



## Methodology Notes

# Cost of a Standard Hospital Stay: Appendices to Indicator Library

February 2019



Canadian Institute  
for Health Information

Institut canadien  
d'information sur la santé

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ISBN 978-1-77109-801-4 (PDF)

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How to cite this document:

Canadian Institute for Health Information. *Cost of a Standard Hospital Stay: Appendices to Indicator Library — Methodology Notes, February 2019*. Ottawa, ON: CIHI; 2019.

Cette publication est aussi disponible en français sous le titre *Coût d'un séjour standard à l'hôpital : annexes pour le répertoire des indicateurs — notes méthodologiques, février 2019*.

ISBN 978-1-77109-802-1 (PDF)

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# Definition

The Cost of a Standard Hospital Stay (CSHS) provides the average cost in your facility for a hypothetical patient with an RIW = 1.

# Methodology

Please note specific adjustments made to permit the use of data from Quebec in this calculation are also described below.

Specific adjustments are made to MIS-mapped Quebec data in order for it to align more closely to MIS reporting practices in other jurisdictions. Equipment amortization expenses, which are reported within the Quebec data as undistributed amounts, are distributed to MIS functional centres. Data from MIS-submitting jurisdictions are used to inform this distribution.

As the employer’s share of pension contribution is paid directly by the government in Quebec, this component of expenses does not appear in their data. In MIS compliant jurisdictions, this expense is found in secondary financial account 3 \*\* 44 (Provincial Pension Plan). Using information provided by Quebec, pension contributions estimates were calculated for each functional centre in each organization and used in the Cost of a Standard Hospital Stay analysis.

As in other jurisdictions, Quebec data that was mapped to clearing accounts was distributed to absorbing functional centres as specified in the MIS Standards.

## Determining full costs

1. The first step in calculating CSHS values is to determine the full inpatient cost for each individual hospital that reports data to the CMDDB. Most expenses in the CMDDB are used in this calculation; there are, however, some expenses in the hospital submissions that must be removed to facilitate comparability of CSHS values. The following adjustments are made:

Secondary financial account	Description	Action
<b>1 2</b>	Recoveries	Net against expenses
<b>3 10 85</b>	Compensation — Management and Operational Support Personnel — Other Termination Benefits	Exclude
<b>3 50 85</b>	Compensation — Unit-Producing Personnel — Other Termination Benefits	Exclude

Secondary financial account	Description	Action
3 90	Compensation — Medical Personnel	Exclude
9 50 20	Amortization — Undistributed Land Improvements <sup>i</sup>	Exclude
9 50 40	Amortization — Undistributed Buildings <sup>i</sup>	Exclude
9 50 60	Amortization — Undistributed Building Service Equipment <sup>i</sup>	Exclude
9 51	Net Gain or Loss on Disposal — Undistributed	Exclude
9 55	Interest on Long-Term Liabilities	Exclude

Quebec data includes the cost of blood products — a cost that is not reported in other jurisdictions. These data have been mapped to a special functional centre that is removed from the data set for this analysis.

2. Once these adjustments have been implemented, all remaining hospital costs must be assigned to one of the following 3 cost pools:
  - Inpatient Costs — These are costs incurred through the direct care of hospital inpatients.
  - Other Patient Costs — These are costs incurred through the direct care of other hospital patients such as clients.
  - Non-Patient Costs — These are costs that are incurred through non-patient care activities.

To properly allocate hospital costs in the CMDDB to these cost pools, the costs in functional centres are assigned to the cost pool they best “fit”. This assignment is primarily based on the first 5 digits (“level 3”) of the functional centre, though the assignment can become complicated for functional centres whose services relate to more than one cost pool.

To describe how these costs are identified, functional centres and accounting centres will be grouped into 8 logical sections and discussed separately. The groupings are the following:

- (a) Nursing Inpatient Units
- (b) Operating Rooms and Post-Anesthetic Recovery Rooms
- (c) Emergency Departments
- (d) Specified Ambulatory Care Functional Centres
- (e) Diagnostic and Therapeutic Functional Centres

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i. Undistributed amortization is sometimes incorrectly reported rolled up as secondary financial account 9 50 00, so the portion applicable to land improvements, buildings and building service equipment cannot be ascertained. Nationally, CIHI has determined that 70% of the reported undistributed amortization applies to these types of assets, so this percentage is excluded and thus only the costs associated with major equipment amortization — undistributed will remain for allocation purposes.

