

<b>ID</b>	P021c
<b>Dernière mise à jour de la fiche technique</b>	11/12/2024
<b>Domaine</b>	Evaluation de la performance du système de santé Efficacité Carte sanitaire
<b>Nom de l'indicateur - court</b>	Hospitalisations pour des problèmes cardio-vasculaires – Pontage aorto-coronarien (PAC)
<b>Justificatif</b>	<p>Les maladies cardio-vasculaires sont une cause majeure d'hospitalisation et de décès dans les pays à revenu élevé. Le pontage aorto-coronarien (PAC) est une opération à thorax ouvert comportant une greffe de veines et/ou d'artères afin de contourner une ou plusieurs artères obstruées. Cette opération est indiquée en cas de maladie coronarienne avancée et d'obstruction importante des artères coronaires (1).</p> <p>Les indicateurs « Hospitalisations pour des problèmes cardio-vasculaires » permettent d'avoir un aperçu des tendances des admissions hospitalières et de surveiller la santé cardiovasculaire au sein de la population.</p>
<b>Nom de l'indicateur - détaillé</b>	Nombre d'hospitalisations de personnes de 40 ans et plus pour cause de PAC, pour 100 000 habitants de 40 ans et plus (standardisé par sexe et âge à la population de l'OCDE en 2015)
<b>Définition de l'indicateur</b>	<p>Le nombre d'hospitalisations avec une procédure pour pontage aorto-coronarien comme motif principal du séjour, établi au moment de la sortie de l'hôpital, pour 100 000 habitants de 40 ans et plus.</p> <p>La définition repose sur une méthodologie convenue au niveau national (2).</p>
<b>Calcul de l'indicateur</b>	<p>Taux pour 100 000 habitants de 40 ans et plus</p> <p>Dénominateur : Nombre de résidents de 40 ans et plus du Luxembourg</p> <p>Numérateur : Nombre d'hospitalisations de personnes de 40 ans et plus (avec nuitée : chaque durée de séjour &gt;24h) dans un établissement de soins, dont la cause principale correspond à la procédure de pontage aorto-coronarien.</p> <ul style="list-style-type: none"> <li>• Critères d'inclusion : selon la méthodologie appliquée (2) – une des procédures reprises dans la liste des codes ICD-10-PCS, présentée à la section « Détails méthodologiques » (voir fin de cette fiche).</li> <li>• Critères d'exclusion, selon la méthodologie appliquée : <ul style="list-style-type: none"> <li>- Les cas où le patient est décédé pendant l'hospitalisation</li> <li>- Hospitalisation sans nuitée (durée de séjour &lt;24h)</li> <li>- Hospitalisation obstétrique</li> </ul> </li> </ul> <p>Ajustement : Les taux sont standardisés selon l'âge et le sexe de la population de l'OCDE âgée de 40 ans et plus en 2015.</p> <p>Les taux sont indiqués avec un intervalle de confiance de 95% (IC). L'IC 95% indique que la prévalence réelle se situe avec une probabilité de 95% dans la fourchette indiquée.</p>
<b>Sous-groupes</b>	Stratification par sexe pour les années 2018 à 2019 et 2021-2022
<b>Comparaison internationale</b>	Non fournie
<b>Couverture des données</b>	<p>Temporelle : 2018-2019, 2021-2022</p> <p>Géographique : nationale</p> <p>Population :</p> <ul style="list-style-type: none"> <li>• Dénominateur : résidents de 40 ans et plus du Luxembourg</li> <li>• Numérateur : les données couvrent toutes les hospitalisations survenues au Luxembourg, indépendamment du statut de résidence ou du régime d'affiliation</li> </ul>

<b>Constats</b>	<p>Entre 2018 et 2022, le taux d'hospitalisation pour PAC au Luxembourg est resté relativement stable. En 2022, ce taux est de 26,4 hospitalisations pour 100 000 habitants âgés de 40 ans et plus (IC 95% : 22,0-30,8), contre 19,4 en 2018 (IC 95% : 15,4-23,4), 21,2 en 2019 (IC 95% : 17,1-25,2) et 19,9 en 2021 (IC 95% : 16,1-23,8).</p> <p>L'analyse des taux d'hospitalisation révèle significativement plus d'hospitalisations pour PAC chez les hommes que chez les femmes. En 2022, le taux d'hospitalisation pour PAC était 5,8 fois plus élevé chez les hommes que chez les femmes, et 6,9 fois plus élevé chez les hommes pour la période 2018-2022. En 2022, le taux d'hospitalisation pour 100 000 hommes âgés de 40 ans et plus est de 47,7 (IC 95% : 39,0-56,4), contre 8,2 pour 100 000 femmes âgées de 40 ans et plus (IC 95% : 4,7-11,7).</p>
<b>Limitations</b>	<p>Les taux d'hospitalisation pour des problèmes cardio-vasculaires reflètent également l'accès aux soins hospitaliers : ainsi un taux faible peut indiquer une bonne prise en charge au niveau ambulatoire, mais peut aussi être partiellement attribué à un accès inadéquat aux soins hospitaliers.</p> <p>Pour cet indicateur, les critères d'inclusion étant variables selon les pays, aucune comparaison internationale n'est actuellement possible.</p>
