



Medications Data Dictionary (Vascular Surgery)

Blue Cross Blue Shield of Michigan (BMC2)

Vascular Surgery Registry

Data Collection Definitions

Data Field Definitions.....	3
ACE Inhibitors.....	4
Angiotensin II Receptor Antagonist (ARBs).....	5
Apixaban (Eliquis).....	6
Aspirin	7
Atropine	8
Beta Blockers	9
Bivalirudin (Angiomax).....	10
Calcium Channel Blockers.....	11
Cilostazol (Pletal).....	12
Clopidogrel (Plavix).....	13
Dabigatran (Pradaxa).....	14
Edoxaban (Savaysa).....	15
Fondaparinux (Arixtra)	16
IV Heparin/Unfractionated Heparin	17
IV Nitroglycerin	18
Lactated Ringer's Infusion.....	19
Other Cholesterol Lowering Agents	20
Other Hydration	21
PSCK9 Inhibitor	22
Prasugrel (Effient).....	23
Protamine	24
Rivaroxaban (Xarelto).....	25
Saline Infusion	26
Sodium Bicarbonate Infusion	27
Statins	28
Thiazides	29
Thrombolytics (TPA, TNK, rPA).....	30
Ticagrelor (Brilinta).....	31
Warfarin/Coumadin	32

Data Field Definitions

Data Abstraction Instructions:

Home Medications Prior to Admission?

- Enter Yes if the patient was taking medication in this list before admission. Enter home medications prior to admission for patients who expire before discharge.
- Enter No if the patient was not taking medication in this list before admission.

Medications at Discharge?

- Enter Yes if medication in this list was prescribed or continued at discharge.
- Enter No if medication in this list was not prescribed or was discontinued at discharge.

Medications During Procedure

- Enter Given if the medication was given before, during or after the procedure
 - Pre = from admission or previous procedure until the current procedure.
 - During = medication or fluid that was given from the time the patient enters the room until the time the patient leaves the room
 - Post = medication or fluid that was given after the patient has left the room until discharge or next procedure.
- Enter Not Given if the medication was not given.

Contraindicated

- **Yes** = the patient has an allergy, sensitivity, or adverse reaction to a medication.
- **No** = the patient does not have an allergy, sensitivity, or adverse reaction to a medication.

*For Combination Therapy record as follows:

In case of combination drugs individual components should be recorded, e.g., Zestoretic is a combination of lisinopril (ACE Inhibitor) and hydrochlorothiazide (HCTZ, a Thiazide). Enter answers for both ACE Inhibitor AND Thiazide.

NOTE: Medication lists provided are not all inclusive. If the medication you are looking for is not in this dictionary, go to <https://www.drugs.com/>

Required:

No

ACE Inhibitors

Data Abstraction Instructions:

Record if an ACE Inhibitor was Given, Not Given and/or Contraindicated at admission and/or discharge. Go to [page 3](#) for definitions to data fields.

For Combination Therapy record as follows:

In case of combination drugs individual components should be recorded, e.g., Zestoretic is a combination of lisinopril (ACE Inhibitor) and hydrochlorothiazide (HCTZ, a Thiazide). Enter answers for both ACE Inhibitor AND Thiazide.

NOTE: Medication lists provided are not all inclusive. If the medication you are looking for is not in this dictionary go to <https://www.drugs.com/>

Selections:

ACE Inhibitors

- Given
- Not Given

Contraindicated for ACE Inhibitors

- Yes
- No

Supporting Definitions:

Generic Name	Brand Name
Benazepril	Lotensin
Benazepril + HCTZ *	Lotensin HCT
Benazepril + Amlodipine *	Lotrel
Captopril	Capoten
Captopril + HCTZ *	Capozide
Cilazapril	Inhibace
Cilazapril + HCTZ *	Inhibace Plus
Enalapril	Vasotec, Enalaprilat
Enalapril + HCTZ *	Vaseretic
Enalapril + Felodipine *	Lexxel
Fosinopril	Monopril
Fosinopril + HCTZ *	Monopril HCT
Lisinopril	Zestril, Prinivil
Lisinopril + HCTZ *	Prinzide, Zestoretic
Moexipril	Univasc
Moexipril + HCTZ *	Uniretic
Perindopril	Aceon
Quinapril	Accupril
Quinapril + HCTZ *	Accuretic
Trandolapril	Mavik
Trandolapril + Verapamil *	Tarka

* Denotes a combination medication.

