconia, Landaff, Lincoln, Lisbon, Littleton, Livermore, Lyman, Woodstock, Sugar Hill, No. Woodstock, Apthorp
Manchester	603, 607, 608, 623, 701, 715, 802, 804, 807	Bedford, Manchester, Goffstown, New Boston, Allenstown, Hooksett, Auburn, Candia, Deerfield
Nashua	601, 605, 613, 614, 615, 616, 619, 620, 621, 622, 625, 630	Amherst, Brookline, Hollis, Hudson, Litchfield, Lyndeboro, Merrimack, Milford, Mont Vernon, Nashua, Pelham, Wilton
New London	702, 719, 724, 727, 728, 744, 745, 747, 748, 749, 750, 751, 753, 755, 756, &06, &10, &13, &17, &18, &19, &20, &25, &27	Andover, New London, Sutton, Wilmot, Newbury, No. Wilmot, Wilmot Flat, Potter Place, Burpee Hill, Elkins, Mount Sunapee, East Andover, East Sutton, South Sutton, North Sutton, Goshen, Newport, Sunapee, Burkehaven, Bay Point, Beauregard Vill, Blodgett's Land, Guild, Georges Mills
Peterborough	303, 308, 314, 602, 604, 609, 610, 611, 617, 618, 624, 626, 627, 628, 634	Dublin, Jaffrey, Rindge, Antrim, Bennington, Greenfield, Greenville, Hancock, Frankestown, Mason, New Ipswich, Peterborough, Sharon, Temple, W Peterborough
Plymouth	502, 506, 508, 512, 516, 519, 520, 533, 534, 535, 537, 538, 542, 543, 544, 545, 546, 559	Ashland, Bridgewater, Campton, Ellsworth, Groton, Hebron, Holderness, Plymouth, Rumney, Thornton, Waterville Valley, Wentworth, E. Holderness, Livermore Falls, Quincy, Squam Lake, Newfound Lake, W Rumney
Portsmouth	813, 820, 822, 825, 829, 831, 838	Greenland, New Castle, Newington, North Hampton, Portsmouth, Rye, Rye Beach
Rochester	904, 907, 908, 909, 910, 913, 914, 915, 916	Farmington, Middleton, Milton, New Durham, Rochester, Strafford, Gonic, E. Rochester, Milton Mills

HSA	MDSS TOWN CODES	TOWNS
Wolfeboro	230, 101, 115, 203, 207, 208, 213, 216, 217, 218, 220, 236, 254, 257, 258, 259, 261, 263, 265, 267, 268, 469	Union, Alton, West Alton, Brookfield, Effingham, Freedom, Ossipee, Tuftonboro, Wakefield, Wolfeboro, Center Ossipee, Granite, Moulton Ville, Melvin Village, Wolfeboro Falls, West Ossipee, Sanbornville, E Wakefield, Ctr Tuftonboro, S Effingham, Ctr Effingham, Mirror Lake

Appendix 3: Medical and Procedure Services -- Code Mapping

The following table includes the CPT, HCPCS or ICD-9-CM procedure codes and the ICD-9-DM diagnosis codes that represent the services being evaluated in this report and provides a mapping of the specific codes back to the Q-CHIP study measures and sub-measures within each of the measurement areas (“Utilization”, “Access”, and “Quality/Effectiveness of Care”).

Measure Area	Measure	Sub-Measure (HEDIS)	CPT/CDT Procedure Codes	ICD-9-CM Diagnosis Code	ICD-9-CM Procedure Code	UB92 Type of Bill Codes	UB92 Revenue Code
Utilization	Well-Child Visits	Well-Child Visits in the First 15 Months of Life	99381, 99382, 99391, 99392, 99432	V20.2, V70.0, V70.3, V70.5, V70.6, V70.8, V70.9			
		Well-Child Visits in the Third, Fourth, Fifth and Sixth Years of Life	99382, 99383, 99392, 99393	V20.2, V70.0, V70.3, V70.5, V70.6, V70.8, V70.9			
		Adolescent Well-Care Visits	99383-99385, 99393-99395	V20.2, V70.0, V70.3, V70.5, V70.6, V70.8, V70.9			
	Hospital Admission Rates	Inpatient Utilization – General Hospital/ Acute Care		All principal diagnosis codes except: 290-316, 960-979 w/secondary dx of chemical dependency and V30-V39		11X, 12X, 41X, 42X, 84X	
	Emergency Department Visit Rates	Facility/ Institution (UB92)					450-452, 459 (or 450-459)
Access	Access to Primary Care Practitioner	Evaluation and management	99201-99205, 99211-99215, 99241-99245, 99341-99350, 99401-99404, 99411, 99412, 99420, 99429, 99499				
		Preventive medicine	99381-99385, 99391-99395				
		General medical examination		V20.2, V70.0, V70.3, V70.5, V70.6, V70.8, V70.9			

Measure Area	Measure	Sub-Measure (HEDIS)	CPT/CDT Procedure Codes	ICD-9-CM Diagnosis Code	ICD-9-CM Procedure Code	UB92 Type of Bill Codes	UB92 Revenue Code
	New Enrollee Access to Primary Care Practitioner	See Access to Primary Care Practitioner above					
	Annual Dental Visits	Annual Dental Visit	70300, 70310, 70320, 70350, 70355 D0120-D0999, D1110-D1550, D2110-D2999, D3110-D3999, D4210-D4999, D5110-D5899, D6010-D6199, D7110-D7999, D8010-D8999, D9110-D9999		23.xx, 24.xx, 87.11, 87.12, 89.31, 93.55, 96.54, 97.22, 97.33-97.35, 99.97		
	Mental Health Service Utilization	Inpatient Discharges		290, 293-302, 306-316			
	Mental Health Service Utilization	Day/Night Care or Ambulatory Services (CMS 1500)	90801, 90802, 90804-90824, 90826-90829, 90845, 90847, 90849, 90853, 90857, 90862, 90870-90871, 90875, 90876, 99201-99205*, 99211-99215*, 99217-99219*, 99220*, 99241-99245*, 99347-99350*, 99381-99387*, 99391-99397*, 99401-99404*, 99420* *must be w/mental health practitioner	290, 293-302, 306-316			450-452, 456, 459, 510, 513, 515-517, 519-523, 526, 529, 762, 900-903, 909-916, 918, 919, 961

