

Supplemental Digital Content 1: Definition of Potentially Avoidable Hospitalizations (source : ECHO Handbook : http://www.echo-health.eu/handbook/PAH_asthma.html)

	Primary diagnoses		Secondary diagnoses		Procedures	
	Inclusions	Exclusions	Inclusions	Exclusions	Inclusions	Exclusions
Asthma in Adults. Aged 18 and older	J45 J46 OR J960 IF "diag2-30"=A		A) J45	Pregnancy, childbirth and the puerperium: O00-099 CHF: I50 I0981 I110 I130 I132 Cystic fibrosis: E840-E849 Q251-Q254 Q30 Q31 Q32 Q33 Q34 Q39 Q893 P26 Mental disorders: F10-F19 F20 F21 F22 F23 F24 F25 F29 F30 F31 F32 F33 F34 F38 F39 F40-F45 F44 F48 F50-F52 F54 F60 F63 F68 F28 F53 F55 F59 F61 F62 F69 F28 F53 F55 F59 F61 F62 F69 Respiratory diseases: J47 J8410 J98 J99 COPD: J411 J418 J42 J43 J44 J47		
Congestive Heart Failure (CHF). Aged 40 and older	I09.9 I11.0 I13.0 I13.2 I50			Pregnancy, childbirth and the puerperium : O00-099 COPD: J411 J418 J42 J43 J44 J47 Ischaemic disease: I20 I21 I22 I24.0 I24.8 Kidney failure: I12 I13.1 N17 N18 N19		

Chronic obstructive pulmonary disease (COPD). Aged 18 and older	J42 J43 J44 J47 J411 J418 OR J20 IF DX= "A)" or J40 IF DX= "A)" J960 IF DX= "B)" or J969 IF DX= "B)"		A) J42 J43 J44 J47 J411 J418 B) J42 J449 J47	Pregnancy, childbirth and the puerperium: O00-099 CHF: I50 I0981 I110 I130 I132 Cystic fibrosis: E840-E849 Q251-Q254 Q30 Q31 Q32 Q33 Q33 Q34 Q33 Q34 Q34 Q34 Q39 Q893 P26 Mental disorders: F10-F19 F20 F21 F22 F23 F24 F25 F29 F30 F31 F32 F33 F34 F38 F39 F40-F45 F44 F48 F50-F52 F54 F60 F63 F68 F28 F53 F55 F59 F61 F62 F69		
Dehydration in elderly people (DH). Aged 65 and older	E86 E870 E871					
Diabetes short-term complication. Aged 40 and older	E10.0 E10.1 E11.0 E11.1 E13.0 E13.1			Pregnancy, childbirth and the puerperium: O00-099 Mental Disorders: F10-F19 F20 F21 F22 F23 F24 F25 F29 F30 F31 F32 F33 F34 F38 F39 F40-F45 F44 F48 F50-F52 F54 F60 F63 F68 F28 F53 F55 F59 F61 F62 F69		
Angina without procedure. Aged 40 and older. Urgent admissions	I20.0 I24.0 I24.8 I20.1 I20.8 I20.9			Pregnancy, childbirth and the puerperium: O00-099		Cardiac Procedures