**HF incidence**

Validation: <https://phenotypes.healthdatagateway.org/phenotypes/PH993/version/2171/detail/>

|  |  |  |  |
| --- | --- | --- | --- |
| Cleansed Read Code or word | Code Type | Sub-type | Exclusions |
| G58\* | “Heart failure” |  |  |
| G23\*  Must include “heart failure” | “Hypertensive heart and renal disease” |  |  |
| "\*heart\*\*failure\*" "\*cardiac\*\*asthma\*" "\*cardiac\*\*failure\*" "\*high\*\*output\*\*syndrome\*" "\*ventri\*\*failure\*" "\*congestive\*\*cardiomyopathy\*"  "\*systolic dysfunction\*"  "\*diastolic dysfunction\*"  "\*chronic\*" & ("\*cor\*pulmonale\*" OR "\*pulmonary heart dis\*") |  |  | "\*no evidence of\*" "\*asymptomatic\*")  **\*drop general**  "family history", "fh" , "no h/o" , "no history" , "suspected" , "screen" , "risk" , "monitor" , "prevention" , "referral" , "assess" , “exclude”, “suspect”  ”  \***All remaining process codes**  read codes starting with a number (process codes) except for 101..00 HF confirmed, 8H2S.00 Admit heart failure emergency, 585f.00 echocardiogram shows left ventricular systolic dysfunction, 585g.00 echocardiogram shows left ventricular diastolic dysfunction  "\*heart failure as a complication of care\*" "\*management programme\*" "\*on optimal heart failure therapy\*" "\*self\*\*management\*" "\*review\*" "\*medication\*" "\*history of\*" "\*care\*\*plan\*" "\*assess\*" "\*lifestyle\*" "\*information\*" "\*protocol\*"  **\* spurious and other assessment terms**  "\*chad\*" "\*cha2\*" "\*no cardiac failure\*" "\*transplant\*" "\*excluded\*" "\*resolved\*" "\*auras-af - more time needed to decide on heart failure status\*" "\*auras-af - consider the patient not to have heart failure\*" "\*lesch\*\*nyhan\*" "\*hypertensive heart and renal disease with renal failure\*" "\*post cardiac operation heart failure nos\*" "\*rehabilitation for heart failure\*" "\*acute pulmonary oedema\*"  **\*drop baby terms**  "\*fetal\*" "\*foetus\*" "\*newborn\*" "\*birth\*" "\*natal\*" (cleansedreadcode, "Q\*") "\*preg\*" "\*gestational\*" "\*obstetric\*" "\*maternal\*" "\*neonatal\*" "\*eclamp\*"  **\*drop quality indicators**  "\*qof\*" "\*quality\* \*outcomes\* \*framework\*" "\*quality\* \*indicators\*" |
| **Snomed codes**  acute heart failure 56675007 chronic heart failure 48447003  *heart* *failure* 84114007 cardiac asthma 71892000 congestive *heart* *failure* 42343007 decompensated cardiac *failure* 195111005 diastolic *heart* *failure* 418304008 *heart* *failure* with mid range ejection fraction 788950000 *heart* *failure* with normal ejection 446221000 *heart* *failure* with reduced ejection fraction 703272007 left ventricular *failure* 85232009 left ventricular systolic dysfunction 134401001 low output *heart* *failure* 25544003 right ventricular *failure* 128404006 systolic *heart* *failure* 417996009 |  |  |  |

Decided to leave out process of care codes as these do not indicate incidence heart failure. Focused on diagnostic codes and any additional process codes that indicated definite HF.

Cor pulmonale was excluded by ICPC but ‘chronic’ codes were included by HDRUK so included these. Also HDRUK included chronic pulmonary heart disease so included. Pulmonary oedema excluded unless allocated the chapter G58 code as likely to be HF.

All QoF codes included except for NYHA symptom codes

**ICPC codes**

**KD67 *Heart* *failure***  
  
*Description*  
Multiple signs including dependent oedema, raised jugular venous pressure, hepatomegaly in the absence of liver disease, pulmonary congestion, pleural effusion, enlarged ***heart***.  
  
*Inclusion*  
acute ***heart*** ***failure*** KD67.00  
cardiac asthma  
chronic ***heart*** ***failure*** KD67.01  
congestive ***heart*** ***failure***  
diastolic ***heart*** ***failure***  
left ventricular ***heart*** ***failure***  
left ventricular ***heart*** ***failure*** with mid range or reduced ejection fraction KD67.02  
left ventricular ***heart*** ***failure*** with preserved ejection fraction{KD67.03}  
right ventricular ***heart*** ***failure***  
systolic ***heart*** ***failure***  
  
*Exclusion*  
cor pulmonale KD99  
pulmonary oedema without ***heart*** disease/***heart*** ***failure*** RD99

(ive included chronic terms as per HDRUK)  
  
*Coding hint*  
For coding the problem level, consider Energy level 2F71  
For coding the problem level, consider Exercise tolerance functions 2F85  
  
*Search terms*  
decompensated cardiac ***failure***  
high output syndromes  
left ventricular systolic dysfunction  
low output ***heart*** ***failure***  
  
*ICPC-1*  
K77  
  
*ICPC-2*  
K77  
  
*ICD10*  
***Heart*** ***failure*** I50  
  
*ICD11*  
no exact corresponding class  
Congestive ***heart*** ***failure*** BD10  
High output syndromes BD12  
Left ventricular ***failure*** BD11  
Left ventricular ***failure*** with mid range ejection fraction BD11.1  
Left ventricular ***failure*** with preserved ejection fraction BD11.0  
Left ventricular ***failure*** with reduced ejection fraction BD11.2  
Right ventricular ***failure*** BD13  
  
*SNOMED CT*  
***heart*** ***failure*** 84114007  
acute ***heart*** ***failure*** 56675007  
cardiac asthma 71892000  
chronic ***heart*** ***failure*** 48447003  
congestive ***heart*** ***failure*** 42343007  
decompensated cardiac ***failure*** 195111005  
diastolic ***heart*** ***failure*** 418304008  
***heart*** ***failure*** with mid range ejection fraction 788950000  
***heart*** ***failure*** with normal ejection 446221000  
***heart*** ***failure*** with reduced ejection fraction 703272007  
left ventricular ***failure*** 85232009  
left ventricular systolic dysfunction 134401001  
low output ***heart*** ***failure*** 25544003  
right ventricular ***failure*** 128404006  
systolic ***heart*** ***failure*** 417996009  
  
*Extension*  
New York ***Heart*** Association

NYH.1 NYHA Class I

No symptoms and no limitations in ordinary physical activity, e.g. shortness of breath when walking, climbing stairs etc.

NYH.2 NYHA Class II

Mild symptoms (mild shortness of breath and/or angina) and slight limitations during ordinary activity.

NYH.3 NYHA Class III

Marked limitation in activity due to symptoms, even during less-than-ordinary activity, e.g. walking short distances (20-100 m.). Comfortable only at rest.

NYH.4 NYHA Class IV

Severe limitations. Experiences symptoms even while at rest. Mostly bedbound patients.

NYH.9 NYHA Class IX

No NYHA class listed or unable to determine.

Course

COU.0 Subacute

COU.1 Acute

COU.2 Chronic