

Supplementary material - METHODS

Identification of individuals with prosthetic heart valves and constitution of the study-population

Specific medical procedure codes for prosthetic valve positioning or replacement

DBKA004	Replacement of right atrioventricular valve by a stented bioprosthesis or a mechanical prosthesis, by thoracotomy under cardiopulmonary bypass
DBKA008	Replacement of right atrioventricular valve by a homograft, by thoracotomy under cardiopulmonary bypass
DBKA007	Replacement of pulmonary valve by a stented bioprosthesis or a mechanical prosthesis, by thoracotomy under cardiopulmonary bypass
DBKA012	Replacement of pulmonary valve by a homograft or a bioprosthesis, by thoracotomy under cardiopulmonary bypass
DBKA010	Replacement of left atrioventricular valve by a stented bioprosthesis or a mechanical prosthesis, by thoracotomy under cardiopulmonary bypass
DBKA005	Replacement of left atrioventricular valve by a homograft, by thoracotomy under cardiopulmonary bypass
DBKA002	Replacement of left atrioventricular valve by a prosthesis inserted in non-anatomical position, by thoracotomy under cardiopulmonary bypass
DBKA006	Replacement of aortic valve by a stented bioprosthesis or a mechanical prosthesis, by thoracotomy under cardiopulmonary bypass
DBKA003	Replacement of aortic valve by a stentless bioprosthesis, by thoracotomy under cardiopulmonary bypass
DBKA001	Replacement of aortic valve by a homograft, by thoracotomy under cardiopulmonary bypass
DBKA011	Replacement of aortic valve by a prosthesis inserted in non-anatomical position, by thoracotomy under cardiopulmonary bypass
DBKA009	Replacement of aortic and left atrioventricular valve by a stented bioprosthesis or a mechanical prosthesis, by thoracotomy under cardiopulmonary bypass

DBMA013	Left atriventricular annular reconstruction with valve replacement by a stented bioprosthesis or a mechanical prosthesis, by thoracotomy under cardiopulmonary bypass
DBMA005	Left atriventricular annular reconstruction with valve replacement by a homograft, by thoracotomy under cardiopulmonary bypass
DBMA009	Aortic annular reconstruction with valve replacement by a stented bioprosthesis or a mechanical prosthesis, by thoracotomy under cardiopulmonary bypass
DBMA010	Aortic annular reconstruction with valve replacement by a homograft, by thoracotomy under cardiopulmonary bypass
DBMA006	Aortic annular reconstruction and valve replacement by a stentless bioprosthesis, by thoracotomy under cardiopulmonary bypass
DBMA001	Reconstruction of left ventricular outflow tract with right anterior enlargement of aortic annulus and valve replacement, by thoracotomy under cardiopulmonary bypass
DBMA015	Reconstruction of left ventricular outflow tract with left anterior enlargement of aortic annulus and opening of pulmonary outflow tract, by thoracotomy under cardiopulmonary bypass
DBMA004	Reconstruction of left ventricular outflow tract with transfer of pulmonary valve in aortic position and reconstruction of pulmonary outflow tract, by thoracotomy under cardiopulmonary bypass
DBLF009	Transcatheter implantation of a pulmonary bioprosthesis in a prosthetic conduit
DBLF001	Transcatheter trans arterial implantation of an aortic bioprosthesis
DBLA004	Transcatheter transapical implantation of an aortic bioprosthesis without cardiopulmonary bypass
DBSF001	Transcatheter closure of a paraprostheses dehiscence
DBEA001	Reinsertion of a valve prosthesis, by thoracotomy under cardiopulmonary bypass
DGKA011	Replacement of ascending aorta with replacement of aortic valve without coronary artery reimplantation, by thoracotomy under cardiopulmonary bypass
DGKA015	Replacement of ascending aorta with replacement of aortic valve with coronary artery

reimplantation, by thoracotomy under cardiopulmonary bypass

DGKA018 Replacement of ascending and horizontal aorta without replacement of aortic valve without coronary artery reimplantation, by thoracotomy under cardiopulmonary bypass

DGKA014 Replacement of ascending and horizontal aorta with replacement of aortic valve without coronary artery reimplantation, by thoracotomy under cardiopulmonary bypass

Definition of exposure

Identification of invasive dental procedures

Scaling and root planing	HBJD001
Teeth extraction	HBGD035
	HBGD037
	HBGD309
	HBGD284
	HBGD065
	HBGD462
	HBGD464
	HBGD263
	HBGD280
	HBGD093
	HBGD362
	HBGD054
	HBGD111
	HBGD174
	HBGD057
	HBGD133
	HBGD123
	HBGD468
	HBGD282

HBGD201
HBGD042
HBGD026
HBGD036
HBGD043
HBGD319
HBGD489
HBGD497
HBGD106
HBGD076
HBGD422
HBGD420
HBGD064
HBGD356
HBGD146
HBGD382
HBGD247
HBGD197
HBGD333
HBGD261
HBGD499
HBGD461
HBGD278
HBGD258
HBGD311
HBGD235
HBGD374
HBGD475
HBGD285
HBGD338
HBGD193
HBGD345
HBGD414