Required:

Yes

Angiotensin II Receptor Antagonist (ARBs)

Data Abstraction Instructions:

Record if an Angiotensin II Receptor Antagonist (ARB) was Given, Not Given and/or Contraindicated at admission and/or discharge. Go to [page 3](#) for definitions to data fields.

For Combination Therapy record as follows: In case of combination drugs individual components should be recorded, e.g., Zestoretic is a combination of lisinopril (ACE Inhibitor) and hydrochlorothiazide (HCTZ, a Thiazide). Enter answers for both ACE Inhibitor AND Thiazide.

NOTE: Medication lists provided are not all inclusive. If the medication you are looking for is not in this dictionary go to <https://www.drugs.com/>

Selections:

Angiotensin II Receptor Antagonist (ARBs)

- Given
- Not Given

Contraindicated for Angiotensin II Receptor Antagonist (ARBs)

- Yes
- No

Supporting Definitions:

Generic Name	Brand Name
Azilsartan	Edarbi
Candesartan	Atacand
Candesartan + HCTZ *	Atacand HCT
Eprosartan	Teveten
Eprosartan + HCTZ *	Teveten HTC
Irbesartan	Avapro
Irbesartan + HCTZ *	Avalide
Losartan	Cozaar
Losartan + HCTZ *	Hyzaar
Olmesartan	Benicar
Olmesartan + Amlodipine *	Azor
Olmesartan + HCTZ *	Benicar HCT
Olmesartan + Amlodipine + HCTZ *	Tribenzor
Telmisartan	Micardis
Telmisartan + HCTZ *	Micardis HCT
Valsartan	Diovan
Valsartan + HCTZ *	Diovan HCT
Valsartan + Amlodipine *	Exforge
Valsartan + Amlodipine + HCTZ *	Exforge HCT

* Denotes a combination medication.

Required:

Yes

Apixaban (Eliquis)

Data Abstraction Instructions:

Record if apixaban (Eliquis) was Given, Not Given and/or Contraindicated at admission and/or discharge. Go to [page 3](#) for definitions to data fields.

Selections:

- Given
- Not Given

Required:

Yes

Apixaban (Eliquis) dose (mg)

Data Abstraction Instructions:

Enter the total dosage documented for apixaban (Eliquis) in milligrams (mg). For example, if apixaban 2.5mg BID is documented, enter 5 mg.

This field will accept decimals.

Selections:

Enter dose in text box (mg)

Required:

Yes

Minimum:

1

Maximum:

300

Aspirin

Data Abstraction Instructions:

Record if an aspirin was Given, Not Given and/or Contraindicated at admission and/or discharge. Also record if aspirin was Given or Not Given before the procedure. Go to [page 3](#) for definitions to data fields.

To enter Yes for aspirin, the minimum dose should be at least 75mg.

Selections:

- Given
 - Pre (on procedure worksheet)
- Not Given
- Contraindicated
 - Yes
 - No

Required:

Yes

Atropine

Data Abstraction Instructions:

Record if atropine was Given or Not Given during a CAS or CEA procedure. Go to [page 3](#) for definitions to data fields.

Selections:

- Given
 - If given, enter During.
- Not Given

Required:

Yes

Beta Blockers

Data Abstraction Instructions:

Record if a Beta Blocker was Given, Not Given and/or Contraindicated at admission and/or discharge. Go to [page 3](#) for definitions to data fields.

For Combination Therapy record as follows: In case of combination drugs individual components should be recorded, e.g., Zestoretic is a combination of lisinopril (ACE Inhibitor) and hydrochlorothiazide (HCTZ, a Thiazide). Enter answers for both ACE Inhibitor AND Thiazide.

