

Appendix V: Description of Utilization keys Dutch COI Study

Brief description of all cost units in dutch coi study 2003

Brief description of fields

Column	Description
HP	Provider classification system of health-accounts
Nat Health Accounts	Providers (deepest level) national health accounts
NHA	1: part of national health accounts. 0: no part
BGT	1: Budget responsibility (direct or indirect) Dutch ministry of public Health. 0: not responsible
SHA	1: Included in System of health Accounts 0: not included
Method	Refers to methods described in section 3.3.4
Memo	Brief description of construction of key
Sources	Brief description sources used
Diagnosis	Brief description of differentiation of key in this dimension
Gender	Brief description of differentiation of key in this dimension
age_mem	Brief description of differentiation of key in this dimension
function	Brief description of differentiation of key in this dimension
finance	Brief description of differentiation of key in this dimension
Product	Brief description of product used in key (# abbreviation of 'number of')
extra weight	Indicates if product has been additionally weighted, and the information used.

Brief description of important sources (column 'Sources')

Source	Description	
ad hoc survey	Indication used if reseach reports, or research surveys were used. This type of survey is performed on an irregular basis. Updates of these type of sources is uncertain	
CAK	Register of all receivers of ambulant or institutional care. Registration holder keeps register in order to asses the contribution into the costs of this type of care by all applicants to this care	http://www.cak-bz.nl/
Databank revalidatie	Central register rrehabilitation care	http://www.revalidatie.nl/english
Expense distribution	Indicates a utilization key has been constructed using cost data for other providers (after application of utilization keys for these providers). Has been applied to create utilization keys for management costs of programme	
GGD	Refers to so-called Benchmark report organization of Dutch Municipal Health Authorities. Reporthas been used to distribute expenses over specific programmes and target groups. Some costs could in this	http://www.ggd.nl
GINO	Client registration care	http://www.gino.nl
GIP	Drug Information System of the Health Care Insurance Board	http://www.gipdatabank.nl/infoPagina.asp?naam=99%2DEnglish
IGZ-survey	RAnnual Survey by Dutch health care inspectorate	http://www.igz.nl/uk/
KVZ1999	Indicates utilization key has been constructed using data previous Dutch COI study (1999)	http://www.rivm.nl/bibliotheek/rapporten/270751005.html
LAZR	Ambulant Hospital care register	http://www.zorggegevens.nl/productie/zorggegevens/registraties/registratie39.aspx http://www.prisman.nl/
LETB/LEBA	Monitoring and evaluation programmes breast and cervix cancer screening	http://www.zorggegevens.nl/productie/zorggegevens/registraties/registratie5.aspx
LINH	Stratified sample Dutch general practitioners	http://www.nivel.nl/linh/
LIPZ	Stratified sample Dutch paramedics	http://www.nivel.nl/lipz/
LMR	Dutch Hospital registration	http://www.prisman.nl/
LZV	Register clients Dutch nursing homes	http://www.tellenenmeten.nl/index_registration_view.srf?pkn=file_id&pkv=34&lang_id=360&context_pko=REGISTRATION&context_pkv={0EE0A5EB-113F-4C6A-A59E-80250F197B23}
peilstations		http://www.zorggegevens.nl/productie/Zorggegevens/registraties/registratie211.aspx
POLS	Survey among general Dutch population. Part of this is a Health and lifestyle survey	http://www.cbs.nl/en-GB/default.htm
SFK	Prescription register of Foundation for Pharmaceutical Statistics	http://www.sfk.nl/algemeen/english.html
Statline	Main public database Statistics netherlands	http://www.cbs.nl/en-GB/default.htm
VGB	Register organisation for disabled	www.vgn.org
ZORGIS	Register of mental health care	http://www.zorggegevens.nl/productie/zorggegevens/registraties/registratie108.aspx

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.1.1+1.3	General hospitals	1	1	1	Fitting	Dutch Hospital Register has been used- subselection all wards except mental care within general, non-academic hospitals	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days (distributed over day care, clinical care)	fixed price daycare, estimate clinical care
HP.1.1+1.3	General hospitals	1	1	1	Fitting	Dutch Hospital Register has been used- subselection all wards except mental care within general, non-academic hospitals	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# procedures (+ type distribution)	fixed national pricelist
HP.1.1+1.3	General hospitals	1	1	1	Fitting	Dutch Hospital Register has been used - subselection mental care wards within general, non-academic hospitals	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days (distributed over day care, clinical care)	fixed price daycare, estimate clinical care
HP.1.1+1.3	General hospitals	1	1	1	Multiple Reg	Data of ambulant patient register LAZR - which does contain type of specialist visited, but no diagnosis- have been combined with referral data general practitioner(LINH) - which does contain both specialist type and diagnosis.	LAZR+LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# contacts (both first and subsequent)	no
HP.1.1+1.3	General hospitals	1	1	1	Fitting	Dutch Hospital Register has been used- subselection all wards except mental care within general, non-academic hospitals	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days (distributed over day care, clinical care)	fixed price daycare, estimate clinical care
HP.1.1+1.3	General hospitals	1	0	1	Fitting	Dutch Hospital Register has been used- subselection all wards except mental care within general, non-academic hospitals	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days (distributed over day care, clinical care)	fixed price daycare, estimate clinical care
HP.1.1+1.3	General hospitals	1	0	1	Fitting	Dutch Hospital Register has been used- subselection all wards except mental care within general, non-academic hospitals	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days (distributed over day care, clinical care)	fixed price daycare, estimate clinical care
HP.1.1+1.3	Prison hospitals	1	0	1	Other methods	Use of medical prison services. Report by dutch research institute (NIVEL). Supplemented with data on composition prison population (statistics netherlands)	ad hoc survey + Statline	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes (using population distribution targetgroup cost unit)	yes (using population distribution targetgroup cost unit)	estimated, using definition cost unit	yes(by definition cost unit)	# prisoners	age/sex distribution contact frequency (available from survey)

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.1.1+1.3	University hospitals	1	1	1	Multiple Reg	Data of ambulant patient register LAZR - which does contain type of specialist visited, but no diagnosis- have been combined with referral data general practitioner(LINH) - which does contain both specialist type and diagnosis.	LAZR+LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# contacts (both first and subsequent)	no
HP.1.1+1.3	University hospitals	1	1	1	Fitting	Dutch Hospital Register has been used-subselection all wards except dental care within university hospitals	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit	partial	# procedures (+ type distribution)	fixed national pricelist
HP.1.1+1.3	University hospitals	1	1	1	Fitting	Dutch Hospital Register has been used-subselection all wards except dental care for university hospitals only	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit. Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days (distributed over day care, clinical care)	fixed price daycare, estimate clinical care
HP.1.1+1.3	University hospitals	1	0	1	Fitting	Dutch Hospital Register has been used-subselection all wards except dental care for university hospitals only	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit. Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days (distributed over day care, clinical care)	fixed price daycare, estimate clinical care
HP.1.1+1.3	Specialised hospitals	1	1	1	Fitting	Dutch Hospital Register has been used-subselection only admissions for specialised hospitals eye disorders	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days(distributed over day care, clinical care), #procedures(+ type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)
HP.1.1+1.3	Specialised hospitals	1	1	1	Fitting	Dutch Hospital Register has been used-subselection only admissions for neoplasms	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days(distributed over day care, clinical care), #procedures(+ type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)
HP.1.1+1.3	Specialised hospitals	1	0	1	Fitting	Dutch Hospital Register has been used-subselection only admissions for epilepsy	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days(distributed over day care, clinical care), #procedures(+ type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.1.1+1.3	Specialised hospitals	1	0	1	Fitting	Dutch Hospital Register has been used-subselection only admissions for neoplasms	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days(distrubuted over day care, clinical care), #procedures(+ type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)
HP.1.1+1.3	Specialised hospitals	1	0	1	Fitting	Dutch Hospital Register has been used-subselection only admissions for lung diseases	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days(distrubuted over day care, clinical care), #procedures(+ type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)
HP.1.1+1.3	Specialised hospitals	1	0	1	Fitting	Dutch Hospital Register has been used-subselection only admissions for specialised hospitals eye disorders	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days(distrubuted over day care, clinical care), #procedures(+ type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)
HP.1.1+1.3	Specialised hospitals	1	0	1	Single Reg	Revalidation care based on central registration revalidation facilities.	Databank revalidatie	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days(distrubuted over day care, clinical care), #procedures(+ type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)
HP.1.1+1.3	Specialised hospitals	1	1	1	Fitting	Dutch Hospital Register has been used-subselection only admissions for epilepsy	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days(distrubuted over day care, clinical care), #procedures(+ type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)
HP.1.1+1.3	Specialised hospitals	1	1	1	Fitting	Dutch Hospital Register has been used-subselection only admissions for specialised hospitals movement disorders	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days(distrubuted over day care, clinical care)	price estimated for hospital days (fixed price daycare, estimate clinical care)