Measure Area	Measure	Sub-Measure (HEDIS)	CPT/CDT Procedure Codes	ICD-9-CM Diagnosis Code	ICD-9-CM Procedure Code	UB92 Type of Bill Codes	UB92 Revenue Code
	Chemical Dependence Utilization	Day/Night Care or Ambulatory Services (CMS 1500)	90801, 90802, 90804-90824, 90826-90829, 90845, 90847, 90849, 90853, 90857, 90862, 90870-90871, 90875, 90876, 99201-99205*, 99211-99215*, 99217-99219*, 99220*, 99241-99245*, 99347-99350*, 99381-99387*, 99391-99397*, 99401-99404*, 99420* *must be w/mental health practitioner	291xx – 292xx, 303xx – 305xx, 960xx – 979xx with secondary diagnosis of chemical dependency (291xx-292xx or 303xx – 305xx)			
Quality/ Effectiveness of Care	Asthma	Asthma with Emergency Dept Services		493.xx			450-452, 459, 981
		Asthma with Inpatient Discharge		493.xx			
		Asthma with Outpatient Visit	99201-99205, 99211-99215, 99217-99220, 99241-99245, 99271-99275	493.xx			456, 510, 515-517, 520, 521, 523, 526, 76x, 770, 779, 982, 983, 988

Measure Area	Measure	Sub-Measure (HEDIS)	CPT/CDT Procedure Codes	ICD-9-CM Diagnosis Code	ICD-9-CM Procedure Code	UB92 Type of Bill Codes	UB92 Revenue Code
	Chlamydia Screening	Sexually Active Women -Denominator	11975-11977, 57170, 58300, 58301, 58600, 58605, 58611, 58615, 58970, 58974, 58976, 59000, 59001, 59012, 59015, 59020, 59025, 59030, 59050, 59051, 59100, 59120, 59121, 59130, 59135, 59136, 59140, 59150, 59151, 59160, 59200, 59300, 59320, 59325, 59350, 59400, 59409, 59410, 59412, 59414, 59425, 59426, 59430, 59510, 59514, 59515, 59525, 59610, 59612, 59614, 59618, 59620, 59622, 59812, 59820, 59821, 59830, 59840, 59841, 59850-59852, 59855-59857, 59866, 59870, 59871, 59898, 59899, 76801, 76802, 76805, 76810-76812,	042, 054.1, 078.19, 078.88, 079.4, 079.51-079.53, 079.88, 079.98, 091.xx-099.xx, 131.00, V01.6, V02.7, V02.8, V08, V22.x-V28.x, V61.5, V72.3, V72.4, V74.5, V76.2, V73.88, V73.98			923, 925

Measure Area	Measure	Sub-Measure (HEDIS)	CPT/CDT Procedure Codes	ICD-9-CM Diagnosis Code	ICD-9-CM Procedure Code	UB92 Type of Bill Codes	UB92 Revenue Code
	Chlamydia Screening	Sexually Active Women -Denominator	76815-76819, 76825-76828, 76830, 76941, 76945-76946, 80055, 81025, 82105, 82106, 82731, 83516, 83518-83520, 84702-84703, 86225-86226, 86592-86593, 86631-86632, 87110, 87164, 87166, 87270, 87320, 87490-87492, 87590-87592, 87620-87622, 87810, 87850, 88141-88145, 88147, 88148, 88150, 88152-88155, 88160-88162, 88164-88167, 88174-88175, 88235, 88267, 88269				
		Chlamydia Screening - Numerator	87110, 87270, 87320, 87490, 87491, 87492, 87800, 87810				

Appendix 4: Expected Number of Well-Child Visits

Age Cohort	Age	Expected Number of Well-Child Visits
<1 yr	Birth to 47 hours	1
<1 yr	2 to 4 days*	2
<1 yr	1 mo	3
<1 yr	2-3 mos	4
<1 yr	4-5 mos	5
<1 yr	6-8 mos	6
<1 yr	9-11 mos	7
1 -2 yrs	12 mos	6 (newborn and post discharge visit drop off, 12 mo added)
1 -2 yrs	13 mos	5 (1 st mo dropped)
1 -2 yrs	14 mos	4 (2 nd mo dropped)
1 -2 yrs	15 mos	4 (3 th mo dropped, 15 th mo added)
1 -2 yrs	16 – 17 mos	4 (4 th mo dropped)
1 -2 yrs	18 – 20 mos	4 (6 th mo dropped, 18 th mo added)
1 -2 yrs	21 - 23 mos	3 (9 th mo dropped)
1 -2 yrs	24 – 26 mos	3 (12 th mo dropped, 2 nd yr added)
1 -2 yrs	27 – 29 mos	2 (15 th mo dropped)
1 -2 yrs	30 - 35 mos	1 (18 th mo dropped)
3 - 6 yrs	36 - 83 mos	1 per yr
7 - 11 yrs	84 - 143 mos	1 in past two yrs
12 - 18 yrs	144 - 227 mos	1 in past yr

*Infants discharged less than 48 hours after delivery should have a visit at 2 to 4 days of age.