- (f) Other Patient Care Functional Centres
- (g) Other Hospital Costs
- (h) Remaining Functional Centres and Accounting Centres

The section below describes how the costs in each of these 8 groupings are allocated to the Inpatient, Other Patient and Non-Patient Cost Pools. For additional detail on the statistical accounts used for allocations, please refer to Appendix A.

## (a) Nursing Inpatient Units

The vast majority of costs reported in Nursing Inpatient Units are expected to be inpatient costs. However, other patient activity is occasionally reported in nursing inpatient units in the form of workload or visits.

Account number	Description	Inpatient Costs	Other Patient Costs	Non-Patient Costs
71 2 10	Medical Nursing Units	Yes	Potentially	No
71 2 20	Surgical Nursing Unit	Yes	Potentially	No
71 2 30	Combined Medical/Surgical Nursing Unit	Yes	Potentially	No
71 2 40	Intensive Care Nursing Unit	Yes	Potentially	No
71 2 50	Obstetrics Nursing Unit	Yes	Potentially	No
71 2 70	Pediatric Nursing Unit	Yes	Potentially	No
71 2 75	Mental Health and Addiction Services Nursing Unit	Yes	Potentially	No
71 2 80	Physical Rehabilitation Nursing Unit	Yes	Potentially	No
71 2 90	Palliative Nursing Unit	Yes	Potentially	No

In order to determine the amount of expenses that should be allocated to the Other Patient cost pool, all of the above functional centres that report other patient visits are identified. These functional centres are passed through a 2-phase algorithm to determine an appropriate allocation to the Other Patient cost pool.

**Phase 1:** All nursing inpatient functional centres with workload are passed through a statistical linear regression that uses its labour-adjusted cost per workload unit as the dependent variable and fiscal year and functional centre as the independent variables.

All functional centres that pass this regression are deemed to demonstrate a reasonable relationship between total workload and labour-adjusted expenses; their allocation to the Other Patient cost pool is based on their proportion of reported workload by category of service recipient.

**Phase 2:** All nursing inpatient functional centres with other patient visits and other patient workload are passed through 3 consecutive models of statistical linear regression, where only those functional centres that pass one model are passed on to the subsequent model. The independent variables for each model are the fiscal year and functional centre. The dependent variables are the following:

- i) Other patient workload per other patient visit
- ii) Labour-adjusted expenses per workload unit
- iii) Other patient portion of labour-adjusted expenses per other patient visit

Those functional centres that pass all 3 regressions are deemed to demonstrate a reasonable relationship between the 3 variables and are used to calculate a national cost per other patient visit. This national cost per other patient visit is then scaled for each jurisdiction to reflect its own labour rates, and multiplied against the other patient visits of each functional centre that failed Phase 1.

Functional centres that reported workload and visits in service recipient categories that contradicted one another are deemed to consist of 100% inpatient expenses.

Quebec data mapped to MIS Nursing Inpatient functional centres is deemed to consist entirely of inpatient costs and is assigned 100% to the Inpatient Cost Pool. The sole exception to this rule is the Quebec data mapped to the Obstetrics Nursing Unit functional centre (71 2 50\*). These functional centres are adjudicated for reasonableness using a linear statistical regression. The independent variable of the model is the fiscal year. The dependent variables is the cost per individual treated in the functional centre. Those functional centres that pass the regression are deemed to demonstrate a reasonable relationship between expenses and individuals treated and use the volume of individuals treated by category of service recipient to allocate its expenses to the Inpatient and Other Patient cost pools. Functional centres that fail this regression use a provincial allocation percentage based on those functional centres that passed.

## (b) Operating Rooms and Post-Anesthetic Recovery Rooms

It is reasonable for Operating Rooms and Post-Anesthetic Recovery Rooms to contain a mix of expenses related to inpatients and other patients.

Account number	Description	Inpatient Costs	Other Patient Costs	Non-Patient Costs
71 2 60	Operating Room	Yes	Potentially	No
71 2 62	Combined Operating and Post-Anesthetic Recovery Room	Yes	Potentially	No
71 2 65	Post-Anesthetic Recovery Room	Yes	Potentially	No
71 3 60	Day Surgery Operating Room	Potentially	Yes	No
71 3 62	Day Surgery Combined OR and PARR	Potentially	Yes	No
71 3 65	Day Surgery Post-Anesthetic Recovery Room	Potentially	Yes	No
71 3 69	Day Surgery Combined OR-PARR and Pre-and Post-Operative Care	Potentially	Yes	No

In order to determine the amount of expenses that should be allocated to the Other Patient cost pool in these functional centres, all of the above functional centres that report workload and whose workload did not conflict in category of service recipient with its service activity statistics are identified. These functional centres are passed through a 2-phase algorithm to determine an appropriate allocation to the Other Patient cost pool.