<b>Remarques</b>	<p>Le nombre d'hospitalisations pour cet indicateur est basé sur des données relatives aux patients, et concerne les personnes admises à l'hôpital.</p> <p>L'année 2020 n'a pas été considérée pour les indicateurs basés sur le codage ICD-10-PCS, car les données sont incomplètes suite à l'exemption de codage qui a été accordée pour cette année.</p> <p>Cet indicateur inclut les interventions réalisées à l'Institut national de chirurgie cardiaque et de cardiologie interventionnelle (INCCI), qui est l'établissement national spécialisé d'après la loi hospitalière de 2018.</p>
<b>Indicateurs associés</b>	P021a : Hospitalisations pour des problèmes cardio-vasculaires – Infarctus aigu du myocarde (IAM)
<b>Source des données</b>	DiSa : 2018-2019 et 2021-2022, Documentation et Classification des Séjours Hospitaliers (DCSH), STATEC, Registre national des personnes physiques (RNPP) Méthodologie : Données administratives
<b>Fréquence d'actualisation de la source</b>	Deux fois par an
<b>Références</b>	<ol style="list-style-type: none"> <li>1. OCDE. Chirurgies cardiaques. 2015. <a href="https://www.oecd-ilibrary.org/social-issues-migration-health/panorama-de-la-sante-2015/chirurgies-cardiaques_health_glance-2015-35-fr">https://www.oecd-ilibrary.org/social-issues-migration-health/panorama-de-la-sante-2015/chirurgies-cardiaques_health_glance-2015-35-fr</a></li> <li>2. Centre interdisciplinaire de Benchmarking Économie et Santé (CIBES), Direction de la santé. Projet de documentation et de classification des séjours hospitaliers. 2020.</li> <li>3. OCDE. Healthcare Quality and Outcomes (HCQO) indicators 2022-2023 Definitions. 2024. <a href="https://www.oecd.org/els/health-systems/Definitions-of-Health-Care-Quality-Outcomes.pdf">https://www.oecd.org/els/health-systems/Definitions-of-Health-Care-Quality-Outcomes.pdf</a></li> </ol>
<b>Détails méthodologiques</b>	<p>Liste des codes ICD-10-PCS inclus :</p> <ul style="list-style-type: none"> <li>• 0210083: <i>Bypass Coronary Artery, One Artery from Coronary Artery with Zooplasic Tissue, Open Approach</i></li> <li>• 0210088: <i>Bypass Coronary Artery, One Artery from Right Internal Mammary with Zooplasic Tissue, Open Approach</i></li> <li>• 0210089: <i>Bypass Coronary Artery, One Artery from Left Internal Mammary with Zooplasic Tissue, Open Approach</i></li> <li>• 021008C: <i>Bypass Coronary Artery, One Artery from Thoracic Artery with Zooplasic Tissue, Open Approach</i></li> <li>• 021008F: <i>Bypass Coronary Artery, One Artery from Abdominal Artery with Zooplasic Tissue, Open Approach</i></li> </ul>

- 021008W: *Bypass Coronary Artery, One Artery from Aorta with Zooplastic Tissue, Open Approach*
- 0210093: *Bypass Coronary Artery, One Artery from Coronary Artery with Autologous Venous Tissue, Open Approach*
- 0210098: *Bypass Coronary Artery, One Artery from Right Internal Mammary with Autologous Venous Tissue, Open Approach*
- 0210099: *Bypass Coronary Artery, One Artery from Left Internal Mammary with Autologous Venous Tissue, Open Approach*
- 021009C: *Bypass Coronary Artery, One Artery from Thoracic Artery with Autologous Venous Tissue, Open Approach*
- 021009F: *Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Venous Tissue, Open Approach*
- 021009W: *Bypass Coronary Artery, One Artery from Aorta with Autologous Venous Tissue, Open Approach*
- 02100A3: *Bypass Coronary Artery, One Artery from Coronary Artery with Autologous Arterial Tissue, Open Approach*
- 02100A8: *Bypass Coronary Artery, One Artery from Right Internal Mammary with Autologous Arterial Tissue, Open Approach*
- 02100A9: *Bypass Coronary Artery, One Artery from Left Internal Mammary with Autologous Arterial Tissue, Open Approach*
- 02100AC: *Bypass Coronary Artery, One Artery from Thoracic Artery with Autologous Arterial Tissue, Open Approach*
- 02100AF: *Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Arterial Tissue, Open Approach*
- 02100AW: *Bypass Coronary Artery, One Artery from Aorta with Autologous Arterial Tissue, Open Approach*
- 02100J3: *Bypass Coronary Artery, One Artery from Coronary Artery with Synthetic Substitute, Open Approach*
- 02100J8: *Bypass Coronary Artery, One Artery from Right Internal Mammary with Synthetic Substitute, Open Approach*