Appendix 5: Oral Contraceptives

00008005601	00009737604	00062125120	00062318011	00062338800	00234013100	00430058214
00008005602	00025007107	00062133115	00062318012	00062338900	00234013150	00430058260
00008006201	00025007124	00062133215	00062318501	00062363000	00234013155	00430058311
00008006202	00025008109	00062133220	00062325001	00071014423	00234013160	00430058514
00008007501	00025008124	00062141101	00062325002	00071014445	00234013165	00536405548
00008007502	00025015107	00062141116	00062325501	00071091315	00234013170	00536405748
00008007801	00025015124	00062171215	00062330100	00071091345	00234013175	00536405844
00008007802	00025016109	00062171415	00062330200	00071091347	00234013180	00555034458
00008091202	00025016124	00062171420	00062330300	00071091348	00234013185	00555071558
00008251101	00025023506	00062176015	00062330400	00071091547	00234013190	00555900858
00008251102	00025025203	00062176115	00062330500	00071091548	00234013195	00555900957
00008251401	00025025403	00062176120	00062330600	00071091615	00234013500	00555901058
00008251402	00025025706	00062177015	00062330700	00071091647	00234013600	00555901258
00008251403	00025025906	00062177115	00062330800	00071091648	00234013660	00555901458
00008253301	00025025912	00062178015	00062330900	00071091715	00234013665	00555901658
00008253302	00025026306	00062178022	00062334100	00071091745	00234013670	00555902058
00008253303	00025026506	00062178115	00062334200	00071091747	00234013675	00555902557
00008253501	00025027206	00062178120	00062334300	00071091748	00234013680	00555902658
00008253505	00025027212	00062178122	00062334400	00071092815	00234013685	00555902757
00008253601	00025027406	00062179515	00062334500	00071092847	00234013690	00555902858
00008253603	00025027412	00062179615	00062334600	00085005001	00234013695	00555904358
00008253605	00027013160	00062190015	00062334700	00085005002	00247024702	00555904558
00008256401	00027013180	00062190100	00062334800	00085005003	00247024705	00555904758
00008257601	00047092635	00062190115	00062334900	00085005004	00247024728	00555904958
00008257602	00047092735	00062190120	00062335000	00085005005	00247100328	00555905058
00009074630	00047094211	00062190215	00062335100	00085043901	00247100421	00573330109
00009074635	00047094735	00062190300	00062335200	00085043902	00339651899	00573330118
00009348404	00052026106	00062190315	00062338100	00087057841	00396401000	00905027928
00009348405	00052026906	00062190320	00062338200	00087057941	00396401065	00905029128
00009348406	00052027301	00062192001	00062338300	00087058342	00396401070	05476538005
00009348410	00052028106	00062192015	00062338400	00179129603	00396401075	08137008908
00009737601	00052028306	00062313301	00062338500	00179129703	00396401080	08217158200
00009737602	00062125101	00062313302	00062338600	00179129803	00396401085	08217158222
00009737603	00062125115	00062317009	00062338700	00234005100	00430054423	08217158225

Appendix 5: Oral Contraceptives, continued

08217158228	52544025928	52925031214	54569499800	54868404500
08217158231	52544025988	52959046004	54569499900	54868409300
11423000700	52544026528	54092008721	54569511500	54868419600
11423000707	52544027428	54569047302	54569516100	54868436900
11423007000	52544027721	54569067300	54569516400	54868453800
16169040303	52544027928	54569067900	54569527200	54868459000
16169040305	52544029128	54569068500	54569534200	54868460700
44778001484	52544038328	54569068900	54569534300	54868467000
44778001584	52544038428	54569068901	54569534900	54868467900
48723000111	52544050721	54569069000	54569535800	54868471200
48723000333	52544050821	54569069500	54569541300	54868481400
48723000666	52544051021	54569069501	54569543300	54868482800
50419040203	52544052628	54569135200	54569549300	54868483200
50419040603	52544053221	54569135300	54765038000	54868486000
50419040803	52544053321	54569135400	54765038001	54868491100
50419041021	52544055028	54569143900	54765038005	55289024504
50419041101	52544055228	54569176600	54868040400	55289024608
50419041112	52544055321	54569239700	54868042800	59564021401
50419041128	52544055428	54569239701	54868050200	59564022124
50419042101	52544055628	54569264900	54868050800	59564023124
50419043203	52544062928	54569325401	54868050901	59564023224
50419043206	52544063028	54569370100	54868051600	59564023324
50419043301	52544063128	54569384400	54868051800	59564023524
50419043303	52544084721	54569422200	54868051801	59564023784
50419043306	52544084728	54569422201	54868151200	59564023884
50419043312	52544084828	54569426900	54868156400	63955001001
51285001728	52544089228	54569427300	54868260600	63955002002
51285005866	52544093628	54569471000	54868332800	64836000001
51285051428	52544095021	54569481700	54868361300	
51285054628	52544095121	54569487800	54868377200	
51285057628	52925011201	54569487801	54868379000	

51672204104	52925011202	54569489000	54868386300
52544023528	52925011203	54569498400	54868394800
52544025428	52925011204	54569499700	54868395100

Appendix 6: Ambulatory Sensitive Conditions

Condition	ICD 9-CM Code	Comments
Congenital Syphilis	090	Secondary Diagnosis, Newborns only
Immunization-Preventable Conditions		
Pertussis	033	
Rheumatic fever without mention of heart involvement	390	
Rheumatic fever with heart involvement	391	
Tetanus	037	
Polio	045	
Haemophilus meningitis	320.0	All ages
Grand Mal Status and other epileptic convulsions	345	
Convulsions	780.3	All ages
Severe ENT Infections		
Suppurative and unspecified otitis media	382	Exclude otitis media cases with myringotomy with insertion of tube (20.01)
Acute pharyngitis	462	
Acute tonsillitis	463	
Acute upper respiratory infection	465	
Chronic pharyngitis	472.1	
Chronic Obstructive Pulmonary Disease		
Chronic bronchitis	491	
Emphysema	492	
Bronchiectasis	494	
Chronic airway obstruction, not elsewhere classified	496	
Acute bronchitis	466.0	Acute bronchitis only with secondary diagnosis of 491, 492, 494, or 496