**Phase 1:** All OR and PARR functional centres reporting workload are passed through a statistical linear regression that uses its labour-adjusted expenses per workload unit of the functional centre as the dependent variable and the fiscal year and functional centre as the independent variables. Regressions are conducted separately for the OR and PARR.

All functional centres that pass this regression are deemed to demonstrate a reasonable relationship between workload and labour-adjusted expenses; their allocation to the Other Patient cost pool is based on their proportion of reported workload by category of service recipient. A national proportion of inpatient to other patient activity based on the functional centres that passed the regression is applied to the functional centres that failed the regression and did not report service activity statistics in the functional centre. This national average is also used for functional centres whose workload conflicted in category of service recipient with its service activity statistics and for functional centres lacking both workload and service activity.



**Phase 2:** For OR and PARR functional centres that reported surgical visits, PARR visits or face-to-face visits and did not report workload, labour-adjusted national cost estimates are calculated for a surgical visit, a PARR visit and a Face-to-Face visit. These estimates are then applied against the service activity of the functional centres that are admitted to Phase 2 to derive an Other Patient cost pool allocation.

Quebec data mapped to the Operating Room functional centres is allocated to the Inpatient and Other Patient cost pools using a linear statistical regression. The independent variable of this regression is the fiscal year and the dependent variable is surgical hours. Those functional centres that pass the regression are deemed to demonstrate a reasonable relationship between expenses and surgical hours and use the volume of surgical hours by category of service recipient to allocate its expenses to the Inpatient and Other Patient cost pools. Functional centres that fail this regression use a provincial allocation percentage based on those functional centres that passed.

### (c) Emergency Departments

Account number	Description	Inpatient Costs	Other Patient Costs	Non-Patient Costs
71 3 10	Emergency	Potentially	Yes	No

An Emergency functional centre may contain inpatient volume data as reflected by the service activity statistics “inpatient day” and “face-to-face visits — inpatient.” To estimate the costs of these volumes, the data is passed through a 2-phase algorithm.

**Phase 1:** Emergency functional centres that report workload are passed through a statistical linear regression that uses its labour-adjusted cost per workload unit as the dependent variable and fiscal year, functional centre, and hospital cohort as the independent variables. Those functional centres that pass the regression use their own workload by category of service recipient to allocate expenses to the Inpatient and Other Patient cost pools.

**Phase 2:** For Emergency functional centres reporting inpatient service activity without workload, or with workload that conflicts with service activity due to the reported category of service recipient, labour-adjusted national cost estimates are calculated for inpatient days, inpatient visits and “other patient” visits. These estimates are multiplied by the service activity volumes of the functional centres without appropriate workload reporting to derive a proportion of inpatient activity to total activity. This proportion is then applied against the total expenses of the functional centre, resulting in Inpatient and Other Patient cost pool allocations.

Emergency functional centres that did not report service activity or workload are deemed to consist of 100% Other Patient expenses.

Quebec data mapped to the MIS Emergency functional centres is deemed to consist entirely of other patient costs and is assigned 100% to the Other Patient cost pool.

## (d) Specified Ambulatory Care Functional Centres

Account number	Description	Inpatient Costs	Other Patient Costs	Non-Patient Costs
71 3 40	Specialty Day/Night Care	Potentially	Yes	No
71 3 50	Specialty Clinics	Potentially	Yes	No
71 3 55	Private Clinics	Potentially	Yes	No
71 3 67	Day Surgery Pre- and Post-Operative Care	Potentially	Yes	No

Other ambulatory care functional centres may contain inpatient volume data as reflected by the service activity statistics “inpatient day” and “face-to-face visits — inpatient.” To estimate the costs of these volumes, the ambulatory care functional centres specified above are passed through a 2-phase algorithm:

**Phase 1:** The specified ambulatory care functional centres that report workload are passed through a statistical regression that uses its labour-adjusted cost per workload unit as the dependent variable and fiscal year and functional centre as the independent variables. Those functional centres that pass the regression use their own workload by category of service recipient to allocate expenses to the Inpatient and Other Patient cost pools.

