



TECHNICAL SPECIFICATIONS: PREVENTION QUALITY INDICATORS APPENDICES

Version 4.5

Prepared for:

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Contract No. HHS A290201200001C

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May 2013

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Appendix A – Admission Codes for Transfers

SID ASOURCE Codes

- 2 - Another hospital
- 3 - Another facility, including long-term care

POINTOFORIGINUB04 Codes

- 4 - Transfer from a hospital
- 5 - Transfer from a Skilled Nursing Facility (SNF) or Intermediate Care Facility (ICF)
- 6 - Transfer from another health care facility

If Admission Type is newborn (ATYPE=4), POINTOFORIGINUB04 codes are as follows:

- 5 - Born inside this hospital
- 6 - Born outside of this hospital

Appendix B – Cardiac Procedure Codes

ICD-9-CM Cardiac procedure codes¹:

0050	IMPL CRT PACEMAKER SYS	3582	TOTAL REPAIR OF TAPVC
0051	IMPL CRT DEFIBRILLAT	3583	TOT REP TRUNCUS ARTERIOS
0052	IMP/REP LEAD LF VEN SYS	3584	TOT COR TRANSPOS GRT VES
0053	IMP/REP CRT PACEMKR GEN	3591	INTERAT VEN RETRN TRANSP
0054	IMP/REP CRT DEFIB GENAT	3592	CONDUIT RT VENT-PUL ART
0056	INS/REP SENS-CRD/VSL MTR	3593	CONDUIT LEFT VENTR-AORTA
0057	IMP/REP SUBCUE CARD DEV	3594	CONDUIT ARTIUM-PULM ART
0066	PTCA	3595	HEART REPAIR REVISION
1751	IMPLANT CCM,TOTAL SYSTEM	3596	PERC BALLOON VALVUPLASTY
1752	IMPLANT CCM PULSE GENRTR	3597	PERC MTRL VLV REPR W IMP
1755	TRANSLUM COR ATHERECTOMY	3598	OTHER HEART SEPTA OPS
3500	CLOSED VALVOTOMY NOS	3599	OTHER HEART VALVE OPS
3501	CLOSED AORTIC VALVOTOMY	3601	<i>PTCA-1 VESSEL W/O AGENT</i>
3502	CLOSED MITRAL VALVOTOMY	3602	<i>PTCA-1 VESSEL WITH AGNT</i>
3503	CLOSED PULMON VALVOTOMY	3603	OPEN CORONRY ANGIOPLASTY
3504	CLOSED TRICUSP VALVOTOMY	3604	INTRCORONRY THROMB INFUS
3505	ENDOVAS REPL AORTC VALVE	3605	<i>PTCA-MULTIPLE VESSEL</i>
3506	TRNSAPCL REP AORTC VALVE	3606	INS NONDRUG ELUT COR ST
3507	ENDOVAS REPL PULM VALVE	3607	INS DRUG-ELUT CORONRY ST
3508	TRNSAPCL REPL PULM VALVE	3609	REM OF COR ART OBSTR NEC
3509	ENDOVAS REPL UNS HRT VLV	3610	AORTOCORONARY BYPASS NOS
3510	OPEN VALVULOPLASTY NOS	3611	AORTOCOR BYPAS-1 COR ART
3511	OPN AORTIC VALVULOPLASTY	3612	AORTOCOR BYPAS-2 COR ART
3512	OPN MITRAL VALVULOPLASTY	3613	AORTOCOR BYPAS-3 COR ART
3513	OPN PULMON VALVULOPLASTY	3614	AORTCOR BYPAS-4+ COR ART
3514	OPN TRICUS VALVULOPLASTY	3615	1 INT MAM-COR ART BYPASS
3520	OPN/OTH REP HRT VLV NOS	3616	2 INT MAM-COR ART BYPASS
3521	OPN/OTH REP AORT VLV-TIS	3617	ABD-CORON ARTERY BYPASS