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.1.1+1.3	Specialised hospitals	1	1	1	Single Reg	Revalidation care based on central registration revalidation facilities.	Databank revalidatie	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days(distrubuted over day care, clinical care), #procedures(+ type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)
HP.1.1+1.3	Specialised hospitals	1	1	1	Fitting	Dutch Hospital Register has been used-subselection only admissions for lung diseases	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days(distrubuted over day care, clinical care), #procedures(+ type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)
HP.1.1+1.3	Specialised hospitals	1	0	1	Fitting	Dutch Hospital Register has been used-subselection only admissions for specialised hospitals movement disorders	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days(distrubuted over day care, clinical care)	price estimated for hospital days (fixed price daycare, estimate clinical care)
HP.1.1+1.3	Specialised hospitals	1	1	1	Multiple Reg	Prescription register pharmacies - which contains detailed prescription data (ATC-code, units, costs) but no diagnostic data have been combined with prescription data from GP annual survey - which contains both ATC-code and diagnosis.	SFK+LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	#prescriptions (+type distribution)	pricelist
HP.1.1+1.3	Asthma clinic Davos	1	1	1	Fitting	Dutch Hospital Register has been used-subselection only admissions for lung diseases	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days(distrubuted over day care, clinical care), #procedures(+ type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)
HP.1.1+1.3	Medical children's homes	1	0	1	Proxy key	No new data available. Distribution of Cost-of-illness for this provider in previous study have been used as a proxy for distribution of costs.	KVZ1999+Statline	yes	yes (adjusted for demographic shift 1999-2003)	yes (adjusted for demographic shift 1999-2003)	estimated, using definition cost unit	yes(by definition cost unit)	costs	no
HP.1.2	Integrated institutions for mental health care	1	1	1	Single Reg	Based on register branch organisation institutes for mental health care - subselection only forensic care	ZORGIS	yes (ICD-9, 4-digits)	yes	yes	approximately attributed to products using expert opinion	yes(by definition cost unit)	# products (+ type distribution))	fixed national pricelist

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.1.2	Integrated institutions for mental health care	1	1	1	Single Reg	Based on register branch organisation institutes for mental health care - subselection all type of care products except forensic care, only care insured by Exceptional medical Expenses Act	ZORGIS	yes (ICD-9, 4-digits)	yes	yes	approximately attributed to products using expert opinion	yes(by definition cost unit)	# products (+ type distribution))	fixed national pricelist
HP.1.2	Integrated institutions for mental health care	1	1	1	Single Reg	Based on register branch organisation institutes for mental health care - subselection all type of care products except forensic care, only care insured by Exceptional medical Expenses Act	ZORGIS	yes (ICD-9, 4-digits)	yes	yes	approximately attributed to products using expert opinion	yes(by definition cost unit)	# products (+ type distribution))	fixed national pricelist
HP.1.2	Integrated institutions for mental health care	1	0	1	Single Reg	Based on register branch organisation institutes for mental health care - subselection only care products for drugs and other substance abuse (excepting tobacco)	ZORGIS	yes (ICD-9, 4-digits)	yes	yes	approximately attributed to products using expert opinion	yes(by definition cost unit)	# products (+ type distribution))	fixed national pricelist
HP.2.1	Nursing homes	1	1	1	Multiple Reg	Age sex distribution based on Central Administration Office (CAK) register of patients data institutes nursing homes covered by Exceptional Medical Expenses Act (AWBZ)	CAK + LZV	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	# days in care	no
HP.2.1	Nursing homes	1	1	1	Multiple Reg	Age sex distribution based on Central Administration Office (CAK) register of patients data institutes nursing homes covered by Exceptional Medical Expenses Act (AWBZ)	CAK + LZV	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	# days in care	no
HP.2.1	Nursing homes	1	0	1	Multiple Reg	Age sex distribution based on Central Administration Office (CAK) register of patients data institutes nursing homes covered by Exceptional Medical Expenses Act (AWBZ)	CAK + LZV	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	# days in care	no

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.2.2	Integrated institutions for care for the handicapped	1	1	1	Other methods	Age sex distribution based on Central Administration Office (CAK) register of patients data institutes handicapped (physically disabled) covered by Exceptional Medical Expenses Act (AWBZ)	CAK	yes, indirect (attributed to product using expert opinion)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	# days in institution	no
HP.2.2	Integrated institutions for care for the handicapped	1	1	1	Single Reg	Population composition institutes handicapped (based on survey)	VGB	yes (by definition cost unit)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	# patients	no
HP.2.2	Integrated institutions for care for the handicapped	1	1	1	Single Reg	Age sex distribution based on Central Administration Office (CAK) register of patients data institutes handicapped (visual, hearing, movement) covered by Exceptional Medical Expenses Act (AWBZ)	CAK	yes, indirect (attributed to product using expert opinion)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	# days in institution	no
HP.2.2	Integrated institutions for care for the handicapped	1	0	1	Other methods	Age sex distribution based on Central Administration Office (CAK) register of patients data institutes handicapped (physically disabled) covered by Exceptional Medical Expenses Act (AWBZ)	CAK	yes, indirect (attributed to product using expert opinion)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	# days in institution	no
HP.2.3	Homes for the elderly	1	0	1	Multiple Reg	Age sex distribution based on Central Administration Office (CAK) register of people living in care homes for the elderly covered by Exceptional Medical Expenses Act (AWBZ) - Diagnosis distribution based on LZV-registration of care within carehomes	CAK+LZV	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	# days in care	no
HP.2.3	Homes for the elderly	1	1	1	Multiple Reg	Age sex distribution based on Central Administration Office (CAK) register of people living in care homes for the elderly covered by Exceptional Medical Expenses Act (AWBZ) - Diagnosis distribution based on LZV-registration of care within carehomes	CAK+LZV	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	# days in care	no

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HP.2.3	Homes for the elderly	1	1	1	Multiple Reg	Age sex distribution based on Central Administration Office (CAK) register of people living in care homes for the elderly covered by Exceptional Medical Expenses Act (AWBZ) - Diagnosis distribution based on LZV-registration of care within carehomes	CAK+LZV	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	# days in care	no
HP.3.1	Practices of psychiatrists	1	1	1	Single Reg	Based on register branch organisation institutes for mental health care - subselection ambulant care only excepting forensic care only patients insured by private insurance	ZORGIS	yes (ICD-9, 4-digits)	yes	yes	approximately attributed to products using expert opinion	yes(by definition cost unit)	# products (+ type distribution))	fixed national pricelist
HP.3.1	Practices of general practitioners	1	1	1	Single Reg	Stratified annual survey among GP's has been used	LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	partial	# standard-length contacts (distributed over type of contact and function of employee involved)	pricelist depending on type of contact and function of employee
HP.3.1	Practices of general practitioners	1	0	1	Single Reg	Stratified annual survey among GP's has been used	LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	partial	# standard-length contacts (distributed over type of contact and function of employee involved)	pricelist depending on type of contact and function of employee
HP.3.1	Practices of general practitioners	1	1	1	Multiple Reg	Annual health survey Dutch population by Statistics Netherlands	POLS + Statline	yes (by definition cost unit)	yes	yes	yes (by definition cost unit)	yes(by definition cost unit)	# vaccinations (based on several sources within POLS and Statline)	no
HP.3.1	Practices of general practitioners	1	1	1	Multiple Reg	Prescription register pharmacies - which contains detailed prescription data (ATC-code, units, costs) but no diagnostic data have been combined with prescription data from GP annual survey - which contains both ATC-code and diagnosis.	SFK+LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	#prescriptions (+type distribution)	pricelist
HP.3.1	Practices of general practitioners	1	1	1	Single Reg	Data of annual evaluation screening programme were used. This source logs actual turn-out for programme.	LETB/LEBA	yes (by definition cost unit)	women	yes	yes (by definition cost unit)	yes(by definition cost unit)	# screenings	no
HP.3.1	Practices of orthodontists	1	0	1	Single Reg	Annual stratified survey dentist practices has been used - subselection of ages 18+ and orthodontic procedures only excluding preventive care (this follows from definition of cost unit)	peilstations	yes, indirect (attributed to product using expert opinion)	yes	yes	yes, indirect (attributed to product using expert opinion)	partial	# procedures (+ type distribution)	fixed national pricelist

