**Project Title:** A retrospective study analyzing the risk factors for post-operative gastrointestinal complications after coronary artery bypass graft (CABG)

The following changes were made after the SOW call: built two populations (GI pop changed to include codes confirmed on 6/11), added to lab and vitals dataset, added notes and clinical location datasets.

**PI**: Aidan Charles/ oxc6456 **Project #**:3379

**Hospital**: Ocala **Division**: NFL

**Scope**: Enterprise NFL, FWD, SAT **Research Director**: Katy Robinson/ EOJ5704

**Date Range**: 1/01/2016-1/01/2021 1/01/2018-1/01/2021 **Stats: No**

**Other PIs/34IDs**: Darwin Ang/ mwi8649

**Age Range**: 45 and older

**Min Pop:** 2793

**Research objective:** The objective is to be able to predict patients who are most likely to develop post-operative complications and produce treatment strategies.

**Data Elements:**

Encounters Length of Stay, Location, Age, Mortality

Demographics Gender, Race, Ethnicity

Diagnoses Vascular disorders, gastrointestinal disorders, etc.

Labs Hemoglobin, Platelets, Ferritin

Procedures CABG, number of vessels bypassed,

Surgery Day of surgery, operative time, ASA

EBL Blood loss

Vitals Heart rate, blood pressure

**Operative report** Clamp time, bypass time, blood loss

**Inclusions**:

Patients 45 and older who underwent CABG

**Exclusions**:

History of inflammable bowel disease

**Datasets Needed**:

Encounters

Demographics

Diagnoses

Labs Hemoglobin, Platelets, Ferritin

Procedures

Surgery

EBL Blood loss

Vitals Heart rate, blood pressure

**SOW** **Questions/Notes**:

|  |  |
| --- | --- |
| 02100AF | BYPASS CORONARY ARTERY, ONE ARTERY FROM ABDOMINAL ARTERY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 021009F | BYPASS CORONARY ARTERY, ONE ARTERY FROM ABDOMINAL ARTERY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 02100ZF | BYPASS CORONARY ARTERY, ONE ARTERY FROM ABDOMINAL ARTERY, OPEN APPROACH |
| 02104AW | BYPASS CORONARY ARTERY, ONE ARTERY FROM AORTA WITH AUTOLOGOUS ARTERIAL TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 021049W | BYPASS CORONARY ARTERY, ONE ARTRY FROM AORTA WITH AUTOLOGOUS VENOUS TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02104KW | BYPASS CORONARY ARTERY, ONE ARTERY FROM AORTA WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02100AW | BYPASS CORONARY ARTERY, ONE ARTERY FROM AORTA WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 021009W | BYPASS CORONARY ARTERY, ONE ARTERY FROM AORTA WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 02100KW | BYPASS CORONARY ARTERY, ONE ARTERY FROM AORTA WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH |
| 02100JW | BYPASS CORONARY ARTERY, ONE ARTERY FROM AORTA WITH SYNTHETIC SUBSTITUTE, OPEN APPROACH |
| 021008W | BYPASS CORONARY ARTRY, ONE ARTERY FROM AORTA WITH ZOOPLASTIC TISSUE, OPEN APPROACH |
| 02104A3 | BYPASS CORONARY ARTERY, ONE ARTERY FROM CORONARY ARTERY WITH AUTOLOGOUS ARTERIAL TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 0210493 | BYPASS CORONARY ARTERY, ONE ARTERY FROM CORONARY ARTERY WITH AUTOLOGOUS VENOUS TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02104K3 | BYPASS CORONARY ARTERY, ONE ARTERY FROM CORONARY ARTERY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02100A3 | BYPASS CORONARY ARTERY, ONE ARTERY FROM CORONARY ARTERY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 0210093 | BYPASS CORONARY ARTERY, ONE ARTERY FROM CORONARY ARTERY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 02100K3 | BYPASS CORONARY ARTREY, ONE ARTERY FROM CORONARY ARTERY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH |
| 02100J3 | BYPASS CORONARY ARTERY, ONE ARTERY FROM CORONARY ARTERY WITH SYNTHETIC SUBSTITUTE, OPEN APPROACH |
| 02100Z3 | BYPASS CORONARY ARTERY, ONE ARTERY FROM CORONARY ARTERY, OPEN APPROACH |
| 02104Z3 | BYPASS CORONARY ARTERY, ONE ARTERY FROM CORONARY ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 0210083 | BYPASS CORONARY ARTERY, ONE ARTERY FROM CORONARY ARTERY WITH ZOOPLASTIC TISSUE, OPEN APPROACH |
| 02103D4 | BYPASS CORONARY ARTERY, ONE ARTERY FROM CORONARY VEIN WITH INTRALUMINAL DEVICE, PERCUTANEOUS APPROACH |