3522	OPN/OTH REP AORTIC VALVE	3619	HRT REVAS BYPS ANAS NEC
3523	OPN/OTH REP MTRL VLV-TIS	362	ARTERIAL IMPLANT REVASC
3524	OPN/OTH REP MITRAL VALVE	363	<i>OTH HEART REVASCULAR</i>
3525	OPN/OTH REP PULM VLV-TIS	3631	OPEN CHEST TRANS REVASC
3526	OPN/OTH REPL PUL VALVE	3632	OTH TRANSMYO REVASCULAR
3527	OPN/OTH REP TCSPD VLV-TS	3633	ENDO TRANSMYO REVASCULAR
3528	OPN/OTH REPL TCSPD VALVE	3634	PERC TRANSMYO REVASCULAR
3531	PAPILLARY MUSCLE OPS	3639	OTH HEART REVASULAR
3532	CHORDAE TENDINEAE OPS	3691	CORON VESS ANEURYSM REP
3533	ANNULOPLASTY	3699	HEART VESSEL OP NEC
3534	INFUNDIBULECTOMY	3731	PERICARDIECTOMY
3535	TRABECUL CARNEAE CORD OP	3732	HEART ANEURYSM EXCISION
3539	TISS ADJ TO VALV OPS NEC	3733	EXC/DEST HRT LESION OPEN
3541	ENLARGE EXISTING SEP DEF	3734	EXC/DEST HRT LES OTHER
3542	CREATE SEPTAL DEFECT	3735	PARTIAL VENTRICULECTOMY
3550	PROSTH REP HRT SEPTA NOS	3736	EXC,DESTRCT,EXCLUS LAA
3551	PROS REP ATRIAL DEF-OPN	3737	EXC/DEST HRT LES, THRSPC
3552	PROS REPAIR ATRIA DEF-CL	3741	IMPL CARDIAC SUPPORT DEV
3553	PROS REP VENTRIC DEF-OPN	375	<i>HEART TRANSPLANTATION</i>
3554	PROS REP ENDOCAR CUSHION	3751	HEART TRANPLANTATION
3555	PROS REP VENTRC DEF-CLOS	3752	IMP TOT INT BI HT RP SYS
3560	GRFT REPAIR HRT SEPT NOS	3753	REPL/REP THR UNT TOT HRT
3561	GRAFT REPAIR ATRIAL DEF	3754	REPL/REP OTH TOT HRT SYS
3562	GRAFT REPAIR VENTRIC DEF	3755	REM INT BIVENT HRT SYS
3563	GRFT REP ENDOCAR CUSHION	3760	IMP BIVN EXT HRT AST SYS
3570	HEART SEPTA REPAIR NOS	3761	PULSATION BALLOON IMPLAN
3571	ATRIA SEPTA DEF REP NEC	3762	INSRT NON-IMPL CIRC DEV
3572	VENTR SEPTA DEF REP NEC	3763	REPAIR HEART ASSIST SYS
3573	ENDOCAR CUSHION REP NEC	3764	REMVE EXT HRT ASSIST SYS
3581	TOT REPAIR TETRAL FALLOT	3765	IMP VENT EXT HRT AST SYS

3766	IMPLANTABLE HRT ASSIST	3782	INT INSERT 1-CHAM, RATE
3770	INT INSERT PACEMAK LEAD	3783	INT INSERT DUAL-CHAM DEV
3771	INT INSERT LEAD IN VENT	3785	REPL PACEM W 1-CHAM, NON
3772	INT INSER LEAD ATRI-VENT	3786	REPL PACEM 1-CHAM, RATE
3773	INT INSER LEAD IN ATRIUM	3787	REPL PACEM W DUAL-CHAM
3774	INT OR REPL LEAD EPICAR	3789	REVISE OR REMOVE PACEMAK
3775	REVISION OF LEAD	3794	IMPLT/REPL CARDDEFIB TOT
3776	REPL TV ATRI-VENT LEAD	3795	IMPLT CARDIODEFIB LEADS
3777	REMOVAL OF LEAD W/O REPL	3796	IMPLT CARDIODEFIB GENRATR
3778	INSER TEAM PACEMAKER SYS	3797	REPL CARDIODEFIB LEADS
3779	REV/RELOC CARD DEV POCKT	3798	REPL CARDIODEFIB GENRATR
3780	INT OR REPL PERM PACEMKR	3826	INSRT PRSR SNSR W/O LEAD
3781	INT INSERT 1-CHAM, NON		