**Phase 2:** For functional centres from this list that report inpatient service activity without workload, or with workload that conflicts with service activity in the category of service recipient, labour-adjusted national cost estimates are calculated for visits and inpatient days. These estimates are multiplied by the service activity volumes of the functional centres without appropriate workload reporting to derive a proportion of inpatient activity to total activity. This proportion is then applied against the total expenses of the functional centre, resulting in Inpatient and Other Patient cost pool allocations.

The functional centres from this list that did not report service activity or workload are deemed to consist of 100% Other Patient expenses. Quebec data mapped to the MIS Ambulatory Care functional centres is deemed to consist entirely of other patient costs and is assigned 100% to the Other Patient cost pool.

## (e) Diagnostic and Therapeutic Functional Centres

Account number	Description	Inpatient Costs	Other Patient Costs	Non-Patient Costs
71 4 05	Diagnostic and Therapeutic Nursing	Potentially	Potentially	No
71 4 10	Clinical Laboratory	Potentially	Potentially	No
71 4 15	Diagnostic Imaging	Potentially	Potentially	No
71 4 20	Radiation Oncology	Potentially	Potentially	No
71 4 25	Electrodiagnostic Laboratories	Potentially	Potentially	No
71 4 30	Non-Invasive Cardiology and Vascular Laboratories	Potentially	Potentially	No
71 4 35	Respiratory Services	Potentially	Potentially	No
71 4 40	Pharmacy	Potentially	Potentially	No
71 4 45	Clinical Nutrition	Potentially	Potentially	No
71 4 50	Physiotherapy	Potentially	Potentially	No
71 4 55	Occupational Therapy	Potentially	Potentially	No
71 4 60	Audiology and Speech/Language Pathology	Potentially	Potentially	No
71 4 65	Rehabilitation Engineering	Potentially	Potentially	No
71 4 70	Social Work	Potentially	Potentially	No
71 4 75	Psychology	Potentially	Potentially	No
71 4 76	Genetic Counselling	Potentially	Potentially	No
71 4 80	Pastoral Care	Potentially	Potentially	No
71 4 85	Recreation	Potentially	Potentially	No
71 4 90	Child Life	Potentially	Potentially	No

It is an expectation that most (if not all) Diagnostic and Therapeutic functional centres will service inpatient populations and other patient populations. In order to determine the amount of expenses in these functional centres that should be allocated to the Inpatient and Other Patient cost pools, all of the above functional centres are passed through a 3-phase algorithm.

**Phase 1:** All diagnostic and therapeutic functional centres that report workload are entered into a statistical linear regression that uses its labour-adjusted cost per workload unit as the dependent variable and hospital cohort as the independent variable. This regression is conducted for each type of diagnostic and therapeutic functional centre. All functional centres that pass this regression are deemed to demonstrate a reasonable relationship between workload and labour-adjusted expenses; their allocation to the Inpatient and Other Patient cost pools is based on their proportion of reported workload by category of service recipient.

**Phase 2:** All diagnostic and therapeutic functional centres that report service activity are entered into a statistical linear regression that uses their labour-adjusted cost per service activity unit as the dependent variable and hospital cohort as the independent variable. This regression is conducted for each type of diagnostic and therapeutic functional centre. All functional centres that pass the Phase 2 regression are deemed to demonstrate a reasonable relationship between service activity and labour-adjusted expenses. Functional centres that were ineligible for Phase 1 or failed Phase 1 use their reported service activity to allocate to the Inpatient and Other Patient cost pools by category of service recipient.

**Phase 3:** All diagnostic and therapeutic functional centres with service activity and workload are processed through 3 consecutive models of statistical linear regression, where only those functional centres that pass one model are passed on to the subsequent model. The models are as follows:

- i) Other patient workload per other patient service activity
- ii) Labour-adjusted expenses per total workload unit
- iii) Other patient portion of labour-adjusted expenses per other patient service activity

Those functional centres that pass all 3 regressions are used to calculate a national average inpatient-to-total workload percentage. This percentage is applied to each functional centre that failed Phase 1 and Phase 2 to determine Inpatient and Other Patient cost pool allocations.