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.3.1	Practices of orthodontists	1	0	1	Single Reg	Annual stratified survey dentist practices has been used - subselection of ages 18+ and orthodontic procedures only excluding preventive care (this follows from definition of cost unit)	peilstations	yes, indirect (attributed to product using expert opinion)	yes	yes	yes, indirect (attributed to product using expert opinion)	partial	# procedures (+ type distribution)	fixed national pricelist
HP.3.1	Practices of orthodontists	1	1	1	Single Reg	Annual stratified survey dentist practices has been used - subselection of ages 0-17 and orthodontic procedures only (this follows from definition of cost unit)	Peilstations	yes, indirect (attributed to product using expert opinion)	yes	yes, only 0-17	approximately attributed to products using expert opinion	partial	# products (+ type distribution)	fixed national pricelist
HP.3.1	Practices of orthodontists	1	1	1	Single Reg	Annual stratified survey dentist practices has been used - subselection of ages 18+ and orthodontic procedures only excluding preventive care (this follows from definition of cost unit)	peilstations	yes, indirect (attributed to product using expert opinion)	yes	yes	yes, indirect (attributed to product using expert opinion)	partial	# procedures (+ type distribution)	fixed national pricelist
HP.3.1	Practices of jaw surgeons	1	0	1	Fitting	Dutch Hospital Register has been used-subselection dental care only both within all hospitals excepting specialised hospitals	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days(distrubuted over day care, clinical care), #procedures(+ type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)
HP.3.1	Practices of jaw surgeons	1	0	1	Fitting	Dutch Hospital Register has been used-subselection dental care only both within all hospitals excepting specialised hospitals	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days(distrubuted over day care, clinical care), #procedures(+ type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)
HP.3.1	Practices of jaw surgeons	1	1	1	Fitting	Dutch Hospital Register has been used-subselection dental care only both within all hospitals excepting specialised hospitals	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days(distrubuted over day care, clinical care), #procedures(+ type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)
HP.3.1	Practices of jaw surgeons	1	1	1	Fitting	Dutch Hospital Register has been used-subselection dental care only both within all hospitals excepting specialised hospitals	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days(distrubuted over day care, clinical care), #procedures(+ type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.3.1	Practices of other medical specialists	1	1	1	Multiple Reg	Data of ambulant patient register LAZR - which does contain type of specialist visited, but no diagnosis- have been combined with referral data general practitioner(LINH) - which does contain both specialist type and diagnosis.	LAZR+LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# contacts (both first and subsequent)	no
HP.3.1	Practices of other medical specialists	1	0	1	Multiple Reg	Data of ambulant patient register LAZR - which does contain type of specialist visited, but no diagnosis- have been combined with referral data general practitioner(LINH) - which does contain both specialist type and diagnosis.	LAZR+LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# contacts (both first and subsequent)	no
HP.3.1	Practices of other medical specialists	1	0	1	Multiple Reg	Data of ambulant patient register LAZR - which does contain type of specialist visited, but no diagnosis- have been combined with referral data general practitioner(LINH) - which does contain both specialist type and diagnosis.	LAZR+LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# contacts (both first and subsequent)	no
HP.3.2	Practices of dentists	1	1	1	Single Reg	Annual stratified survey dentist practices has been used - subselection all procedures which involve the use ofproducts of dental technician labs	peilstations	yes, indirect (attributed to product using expert opinion)	yes	yes	yes, indirect (attributed to product using expert opinion)	partial	# procedures (+ type distribution)	fixed national pricelist
HP.3.2	Practices of dentists	1	1	1	Single Reg	Annual stratified survey dentist practices has been used - subselection of ages 18+ (this follows from definition of cost unit)	peilstations	yes, indirect (attributed to product using expert opinion)	yes	yes, only 18+	yes, indirect (attributed to product using expert opinion)	partial	# procedures (+ type distribution)	fixed national pricelist
HP.3.2	Practices of dentists	1	0	1	Single Reg	Annual stratified survey dentist practices has been used - subselection all procedures which involve the use ofproducts of dental technician labs	peilstations	yes, indirect (attributed to product using expert opinion)	yes	yes	yes, indirect (attributed to product using expert opinion)	partial	# procedures (+ type distribution)	fixed national pricelist
HP.3.2	Practices of dentists	1	0	1	Single Reg	Annual stratified survey dentist practices has been used - subselection of ages 18+ (this follows from definition of cost unit)	peilstations	yes, indirect (attributed to product using expert opinion)	yes	yes, only 18+	yes, indirect (attributed to product using expert opinion)	partial	# procedures (+ type distribution)	fixed national pricelist
HP.3.3	Practices of physiotherapists	1	1	1	Single Reg	Annual stratified survey on the use of paramedical services has been used. - subselecting on this specific type of paramedic has been used.	LIPZ	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# products (+ type distribution))	fixed national pricelist

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.3.3	Practices of physiotherapists	1	0	1	Single Reg	Annual stratified survey on the use of paramedical services has been used. - subselecting on this specific type of paramedic has been used.	LIPZ	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# products (+ type distribution))	fixed national pricelist
HP.3.3	Practices of physiotherapists	1	1	1	Single Reg	Annual stratified survey on the use of paramedical services has been used. - subselecting on this specific type of paramedic has been used.	LIPZ	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# products (+ type distribution))	fixed national pricelist
HP.3.3	Practices of speech therapists	1	1	1	Single Reg	Stratified annual survey among GP's has been used - only patient contacts resulting in referral to speech therapists have been selected.	LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	partial	# standard-length contacts	no
HP.3.3	Practices of speech therapists	1	1	1	Single Reg	Stratified annual survey among GP's has been used - only patient contacts resulting in referral to speech therapists have been selected.	LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	partial	# standard-length contacts	no
HP.3.3	Practices of speech therapists	1	0	1	Single Reg	Stratified annual survey among GP's has been used - only patient contacts resulting in referral to speech therapists have been selected.	LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	partial	# standard-length contacts	no
HP.3.3	Practices of movement therapists Cesar	1	1	1	Single Reg	Annual stratified survey on the use of paramedical services has been used. - subselecting on this specific type of paramedic has been used.	LIPZ	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# products (+ type distribution))	fixed national pricelist
HP.3.3	Practices of movements therapists Mensendieck	1	1	1	Single Reg	Annual stratified survey on the use of paramedical services has been used. - subselecting on this specific type of paramedic has been used.	LIPZ	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# products (+ type distribution))	fixed national pricelist

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.3.3	Practices of podotherapists	1	0	1	Single Reg	Stratified annual survey among GP's has been used - only patientcontacts resulting in referral to podotherapists have been selected.	LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	partial	# standard-length contacts	no
HP.3.3	Practices of ergonomic therapists	1	1	1	Multiple Reg	Annual stratified survey on the use of paramedical services has been used. - subselecting on this specific type of paramedic has been used.	LIPZ+ad hoc survey	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	partial	# clients	average contacttime (diagnosis specific)
HP.3.3	Practices of ergonomic therapists	1	1	1	Multiple Reg	Annual stratified survey on the use of paramedical services has been used. - subselecting on this specific type of paramedic has been used.	LIPZ+ad hoc survey	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	partial	# clients	average contacttime (diagnosis specific)
HP.3.3	Practices of ergonomic therapists	1	0	1	Multiple Reg	Annual stratified survey on the use of paramedical services has been used. - subselecting on this specific type of paramedic has been used.	LIPZ+ad hoc survey	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	partial	# clients	average contacttime (diagnosis specific)
HP.3.3	Practices of dieticians	1	0	1	Other methods	Annual health survey Dutch population by Statistics Netherlands	POLS+Statline	no	yes	yes	yes(by definition cost unit)	yes(by definition cost unit)	# respondents having BMI>25	no
HP.3.3	Practices of dental hygienists	1	0	1	Single Reg	Annual stratified survey dentist practices has been used - subselection procedures associated with prevention only (like annual check-up)	Peilstations	yes, indirect (attributed to product using expert opinion)	yes	yes	yes (by definition cost unit)	partial	# procedures (+ type distribution)	fixed national pricelist
HP.3.3	Practices of midwives	1	1	1	Other methods	Use of midwife services based on known distribution of woman giving childbirth. Distribution over other dimension estimated based on monitoring of midwife activities by research organisation (NIVEL)	Ad Hoc Survey	yes (by definition cost unit + survey information)	women	yes (using distribution women giving birth)	estimated, using definition cost unit + survey information	estimated, using definition cost unit	# women giving birth	no
HP.3.3	Practices for alternative health care treatment	1	0	1	Other methods	Use of alternative health care treatment based on health care survey among general population. After consultation with experts all costs have been attributed tot a single diagnostic group: 'symptoms'	ad hoc survey + POLS	attributed to 'symptoms'	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	# respondents indicating use of alternative methods	no