| 02104D4 | BYPASS CORONARY ARTERY, ONE ARTERY FROM CORONARY VEIN WITH INTRALUMINAL DEVICE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02100A9 | BYPASS CORONARY ARTERY, ONE ARTERY FROM LEFT INTERNAL MAMMARY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 02104A9 | BYPASS CORONARY ARTERY, ONE ARTERY FROM LEFT INTERNAL MAMMARY WITH AUTOLOGOUS ARTERIAL TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 0210099 | BYPASS CORONARY ARTERY, ONE ARTERY FROM LEFT INTERNAL MAMMARY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 0210499 | BYPASS CORONARY ARTERY, ONE ARTERY FROM LEFT INTERNAL MAMMARY WITH AUTOLOGOUS VENOUS TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02100K9 | BYPASS CORONARY ARTERY, ONE ARTERY FROM LEFT INTERNAL MAMMARY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH |
| 02104K9 | BYPASS CORONARY ARTERY, ONE ARTERY FROM LEFT INTERNAL MAMMARY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02100J9 | BYPASS CORONARY ARTERY, ONE ARTERY FROM LEFT INTERNAL MAMMARY WITH SYNTHETIC SUBSTITUTE, OPEN APPROACH |
| 0210089 | BYPASS CORONARY ARTERY, ONE ARTREY FROM LEFT INTERNAL MAMMARY WITH ZOOPLASTIC TISSUE, OPEN APPROACH |
| 0210489 | BYPASS CORONARY ARTERY, ONE ARTERY FROM LEFT INTERNAL MAMMARY WITH ZOOPLASTIC TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02100Z9 | BYPASS CORONARY ARTERY, ONE ARTERY FROM LEFT INTERNAL MAMMARY, OPEN APPROACH |
| 02104Z9 | BYPASS CORONARY ARTERY, ONE ARTERY FROM LEFT INTERNAL MAMMARY, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02100A8 | BYPASS CORONARY ARTERY, ONE ARTERY FROM RIGHT INTERNAL MAMMARY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 02104A8 | BYPASS CORONARY ARTERY, ONE ARTERY FROM RIGHT INTERNAL MAMMARY WITH AUTOLOGOUS ARTERIAL TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 0210098 | BYPASS CORONARY ARTERY, ONE ARTERY FROM RIGHT INTERNAL MAMMARY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 0210498 | BYPASS CORONARY ARTERY, ONE ARTERY FROM RIGHT INTERNAL MAMMARY WITH AUTOLOGOUS VENOUS TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02100K8 | BYPASS CORONARY ARTERY, ONE ARTERY FROM RIGHT INTERNAL MAMMARY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH |
| 0210488 | BYPASS CORONARY ARTERY, ONE ARTERY FROM RIGHT INTERNAL MAMMARY WITH ZOOPLASTIC TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02100Z8 | BYPASS CORONARY ARTERY, ONE ARTERY FROM RIGHT INTERNAL MAMMARY, OPEN APPROACH |
| 02104Z8 | BYPASS CORONARY ARTERY, ONE ARTERY FROM RIGHT INTERNAL MAMMARY, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 021049C | BYPASS CORONARY ARTERY, ONE ARTERY FROM THORACIC ARTERY WITH AUTOLOGOUS VENOUS TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02100KC | BYPASS CORONARY ARTERY, ONE ARTERY FROM THORACIC ARTERY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APROACH |
| 02104KC | BYPASS CORONARY ARTERY, ONE ARTERY FROM THORACIC ARTERY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 021008C | BYPASS CORONARY ARTRERY, ONE ARTERY FROM THORACIC ARTERY WITH ZOOPLASTIC TISSUE, OPEN APPROACH |
| 02100AC | BYPASS CORONARY ARTERY, ONE ARTERY FROM THORACIC ARTERY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 021009C | BYPASS CORONARY ARTERY, ONE ARTERY FROM THORACIC ARTERY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 02100ZC | BYPASS CORONARY ARTERY, ONE ARTERY FROM THORACIC ARTERY, OPEN APPROACH |
| 02104ZC | BYPASS CORONARY ARTERY, ONE ARTERY FROM THORACIC ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02114AF | BYPASS CORONARY ARTERY, TWO ARTERIES FROM ABDOMINAL ARTERY WITH AUTOLOGOUS ARTERIAL TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02110AF | BYPASS CORONARY ARTERY, TWO ARTERIES FROM ABDOMINAL ARTERY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 021109F | BYPASS CORONARY ARTERY, TWO ARTERIES FROM ABDOMINAL ARTERY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 02114AW | BYPASS CORONARY ARTERY, TWO ARTERIES FROM AORTA WITH AUTOLOGOUS ARTERIAL TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 021149W | BYPASS CORONARY ARTERY, TWO ARTERIES FROM AORTA WITH AUTOLOGOUS VENOUS TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02110AW | BYPASS CORONARY ARTERY, TWO ARTERIES FROM AORTA WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 021109W | BYPASS CORONARY ARTERY, TWO ARTERIES FROM AORTA WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 02110KW | BYPASS CORONARY ARTERY, TWO ARTERIES FROM AORTA WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH |
| 021108W | BYPASS CORONARY ARTERY, TWO ARTERIES FROM AORTA WITH ZOOPLASTIC TISSUE, OPEN APPROACH |
| 02114A3 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM CORONARY ARTERY WITH AUTOLOGOUS ARTERIAL TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 0211493 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM CORONARY ARTERY WITH AUTOLOGOUS VENOUS TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 0211483 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM CORONARY ARTERY WITH ZOOPLASTIC TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02110A3 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM CORONARY ARTERY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 0211093 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM CORONARY ARTERY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 02110K3 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM CORONARY ARTERY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH |
| 0211083 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM CORONARY ARTERY WITH ZOOPLASTIC TISSUE, OPEN APPROACH |
| 02110Z3 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM CORONARY ARTERY, OPEN APPROACH |
| 02114Z3 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM CORONARY ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02113D4 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM CORONARY VEIN WITH INTRALUMINAL DEVICE, PERCUTANEOUS APPROACH |
| 02114D4 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM CORONARY VEIN WITH INTRALUMINAL DEVICE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02110A9 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM LEFT INTERNAL MAMMARY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 02114A9 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM LEFT INTERNAL MAMMARY WITH AUTOLOGOUS ARTERIAL TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 0211099 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM LEFT INTERNAL MAMMARY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 0211499 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM LEFT INTERNAL MAMMARY WITH AUTOLOGOUS VENOUS TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02110K9 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM LEFT INTERNAL MAMMARY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH |
| 0211489 | BYPASS CORONARY ARTERY, TWO ARTRIES FROM LEFT INTRNA MAMMARY WITH ZOOPLASTIC TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02110Z9 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM LEFT INTERNAL MAMMARY, OPEN APPROACH |
| 02114Z9 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM LEFT INTERNAL MAMMARY, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02110A8 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM RIGHT INTERNAL MAMMARY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 0211098 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM RIGHT INTERNAL MAMMARY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 0211498 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM RIGHT INTERNAL MAMMARY WITH AUTOLOGOUS VENOUS TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02110K8 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM RIGHT INTERNAL MAMMARY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH |
| 0211088 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM RIGHT INTERNAL MAMMARY WITH ZOOPLASTIC TISSUE, OPEN APPROACH |
| 02110Z8 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM RIGHT INTERNAL MAMMARY, OPEN APPROACH |
| 02114Z8 | BYPASS CORONARY ARTERY, TWO ARTERIES FROM RIGHT INTERNAL MAMMARY, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 021149C | BYPASS CORONARY ARTERY, TWO ARTERIES FROM THORACIC ARTERY WITH AUTOLOGOUS VENOUS TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02110AC | BYPASS CORONARY ARTERY, TWO ARTERIES FROM THORACIC ARTERY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 021109C | BYPASS CORONARY ARTERY, TWO ARTERIES FROM THORACIC ARTERY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 02110ZC | BYPASS CORONARY ARTERY, TWO ARTERIES FROM THORACIC ARTERY, OPEN APPROACH |