Quebec data that is mapped to most Diagnostic and Therapeutic MIS functional centres is also allocated to the Inpatient and Other Patient cost pools via regression models. In essence, statistics pertinent to the specific functional centres are used in the model. For each model and for each functional centre, the independent variable of this regression is the fiscal year and the dependent variable is the cost per statistic. Those functional centres that pass the regression are deemed to demonstrate a reasonable relationship between expenses and the statistic and use the volume of statistic by patient category to allocate its expenses to the inpatient and other patient cost pools. Functional centres that fail this regression are entered into regression models that use alternate types of statistics. If a functional centre fails all regressions models, then it uses an average inpatient percentage calculated from all Quebec functional centres that passed the initial regression model.

## (f) Other Patient Care Functional Centres

Account number	Description	Inpatient Costs	Other Patient Costs	Non-Patient Costs
71 2 76	Mental Health Long-Term Care Nursing Unit	No	Yes	No
71 2 92	Long-Term Care Nursing Unit	No	Yes	No
71 2 96	Contracted-Out Surgical Services	No	Yes	No
71 2 97	Contracted-Out Inpatient Long-Term Care	No	Yes	No
71 3 14	Telephone Health Services	No	Yes	No
71 3 20	Poison and Drug Information Services	No	Yes	No
71 3 96	Contracted-Out Day Surgery Services	No	Yes	No
<b>All 71 5* Accounts</b>	Community Health Services	No	Yes	No

All remaining patient care-related functional centres in the nursing, ambulatory care and diagnostic and therapeutic framework are assigned to the Other Patient cost pool.

## (g) Other Hospital Costs

Account number	Description	Inpatient Costs	Other Patient Costs	Non-Patient Costs
71 7*	Research	No	No	Yes
<b>All 71 8* Accounts other than 71 8 40* (In-Service Education)</b>	Education	No	No	Yes
<b>All 71 9* Accounts</b>	Undistributed	No	No	Yes

All expenses in these functional centres are allocated to the Non-Patient cost pool.

Account number	Description	Inpatient Costs	Other Patient Costs	Non-Patient Costs
<b>All 71 1* Accounts</b>	Administration and Support	Allocation	Allocation	Allocation
71 8 40*	In-Service Education	Allocation	Allocation	No
<b>All 81 9* Accounts</b>	Undistributed	Allocation	Allocation	Allocation

## **(h) Remaining Functional Centres and Accounting Centres**

For these functional centres, the costs are allocated to the cost pools as described in steps 5, 6 and 7.

1. For those hospitals where the clinical data can be separated for mental health patients (for example, when using a distinct institution number in the DAD, reporting to a different database, or when the entire facility is a mental health facility), move any reported expenses from the Inpatient cost pool in 71 2 75 (Mental Health and Addiction Services Nursing Unit) to the Other Patient cost pool. For all Diagnostic and Therapeutic functional centres (71 4\*) of these same hospitals, determine the portion of the Inpatient cost pool expenses that belong to mental health inpatients (based on the mental health inpatient expenses as a proportion of the total Inpatient Cost pool expenses) and move this portion to the Other Patient cost pool. This calculation is performed for the purposes of calculating an acute cost of a standard hospital stay. In those cases where either the financial or clinical data for mental health services cannot be separated, the existence of some mental health expenses along with the associated mental health weighted cases should not make a material difference to the CSHS.
2. For those hospitals where the clinical data can be separated for rehabilitation patients (for example, when using a distinct institution number in the DAD, reporting to a different database, or when the entire facility is a rehabilitation facility), move any reported expenses from the Inpatient Cost pool in 71 2 80 (Physical Rehabilitation Services Nursing Unit) to the Other Patient cost pool. For all Diagnostic and Therapeutic functional centres (71 4\*) of these same hospitals, determine the portion of the Inpatient cost pool expenses that belong to rehabilitation inpatients (based on the rehabilitation inpatient expense as a proportion of the total Inpatient cost pool expenses) and move this portion to the Other Patient cost pool. This calculation is performed for the purposes of calculating an acute cost per weighted case. In those cases where either the financial or clinical data for rehabilitation services cannot be separated, the existence of some rehabilitation expenses along with the associated rehabilitation weighted cases should not make a material difference to the CSHS.
3. Administration and Support Services (71 1\*) functional centre expenses are redistributed to the 3 cost pools based on the share of each hospital's cost pool's total expenses relative to the hospital's total expenses.
4. Accounting Centre (81 9\*) and its share of 71 1\* expenses are redistributed to the 3 cost pools based on the share of each hospital's cost pool's total expenses relative to the hospital's total expenses.
5. In-Service Education (71 8 40\*) expenses are allocated to the Inpatient and Other Patient cost pools based on each of these cost pools' share of their combined sum at the hospital level, prior to 711 and 819 allocation in steps 5 and 6.
6. Total the costs in the Inpatient cost pool and use this figure to determine the cost per weighted case.