- 02100J9: *Bypass Coronary Artery, One Artery from Left Internal Mammary with Synthetic Substitute, Open Approach*
- 02100JC: *Bypass Coronary Artery, One Artery from Thoracic Artery with Synthetic Substitute, Open Approach*
- 02100JF: *Bypass Coronary Artery, One Artery from Abdominal Artery with Synthetic Substitute, Open Approach*
- 02100JW: *Bypass Coronary Artery, One Artery from Aorta with Synthetic Substitute, Open Approach*
- 02100K3: *Bypass Coronary Artery, One Artery from Coronary Artery with Nonautologous Tissue Substitute, Open Approach*
- 02100K8: *Bypass Coronary Artery, One Artery from Right Internal Mammary with Nonautologous Tissue Substitute, Open Approach*
- 02100K9: *Bypass Coronary Artery, One Artery from Left Internal Mammary with Nonautologous Tissue Substitute, Open Approach*
- 02100KC: *Bypass Coronary Artery, One Artery from Thoracic Artery with Nonautologous Tissue Substitute, Open Approach*
- 02100KF: *Bypass Coronary Artery, One Artery from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach*
- 02100KW: *Bypass Coronary Artery, One Artery from Aorta with Nonautologous Tissue Substitute, Open Approach*
- 02100Z3: *Bypass Coronary Artery, One Artery from Coronary Artery, Open Approach*
- 02100Z8: *Bypass Coronary Artery, One Artery from Right Internal Mammary, Open Approach*
- 02100Z9: *Bypass Coronary Artery, One Artery from Left Internal Mammary, Open Approach*

- 02100ZC: *Bypass Coronary Artery, One Artery from Thoracic Artery, Open Approach*
- 02100ZF: *Bypass Coronary Artery, One Artery from Abdominal Artery, Open Approach*
- 0211083: *Bypass Coronary Artery, Two Arteries from Coronary Artery with Zooplasic Tissue, Open Approach*
- 0211088: *Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Zooplasic Tissue, Open Approach*
- 0211089: *Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Zooplasic Tissue, Open Approach*
- 021108C: *Bypass Coronary Artery, Two Arteries from Thoracic Artery with Zooplasic Tissue, Open Approach*
- 021108F: *Bypass Coronary Artery, Two Arteries from Abdominal Artery with Zooplasic Tissue, Open Approach*
- 021108W: *Bypass Coronary Artery, Two Arteries from Aorta with Zooplasic Tissue, Open Approach*
- 0211093: *Bypass Coronary Artery, Two Arteries from Coronary Artery with Autologous Venous Tissue, Open Approach*
- 0211098: *Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Autologous Venous Tissue, Open Approach*
- 0211099: *Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Autologous Venous Tissue, Open Approach*
- 021109C: *Bypass Coronary Artery, Two Arteries from Thoracic Artery with Autologous Venous Tissue, Open Approach*
- 021109F: *Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Venous Tissue, Open Approach*
- 021109W: *Bypass Coronary Artery, Two Arteries from Aorta with Autologous Venous Tissue, Open Approach*
- 02110A3: *Bypass Coronary Artery, Two Arteries from Coronary Artery with Autologous Arterial Tissue, Open Approach*
- 02110A8: *Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Autologous Arterial Tissue, Open Approach*
- 02110A9: *Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Autologous Arterial Tissue, Open Approach*
- 02110AC: *Bypass Coronary Artery, Two Arteries from Thoracic Artery with Autologous Arterial Tissue, Open Approach*
- 02110AF: *Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Arterial Tissue, Open Approach*
- 02110AW: *Bypass Coronary Artery, Two Arteries from Aorta with Autologous Arterial Tissue, Open Approach*
- 02110J3: *Bypass Coronary Artery, Two Arteries from Coronary Artery with Synthetic Substitute, Open Approach*
- 02110J8: *Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Synthetic Substitute, Open Approach*
- 02110J9: *Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Synthetic Substitute, Open Approach*
- 02110JC: *Bypass Coronary Artery, Two Arteries from Thoracic Artery with Synthetic Substitute, Open Approach*
- 02110JF: *Bypass Coronary Artery, Two Arteries from Abdominal Artery with Synthetic Substitute, Open Approach*
- 02110JW: *Bypass Coronary Artery, Two Arteries from Aorta with Synthetic Substitute, Open Approach*
- 02110K3: *Bypass Coronary Artery, Two Arteries from Coronary Artery with Nonautologous Tissue Substitute, Open Approach*
- 02110K8: *Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Open Approach*