HBGD245
HBGD283
HBGD022
HBGD034
HBGD287
HBGD031
HBGD032
HBGD039
HBGD002
HBGD028
HBGD014
HBGD015
HBGD459
HBGD386
HBGD047
HBGD018
HBGD004
HBGD025
HBGD021
HBGD038
HBGD044
HBGD003
HBGD016
HBGD017
HBFD014
HBGD040

Excision of a cervicofacial cellulitis /periodontal abscess

LCJA004
LCJA002
LCJA003
HAJA002
HAJD004
HBJB001

Treatment of teeth with vital pulp

HBFD017

HBFD033

HBFD021

HBFD035

HBFD019

HBFD008

HBFD006

HBFD032

Treatment of teeth with necrotic pulp

HBFD015

HBFD458

HBFD001

HBFD395

HBFD326

HBFD297

HBFD003

HBFD474

HBFD150

HBFD024

Inlay-core

HBLD007

HBLD261

Dental splint

HBLD052

HBLD050

HBLD053

HBLD051

Peridontal surgery

HBFA005

HBFA004

HBFA003

HBMA001

HBFA006

HBFA007

HBFA008

Antibiotic prophylaxis

ATC codes for effective antibiotic treatment

J01CA04

J01CR02

J01CA01

J01CR01

J01CE30

J01FA10

J01DF01

J01CA06

J01CE08

J01CE01

J01DC04

J01DB05

J01DB01

J01DB08

J01DB07

J01DB04

J01DE01

J01DD08

J01DC07

J01DD13

J01DB09

J01DD02

J01DD04

J01DC02

J01FA09

J01FF01

J01XX03
J01CF02
J01CF01
J01FA13
J01AA02
J01FA01
J01XC01
J01DH51
J01FA07
J01MA12
J01AA04
J01DH02
J01AA05
J01CA14
J01FA03
J01AA08
J01MA14
J01CE02
J01CR05
J01CA02
J01FG01
J01MB01
J01FA06
J01GB08
J01MA09
J01FA02
J01RA04
J01EE01
J01CR04
J01FA15
J01AA07
J01BA02
J01BA52
J01CA13
J01CR03

Confounding variables

Specific medical procedure codes for implantable cardioverter defibrillator (ICD) or pacemaker (PM)

Cardiac pacemaker implantation

DELF007
DELF001
DELF904
DELF010
DELF005
DELF902
DELF015
DELF905
DELF903
DELF901
DELF012
DELA003
DELA001

Cardioverter defibrillator implantation

DELF013
DELF020
DELF014
DELF016
DELF900
DELA004

Pacemaker or cardioverter defibrillator lead repositioning and Pacemaker or Cardioverter defibrillator generator repositioning

DEEF001
DEEF002

DEEA001

Extraction or Implantation of an additional pacemaker or cardioverter defibrillator lead

DEGF004

DEGF001

DEGF002

DEGF003

DEGF006

DEGF005

DEGA002

DELF017

DELF019

DELF018

Implantation, extraction, or replacement of pacemaker or cardioverter defibrillator generator

DELA006

DELA007

DEGA003

DEKA001

DEKA002

Testing and checking of pacemaker or cardioverter defibrillator generator

DEMP002

DEMP001

DERP001

Identification of dialysis dependency

Blotière PO, Tuppin P, Weill A, Ricordeau P, Allemand H. The cost of dialysis and kidney transplantation in France in 2007, impact of an increase of peritoneal dialysis and transplantation. *Nephrol Ther.* 2010 Jul;6(4):240-7

Identification of diabete

ICD-10 codes

E10

E11

E12

E13

E14

G59.0

G63.2

G73.0

G99.0

H28.0

H36.0

I79.2

L97

M14.2

M14.6

N08.3

ATC codes for antidiabetic drug use

A10AB01

A10AB03

A10AB04

A10AB05

A10AB06

A10AC01

A10AC03

A10AC04

A10AD01

A10AD03

A10AD04

A10AD05

A10AE01

A10AE02

A10AE03

A10AE04

A10AE05

A10AE30

A10BA02

A10BB01
A10BB03
A10BB04
A10BB06
A10BB07
A10BB09
A10BB12
A10BD02
A10BD03
A10BD05
A10BD07
A10BD08
A10BD10
A10BD15
A10BD16
A10BF01
A10BF02
A10BG02
A10BG03
A10BH01
A10BH02
A10BH03
A10BX02
A10BX04
A10BX07
A10BX09
A10BX10
A10BX11
A10BX12
A10BX14

Identification of Intravenous drug use

ICD-10 codes

F11
F14

ATC codes

N07BC01
N07BC02
N07BB04
N07BC51