Condition	ICD 9-CM Code	Comments
Bacterial Pneumonia		
Pneumococcal pneumonia	481	Exclude cases with secondary diagnosis of sickle cell (282.6)
Pneumonia due to Haemophilus Influenza	482.2	
Pneumonia due to Streptococcus	482.3	
Bacterial pneumonia unspecified	482.9	
Pneumonia due to other specified organisms	483	
Bronchopneumonia, organism unspecified	485	
Pneumonia, organism unspecified	486	
Asthma	493	
Cellulitis		
Cellulitis and abscess of finger and toe	681	Exclude cases with a surgical procedure (1-86.99), except incision of skin and subcutaneous tissue (86.0) as only listed
Other cellulitis and abscess	682	
Acute lymphadenitis	683	
Other local infections of skin and subcutaneous tissue	686	
Skin grafts with Cellulitis	Procedures	
	86.22	
	86.27	
	86.28	
	86.69	
	86.75	
Diabetes A		
Diabetes with ketoacidosis	250.1	
Diabetes with hyperosmolar coma	250.2	
Diabetes with other coma	250.3	
Diabetes B		
Diabetes with other specified manifestations	250.8	
Diabetes with unspecified complication	250.9	

Condition	ICD 9-CM Code	Comments
Diabetes C		
Diabetes mellitus without mention of complication	250.0	
Hypoglycemia (unspecified)	251.2	
Gastroenteritis	558.9	
Kidney/Urine Infection		
Infections of kidney	590	
Urinary tract infection, site not specified	599.0	
Unspecified disorder of urethra and urinary tract	599.9	
Dehydration – Volume Depletion	276.5	
Iron Deficiency Anemia		Age <6
Secondary to inadequate dietary iron intake	280.1	
Other specified iron deficiency anemias	280.8	
Iron deficiency anemia, unspecified	280.9	
Nutritional Deficiencies		
Kwashiorkor	260	
Nutritional marasmus	261	
Other severe protein calorie malnutrition	262	
Rickets, active	268.0	
Rickets, late effect	268.1	
Failure to thrive	783.4	Age <1
Pelvic Inflammatory Disease	614	Exclude cases of principal procedure of hysterectomy (68.3-68.8)
Dental Conditions		
Diseases of hard tissue and teeth	521	
Diseases of pulp and periapical tissues	522	
Gingival and periodontal diseases	523	
Other diseases and conditions of teeth	525	
Diseases of oral soft tissue	528	

Appendix 7: AD/ADHD Medications

Brand Name	Generic
ADDERALL, ADDERAL XR	Amphetamine Salt Combination
FOCALIN	Dexmethylphenidate Hydrochloride
DEXEDRINE, DEXTROSTAT	Dextroamphetamine Sulfate
DESOXYN, DESOXYN GRADUMET	Methamphetamine Hydrochloride
CONCERTA, METADATE, METADATE CD, METHYLIN, RITALIN	Methylphenidate Hydrochloride
PROVIGIL	Modafinil
CYLERT (non-amphetamine)	Pemoline
STRATTERA (non-stimulant)	Atomoxetine HCl

Appendix 8: Asthma NDC Codes (All Asthma Medications)

00005306231	00037073192	00054840421	00075035168	00085061403	00089034210	00172439019	00173051100	00182159010
00005306243	00037073197	00054842925	00075035268	00085061510	00089034310	00172640544	00173052000	00182159089
00005306331	00037073199	00054843025	00075035716	00085069401	00089034380	00172640549	00173052100	00182194101
00005306343	00044452002	00054843125	00075107500	00085073604	00089034410	00172640649	00173068200	00182601465
00006011728	00047059224	00054843225	00075107562	00085080601	00089034510	00172640659	00173069500	00182601540
00006011731	00047059230	00054843425	00075112500	00085080681	00089034710	00172640744	00173069502	00182608040
00006011754	00047059324	00054861311	00075112562	00085081401	00089074021	00172640749	00173069600	00182801024
00006027528	00047065724	00054861411	00075135600	00085093301	00089074121	00173031288	00173069602	00186091542
00006027531	00047065924	00054884504	00075135699	00085093305	00089078511	00173031298	00173069700	00186149001
00006027554	00047065930	00054884604	00075365016	00085093310	00089078521	00173032188	00173069702	00186149104
00006071128	00047299711	00054884816	00083016702	00085093350	00089079021	00173032198	00179036501	00186149117
00006071131	00049254066	00070234000	00083016711	00085093381	00089081521	00173034143	00179104701	00186198804
00006071154	00049254073	00070234100	00083016774	00085111201	00089081710	00173034144	00179115204	00186198904
00006384130	00049255093	00070234200	00085020802	00085111203	00093058801	00173034243	00179115208	00186413001
00024086625	00054304563	00070234300	00085020901	00085113201	00093058901	00173034244	00179122820	00186413101
00024087101	00054340844	00070999606	00085025202	00085113202	00093059901	00173035154	00179130004	00223010001
00024087301	00054384163	00070999612	00085025203	00085133601	00093066116	00173038558	00179130008	00223010002
00024087801	00054402525	00071021124	00085031502	00085140101	00093093401	00173038901	00179132004	00223010201
00024087901	00054402625	00071021424	00085043102	00085140201	00093093601	00173038902	00179132008	00223010202
00034700470	00054402631	00071022124	00085043103	00085180601	00093093801	00173038903	00182010901	00223620508
00034700480	00054802525	00074141001	00085043104	00086003110	00093094001	00173041900	00182010910	00223630801
00034700680	00054802625	00074803622	00085048701	00086003150	00093223001	00173046300	00182011001	00223630802
00034710280	00054804916	00075005700	00085048705	00086003210	00093223201	00173046400	00182011010	00223662201
00037051568	00054805016	00075005762	00085048710	00086003250	00093611716	00173046500	00182022640	00223662301
00037051569	00054806311	00075006037	00085048750	00086003290	00115215001	00173046700	00182022641	00247006102
00037052192	00054806313	00075010000	00085048781	00086003310	00115215003	00173046900	00182101101	00247006108
00037052197	00054806321	00075010062	00085057302	00086003350	00115215801	00173049100	00182137540	00247006120
00037052198	00054816721	00075010099	00085057303	00086003390	00115215803	00173049400	00182140001	00247006130
00037054192	00054816723	00075020000	00085058401	00087051602	00143102001	00173049500	00182140005	00247006150
00037054196	00054840211	00075020062	00085058405	00087051603	00143102010	00173049700	00182140010	00247006160
00037054197	00054840213	00075020099	00085058410	00089017540	00143102501	00173049800	00182140089	00247006190
00037054568	00054840221	00075030000	00085058450	00089017780	00143102510	00173049900	00182158901	00247007000
00037054569	00054840411	00075030062	00085058481	00089034110	00172439000	00173050400	00182158989	00247007002
00037056192	00054840413	00075030099	00085061402	00089034180	00172439018	00173050900	00182159001	00247007009