	<ul style="list-style-type: none"> <li>• 02110K9: <i>Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Open Approach</i></li> <li>• 02110KC: <i>Bypass Coronary Artery, Two Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Open Approach</i></li> <li>• 02110KF: <i>Bypass Coronary Artery, Two Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach</i></li> <li>• 02110KW: <i>Bypass Coronary Artery, Two Arteries from Aorta with Nonautologous Tissue Substitute, Open Approach</i></li> <li>• 02110Z3: <i>Bypass Coronary Artery, Two Arteries from Coronary Artery, Open Approach</i></li> <li>• 02110Z8: <i>Bypass Coronary Artery, Two Arteries from Right Internal Mammary, Open Approach</i></li> <li>• 02110Z9: <i>Bypass Coronary Artery, Two Arteries from Left Internal Mammary, Open Approach</i></li> <li>• 02110ZC: <i>Bypass Coronary Artery, Two Arteries from Thoracic Artery, Open Approach</i></li> <li>• 02110ZF: <i>Bypass Coronary Artery, Two Arteries from Abdominal Artery, Open Approach</i></li> <li>• 0212083: <i>Bypass Coronary Artery, Three Arteries from Coronary Artery with Zooplastic Tissue, Open Approach</i></li> <li>• 0212088: <i>Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Zooplastic Tissue, Open Approach</i></li> <li>• 0212089: <i>Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Zooplastic Tissue, Open Approach</i></li> <li>• 021208C: <i>Bypass Coronary Artery, Three Arteries from Thoracic Artery with Zooplastic Tissue, Open Approach</i></li> <li>• 021208F: <i>Bypass Coronary Artery, Three Arteries from Abdominal Artery with Zooplastic Tissue, Open Approach</i></li> <li>• 021208W: <i>Bypass Coronary Artery, Three Arteries from Aorta with Zooplastic Tissue, Open Approach</i></li> <li>• 0212093: <i>Bypass Coronary Artery, Three Arteries from Coronary Artery with Autologous Venous Tissue, Open Approach</i></li> <li>• 0212098: <i>Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Autologous Venous Tissue, Open Approach</i></li> <li>• 0212099: <i>Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Autologous Venous Tissue, Open Approach</i></li> <li>• 021209C: <i>Bypass Coronary Artery, Three Arteries from Thoracic Artery with Autologous Venous Tissue, Open Approach</i></li> <li>• 021209F: <i>Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Venous Tissue, Open Approach</i></li> <li>• 021209W: <i>Bypass Coronary Artery, Three Arteries from Aorta with Autologous Venous Tissue, Open Approach</i></li> <li>• 02120A3: <i>Bypass Coronary Artery, Three Arteries from Coronary Artery with Autologous Arterial Tissue, Open Approach</i></li> <li>• 02120A8: <i>Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Autologous Arterial Tissue, Open Approach</i></li> <li>• 02120A9: <i>Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Autologous Arterial Tissue, Open Approach</i></li> <li>• 02120AC: <i>Bypass Coronary Artery, Three Arteries from Thoracic Artery with Autologous Arterial Tissue, Open Approach</i></li> <li>• 02120AF: <i>Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Arterial Tissue, Open Approach</i></li> <li>• 02120AW: <i>Bypass Coronary Artery, Three Arteries from Aorta with Autologous Arterial Tissue, Open Approach</i></li> <li>• 02120J3: <i>Bypass Coronary Artery, Three Arteries from Coronary Artery with Synthetic Substitute, Open Approach</i></li> </ul>
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	<ul style="list-style-type: none"> <li>• 02120J8: <i>Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Synthetic Substitute, Open Approach</i></li> <li>• 02120J9: <i>Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Synthetic Substitute, Open Approach</i></li> <li>• 02120JC: <i>Bypass Coronary Artery, Three Arteries from Thoracic Artery with Synthetic Substitute, Open Approach</i></li> <li>• 02120JF: <i>Bypass Coronary Artery, Three Arteries from Abdominal Artery with Synthetic Substitute, Open Approach</i></li> <li>• 02120JW: <i>Bypass Coronary Artery, Three Arteries from Aorta with Synthetic Substitute, Open Approach</i></li> <li>• 02120K3: <i>Bypass Coronary Artery, Three Arteries from Coronary Artery with Nonautologous Tissue Substitute, Open Approach</i></li> <li>• 02120K8: <i>Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Open Approach</i></li> <li>• 02120K9: <i>Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Open Approach</i></li> <li>• 02120KC: <i>Bypass Coronary Artery, Three Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Open Approach</i></li> <li>• 02120KF: <i>Bypass Coronary