| 02114ZC | BYPASS CORONARY ARTERY, TWO ARTERIES FROM THORACIC ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02120AF | BYPASS CORONARY ARTERY, THREE ARTERIES FROM ABDOMINAL ARTERY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 021209F | BYPASS CORONARY ARTERY, THREE ARTERIES FROM ABDOMINAL ARTERY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 02120KF | BYPASS CORONARY ARTERY, THREE ARTERIES FROM ABDOMINAL ARTERY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH |
| 02124AW | BYPASS CORONARY ARTERY, THREE ARTERIES FROM AORTA WITH AUTOLOGOUS ARTERIAL TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 021249W | BYPASS CORONARY ARTERY, THREE ARTERIES FROM AORTA WITH AUTOLOGOUS VENOUS TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02120AW | BYPASS CORONARY ARTERY, THREE ARTERIES FROM AORTA WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 021209W | BYPASS CORONARY ARTERY, THREE ARTERIES FROM AORTA WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 02120KW | BYPASS CORONARY ARTERY, THREE ARTERIES FROM AORTA WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH |
| 021208W | BYPASS CORONARY ARTERY, THREE ARTERIES FROM AORTA WITH ZOOPLASTIC TISSUE, OPEN APPROACH |
| 02124A3 | BYPASS CORONARY ARTERY, THREE ARTERIES FROM CORONARY ARTERY WITH AUTOLOGOUS ARTERIAL TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 0212493 | BYPASS CORONARY ARTERY, THREE ARTERIES FROM CORONARY ARTERY, WITH AUTOLOGOUS VENOUS TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02120A3 | BYPASS CORONARY ARTERY, THREE ARTERIES FROM CORONARY ARTERY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 0212093 | BYPASS CORONARY ARTERY, THREE ARTERIES FROM CORONARY ARTERY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 02120K3 | BYPASS CORONARY ARTERY, THREE ARTERIES FROM CORONARY ARTERY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH |
| 02120J3 | BYPASS CORONARY ARTERY, THREE ARTERIES FROM CORONARY ARTERY WITH SYNTHETIC SUBSTITUTE, OPEN APPROACH |
| 0212083 | BYPASS CORONARY ARTERY, THREE ARTERIES FROM CORONARY ARTERY WITH ZOOPLASTIC TISSUE, OPEN APPROACH |
| 02120Z3 | BYPASS CORONARY ARTERY, THREE ARTERIES FROM CORONARY ARTERY, OPEN APPROACH |
| 02124Z3 | BYPASS CORONARY ARTERY, THREE ARTERIES FROM CORONARY ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02123D4 | BYPASS CORONARY ARTERY, THREE ARTERIES FROM CORONARY VEIN WITH INTRALUMINAL DEVICE, PERCUTANEOUS APPROACH |
| 02120A9 | BYPASS CORONARY ARTERY, THREE ARTERIES FROM LEFT INTERNAL MAMMARY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 0212099 | BYPASS CORONARY ARTERY, TRHEE ARTERIES FROM LEFT INTERNAL MAMMARY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 0212499 | BYPASS CORONARY ARTERY, THREE ARTERIES FROM LEFT INTERNAL MAMMARY WITH AUTOLOGOUS VENOUS TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02120K9 | BYPASS CORONARY ARTERY, THREE ARTERIES FROM LEFT INTERNAL MAMMARY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH |
| 0212089 | BYPASS CORONARY ARTERY, THREE ARTERIES FROM LEFT INTERNAL MAMMARY WITH ZOOPLASTIC TISSUE, OPEN APPROACH |
| 02120Z9 | BYPASS CORONARY ARTERY, THREE ARTERIES FROM LEFT INTERNAL MAMMARY, OPEN APPROACH |
| 02124Z9 | BYPASS CORONARY ARTERY, THREE ARTERIES FROM LEFT INTERNAL MAMMARY, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02120A8 | BYPASS CORONARY ARTERY, THREE ARTERIES FROM RIGHT INTERNAL MAMMARY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 0212098 | BYPASS CORONARY ARTERY, THREE ARTERIES FROM RIGHT INTERNAL MAMMARY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 02120K8 | BYPASS CORONARY ARTERY, THREE ARTERIES FROM RIGHT INTERNAL MAMMARY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH |
| 02120Z8 | BYPASS CORONARY ARTERY, THREE ARTERIES FROM RIGHT INTERNAL MAMMARY, OPEN APPROACH |
| 02120AC | BYPASS CORONARY ARTERY, THREE ARTERIES FROM THORACIC ARTERY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 021209C | BYPASS CORONARY ARTERY, THREE ARTERIES FROM THORACIC ARTERY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 02120ZC | BYPASS CORONARY ARTERY, THREE ARTERIES FROM THORACIC ARTERY, OPEN APPROACH |