¹The procedure or diagnosis codes are continuously updated. The current list of ICD-9-CM codes is valid for October 2012 through September 2013. Italicized codes are not active in Fiscal Year 2013.

Appendix C – Immunocompromised State Diagnosis and Procedure Codes

ICD-9-CM Immunocompromised state diagnosis codes¹:

042	HUMAN IMMUNO VIRUS DIS	2882	GENETIC ANOMALY LEUKOCYT
1363	PNEUMOCYSTOSIS	2884	HEMOPHAGOCYTIC SYNDROMES
1992	MALIG NEOPL-TRANSP ORGAN	28850	LEUKOCYTOPENIA NOS
23873	HI GRDE MYELOYDYS SYN LES	28851	LYMPHOCYTOPENIA
23876	MYELOFI W MYELO METAPLAS	28859	DECREASED WBC COUNT NEC
23877	POST TP LYMPHPROLIF DIS	28953	NEUTROPENIC SPLENOMEGALY
23879	LYMPH/HEMATPOITC TIS NEC	28983	MYELOFIBROSIS
260	KWASHIORKOR	40301	MAL HYP KID W CR KID V
261	NUTRITIONAL MARASMUS	40311	BEN HYP KID W CR KID V
262	OTH SEVERE MALNUTRITION	40391	HYP KID NOS W CR KID V
27900	HYPOGAMMAGLOBULINEM NOS	40402	MAL HY HT/KD ST V W/O HF
27901	SELECTIVE IGA IMMUNODEF	40403	MAL HYP HT/KD STG V W HF
27902	SELECTIVE IGM IMMUNODEF	40412	BEN HY HT/KD ST V W/O HF
27903	SELECTIVE IG DEFIC NEC	40413	BEN HYP HT/KD STG V W HF
27904	CONG HYPOGAMMAGLOBULINEM	40492	HY HT/KD NOS ST V W/O HF
27905	IMMUNODEFIC W HYPER-IGM	40493	HYP HT/KD NOS ST V W HF
27906	COMMON VARIABL IMMUNODEF	5793	INTEST POSTOP NONABSORB
27909	HUMORAL IMMUNITY DEF NEC	585	<i>CHRONIC KIDNEY DISEASE</i>
27910	IMMUNDEF T-CELL DEF NOS	5855	CHRON KIDNEY DIS STAGE V
27911	DIGEORGE'S SYNDROME	5856	END STAGE RENAL DISEASE
27912	WISKOTT-ALDRICH SYNDROME	9968	<i>COMPLICATIONS OF TRANSPLANTED ORGAN</i>
27913	NEZELOF'S SYNDROME		
27919	DEFIC CELL IMMUNITY NOS	99680	COMP ORGAN TRANSPLNT NOS
2792	COMBINED IMMUNITY DEFIC	99681	COMPL KIDNEY TRANSPLANT
2793	IMMUNITY DEFICIENCY NOS	99682	COMPL LIVER TRANSPLANT
2794	<i>AUTOIMMUNE DISEASE, NOT ELSEWHERE CLASSIFIED</i>	99683	COMPL HEART TRANSPLANT
		99684	COMPL LUNG TRANSPLANT
27941	AUTOIMMUN LYMPHPROF SYND	99685	COMPL MARROW TRANSPLANT
27949	AUTOIMMUNE DISEASE NEC	99686	COMPL PANCREAS TRANSPLNT
27950	GRAFT-VERSUS-HOST NOS	99687	COMP INTESTINE TRANSPLNT
27951	AC GRAFT-VERSUS-HOST DIS	99688	COMP TP ORGAN-STEM CELL
27952	CHRONC GRAFT-VS-HOST DIS	99689	COMP OTH ORGAN TRANSPLNT
27953	AC ON CHR N GRFT-VS-HOST	V420	KIDNEY TRANSPLANT STATUS
2798	IMMUNE MECHANISM DIS NEC	V421	HEART TRANSPLANT STATUS
2799	IMMUNE MECHANISM DIS NOS	V426	LUNG TRANSPLANT STATUS
28409	CONST APLASTC ANEMIA NEC	V427	LIVER TRANSPLANT STATUS
2841	<i>PANCYTOPENIA</i>	V428	<i>OTHER SPECIFIED ORGAN OR TISSUE</i>
28411	ANTIN CHEMO INDCD PANCYT	V4281	TRNSPL STATUS-BNE MARROW
28412	OTH DRG INDCD PANCYTOPNA	V4282	TRSP L STS-PERIP STM CELL
28419	OTHER PANCYTOPENIA	V4283	TRNSPL STATUS-PANCREAS
2880	<i>AGRANULOCYTOSIS</i>	V4284	TRNSPL STATUS-INTESTINES
28800	NEUTROPENIA NOS	V4289	TRNSPL STATUS ORGAN NEC
28801	CONGENITAL NEUTROPENIA	V451	<i>RENAL DIALYSIS STATUS</i>
28802	CYCLIC NEUTROPENIA	V4511	RENAL DIALYSIS STATUS
28803	DRUG INDUCED NEUTROPENIA	V560	RENAL DIALYSIS ENCOUNTER
28809	NEUTROPENIA NEC	V561	FT/ADJ XTRCORP DIAL CATH
2881	FUNCTION DIS NEUTROPHILS	V562	FIT/ADJ PERIT DIAL CATH