NOTE: Medication lists provided are not all inclusive. If the medication you are looking for is not in this dictionary go to <https://www.drugs.com/>

Selections:

- Given
- Not Given
- Contraindicated
 - Yes
 - No

Supporting Definitions:

Generic Name	Brand Name
Acebutolol	Sectral
Atenolol	Tenormin
Atenolol + Chlorthalidone *	Tenoretic
Betaxolol	Kerlone
Bisoprolol	Zebeta
Bisoprolol + HCTZ *	Ziac
Carvedilol	Coreg
Esmolol	Brevibloc
Labetalol	Trandate
Metoprolol	Lopressor, Toprol
Metoprolol + HCTZ *	Lopressor HCT, Dutoprol
Nadolol	Corgard
Nadolol + Bendroflumethiazide *	Corzide
Nebivolol	Bystolic
Penbutolol	Levatol
Pindolol	Visken
Propranolol	Inderal, InnoPran
Propranolol + HCTZ *	Inderide
Timolol	Blocadren
Timolol + HCTZ *	Timolide

* Denotes a combination medication.

Required:

Yes

Bivalirudin (Angiomax)

Data Abstraction Instructions:

Record if bivalirudin (Angiomax) Given or Not Given during the procedure. Go to [page 3](#) for definitions to data fields.

Selections:

- Given
 - If given, enter During.
- Not Given

Required:

Yes

Calcium Channel Blockers

Data Abstraction Instructions:

Record if a Calcium Channel Blocker was Given, Not Given and/or Contraindicated at admission and/or discharge. Go to [page 3](#) for definitions to data fields.

For Combination Therapy record as follows: In case of combination drugs individual components should be recorded, e.g., Zestoretic is a combination of lisinopril (ACE Inhibitor) and hydrochlorothiazide (HCTZ, a Thiazide). Enter answers for both ACE Inhibitor AND Thiazide.

NOTE: Medication lists provided are not all inclusive. If the medication you are looking for is not in this dictionary go to <https://www.drugs.com/>

Selections:

- Given
- Not Given
- Contraindicated
 - Yes
 - No

Supporting Definitions:

Generic Name	Brand Name
Amlodipine	Norvasc
Amlodipine + Atorvastatin *	Caduet
Amlodipine + Benazepril *	Lotrel
Amlodipine + Olmesartan	Azor
Amlodipine + Olmesartan + HCTZ *	Tribenzor
Amlodipine + Telmisartan *	Twynsta
Amlodipine + Valsartan *	Exforge
Clevidipine	Cleviprex
Diltiazem	Cardizem
Diltiazem HCL	Cartia
Felodipine	Plendil
Felodipine + Enalapril *	Lexxel
Isradipine	Dynacirc
Nicardipine	Cardene
Nifedipine	Adalat, Procardia
Nisoldipine	Sular
Verapamil	Calan, Isoptin, Verelan
Verapamil + Trandolapril	Tarka

* Denotes a combination medication.

Required:

Yes

Cilostazol (Pletal)

Data Abstraction Instructions:

Record if cilostazol (Pletal) was Given, Not Given, and/or Contraindicated at admission and/or discharge. Go to [page 3](#) for definitions to data fields.

Selections:

- Given
- Not Given
- Contraindicated
 - Yes
 - No

Required:

Yes

Clopidogrel (Plavix)

Data Abstraction Instructions:

Record if clopidogrel (Plavix) was Given, Not Given, and/or Contraindicated at admission, discharge. Also enter if clopidogrel was given before the procedure and/or during the procedure. Go to [page 3](#) for definitions to data fields.

Selections:

- Given
 - Select all that apply (on procedure worksheet)
- Not Given
- Contraindicated
 - Yes
 - No

Required:

Yes

Dabigatran (Pradaxa)

Data Abstraction Instructions:

Record if dabigatran (Pradaxa) was Given, Not Given, and/or Contraindicated at admission and/or discharge. Go to [page 3](#) for definitions to data fields.