## Determining weighted cases

1. Obtain the hospital's acute, rehabilitation and mental health inpatient weighted cases from health records (that were calculated by CIHI using data from the DAD).
2. For cases with a length of stay greater than 365 days, calculate the proportion of the stay that occurs beyond 365 days ( $365 \div \text{total length of stay}$ ). Multiply this proportion by the inpatient RIW to adjust for the multi-year inpatient stay.
3. Remove the inpatient weighted cases for mental health inpatients for those hospitals that have matching calculated inpatients costs in functional centre 71 2 75 (that is, those that are reporting mental health inpatient data to OMHRS or to the DAD using an institution number that is unique for mental health patients).
4. Remove the inpatient weighted cases for rehabilitation inpatients for those hospitals that have matching calculated inpatients costs in functional centre 71 2 80 (that is, those that are reporting rehabilitation patient data to the NRS or are reporting rehabilitation patient data to the DAD using an institution number that is unique for rehabilitation patients).

## Calculating the cost of a standard hospital stay

1. Match the inpatient cost and weighted case data for each hospital.
2. Calculate the cost of a standard hospital stay:

$$\text{Cost of a Standard Hospital Stay} = \text{Total Inpatient Costs} \div \text{Total Weighted Cases}$$

Please note that weighted cases used in these methodologies are grouped using CMG+ 2018, CIHI's most recent case mix grouping methodology at the time of this release.

## Interpretation

Cost of a standard hospital stay is an indicator that measures the relative cost-efficiency of a hospital's ability to provide acute inpatient care. This indicator compares a hospital's total acute inpatient care expenses to the number of acute inpatient weighted cases related to the inpatients that it provided care for. The result is the hospital's average full cost of treating the average acute inpatient. A high cost of a standard hospital stay indicates a relative high cost of treating the average acute inpatient; a low cost of a standard hospital stay indicates the cost of treating the average acute inpatient is relatively lower.

# Appendix A: Allocation Statistics Used in CIHI CSHS Methodology, 2017–2018

MIS Primary Account	Service Activity Statistic	Secondary Statistical Account — Inpatient Proportion	Secondary Statistical Account: Total
<b>Phase 1: Workload</b>			
All accounts	Workload	1**1	1** (excluding 180* and 190*)
<b>Phase 2: Service Activity Statistics</b>			
<b>71 2 ** (excluding 71 2 6*)</b>	Visits — Face-to-Face	4501*	450*
<b>71 2 6*</b>	Surgical Visits, PARR	4371*	437*
<b>71 3 6*</b>	Visits, Visits — Face-to-Face	4391* 4501*	439* 450*
<b>71 3 ** (excluding 71 3 6*)</b>	Inpatient Days, Visits — Face-to-Face	4031* 4501*	403* 450*
<b>71 4 05</b>	Visits — Face-to-Face	4501*	450*
<b>71 4 10</b>	Laboratory Interventions, Contracted-Out Laboratory Interventions	4631* 8381*	463* 838*
<b>71 4 15</b>	In-House Exams —	4571*	457*
<b>71 4 25</b>	Diagnostic/Therapeutic, Contracted-Out In-House	8361*	836*
<b>71 4 30</b>	Exams — Diagnostic/ Therapeutic		
<b>71 4 20</b>	In-House Procedures —	4591*	459*
<b>71 4 65</b>	Therapeutic		
<b>71 4 37</b>	Procedures — Perfusion Services, Contracted-Out Procedures	4701* 8351*	470* 835*
<b>71 4 35</b>	Attendance Days —	4831*	483*
<b>71 4 40</b>	Face-to-Face, Contracted- Out Attendance Days	8341*	834*
<b>71 4 45</b>			
<b>71 4 50</b>			
<b>71 4 55</b>			
<b>71 4 60</b>			
<b>71 4 70</b>			
<b>71 4 75</b>			
<b>7 14 76</b>			
<b>71 4 80</b>			
<b>71 4 85</b>			
<b>71 4 90</b>			



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