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ICD-9-CM Immunocompromised state procedure codes¹:

0018	INFUS IMMUNOSUP ANTIBODY	336	COMB HEART/LUNG TRANSPLA
335	<i>LUNG TRANSPLANTATION</i>	375	<i>HEART TRANSPLANTATION</i>
3350	LUNG TRANSPLANT NOS	3751	HEART TRANSPLANTATION
3351	UNILAT LUNG TRANSPLANT	410	<i>OPERATIONS ON BONE MARROW AND SPLEEN</i>
3352	BILAT LUNG TRANSPLANT		

4100	BONE MARROW TRNSPLNT NOS	5051	AUXILIARY LIVER TRANSPL
4101	AUTO BONE MT W/O PURG	5059	LIVER TRANSPLANT NEC
4102	ALO BONE MARROW TRNSPLNT	5280	PANCREAT TRANSPLANT NOS
4103	ALLOGRFT BONE MARROW NOS	5281	REIMPLANT PANCREATIC TIS
4104	AUTO HEM STEM CT W/O PUR	5282	PANCREATIC HOMOTRANSPLAN
4105	ALLO HEM STEM CT W/O PUR	5283	PANCREATIC HETEROTRANSPL
4106	CORD BLD STEM CELL TRANS	5285	ALLOTRNSPLNT ISLETS LANG
4107	AUTO HEM STEM CT W PURG	5286	TRNSPLNT ISLETS LANG NOS
4108	ALLO HEM STEM CT W PURG	5569	KIDNEY TRANSPLANT NEC
4109	AUTO BONE MT W PURGING		

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Appendix D – Definitions of Neonate, Newborn, Normal Newborn, and Outborn

A neonate is defined as any discharge with either:

- age in days at admission between zero and 28 days (inclusive); or
- age in days missing and age in years equal to zero and either:
 - an admission type of newborn (SID ATYPE=4); or
 - with any-listed ICD-9-CM diagnosis codes for in-hospital live birth; or
 - with any-listed ICD-9-CM diagnosis codes for neonatal observation and evaluation

ICD-9-CM In-hospital live birth diagnosis codes:

V3000	SINGLE LB IN-HOSP W/O CS	V3401	OTH MULT LB-IN HOSP W CS
V3001	SINGLE LB IN-HOSP W CS	V3500	OTH MULT SB-HOSP W/O CS
V3100	TWIN-MATE LB-HOSP W/O CS	V3501	OTH MULT SB-IN HOSP W CS
V3101	TWIN-MATE LB-IN HOS W CS	V3600	MULT LB/SB-IN HOS W/O CS
V3200	TWIN-MATE SB-HOSP W/O CS	V3601	MULT LB/SB-IN HOSP W CS
V3201	TWIN-MATE SB-HOSP W CS	V3700	MULT BRTH NOS-HOSP W/O CS
V3300	TWIN-NOS-IN HOSP W/O CS	V3701	MULT BIRTH NOS-HOSP W CS
V3301	TWIN-NOS-IN HOSP W CS	V3900	LIVEBORN NOS-HOSP W/O CS
V3400	OTH MULT LB-HOSP W/O CS	V3901	LIVEBORN NOS-HOSP W CS

ICD-9-CM Neonatal observation and evaluation diagnosis codes:

V290	NB OBSRV SUSPCT INFECT	V293	NB OBS GENETC/METABL CND
V291	NB OBSRV SUSPCT NEURLGCL	V298	NB OBSRV OTH SUSPCT COND
V292	OBSRV NB SUSPC RESP COND	V299	NB OBSRV UNSP SUSPCT CND

A newborn is defined as any discharge meeting the definition of “neonate” (see above) with either:

- any-listed ICD-9-CM code for in-hospital live birth (see above) and age in days equal to zero or missing; or
- an admission type of newborn (SID ATYPE=4) and age in days equal to zero without any-listed ICD-9-CM diagnosis codes for out-of-hospital live birth; or
- an admission type of newborn (SID ATYPE=4) with point of origin for born inside this hospital (POINTOFORIGINUB04 code =5)

ICD-9-CM Out-of-hospital live birth diagnosis codes:

V301	SINGL LIVEBRN-BEFORE ADM	V342	OTH MULTIPLE NB-NONHOSP
V302	SINGLE LIVEBORN-NONHOSP	V351	OTH MULT SB-BEFORE ADM
V311	TWIN, MATE LB-BEFORE ADM	V352	OTH MULTIPLE SB-NONHOSP
V312	TWIN, MATE LB-NONHOSP	V361	MULT NB/SB-BEFORE ADM
V321	TWIN, MATE SB-BEFORE ADM	V362	MULTIPLE NB/SB-NONHOSP
V322	TWIN, MATE SB-NONHOSP	V371	MULT BRTH NOS-BEFORE ADM
V331	TWIN NOS-BEFORE ADMISSN	V372	MULT BIRTH NOS-NONHOSP
V332	TWIN NOS-NONHOSP	V391	LIVEBORN NOS-BEFORE ADM
V341	OTH MULT NB-BEFORE ADM	V392	LIVEBORN NOS-NONHOSP

A normal newborn is defined as any discharge meeting the definition of “newborn” (see above) with a DRG code of 391 or a MS-DRG code 795.

An outborn is defined as any discharge meeting the definition of “neonate” (see above) that does not meet the definition of “newborn” (see above) with either:

- age in days less than 2 days and not missing; or
- an admission type of newborn (SID ATYPE=4) and age in days missing; or
- an admission type of newborn (SID ATYPE=4) and point of origin for born outside this hospital (POINTOFORIGINUB04 code =6)