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.3.3	Practices of psychologists and psychotherapists	1	0	1	Single Reg	Survey by research institute (NIVEL) among psychologists.	ad hoc survey	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes, 10 year age-groups converted to 5-year groups using population distribution	estimated, using definition cost unit	estimated, using definition cost unit	# contacttime	no
HP.3.3	Practices of nurses	1	1	1	Multiple Reg	Age sex distribution based on Central Administration Office (CAK) register of patients data using home care covered by Exceptional Medical Expenses Act (AWBZ) - only nursing functions. Diagnosis distribution based on age/sex specific GINO data.	CAK+GINO	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	partial	yes(by definition cost unit)	# minutes of care distributed over care type	price estimate dependent on care-type (~ health care function)
HP.3.4	Abortion clinics	1	1	1	Single Reg	Based on age distribution women having abortion (report by The Netherlands Health Care Inspectorate (IGZ)	IGZ-survey	yes (by definition cost unit)	women	yes	estimated, using definition cost unit	yes(by definition cost unit)	# women aborted	no
HP.3.4	Private health care clinics	1	0	1	Other methods	Use of private health care estimated from hospital use for selected diagnosis and target groups.	ad hoc survey	yes (artificial distribution diagnosis using expert opinion, and information of surveys by health authorities)	estimated using hospital distribution for selected diagnostic groups, and expert opinion on age/sex specific use, supplemented by survey data)	estimated using hospital distribution for selected diagnostic groups, and expert opinion on age/sex specific use, supplemented by survey data)	estimated, using definition cost unit	estimated, using definition cost unit	artificial product (based on hospital costs)	no
HP.3.4	Health centers	1	1	1	Single Reg	Stratified annual survey among GP's has been used	LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	partial	# standard-length contacts (distributed over type of contact and function of employee involved)	pricelist depending on type of contact and function of employee
HP.3.4	Health centers	1	0	1	Single Reg	Stratified annual survey among GP's has been used	LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	partial	# standard-length contacts (distributed over type of contact and function of employee involved)	pricelist depending on type of contact and function of employee

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.3.4	Nurseries for toddlers under medical supervision	1	0	1	Proxy key	No new data available. Distribution of Cost-of-illness for this provider in previous study have been used as a proxy for distribution of costs.	KVZ1999+Statline	yes	yes (adjusted for demographic shift 1999-2003)	yes (adjusted for demographic shift 1999-2003)	estimated, using definition cost unit	yes(by definition cost unit)	costs	no
HP.3.5	Centers for genetic examination	1	1	1	Other methods	Constructed key for centers for genetic examination based on expert opinion and distribution of hospital costs for selected diagnosis	ad hoc survey	yes (artificial distribution diagnosis using expert opinion)	estimated using hospital distribution for selected diagnostic groups, and expert opinion on age/sex specific use, supplemented by survey data)	estimated using hospital distribution for selected diagnostic groups, and expert opinion on age/sex specific use, supplemented by survey data)	estimated, using definition cost unit	estimated, using definition cost unit	artificial product (based on hospital costs)	no
HP.3.5	Thrombosis services	1	1	1	Fitting	Dutch Hospital Register has been used-subselection hospital admissions who - using expert opinion- should account for majority of blood-product use	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit	partial	# hospital days(distributed over day care, clinical care), #procedures(+ type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)
HP.3.5	Medical laboratories	1	1	1	Single Reg	Stratified anual survey among GP's has been used	LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	partial	# standard-length contacts (distributed over type of contact and function of employee involved)	pricelist depending on type of contact and function of employee
HP.3.5	Laboratories of General practitioners	1	1	1	Single Reg	Stratified anual survey among GP's has been used	LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	partial	# standard-length contacts (distributed over type of contact and function of employee involved)	pricelist depending on type of contact and function of employee
HP.3.5	Institutes for oncological treatment and radiotherapy	1	1	1	Fitting	Dutch Hospital Register has been used-subselection only admissions for neoplasms	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days(distributed over day care, clinical care), #procedures(+ type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.3.6	Institutions providing home care services	1	1	1	Multiple Reg	Age sex distribution based on Central Administration Office (CAK) register of patients data using home care covered by Exceptional Medical Expenses Act (AWBZ) - only nursing functions. Diagnosis distribution based on age/sex specific GINO data.	CAK+GINO	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	partial	yes(by definition cost unit)	# minutes of care distributed over care type	price estimate dependent on care-type (~ health care function)
HP.3.6	Institutions providing home care services	1	1	1	Multiple Reg	Age sex distribution based on Central Administration Office (CAK) register of patients data using home care covered by Exceptional Medical Expenses Act (AWBZ) - all functions excepting nursing functions. Diagnosis distribution based on age/sex specific	CAK+GINO	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	partial	yes(by definition cost unit)	# minutes of care distributed over care type	price estimate dependent on care-type (~ health care function)
HP.3.6	Institutions providing home care services	1	1	1	Multiple Reg	Age sex distribution based on Central Administration Office (CAK) register of patients data using home care covered by Exceptional Medical Expenses Act (AWBZ) - all functions excepting nursing functions. Diagnosis distribution based on age/sex specific	CAK+GINO	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	partial	yes(by definition cost unit)	# minutes of care distributed over care type	price estimate dependent on care-type (~ health care function)
HP.3.6	Institutions providing home care services	1	1	1	Single Reg	Based on detailed cost registration therapeutic appliances maintained by Health care Insurance Board (CVZ). This sources covers only social security, but has also been used on costs generated by private insurance.	GIP	yes, indirect (attributed to product using expert opinion)	yes	yes	estimated, using definition cost unit	social security	costs	no
HP.3.6	Institutions providing home care services	1	0	1	Multiple Reg	Age sex distribution based on Central Administration Office (CAK) register of patients data using home care covered by Exceptional Medical Expenses Act (AWBZ) - all functions excepting nursing functions. Diagnosis distribution based on age/sex specific	CAK+GINO	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	partial	yes(by definition cost unit)	# minutes of care distributed over care type	price estimate dependent on care-type (~ health care function)