Appendix 8: Asthma NDC Codes (All Asthma Medications), continued

00247007010	00247058841	00281112774	00364263298	00456064808	00472082504	00536465105	00597008062	00615160610
00247007012	00247060408	00310040139	00364706016	00456064816	00472082508	00536465110	00597008214	00615160613
00247007020	00247060414	00310040160	00378025501	00456067099	00472082516	00536465201	00597008218	00615160801
00247007030	00247060420	00310040239	00378025505	00456067299	00472083123	00536465205	00603100475	00615160810
00247007050	00247060430	00310040260	00378057201	00456358101	00472083130	00536465210	00603100499	00615160813
00247007052	00247065765	00332222609	00378057205	00456358105	00472083160	00536563301	00603100540	00659280525
00247007060	247065865	00332222613	00378340172	00456358110	00472083220	00536563401	00603100643	00677000301
00247007090	00247066708	00332222809	00405213125	00456358301	00472083230	00551012301	00603100758	00677000701
00247008417	00247067441	00332222813	00405213516	00456358305	00472087308	00551012302	00603119058	00677000710
00247008486	00247087120	00332223009	00405325516	00456358310	00472123816	00551012401	00603142258	00677081701
00247017700	00256015001	00332223209	00405403001	00456358401	00472126463	00551012402	00603172958	00677081705
00247017702	00258358101	00332611738	00405403002	00456358405	00472137348	00551020501	00603209321	00677084601
00247017703	00258358105	00349826660	00405403101	00456431001	00472137748	00551022001	00603209328	00677084605
00247017704	00258358110	00349828001	00405403102	00456431002	00472144416	00556014916	00603209421	00677103701
00247017706	00258358301	00349828160	00405462901	00456432000	00472144428	00556014928	00603209428	00677135901
00247017710	00258358305	00349868301	00405463001	00456432001	00472154016	00573294210	00603394821	00677135905
00247017714	00258358310	00349868410	00430021424	00456432002	00485005916	00573294220	00603446421	00677136001
00247017720	00258358401	00349868510	00430022124	00456433000	00487950101	00585067302	00603446521	00677136005
00247017730	00258358405	00349889405	00436050628	00456433001	00487950103	00585067303	00603574721	00677152122
00247017760	00258361401	00349899405	00440704530	00456433002	00487950125	00585067501	00603594421	00677152272
00247019020	00258362501	00349899501	00440704630	00456434501	00487950160	00585067502	00603594428	00677178001
00247026404	00258363401	00349899505	00440853030	00463600110	00487980101	00585068502	00603594521	00686065720
00247026406	00258363701	00364000401	00440853130	00463600310	00487980130	00591790401	00603594528	00686065820
00247026415	00258363801	00364000501	00440853190	00463903116	00487980160	00591790501	00603594529	00686223009
00247026420	00281111553	00364066001	00440853194	00472070916	00487990130	00597001314	00603594532	00686223209
00247026430	00281111557	00364066002	00440853230	00472075021	00525030501	00597004801	00603594621	00686611738
00247026432	00281111563	00364068001	00451039850	00472075060	00525037616	00597006962	00603594628	00781100301
00247026504	00281111653	00364068101	00451039860	00472075123	00536146285	00597007017	00603594629	00781100401
00247026515	00281111657	00364228401	00451039950	00472075130	00536210085	00597007018	00603594632	00781100405
00247026520	00281111663	00364241716	00451039960	00472075160	00536300801	00597007130	00603594921	00781100501
00247026530	00281111874	00364249001	00456064416	00472075221	00536300901	00597007175	00603595021	00781100505
00247030852	00281112453	00364252216	00456064428	00472075260	00536306001	00597007201	00603595121	00781121401
00247034817	00281112457	00364253055	00456064432	00472075330	00536390601	00597007316	00603595221	00781131801
00247035030	00281112463	00364258801	00456064508	00472075360	00536465101	00597007862	00615160601	00781131810