Artery, Three Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach</i></li> <li>• 02120KW: <i>Bypass Coronary Artery, Three Arteries from Aorta with Nonautologous Tissue Substitute, Open Approach</i></li> <li>• 02120Z3: <i>Bypass Coronary Artery, Three Arteries from Coronary Artery, Open Approach</i></li> <li>• 02120Z8: <i>Bypass Coronary Artery, Three Arteries from Right Internal Mammary, Open Approach</i></li> <li>• 02120Z9: <i>Bypass Coronary Artery, Three Arteries from Left Internal Mammary, Open Approach</i></li> <li>• 02120ZC: <i>Bypass Coronary Artery, Three Arteries from Thoracic Artery, Open Approach</i></li> <li>• 02120ZF: <i>Bypass Coronary Artery, Three Arteries from Abdominal Artery, Open Approach</i></li> <li>• 0213083: <i>Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Zooplastic Tissue, Open Approach</i></li> <li>• 0213088: <i>Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Zooplastic Tissue, Open Approach</i></li> <li>• 0213089: <i>Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Zooplastic Tissue, Open Approach</i></li> <li>• 021308C: <i>Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Zooplastic Tissue, Open Approach</i></li> <li>• 021308F: <i>Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Zooplastic Tissue, Open Approach</i></li> <li>• 021308W: <i>Bypass Coronary Artery, Four or More Arteries from Aorta with Zooplastic Tissue, Open Approach</i></li> <li>• 0213093: <i>Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Autologous Venous Tissue, Open Approach</i></li> <li>• 0213098: <i>Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Autologous Venous Tissue, Open Approach</i></li> <li>• 0213099: <i>Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Autologous Venous Tissue, Open Approach</i></li> <li>• 021309C: <i>Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Autologous Venous Tissue, Open Approach</i></li> <li>• 021309F: <i>Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Venous Tissue, Open Approach</i></li> </ul>
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- 021309W: *Bypass Coronary Artery, Four or More Arteries from Aorta with Autologous Venous Tissue, Open Approach*
- 02130A3: *Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Autologous Arterial Tissue, Open Approach*
- 02130A8: *Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Autologous Arterial Tissue, Open Approach*
- 02130A9: *Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Autologous Arterial Tissue, Open Approach*
- 02130AC: *Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Autologous Arterial Tissue, Open Approach*
- 02130AF: *Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Arterial Tissue, Open Approach*
- 02130AW: *Bypass Coronary Artery, Four or More Arteries from Aorta with Autologous Arterial Tissue, Open Approach*
- 02130J3: *Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Synthetic Substitute, Open Approach*
- 02130J8: *Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Synthetic Substitute, Open Approach*
- 02130J9: *Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Synthetic Substitute, Open Approach*
- 02130JC: *Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Synthetic Substitute, Open Approach*
- 02130JF: *Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Synthetic Substitute, Open Approach*
- 02130JW: *Bypass Coronary Artery, Four or More Arteries from Aorta with Synthetic Substitute, Open Approach*
- 02130K3: *Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Nonautologous Tissue Substitute, Open Approach*
- 02130K8: *Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Open Approach*
- 02130K9: *Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Open Approach*
- 02130KC: *Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Open Approach*
- 02130KF: *Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach*
- 02130KW: *Bypass Coronary Artery, Four or More Arteries from Aorta with Nonautologous Tissue Substitute, Open Approach*
- 02130Z3: *Bypass Coronary Artery, Four or More Arteries from Coronary Artery, Open Approach*
- 02130Z8: *Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary, Open Approach*
- 02130Z9: *Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary, Open Approach*
- 02130ZC: *Bypass Coronary Artery, Four or More Arteries from Thoracic Artery, Open Approach*
- 02130ZF: *Bypass Coronary Artery, Four or more Arteries from Abdominal Artery, Open Approach*