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.3.6	Institutions providing home care services	1	1	1	Other methods	The cost distribution of the vaccination programme (annual programme) has been combined with vaccination-type specific demographic data of target-population	Ad Hoc Survey	yes (by definition cost unit and using type of vaccination within programme)	yes (using population distribution targetgroup for type of vaccination)	yes (using population distribution targetgroup for type of vaccination)	yes(by definition cost unit)	yes(by definition cost unit)	costs distributed by vaccination type	no
HP.3.6	Institutions providing home care services	1	1	1	Other methods	Annual health survey Dutch population by Statistics Netherlands	POLS+Statline	no	yes	yes	yes(by definition cost unit)	yes(by definition cost unit)	# respondents having BMI>25	no
HP.3.6	Institutions providing home care services	1	1	1	Other methods	Use of midwife services based on known distribution of woman giving childbirth. Distribution over other dimension estimated based on monitoring of midwife activities by research organisation (NIVEL)	Ad Hoc Survey	yes (by definition cost unit + survey information)	women	yes (using distribution women giving birth)	estimated, using definition cost unit + survey information	estimated, using definition cost unit	# women giving birth	no
HP.3.6	Institutions providing home care services	1	1	1	Other methods	Perinatal care attributed to mothers, using known age distribution. Distribution over care-function based on survey by research organisation (TNO) supplemented with expert opinion.	Ad Hoc survey	yes (by definition cost unit)	women	yes (using distribution women giving birth)	estimated, using definition cost unit + survey information	yes(by definition cost unit)	# women giving birth	no
HP.3.6	Institutions providing home care services	1	0	1	Single Reg	Based on detailed cost registration therapeutic appliances maintained by Health care Insurance Board (CVZ). This sources covers only social security, but has also been used on costs generated by private insurance.	GIP	yes, indirect (attributed to product using expert opinion)	yes	yes	estimated, using definition cost unit	social security	costs	no
HP.3.9	Sanquine foundation (blood banks)	1	0	1	Fitting	Dutch Hospital Register has been used-subselection hospital admissions who - using expert opinion- should account for majority of blood-product use	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit	partial	# hospital days(distributed over day care, clinical care), #procedures(+ type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)
HP.3.9	Eurotransplant	1	1	1	Fitting	Dutch Hospital Register has been used-Specific transplantation costs estimated from subselection of hospital costs for actual transplantation (identifiable by procedure)	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit	partial	# hospital days(distributed over day care, clinical care), #procedures(+ type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.3.9	Audiological centres	1	1	1	Single Reg	Use of audiological centres - estimated from patient specific costdistribution within annual reports several audiological centres	ad hoc survey	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	costs	no
HP.3.9	Ambulance services	1	1	1	Other methods	Ad hoc survey of emergency services. Full data of all transports in four regions were used	Ad Hoc Survey	no	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	# transports	no
HP.3.9	Ambulance services	1	1	1	Other methods	Ad hoc survey of emergency services. Full data of all transports in four regions were used	Ad Hoc Survey	no	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	# transports	no
HP.3.9	Ambulance services	1	0	1	Other methods	Ad hoc survey of emergency services. Full data of all transports in four regions were used	Ad Hoc Survey	no	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	# transports	no
HP.3.9	Offices for sexually transmitted diseases	1	1	1	Fitting	Dutch Hospital Register has been used-subselection only admissions for sexually transmitted diseases	LMR	yes (by definition cost unit)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	# hospital days(distributed over day care, clinical care), #procedures(+type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)
HP.3.9	Medical sports examination and advice offices	1	0	1	Single Reg	Annual health survey Dutch population by Statistics Netherlands	POLS	no	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	# respondents indicating regular exercise	no
HP.4.1	Pharmacies (drugs)	1	1	1	Multiple Reg	Prescription register pharmacies - which contains detailed prescription data (ATC-code, units, costs) but no diagnostic data have been combined with prescription data from GP annual survey - which contains both ATC-code and diagnosis.	SFK+LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	#prescriptions (+type distribution)	pricelist
HP.4.1	Pharmacies (drugs)	1	0	1	Multiple Reg	Annual health survey Dutch population by Statistics Netherlands combined with actual expenditure data supplied by industry of different types of non-prescription drugs.	POLS+ ad hoc survey	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	costs	no

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.4.1	Pharmacies (drugs)	1	0	1	Multiple Reg	Prescription register pharmacies - which contains detailed prescription data (ATC-code, units, costs) but no diagnostic data have been combined with prescription data from GP annual survey - which contains both ATC-code and diagnosis.	SFK+LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	#prescriptions (+type distribution)	pricelist
HP.4.1	Pharmacies (drugs)	1	1	1	Multiple Reg	Prescription register pharmacies - which contains detailed prescription data (ATC-code, units, costs) but no diagnostic data have been combined with prescription data from GP annual survey - which contains both ATC-code and diagnosis.	SFK+LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	#prescriptions (+type distribution)	pricelist
HP.4.1	Pharmacies (therapeutic appliances)	1	0	1	Single Reg	Based on detailed cost registration therapeutic appliances maintained by Health care Insurance Board (CVZ). This sources covers only social security, but has also been used on costs generated by private insurance.	GIP	yes, indirect (attributed to product using expert opinion)	yes	yes	estimated, using definition cost unit	social security	costs	no
HP.4.1	Pharmacies (therapeutic appliances)	1	1	1	Single Reg	Based on detailed cost registration therapeutic appliances maintained by Health care Insurance Board (CVZ). This sources covers only social security, but has also been used on costs generated by private insurance.	GIP	yes, indirect (attributed to product using expert opinion)	yes	yes	estimated, using definition cost unit	social security	costs	no
HP.4.2+4.3	Optician's shops	1	0	1	Single Reg	Annual health survey Dutch population by Statistics Netherlands	POLS + Statline+ ad hoc survey	no	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	# respondents indicating use glasses or lenses	more severe cases (needing glasses for both short and long distance) we counted twice
HP.4.2+4.3	Optician's shops	1	1	1	Single Reg	Annual health survey Dutch population by Statistics Netherlands	POLS + Statline+ ad hoc survey	yes (by definition cost unit)	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	# respondents indicating use glasses or lenses	more severe cases (needing glasses for both short and long distance) we counted twice
HP.4.2+4.3	Retail suppliers of audiological equipment	1	0	1	Single Reg	Annual health survey Dutch population by Statistics Netherlands	POLS	yes (by definition cost unit)	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	# respondents indicating use hearing equipment	no
HP.4.2+4.3	Retail suppliers of audiological equipment	1	1	1	Single Reg	Annual health survey Dutch population by Statistics Netherlands	POLS	yes (by definition cost unit)	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	# respondents indicating use hearing equipment	no

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.4.4	Orthopaedic shoemakers	1	1	1	Single Reg	Based on detailed cost registration therapeutic appliances maintained by Health care Insurance Board (CVZ). This sources covers only social security, but has also been used on costs generated by private insurance.	GIP	yes, indirect (attributed to product using expert opinion)	yes	yes	estimated, using definition cost unit	social security	costs	no
HP.4.4	Orthopaedic shoemakers	1	0	1	Single Reg	Based on detailed cost registration therapeutic appliances maintained by Health care Insurance Board (CVZ). This sources covers only social security, but has also been used on costs generated by private insurance.	GIP	yes, indirect (attributed to product using expert opinion)	yes	yes	estimated, using definition cost unit	social security	costs	no
HP.4.4	Dental technician's laboratories	1	0	1	Multiple Reg	Annual stratified survey dentists practices has been used - subselection all procedures which involve the use of products of dental technician labs	peilstations + ad hoc survey	yes, indirect (attributed to product using expert opinion)	yes	yes	estimated, using definition cost unit	partial	# products (+ type distribution))	fixed national pricelist
HP.4.4	Dental technician's laboratories	1	1	1	Multiple Reg	Annual stratified survey dentists practices has been used - subselection all procedures which involve the use of products of dental technician labs	peilstations + ad hoc survey	yes, indirect (attributed to product using expert opinion)	yes	yes	estimated, using definition cost unit	partial	# products (+ type distribution))	fixed national pricelist
HP.4.4	Dental technician's laboratories	1	0	1	Multiple Reg	Annual stratified survey dentists practices has been used - subselection all procedures which involve the use of products of dental technician labs	peilstations + ad hoc survey	yes, indirect (attributed to product using expert opinion)	yes	yes	estimated, using definition cost unit	partial	# products (+ type distribution))	fixed national pricelist
HP.4.4	Retail trade in other therapeutic appliances	1	0	1	Single Reg	Based on detailed cost registration therapeutic appliances maintained by Health care Insurance Board (CVZ). This sources covers only social security, but has also been used on costs generated by private insurance.	GIP	yes, indirect (attributed to product using expert opinion)	yes	yes	estimated, using definition cost unit	social security	costs	no
HP.4.4	Retail trade in other therapeutic appliances	1	1	1	Single Reg	Based on detailed cost registration therapeutic appliances maintained by Health care Insurance Board (CVZ). This sources covers only social security, but has also been used on costs generated by private insurance.	GIP	yes, indirect (attributed to product using expert opinion)	yes	yes	estimated, using definition cost unit	social security	costs	no