Appendix 8: Asthma NDC Codes (All Asthma Medications), continued

00781167101	00839672916	00904155660	00904287960	38130006601	49502069303	50474030001	52555058201	54092006701
00781167201	00839673006	00904155760	00904287961	38130006610	49502069703	50474030050	52555058205	54092006710
00781192801	00839673012	00904155860	00904288016	38245013807	49502069733	50474030060	52555059417	54092006752
00781606716	00839744269	00904161040	00904288130	38245066917	49502069760	50474040001	52555059418	54092006801
00781640416	00839748506	00904161060	00904507834	44778001904	49502079516	50474040060	52555070201	54092006901
00781660016	00839748606	00904161061	00904507934	44778001909	49884025801	50580017540	52555070301	54092007001
00781660028	00839760807	00904161140	00904538660	45565030501	49884025901	50580017780	52555070310	54092007005
00781750287	00839760880	00904161160	00904765855	45565030503	49884036148	50732089604	52555070401	54198011509
00781750288	00839761106	00904161161	00904768116	45565030617	49884041133	50732089616	52555070410	54569004800
00781753580	00839761112	00904161180	00904773117	45985063308	50111045901	50732089628	52555070501	54569004900
00781915093	00839761206	00904161240	00904784660	45985064401	50111045902	50732089716	52959009403	54569005200
00785434501	00839761212	00904161260	00904784760	45985064701	50111045903	50732089728	52959013100	54569005300
00814062530	00839763907	00904161261	00904784860	46672061416	50111048201	50991020016	52959015303	54569006202
00814062730	00839765106	00904161280	00904784960	49452455501	50111048202	50991040001	52959015306	54569006501
00814778582	00839770506	00904161360	10892015065	49452455502	50111048203	50991040005	52959015309	54569006502
00814780114	00839770606	00904227360	10892016010	49452455503	50111048301	51079065720	52959015500	54569006505
00814780128	00839770612	00904227380	11845035904	49502010501	50111048302	51079065820	52959015806	54569006700
00814780214	00839770716	00904228261	12539001802	49502019620	50111049101	51079076010	52959027930	54569031801
00814780228	00839774669	00904228270	12939011816	49502030317	50111049102	51079076110	52959028603	54569038702
00814780514	00839785969	00904228280	12939021216	49502030327	50111049201	51479001103	52959029300	54569100300
00814780528	00839786018	00904228360	17236032401	49502033317	50111049202	51479001106	52959038603	54569100400
00839101106	00839786035	00904228361	17236032405	49502033327	50111051801	51479001201	52959042520	54569100600
00839101116	00839786197	00904228380	17236032410	49502043101	50111080131	51655017776	52959056901	54569101200
00839502969	00839786706	00904235330	17236032501	49502043201	50111080132	51991037501	52959058801	54569101300
00839502970	00839788506	00904261609	17236032505	49502067230	50111084601	52152001302	52959058900	54569160000
00839505316	00839788606	00904287534	17236032510	49502067260	50111084605	52152001304	52959059601	54569166401
00839621606	00839788706	00904287640	17236033501	49502067603	50383074016	52152001305	52959059801	54569166600
00839621616	00839788806	00904287660	17236033505	49502067803	50383074120	52544041916	52959074120	54569166601
00839634869	00879022616	00904287661	17270072101	49502068503	50383074225	52555049101	53014007525	54569196700
00839669306	00879022628	00904287740	24208034720	49502068533	50383080616	52555049105	53014007560	54569198900
00839669316	00904007028	00904287760	24208037360	49502068560	50474010001	52555049201	53489017601	54569203200
00839669706	00904144416	00904287761	24208037362	49502068902	50474020001	52555049205	53489017605	54569225300
00839672906	00904144428	00904287860	38130001201	49502068912	50474020050	52555058101	53489017701	54569248200
00839672912	00904155516	00904287861	38130001210	49502069203	50474020060	52555058105	53489017705	54569248201

Appendix 8: Asthma NDC Codes (All Asthma Medications), continued

54569248205	54569474800	54868104101	54868408200	55289026097	57480036501	58016047706	59930150006	60432015721
54569248300	54569477200	54868104301	54868408201	55289031730	57480036506	58016048224	59930150008	60432065016
54569248301	54569482200	54868107302	54868418200	55289031760	57480036601	58016048248	59930150901	60432067601
54569248302	54569486300	54868107303	54868422500	55289031830	57480036606	58016060300	59930150902	60432067630
54569248303	54569486700	54868107304	54868426400	55289031860	57480036701	58016060312	59930151005	60505080201
54569273200	54569489600	54868107305	54868429500	55289036320	57480036706	58016060315	59930151504	60505080202
54569275400	54569489900	54868107306	54868439200	55289036324	57480042201	58016060320	59930151701	60505080601
54569287400	54569491000	54868107403	54868440900	55289036330	57480042301	58016060324	59930151702	60505080701
54569287401	54569516200	54868107405	54868448100	55289049830	57480842206	58016060330	59930152001	60505080801
54569287402	54569516300	54868107406	54868451600	55289054408	57779011509	58016068330	59930152002	60505580209
54569340900	54569516700	54868107407	54868451700	55289054460	57866005101	58016402104	59930153001	61392001630
54569370001	54569524100	54868126801	54868451800	55289063415	57866465102	58016402105	59930153002	61392001645
54569370002	54569524200	54868126901	54868463000	55289063460	57866465202	58016501801	59930156001	61392001651
54569374100	54569524300	54868143800	55053052201	55289075130	57866465301	58016501820	59930156002	61392001654
54569385500	54569543200	54868143801	55175418700	55289075160	58016032818	58016605901	59930164702	61392001656
54569389900	54569544500	54868143901	55175418703	55289078530	58016032820	58016605917	59930165001	61392001660
54569390000	54569858000	54868184101	55175418704	55289078560	58016032824	58016609901	59930165002	61392001690
54569395900	54569858600	54868188301	55175441701	55289078860	58016032848	58016610901	59930165003	61392001691
54569397600	54569858900	54868189402	55175443501	55289078930	58016040200	58016620501	59930166001	61392001730
54569417201	54836050780	54868190300	55175446501	55289080930	58016040212	58016620700	59930166002	61392001751
54569417801	54838050780	54868247201	55175446601	55289081030	58016040220	58016620701	59930166003	61392001754
54569424500	54838051380	54868264901	55289000360	55370011107	58016040230	58016631617	59930167001	61392001756
54569427900	54868002800	54868282101	55289000930	55370011108	58016040300	58016640401	59930167002	61392001760
54569454000	54868002801	54868288700	55289000960	55370011207	58016040312	58016640420	59930167003	61392001790
54569454900	54868002802	54868317900	55289004530	55370011208	58016040315	58016653701	59930168001	61392001791
54569460000	54868002803	54868328300	55289015597	55370031548	58016040320	58016653714	60258033516	61392056730
54569460200	54868002805	54868328301	55289025901	55953005101	58016040330	58016656901	60258037116	61392056731
54569460300	54868002900	54868328302	55289025930	55953005153	58016047300	58980010817	60346022676	61392056732
54569460401	54868002902	54868340700	55289025960	55953020925	58016047312	59243002110	60346028274	61392056739
54569460500	54868002903	54868347900	55289026001	55953021220	58016047315	59310017540	60346028530	61392056745
54569461500	54868002905	54868368200	55289026006	55953048040	58016047320	59310017780	60432001916	61392056751
54569462100	54868002906	54868370200	55289026020	55953048070	58016047324	59743000601	60432001928	61392056754
54569473600	54868030801	54868370900	55289026030	55953049940	58016047330	59772617501	60432009406	61392056756
54569474100	54868073001	54868373900	55289026060	55953049970	58016047390	59772617502	60432015706	61392056760