Selections:

- Given
- Not Given
- Contraindicated
 - Yes
 - No

Required:

Yes

Dabigatran (Pradaxa) dose

Data Abstraction Instructions:

Enter the total dosage documented for dabigatran (Pradaxa) in milligrams (mg). For example, if dabigatran 150 mg BID is documented, enter 300 mg.

This field will accept decimals.

Selections:

Enter dose in text box (mg)

Required:

Yes

Minimum:

1

Maximum:

300

Edoxaban (Savaysa)

Data Abstraction Instructions:

Record if edoxaban (Savaysa) was Given or Not Given at admission and/or discharge. Go to [page 3](#) for definitions to data fields.

Selections:

- Given
- Not Given

Required:

Yes

Edoxaban (Savaysa) dose (mg)

Data Abstraction Instructions:

Enter the total dosage documented for edoxaban (Savaysa) in milligrams (mg). For example, if edoxaban 60 mg daily is documented, enter 60 mg.
This field will accept decimals.

Selections:

Enter dose in text box (mg)

Required:

Yes

Minimum:

1

Maximum:

300

Fondaparinux (Arixtra)

Data Abstraction Instructions:

Record if fondaparinux (Arixtra) was Given or Not Given at admission and/or discharge. Go to [page 3](#) for definitions to data fields.

Selections:

- Given
- Not Given

Required:

Yes

IV Heparin/Unfractionated Heparin

Data Abstraction Instructions:

Record if IV heparin/unfractionated heparin was Given before, during and/or after the procedure or Not Given. Go to [page 3](#) for definitions to data fields.

Record Heparin that was administered IV, IC or IA (bolus during the procedure) to the patient. Do not include low dose (unfractionated) heparin given SQ for DVT prophylaxis

Selections:

- Given
 - If given, choose all that apply.
- Not Given

Required:

Yes

IV Nitroglycerin

Data Abstraction Instructions:

Record if Nitrates or IV Nitroglycerin is Given or Not Given during the procedure. Go to [page 3](#) for definitions to data fields. PRN nitroglycerin does not qualify.

Selections:

- Given
 - If given, enter During.
- Not Given

Supporting Definitions:

Generic Name	Brand Name
Isosorbide Dinitrate	Dilatrate SR, Isordil
Isosorbide Dinitrate + Hydralazine *	BiDil
Isosorbide Mononitrate	Imdur, Ismo, Monoket
Nitroglycerin	Nitro-bid, Nitro-Dur
Nitroglycerin Ointment	Nitrol, Nitro-BID
Nitroglycerin: IV infusion	Tridil
Nitroglycerin: Nitrolingual Spray	NitroMist, Nitrolingual
Nitroglycerin: Sublingual	Nitrostat, NitroQuick
Nitroglycerin: Transdermal	Minitran, NitroDur
Nitroglycerin: Transmucosal	Nitroguard

* Denotes a combination medication.

Required:

Yes

Lactated Ringer's Infusion

Data Abstraction Instructions:

Record if a Lactated Ringer's (LR) infusion was Given or Not Given during a procedure. If an LR infusion was administered, enter the timeframe (pre, during, post) and length of the infusion. Go to [page 3](#) for definitions to data fields. LR rate for inclusion is ≥ 50 cc/hr.

Selections:

- ◆ Given
 - Infusion < 1 hour
 - Pre
 - During
 - Post
 - Infusion 1 - 3 hours
 - Pre
 - During
 - Post
 - Infusion ≥ 3 - 6 hours
 - Pre
 - During
 - Post
 - Infusion > 6 hours
 - Pre
 - During
 - Post
- ◆ Not Given

Required:

Yes

Other Cholesterol Lowering Agents

Data Abstraction Instructions:

Record if a cholesterol lowering agent other than a statin or PCSK9 inhibitor was Given or Not Given at admission and/or discharge. Go to [page 3](#) of the VS Medications Dictionary for definitions to data fields.

Record only cholesterol lowering agents that are prescription strength. Do not record over the counter (OTC) medications.