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.4.9	Retail trade in other medical appliances	1	0	1	Single Reg	Based on detailed cost registration therapeutic appliances maintained by Health care Insurance Board (CVZ). This sources covers only social security, but has also been used on costs generated by private insurance.	GIP	yes, indirect (attributed to product using expert opinion)	yes	yes	estimated, using definition cost unit	social security	costs	no
HP.4.9	Retail trade in other medical appliances	1	0	1	Single Reg	Based on detailed cost registration therapeutic appliances maintained by Health care Insurance Board (CVZ). This sources covers only social security, but has also been used on costs generated by private insurance.	GIP	yes, indirect (attributed to product using expert opinion)	yes	yes	estimated, using definition cost unit	social security	costs	no
HP.4.9	Retail trade in other medical appliances	1	1	1	Single Reg	Based on detailed cost registration therapeutic appliances maintained by Health care Insurance Board (CVZ). This sources covers only social security, but has also been used on costs generated by private insurance.	GIP	yes, indirect (attributed to product using expert opinion)	yes	yes	estimated, using definition cost unit	social security	costs	no
HP.5	Ambulance services of Municipalities	1	0	1	Other methods	mainly based on socalled benchmark report on use of municipal health services. Costs for different public health programmes, have been distributed over diagnosis - if possible- and over age and gender using demographic characteristics target populations	GGD+Statline	partial, indirect (attributed to product using expert opinion)	yes (using population distribution targetgroup cost unit)	yes (using population distribution targetgroup cost unit)	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	yes(by definition cost unit)	# citizens target population programme (distributed over programme types)	costs of programmes
HP.5	Ambulance services of Municipalities	1	1	1	Other methods	mainly based on socalled benchmark report on use of municipal health services. Costs for different public health programmes, have been distributed over diagnosis - if possible- and over age and gender using demographic characteristics target populations	GGD+statline	partial, indirect (attributed to product using expert opinion)	yes (using population distribution targetgroup cost unit)	yes (using population distribution targetgroup cost unit)	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	yes(by definition cost unit)	# citizens target population programme (distributed over programme types)	costs of programmes
HP.5	Ambulance services of Municipal Health Services	1	1	1	Other methods	Ad hoc survey of emergency services. Full data of all transports in four regions were used	Ad Hoc Survey	no	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	# transports	no
HP.5	Central administrations of ambulance services (independent)	1	1	1	Other methods	Ad hoc survey of emergency services. Full data of all transports in four regions were used	Ad Hoc Survey	no	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	# transports	no

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.5	Central administrations of ambulance services (co-operating)	1	1	1	Other methods	Ad hoc survey of emergency services. Full data of all transports in four regions were used	Ad Hoc Survey	no	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	# transports	no
HP.5	Institutes for breast cancer examinations	1	1	1	Single Reg	Data of anual evaluation screening programme were used. This source logs actual turn-out for programme.	LETB/LEBA	yes (by definition cost unit)	women	yes	yes (by definition cost unit)	yes(by definition cost unit)	# screenings	no
HP.5	Institutes for breast cancer examinations	1	0	1	Single Reg	Data of anual evaluation screening programme were used. This source logs actual turn-out for programme.	LETB/LEBA	yes (by definition cost unit)	women	yes	yes (by definition cost unit)	yes(by definition cost unit)	# screenings	no
HP.5	Institutes for cervix cancer examinations	1	1	1	Single Reg	Data of anual evaluation screening programme were used. This source logs actual turn-out for programme.	LETB/LEBA	yes (by definition cost unit)	women	yes	yes (by definition cost unit)	yes(by definition cost unit)	# screenings	no
HP.6.1	Other governmental institutions in the area of administration and management	1	0	1	Other methods	Based on Dutch Municipal population registers.	Statline	no	yes (using population distribution targetgroup cost unit)	yes (using population distribution targetgroup cost unit)	estimated, using definition cost unit	estimated, using definition cost unit	# citizens	no
HP.6.2+6.3	Other institutions in the area of administration and management	1	0	1	Other methods	Based on Dutch Municipal population registers.	Statline	no	yes (using population distribution targetgroup cost unit)	yes (using population distribution targetgroup cost unit)	estimated, using definition cost unit	estimated, using definition cost unit	# citizens	no
HP.6.2+6.3	Other institutions in the area of administration and management	1	1	1	Other methods	Based on Dutch Municipal population registers.	Statline	no	yes (using population distribution targetgroup cost unit)	yes (using population distribution targetgroup cost unit)	estimated, using definition cost unit	estimated, using definition cost unit	# citizens	no

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.6.2+6.3	Board of Care Insurance - Exceptional Medical Expenses Act	1	1	1	Proxy key	Distribution based on actual use of Exceptional medical expenses Act, as indicated by expense distribution over cost-of-illness in main care sectors (handicapped, home care, nursing homes, care homes for elderly, institutions for mental health care).	Expense distribution	yes	yes	yes	yes(by definition cost unit)	yes(by definition cost unit)	costs	no
HP.6.2+6.3	Board of Care Insurance - Exceptional Medical Expenses Act	1	0	1	Proxy key	Distribution based on actual use of Exceptional medical expenses Act, as indicated by expense distribution over cost-of-illness in main care sectors (handicapped, home care, nursing homes, care homes for elderly, institutions for mental health care).	Expense distribution	yes	yes	yes	yes(by definition cost unit)	yes(by definition cost unit)	costs	no
HP.6.2+6.3	Board of Care Insurance - Exceptional Medical Expenses Act	1	0	1	Proxy key	Distribution based on actual use of Exceptional medical expenses Act, as indicated by expense distribution over cost-of-illness in main care sectors (handicapped, home care, nursing homes, care homes for elderly, institutions for mental health care).	Expense distribution	yes	yes	yes	yes(by definition cost unit)	yes(by definition cost unit)	costs	no
HP.6.2+6.3	Board of Care Insurance - Health Insurance Fund	1	0	1	Proxy key	Distribution based on actual use of social security funds, as indicated by expense distribution over cost-of-illness in main care sectors (GP's, dentist, paramedics, hospital). - only data for patients funded by social security selected.	Expense distribution	yes	yes	yes	yes(by definition cost unit)	yes(by definition cost unit)	costs	no
HP.6.2+6.3	Board of Care Insurance - Health Insurance Fund	1	1	1	Proxy key	Distribution based on actual use of social security funds, as indicated by expense distribution over cost-of-illness in main care sectors (GP's, dentist, paramedics, hospital). - only data for patients funded by social security selected.	Expense distribution	yes	yes	yes	yes(by definition cost unit)	yes(by definition cost unit)	costs	no
HP.6.4	Private health and social care insurance companies	1	0	1	Proxy key	Distribution based on actual use of private insurance, as indicated by expense distribution over cost-of-illness in main care sectors (GP's, dentist, paramedics, hospital). - only data for patients funded by private insurance selected.	Expense distribution	yes	yes	yes	yes(by definition cost unit)	yes(by definition cost unit)	costs	no

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.6.4	Private health and social care insurance companies	1	1	1	Proxy key	Distribution based on actual use of private insurance, as indicated by expense distribution over cost-of-illness in main care sectors (GP's, dentist, paramedics, hospital). - only data for patients funded by private insurance selected.	Expense distribution	yes	yes	yes	yes(by definition cost unit)	yes(by definition cost unit)	costs	no
HP.6.4	Private health and social care insurance companies	1	0	1	Proxy key	Distribution based on actual use of private insurance, as indicated by expense distribution over cost-of-illness in main care sectors (GP's, dentist, paramedics, hospital). - only data for patients funded by private insurance selected.	Expense distribution	yes	yes	yes	yes(by definition cost unit)	yes(by definition cost unit)	costs	no
HP.6.4	Private health and social care insurance companies	1	0	1	Proxy key	Distribution based on actual use of private insurance, as indicated by expense distribution over cost-of-illness in main care sectors (GP's, dentist, paramedics, hospital). - only data for patients funded by private insurance selected.	Expense distribution	yes	yes	yes	yes(by definition cost unit)	yes(by definition cost unit)	costs	no
HP.7.1	Occupational health services (independent)	1	0	1	Other methods	Annual economic survey Dutch population by Statistics Netherlands	Statline	no	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	# employees	weighted for age/sex specific length of contract, and age/sex distribution of frequency of absence due to illness
HP.7.1	Occupational health services (in-company services)	1	0	1	Other methods	Annual economic survey Dutch population by Statistics Netherlands	Statline	no	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	# employees	weighted for age/sex specific length of contract, and age/sex distribution of frequency of absence due to illness
HP.7.1	Occupational health services (other, mainly consultancy)	1	0	1	Other methods	Annual economic survey Dutch population by Statistics Netherlands	Statline	no	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	# employees	weighted for age/sex specific length of contract, and age/sex distribution of frequency of absence due to illness