Appendix 8: Asthma NDC Codes (All Asthma Medications), continued

61392056765	63874037850	65473075401
61392056790	63874044301	65473075801
61392056791	63874044315	66116017984
61392056795	63874044320	66116066417
61392057030	63874044330	66239011116
61392057031	63874044701	66267001030
61392057032	63874044715	66267099517
61392057039	63874044720	66794000125
61392057045	63874044730	66794000130
61392057051	63874044760	66794000160
61392057054	63874048505	66794000225
61392057056	63874048512	66794000230
61392057060	63874048515	66794000260
61392057065	63874048520	66794000330
61392057090	63874048524	
61392057091	63874067501	
61392057095	63874067515	
61570001901	63874067520	
61570001905	63874067530	
61570002001	63874070820	
61570002201	63874070901	
61570002256	63874070912	
62037079444	63874070924	
63402051124	63874070948	
63402051224	63874070990	
63402051324	63874074412	
63402051396	63874074424	
63874037701	63874074917	
63874037712	65271000112	
63874037715	65271000125	
63874037720	65271000130	
63874037724	65271000160	
63874037801	65271000205	
63874037824	65271000206	

Appendix 9: Appropriate Medications, Persistent Asthmatics -- NDC Codes

00006011728	00049254066	00075020062	00085093381	00115215801	00182137540	00247007012	00258363801	00440853030
00006011731	00049254073	00075020099	00085111201	00115215803	00182140001	00247007020	00281111553	00440853130
00006011754	00049255093	00075030000	00085111203	00143102001	00182140005	00247007030	00281111557	00440853190
00006027528	00054304563	00075030062	00086003110	00143102010	00182140010	00247007050	00281111563	00440853194
00006027531	00054384163	00075030099	00086003150	00143102501	00182140089	00247007052	00281111653	00440853230
00006027554	00054402525	00075035168	00086003210	00143102510	00182158901	00247007060	00281111657	00456064416
00006071128	00054402625	00075035268	00086003250	00172640649	00182158989	00247007090	00281111663	00456064428
00006071131	00054402631	00075035716	00086003290	00172640659	00182159001	00247017700	00281111874	00456064432
00006071154	00054802525	00075107500	00086003310	00173031288	00182159010	00247017702	00281112453	00456064508
00006384130	00054802625	00075107562	00086003350	00173031298	00182159089	00247017703	00281112457	00456064808
00034700470	00054804916	00075112500	00086003390	00173046900	00182194101	00247017704	00281112463	00456064816
00034700480	00054805016	00075112562	00087051602	00173049100	00186091542	00247017706	00281112774	00456067099
00034700680	00054816721	00075135600	00087051603	00173049400	00186198804	00247017710	00310040139	00456067299
00034710280	00054816723	00075135699	00089017540	00173049500	00186198904	00247017714	00310040160	00456358101
00037051568	00054884504	00075365016	00089017780	00173049700	00223010001	00247017720	00310040239	00456358105
00037051569	00054884604	00085048701	00089034110	00173049800	00223010002	00247017730	00310040260	00456358110
00037052192	00054884816	00085048705	00089034180	00173049900	00223010201	00247017760	00349826660	00456358301
00037052197	00070234000	00085048710	00089034210	00173050400	00223010202	00247019020	00349828001	00456358305
00037052198	00070234100	00085048750	00089034310	00173050900	00223620508	00247030852	00349828160	00456358310
00037054192	00070234200	00085048781	00089034380	00173051100	00223630801	00247066708	00349868301	00456358401
00037054196	00070234300	00085058401	00089034410	00173069500	00223630802	00247067441	00349868410	00456358405
00037054197	00070999606	00085058405	00089034510	00173069502	00223662201	00256015001	00349868510	00456431001
00037054568	00070999612	00085058410	00089034710	00173069600	00223662301	00258358101	00364000401	00456431002
00037054569	00071021124	00085058450	00089074021	00173069602	00247006102	00258358105	00364000501	00456432000
00037056192	00071021424	00085058481	00089074121	00173069700	00247006108	00258358110	00364066001	00456432001
00037073192	00071022124	00085069401	00093058801	00173069702	00247006120	00258358301	00364066002	00456432002
00037073197	00074803622	00085073604	00093058901	00179104701	00247006130	00258358305	00364068001	00456433000
00037073199	00075005700	00085080601	00093059901	00179122820	00247006150	00258358310	00364068101	00456433001
00044452002	00075005762	00085080681	00093093401	00182010901	00247006160	00258358401	00364249001	00456433002
00047059230	00075006037	00085081401	00093093601	00182010910	00247006190	00258358405	00364258801	00456434501
00047059324	00075010000	00085093301	00093093801	00182011001	00247007000	00258361401	00364706016	00463600110
00047065724	00075010062	00085093305	00093094001	00182011010	00247007002	00258362501	00430021424	00463600310
00047065924	00075010099	00085093310	00115215001	00182022640	00247007009	00258363401	00430022124	00463903116
00047065930	00075020000	00085093350	00115215003	00182022641	00247007010	00258363701	00436050628	00472070916