| 02130AF | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM ABDOMINAL ARTERY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 021309F | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM ABDOMINAL ARTERY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 02134AW | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM AORTA WITH AUTOLOGOUS ARTERIAL TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 021349W | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM AORTA WITH AUTOLOGOUS VENOUS TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02134KW | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM AORTA WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02130AW | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM AORTA WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 021309W | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM AORTA WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 02130KW | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM AORTA WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH |
| 02134A3 | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM CORONARY ARTERY WITH AUTOLOGOUS ARTERIAL TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 0213493 | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM CORONARY ARTERY WITH AUTOLOGOUS VENOUS TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02130K3 | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM CORONARY ARTERY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH |
| 0213483 | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM CORONARY ARTERY WITH ZOOPLASTIC TISSU, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02130A3 | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM CORONARY ARTERY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 0213093 | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM CORONARY ARTERY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 02130J3 | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM CORONARY ARTERY WITH SYNTHETIC SUBSTITUTE, OPEN APPROACH |
| 02130Z3 | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM CORONARY ARTERY, OPEN APPROACH |
| 02134Z3 | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM CORONARY ARTERY, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02130A9 | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM LEFT INTERNAL MAMMARY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 02134A9 | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM LEFT INTERNAL MAMMARY WITH AUTOLOGOUS ARTERIAL TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 0213099 | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM LEFT INTERNAL MAMMARY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 0213499 | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM LEFT INTERNAL MAMMARY WITH AUTOLOGOUS VENOUS TISSUE, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02130K9 | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM LEFT INTERNAL MAMMARY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH |
| 0213089 | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM LEFT INTERNAL MAMMARY WITH ZOOPLASTIC TISSUE, OPEN APPROACH |
| 02130Z9 | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM LEFT INTERNAL MAMMARY, OPEN APPROACH |
| 02134Z9 | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM LEFT INTERNAL MAMMARY, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 0213098 | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM RIGHT INTERNAL MAMMARY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |
| 02130Z8 | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM RIGHT INTERNAL MAMMARY, OPEN APPROACH |
| 02134Z8 | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM RIGHT INTERNAL MAMMARY, PERCUTANEOUS ENDOSCOPIC APPROACH |
| 02130AC | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM THORACIC ARTERY WITH AUTOLOGOUS ARTERIAL TISSUE, OPEN APPROACH |
| 02130KC | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM THORACIC ARTERY WITH NONAUTOLOGOUS TISSUE SUBSTITUTE, OPEN APPROACH |
| 021309C | BYPASS CORONARY ARTERY, FOUR OR MORE ARTERIES FROM THROACIC ARTERY WITH AUTOLOGOUS VENOUS TISSUE, OPEN APPROACH |

Provided CPT codes not in use.

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