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.7.2	Consumption households (transport of patients)	1	1	1	Other methods	Artificially constructed distribution based on reports by care administrators (CVZ) supplemented by expert opinion	Ad Hoc Survey	partial (renal/diabetic recognizable, others unidentifiable)	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	artificial product (based on non-urgent transportations with ambulance)	no
HP.7.2	Contribution consumption households (care for the handicapped)	1	1	1	Single Reg	Population composition institutes handicapped (based on survey)	VGB	yes (by definition cost unit)	yes	yes	estimated, using definition cost unit	yes (by definition cost unit)	# patients	no
HP.7.2	Contribution consumption households (care for the handicapped)	1	0	1	Single Reg	Population composition institutes handicapped (based on survey)	VGB	yes (by definition cost unit)	yes	yes	estimated, using definition cost unit	yes (by definition cost unit)	# patients	no
HP.7.9	Dutch Vaccin Institute	1	0	1	Other methods	The cost distribution of the vaccination programme (annual programme) has been combined with vaccination-type specific demographic data of target-population	Ad Hoc Survey+ Statline	yes (by definition cost unit)	yes (using population distribution targetgroup for type of vaccination)	yes (using population distribution targetgroup for type of vaccination)	yes (by definition cost unit)	yes (by definition cost unit)	costs (by type of vaccine)	no
HP.7.9	Dutch national institute for Public Health and the environment	1	0	1	Other methods	Based on Dutch Municipal population registers.	Statline	no	yes (using population distribution targetgroup cost unit)	yes (using population distribution targetgroup cost unit)	estimated, using definition cost unit	estimated, using definition cost unit	# citizens	no
HP.7.9	Medical services of the military services	1	0	1	Other methods	Costs medical facilities military forces distributed over age/sex distribution employees (estimated from annual reports to national government)	Ad Hoc survey	no	yes (using population distribution targetgroup cost unit)	yes (using population distribution targetgroup cost unit)	estimated, using definition cost unit	yes (by definition cost unit)	# employees	no
HP.7.9	Taxi companies	1	1	1	Other methods	Artificially constructed distribution based on reports by care administrators (CVZ) supplemented by expert opinion	Ad Hoc Survey	partial (renal/diabetic recognizable, others unidentifiable)	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	artificial product (based on non-urgent transportations with ambulance)	no

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
HP.7.9	Taxi companies	1	0	1	Other methods	Artificially constructed distribution based on reports by care administrators (CVZ) supplemented by expert opinion	Ad Hoc Survey	partial (renal/diabetic recognizable, others unidentifiable)	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	artificial product (based on non-urgent transportations with ambulance)	no
HP.7.9	Taxi companies	1	1	1	Other methods	Artificially constructed distribution based on reports by care administrators (CVZ) supplemented by expert opinion	Ad Hoc Survey	partial (renal/diabetic recognizable, others unidentifiable)	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	artificial product (based on non-urgent transportations with ambulance)	no
HP.7.9	Institutions providing deaf interpreters	1	1	1	Single Reg	Age sex distribution based on Central Administration Office (CAK) register of patients data institutes handicapped (hearing) covered by Exceptional Medical Expenses Act (AWBZ)	CAK	yes (by definition cost unit)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	# days in institution	no
HP.7.9	Institutes providing guide dogs for the blind	1	1	1	Single Reg	Age sex distribution based on Central Administration Office (CAK) register of patient data institutes visually handicapped covered by Exceptional Medical Expenses Act (AWBZ)	CAK	yes (by definition cost unit)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	# days in institution	no
HP.9	Providers of care in the rest of the world	1	0	1	Fitting	Dutch Hospital Register has been used-subselection all wards except mental care within general, non-academic hospitals	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days (distrubuted over day care, clinical care)	fixed price daycare, estimate clinical care
HP.9	Providers of care in the rest of the world	1	0	1	Fitting	Dutch Hospital Register has been used-subselection all wards except mental care within general, non-academic hospitals	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days (distrubuted over day care, clinical care)	fixed price daycare, estimate clinical care
HP.9	Not part of Health accounts	0	0	1	Other methods	Based on Dutch Municipal population registers.	Statline	no	yes (using population distribution targetgroup cost unit)	yes (using population distribution targetgroup cost unit)	estimated, using definition cost unit	no	# citizens	no
Outside SHA	General hospitals	1	1	0	Fitting	Dutch Hospital Register has been used-subselection all wards except mental care within general, non-academic hospitals	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days (distrubuted over day care, clinical care)	fixed price daycare, estimate clinical care

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
Outside SHA	University hospitals	1	1	0	Fitting	Dutch Hospital Register has been used- subselection all wards except dental care for university hospitals only	LMR	yes (ICD-9, 4-digits)	yes	yes	estimated, using definition cost unit. Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days (distributed over day care, clinical care)	fixed price daycare, estimate clinical care
Outside SHA	Specialised hospitals	1	1	0	Single Reg	Revalidation care based on central registration revalidation facilities.	Databank revalidatie	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# hospital days(distributed over day care, clinical care), #procedures(+ type distribution)	fixed national pricelist for procedures, estimated for hospital days (fixed price daycare, estimate clinical care)
Outside SHA	Integrated institutions for mental health care	1	1	0	Single Reg	Based on register branch organisation institutes for mental health care - subselection all type of care products except forensic care, only care insured by Exceptional medical Expenses Act	ZORGIS	yes (ICD-9, 4-digits)	yes	yes	approximately attributed to products using expert opinion	yes(by definition cost unit)	# products (+ type distribution))	fixed national pricelist
Outside SHA	Practices of orthodontists	1	0	0	Single Reg	Annual stratified survey dentist practices has been used - subselection of ages 18+ and orthodontic procedures only excluding preventive care (this follows from definition of cost unit)	peilstations	yes, indirect (attributed to product using expert opinion)	yes	yes	yes, indirect (attributed to product using expert opinion)	partial	# procedures (+ type distribution)	fixed national pricelist
Outside SHA	Practices of other medical specialists	1	1	0	Multiple Reg	Data of ambulant patient register LAZR - which does contain type of specialist visited, but no diagnosis- have been combined with referral data general practitioner(LINH) - which does contain both specialist type and diagnosis.	LAZR+LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# contacts (both first and subsequent)	no
Outside SHA	Practices of dentists	1	0	0	Single Reg	Annual stratified survey dentist practices has been used - subselection all procedures which involve the use ofproducts of dental technician labs	peilstations	yes, indirect (attributed to product using expert opinion)	yes	yes	yes, indirect (attributed to product using expert opinion)	partial	# procedures (+ type distribution)	fixed national pricelist
Outside SHA	Practices of dentists	1	0	0	Single Reg	Annual stratified survey dentist practices has been used - subselection all procedures which involve the use ofproducts of dental technician labs	peilstations	yes, indirect (attributed to product using expert opinion)	yes	yes	yes, indirect (attributed to product using expert opinion)	partial	# procedures (+ type distribution)	fixed national pricelist

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
Outside SHA	Practices of physiotherapists	1	0	0	Single Reg	Annual stratified survey on the use of paramedical services has been used. - subselecting on this specific type of paramedic has been used.	LIPZ	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	# products (+ type distribution))	fixed national pricelist
Outside SHA	Practices of midwives	1	0	0	Other methods	Use of midwife services based on known distribution of woman giving childbirth. Distribution over other dimension estimated based on monitoring of midwife activities by research organisation (NIVEL)	Ad Hoc Survey	yes (by definition cost unit + survey information)	women	yes (using distribution women giving birth)	estimated, using definition cost unit + survey information	estimated, using definition cost unit	# women giving birth	no
Outside SHA	Practices of midwives	1	1	0	Other methods	Use of midwife services based on known distribution of woman giving childbirth. Distribution over other dimension estimated based on monitoring of midwife activities by research organisation (NIVEL)	Ad Hoc Survey	yes (by definition cost unit + survey information)	women	yes (using distribution women giving birth)	estimated, using definition cost unit + survey information	estimated, using definition cost unit	# women giving birth	no
Outside SHA	Occupational health services (independent)	1	0	0	Other methods	Annual economic survey Dutch population by Statistics Netherlands	Statline	no	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	# employees	weighted for age/sex specific length of contract, and age/sex distribution of frequency of absence due to illness
Outside SHA	Occupational health services (in-company services)	1	0	0	Other methods	Annual economic survey Dutch population by Statistics Netherlands	Statline	no	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	# employees	weighted for age/sex specific length of contract, and age/sex distribution of frequency of absence due to illness
Outside SHA	Pharmacies (drugs)	1	0	0	Multiple Reg	Prescription register pharmacies data (without a diagnostic code) were used for this cost unit	SFK	no	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	#prescriptions (+type distribution)	pricelist
Outside SHA	Optician's shops	1	0	0	Single Reg	Annual health survey Dutch population by Statistics Netherlands	POLS + Statline+ ad hoc survey	no	yes	yes	estimated, using definition cost unit	estimated, using definition cost unit	# respondents indicating use glasses or lenses	more severe cases (needing glasses for both short and long distance) we counted twice