NOTE: Medication lists provided are not all inclusive. If the medication you are looking for is not in this dictionary go to <https://www.drugs.com/>

Selections:

- Given
- Not Given

Supporting Definitions:

Generic Name	Brand Name
Ezetimibe	Zetia
Fenofibrate	Tricor, Antara, Lipofen, Triglide, Lipidil Micro, Lipidil Supra, Lipidil EZ
Fenofibric Acid	Fibricor, TriLipix
Gemfibrozil	Lopid

Required:

Yes

Other Hydration

Data Abstraction Instructions:

Record if fluids for hydration (other than 0.9 NS or LR) were Given or Not given during a procedure. If the infusion was administered, enter the timeframe (pre, during, post) and length of the infusion. Go to [page 3](#) for definitions to datafields.

Rate for inclusion must be ≥ 50 cc/hr.

PlasmaLyte and 0.45% NS are entered under Other Hydration. Include the volume of PlasmaLyte and 0.45% NS in the Total Crystalloids field under Procedure Details.

Selections:

- ◆ Given
 - Infusion < 1 hour
 - Pre
 - During
 - Post
 - Infusion 1 - 3 hours
 - Pre
 - During
 - Post
 - Infusion ≥ 3 - 6 hours
 - Pre
 - During
 - Post
 - Infusion > 6 hours
 - Pre
 - During
 - Post
- ◆ Not Given

Required:

Yes

PSCK9 Inhibitor

Record if a PSCK9 Inhibitor was Given or Not Given at admission and/or discharge. Go to [page 3](#) for definitions to data fields.

NOTE: Medication lists provided are not all inclusive. If the medication you are looking for is not in this dictionary go to <https://www.drugs.com/>

Selections:

- Given
- Not Given

Required:

Yes

Supporting Definition:

Generic Name	Brand Name
evolocumab	Repatha
alirocumab	Praluent

Prasugrel (Effient)

Data Abstraction Instructions:

Record if prasugrel (Effient) was Given, Not Given, and/or Contraindicated at admission and/or discharge. Also record if given before procedure and/or during the procedure. Go to [page 3](#) for definitions to data fields.

Selections:

- Given
 - If given, select all that apply. (on procedure worksheet)
- Not Given
- Contraindicated
 - Yes
 - No

Required:

Yes

Protamine

Data Abstraction Instructions:

Record if Protamine was Given during and/or after the procedure or Not Given. Go to [page 3](#) for definitions to data fields.

Selections:

- Given
 - If given, choose all that apply.
- Not Given

Required:

Yes

Rivaroxaban (Xarelto)

Data Abstraction Instructions:

Record if rivaroxaban (Xarelto) was Given or Not Given at admission and/or discharge. Go to [page 3](#) for definitions to data fields.

Selections:

- Given
- Not Given

Required:

Yes

Rivaroxaban (Xarelto) dose (mg)

Data Abstraction Instructions:

Enter the total dosage documented for rivaroxaban (Xarelto) in milligrams (mg). For example, if rivaroxaban 20 mg daily is documented, enter 20 mg.
This field will accept decimals.

Selections:

Rivaroxaban (Xarelto)

- Given
 - Text box (mg)
- Not Given

Required:

Yes

Minimum:

1

Maximum:

300

Saline Infusion

Data Abstraction Instructions:

Record if a Saline infusion was Given or Not Given during a procedure. If a Saline infusion was administered, enter the timeframe (pre, during, post) and length of the infusion. Go to [page 3](#) for definitions to data fields.

Saline rate for inclusion is ≥ 50 cc/hr. Document an infusion of 0.45% Normal Saline under Other Hydration.

Selections:

- ◆ Given
 - Infusion < 1 hour
 - Pre
 - During
 - Post
 - Infusion 1 - 3 hours
 - Pre
 - During
 - Post
 - Infusion ≥ 3 - 6 hours
 - Pre
 - During
 - Post
 - Infusion > 6 hours
 - Pre
 - During
 - Post
- ◆ Not Given

Required:

Yes

Sodium Bicarbonate Infusion

Data Abstraction Instructions:

Record if a Sodium Bicarbonate infusion was Given or Not Given before, during, and/or after a procedure. If a sodium bicarbonate infusion was administered, enter the timeframe (pre, during, post) and length of the infusion. Go to [page 3](#) for definitions to data fields.