Appendix 9: Appropriate Medications, Persistent Asthmatics -- NDC Codes, continued

00472075021	00585067303	00677000710	00839621616	00904161180	24208037360	50474030050	54092007001	54569473600
00472075060	00585067501	00677081701	00839634869	00904161240	24208037362	50474030060	54092007005	54569474100
00472075221	00585067502	00677081705	00839669306	00904161260	38130001201	50474040001	54198011509	54569477200
00472075260	00585068502	00677084601	00839669316	00904161261	38130001210	50474040060	54569004800	54569482200
00472087308	00591790401	00677084605	00839669706	00904161280	38130006601	50580017540	54569004900	54569486300
00472123816	00591790501	00677103701	00839672906	00904161360	38130006610	50580017780	54569005300	54569489600
00472144416	00597004801	00677178001	00839672912	00904227360	45565030501	50732089604	54569006202	54569516200
00472144428	00603119058	00781100301	00839672916	00904227380	45565030503	50732089616	54569006501	54569516300
00472154016	00603172958	00781100401	00839673006	00904228261	45565030617	50732089628	54569006502	54569516700
00485005916	00603394821	00781100405	00839673012	00904228270	45985063308	50732089716	54569006505	54569524100
00525030501	00603574721	00781100501	00839765106	00904228280	45985064401	50732089728	54569006700	54569524200
00525037616	00603594421	00781100505	00839770506	00904228360	45985064701	50991020016	54569031801	54569524300
00536210085	00603594428	00781121401	00839770606	00904228361	46672061416	50991040001	54569100400	54569858000
00536306001	00603594521	00781131801	00839770612	00904228380	49502043101	50991040005	54569101200	54569858600
00536390601	00603594528	00781131810	00839770716	00904261609	49502043201	51991037501	54569101300	54838051380
00536465101	00603594529	00781192801	00839788506	00904538660	49502068902	52152001302	54569166401	54868002800
00536465105	00603594532	00781660016	00839788606	00904784660	49502068912	52152001304	54569166600	54868002801
00536465110	00603594621	00781660028	00839788706	00904784760	50111045901	52152001305	54569166601	54868002802
00536465201	00603594628	00785434501	00839788806	00904784860	50111045902	52555070201	54569203200	54868002803
00536465205	00603594629	00814062530	00879022616	00904784960	50111045903	52555070301	54569248200	54868002805
00536465210	00603594632	00814062730	00879022628	10892015065	50111048201	52555070310	54569248201	54868002900
00536563301	00603594921	00814778582	00904007028	10892016010	50111048202	52555070401	54569248205	54868002902
00536563401	00603595021	00814780114	00904144416	11845035904	50111048203	52555070410	54569248300	54868002903
00551012301	00603595121	00814780128	00904144428	12539001802	50111048301	52555070501	54569248301	54868002905
00551012302	00603595221	00814780214	00904155516	12939011816	50111048302	52959013100	54569248302	54868002906
00551012401	00615160601	00814780228	00904155660	12939021216	50111051801	52959027930	54569248303	54868126801
00551012402	00615160610	00814780514	00904155760	17236032401	50111084601	52959028603	54569397600	54868126901
00551020501	00615160613	00814780528	00904155860	17236032405	50111084605	52959059601	54569427900	54868143800
00551022001	00615160801	00839101106	00904161040	17236032410	50383080616	52959059801	54569454000	54868143801
00556014916	00615160810	00839101116	00904161060	17236032501	50474010001	54092006701	54569454900	54868184101
00556014928	00615160813	00839502969	00904161061	17236032505	50474020001	54092006710	54569460200	54868188301
00573294210	00659280525	00839502970	00904161140	17236032510	50474020050	54092006752	54569460300	54868189402
00573294220	00677000301	00839505316	00904161160	17236033501	50474020060	54092006801	54569460401	54868328300
00585067302	00677000701	00839621606	00904161161	17236033505	50474030001	54092006901	54569460500	54868328301

Appendix 9: Appropriate Medications, Persistent Asthmatics -- NDC Codes, continued

54868328302	55289078560	60258037116	63874044715
54868418200	55289078860	60346022676	63874044720
54868426400	55289078930	60346028274	63874044730
54868429500	57480036501	60432001916	63874044760
54868439200	57480036506	60432001928	63874067501
54868451600	57480036601	60432015706	63874067515
54868451700	57480036606	60432015721	63874067520
54868451800	57480036701	60505080201	63874067530
54868463000	57480036706	60505080202	63874074412
55053052201	57779011509	61392001630	63874074424
55175418700	57866465102	61392001645	66239011116
55175418703	57866465202	61392001651	00179036501
55175418704	57866465301	61392001654	
55175443501	58016047706	61392001656	
55175446501	58016068330	61392001660	
55175446601	58016620700	61392001690	
55289000360	58016620701	61392001691	
55289015597	59243002110	61392001730	
55289025901	59310017540	61392001751	
55289025930	59310017780	61392001754	
55289025960	59743000601	61392001756	
55289026001	59930150901	61392001760	
55289026006	59930150902	61392001790	
55289026020	59930165001	61392001791	
55289026030	59930165002	61570001901	
55289026060	59930165003	61570001905	
55289026097	59930166001	61570002001	
55289031730	59930166002	61570002201	
55289031760	59930166003	61570002256	
55289031830	59930167001	63874044301	
55289031860	59930167002	63874044315	
55289075130	59930167003	63874044320	
55289075160	59930168001	63874044330	
55289078530	60258033516	63874044701	