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
Outside SHA	Nursing homes	1	0	0	Multiple Reg	Age sex distribution based on Central Administration Office (CAK) register of patients data institutes nursing homes covered by Exceptional Medical Expenses Act (AWBZ)	CAK + LZV	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	# days in care	no
Outside SHA	Homes for the elderly	1	0	0	Multiple Reg	Age sex distribution based on Central Administration Office (CAK) register of people living in care homes for the elderly covered by Exceptional Medical Expenses Act (AWBZ) - Diagnosis distribution based on LZV-registration of care within carehomes	CAK+LZV	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	# days in care	no
Outside SHA	Homes for the elderly	1	1	0	Multiple Reg	Age sex distribution based on Central Administration Office (CAK) register of people living in care homes for the elderly covered by Exceptional Medical Expenses Act (AWBZ) - Diagnosis distribution based on LZV-registration of care within carehomes	CAK+LZV	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	# days in care	no
Outside SHA	Institutions providing home care services	1	1	0	Multiple Reg	Age sex distribution based on Central Administration Office (CAK) register of patients data using home care covered by Exceptional Medical Expenses Act (AWBZ) - all functions excepting nursing functions. Diagnosis distribution based on age/sex specific	CAK+GINO	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	partial	yes(by definition cost unit)	# minutes of care distributed over care type	price estimate dependent on care-type (~ health care function)
Outside SHA	Contribution consumption households (nursing care & home care)	1	0	0	Multiple Reg	Age sex distribution based on Central Administration Office (CAK) register of patients data using home care covered by Exceptional Medical Expenses Act (AWBZ) - all functions excepting nursing functions. Diagnosis distribution based on age/sex specific	CAK+GINO	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	partial	yes(by definition cost unit)	# minutes of care distributed over care type	price estimate dependent on care-type (~ health care function)

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
Outside SHA	Contribution consumption households (nursing care & home care)	1	1	0	Multiple Reg	Age sex distribution based on Central Administration Office (CAK) register of patients data using home care covered by Exceptional Medical Expenses Act (AWBZ) - all functions excepting nursing functions. Diagnosis distribution based on age/sex specific	CAK+GINO	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	partial	yes(by definition cost unit)	# minutes of care distributed over care type	price estimate dependent on care-type (~ health care function)
Outside SHA	Integrated institutions for care for the handicapped	1	1	0	Single Reg	Population composition institutes handicapped (based on survey)	VGB	yes (by definition cost unit)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	#days in institution	no
Outside SHA	Support organisations for disabled, handicapped or chronically ill.	1	1	0	Single Reg	Population composition institutes handicapped (based on survey)	VGB	yes (by definition cost unit)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	#days in institution	no
Outside SHA	Support organisations for disabled, handicapped or chronically ill.	1	1	0	Single Reg	Population composition institutes handicapped (based on survey)	VGB	yes (by definition cost unit)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	#days in institution	no
Outside SHA	Centres for child care / day nursery (non-medical)	1	0	0	Other methods	Based on survey on the use of child care by statistics netherlands combined with demographic composition target population.	Statline	No	yes (using population distribution targetgroup cost unit)	yes (using population distribution targetgroup cost unit)	yes(by definition cost unit)	yes(by definition cost unit)	# children	weighted using known distribuion actual use ages 0-4 and 5-13
Outside SHA	Contribution consumption households (child care)	1	0	0	Other methods	Based on survey on the use of child care by statistics netherlands combined with demographic composition target population.	Statline	no	yes (using population distribution targetgroup cost unit)	yes (using population distribution targetgroup cost unit)	yes(by definition cost unit)	yes(by definition cost unit)	# children	weighted using known distribuion actual use ages 0-4 and 5-13
Outside SHA	Institutions for public social care	1	0	0	Other methods	Monitor use of social welfare by branche organisation, supplemented by expert opinion.	Ad Hoc Survey	artificial (using expert opinion)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	# contacts (both first and subsequent)	no

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
Outside SHA	Relief homes abused, homeless	1	0	0	Other methods	Use of relief homes estimated using data from annual reports and a limited survey among active organisations in this field	ad hoc survey	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	# clients	no
Outside SHA	Medical children's homes	1	0	0	Proxy key	No new data available. Distribution of Cost-of-illness for this provider in previous study have been used as a proxy for distribution of costs.	KVZ1999+Statline	yes	yes (adjusted for demographic shift 1999-2003)	yes (adjusted for demographic shift 1999-2003)	estimated, using definition cost unit	yes(by definition cost unit)	costs	no
Outside SHA	Nurseries for toddlers under medical supervision	1	0	0	Proxy key	No new data available. Distribution of Cost-of-illness for this provider in previous study have been used as a proxy for distribution of costs.	KVZ1999+Statline	yes	yes (adjusted for demographic shift 1999-2003)	yes (adjusted for demographic shift 1999-2003)	estimated, using definition cost unit	yes(by definition cost unit)	costs	no
Outside SHA	Not part of Health accounts	0	1	0	Multiple Reg	Prescription register pharmacies - which contains detailed prescription data (ATC-code, units, costs) but no diagnostic data have been combined with prescription data from GP annual survey - which contains both ATC-code and diagnosis.	SFK+LINH	yes (ICPC translated to diagnosis groups study using expert opinion)	yes	yes	estimated, using definition cost unit . Partially attributed on base of product or diagnosis using expert opinion	partial	#prescriptions (+type distribution)	pricelist
Outside SHA	Not part of Health accounts	0	1	0	Single Reg	Based on detailed cost registration therapeutic appliances maintained by Health care Insurance Board (CVZ). This sources covers only social security, but has also been used on costs generated by private insurance.	GIP	yes, indirect (attributed to product using expert opinion)	yes	yes	estimated, using definition cost unit	social security	costs	no
Outside SHA	Not part of Health accounts	0	1	0	Multiple Reg	Age sex distribution based on Central Administration Office (CAK) register of patients data using home care covered by Exceptional Medical Expenses Act (AWBZ) - all functions excepting nursing functions. Diagnosis distribution based on age/sex specific	CAK+GINO	yes (registration specific diagnosis translated to diagnosis groups study using expert opinion)	yes	yes	partial	yes(by definition cost unit)	# minutes of care distributed over care type	price estimate dependent on care-type (~ health care function)
Outside SHA	Not part of Health accounts	0	1	0	Single Reg	Based on register branch organisation institutes for mental health care - subselection all type of care products except forensic care and care covered by exceptional medical expenses act	ZORGIS	yes (ICD-9, 4-digits)	yes	yes	approximately attributed to products using expert opinion	yes(by definition cost unit)	# products (+ type distribution))	fixed national pricelist

HP	Nat Health Accounts	NHA	BGT	SHA	Method	Memo	Sources	Diagnosis	Gender	age_mem	function	finance	Product	extra weight
Outside SHA	Not part of Health accounts	0	1	0	Proxy key	Distribution based on actual use of Exceptional medical expenses Act, as indicated by expense distribution over cost-of-illness in main care sectors (handicapped, home care, nursing homes, care homes for elderly, institutions for mental health care).	Expense distribution	yes	yes	yes	yes(by definition cost unit)	yes(by definition cost unit)	costs	no
Outside SHA	Not part of Health accounts	0	1	0	Single Reg	Based on age distribution women having abortion (report by The Netherlands Health Care Inspectorate (IGZ)	IGZ-survey	yes (by definition cost unit)	women	yes	estimated, using definition cost unit	estimated, using definition cost unit	# women having abortion	no
Outside SHA	Not part of Health accounts	0	1	0	Other methods	Perinatal care attributed to mothers, using known age distribution. Distribution over care-function based on survey by research organisation (TNO) supplemented with expert opinion.	Ad Hoc survey	yes (by definition cost unit)	women	yes (using distribution women giving birth)	estimated, using definition cost unit + survey information	yes(by definition cost unit)	# women giving birth	no
Outside SHA	Not part of Health accounts	0	1	0	Single Reg	Population composition institutes handicapped (based on survey)	VGB	yes (by definition cost unit)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	# patients	no
Outside SHA	Not part of Health accounts	0	1	0	Single Reg	Population composition institutes handicapped (based on survey)	VGB	yes (by definition cost unit)	yes	yes	estimated, using definition cost unit	yes(by definition cost unit)	#days in institution	no