DO NOT INCLUDE SODIUM BICARBONATE ADMINITERED IN BOLUS DOSES, ONLY IV INFUSION.

Selections:

- Given
 - If given, choose all that apply.
- Not Given

Required:

Yes

Statins

Data Abstraction Instructions:

Record if a Statin was Given, Not Given and/or Contraindicated at admission and/or discharge. Go to [page 3](#) for definitions to data fields.

For Combination Therapy record as follows:

In case of combination drugs individual components should be recorded, e.g., Caduet is a combination of amlodipine and atorvastatin. Enter Given or Not Given for both Calcium Channel Blockers and Statins.

NOTE: Medication lists provided are not all inclusive. If the medication you are looking for is not in this dictionary go to <https://www.drugs.com/>

Selections:

- Given
- Not Given
- Contraindicated
 - Yes
 - No

Supporting Definitions:

Generic Name	Brand Name
Atorvastatin	Lipitor
Atorvastatin + Amlodipine*	Caduet
Cerivastatin	Baycol
Fluvastatin	Lescol
Lovastatin	Mevacor
Lovastatin + Niacin*	Advicor
Pitavastatin	Livalo
Pravastatin	Pravachol
Rosuvastatin	Crestor
Simvastatin	Zocor
Simvastatin + Ezetimibe *	Vytorin
Simvastatin + Niacin *	Simcor

* Denotes a combination medication

Required:

Yes

Thiazides

Data Abstraction Instructions:

Thiazides are a category of diuretics. See the medication list below for examples of thiazide diuretics. Do not enter Loop Diuretics or Potassium Sparing Diuretics in this category.

Record if a Thiazide diuretic was Given, Not Given and/or Contraindicated at admission and/or discharge. Go to [page 3](#) for definitions to data fields.

For Combination Therapy record as follows:

In case of combination drugs individual components should be recorded, e.g., Caduet is a combination of amlodipine and atorvastatin. Enter Given or Not Given for both Calcium Channel Blockers and Statins.

NOTE: Medication lists provided are not all inclusive. If the medication you are looking for is not in this dictionary go to <https://www.drugs.com/>

Selections:

- Given
- Not Given
- Contraindicated
 - Yes
 - No

Supporting Definitions:

Generic Name	Brand Name
bendoflumethiazide	naturetin
chlorothiazide	diuril, diuril sodium
chlorthalidone	hygroton, chlorthalid
chlorthalidone + atenolol *	tenoretic
chlorthalidone + azilsartan medoxomil *	edarbyclor
hydrochlorothiazide (HCTZ)	microzide, hydrodiuril, oretic esidrix, aquazide
hydroflumethiazide	saluron
indapamide	lozol
methyclothiazide	enduron, aquatensen
metolazone	zaroxolyn, mykrox

* Denotes a combination medication.

Required:

Yes

Thrombolytics (TPA, TNK, rPA)

Data Abstraction Instructions:

Record if a thrombolytic (TPA, TNK, rPA, was Given before, during and/or after the procedure or Not Given. Go to [page 3](#) for definitions to data fields.

Selections:

- Given
 - If given, choose all that apply.
- Not Given

Required:

Yes

Ticagrelor (Brilinta)

Data Abstraction Instructions:

Record if ticagrelor (Brilinta) was Given, Not Given, and/or Contraindicated at admission and/or discharge. Also record if ticagrelor was given before the procedure and/or during the procedure or Not Given. Go to [page 3](#) for definitions to data fields.

Selections:

- Given
 - If given, select all that apply Pre (on procedure worksheet)
- Not Given
- Contraindicated
 - Yes
 - No

Required:

Yes

Warfarin/Coumadin

Data Abstraction Instructions:

Record if warfarin (Coumadin) was Given or Not Given at admission and/or discharge. Go to [page 3](#) for definitions to data fields.

Selections:

- Given
- Not Given

Required:

Yes