

F231

**Hemodialysis Fistula Maturation Study (HFM/MANVAS Studies)
Details of the Surgery Form (Form # 231)**

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1. Identification Number PID 2. Alphacode AC 3. Visit Number VIST 4. Date of Access Surgery: mm/dd/yyyy VISIT_DT

Physicians

5. a. Attending surgeon (study username)..... SURGEON
 - b. Was this surgeon scrubbed? (0=no, 1=yes for some of the case, 2=yes for the entire case) ... SCRUBBED
 - c. Was this surgeon present for the incision? (0=no, 1=yes)..... INCISION
 - d. Was this surgeon present for the dissection? (0=no, 1=yes) DISSECTION
 - e. Was this surgeon present for the anastomosis? (0=no, 1=yes)..... ANASTOMOSIS
 - f. Was this surgeon present for the closure? (0=no, 1=yes)..... CLOSURE
6. a. Did a fellow participate in the case? (0=no, 1=yes) FELLOW_PART
 - b. If yes, study username of that fellow FELLOW_USER
7. Did a resident participate in the case? RESIDENT_PART
0=no, 1=junior resident (PGY1-3), 2=senior resident (PGY4-5), 3=vascular surgery resident
8. Which of the surgeons listed in q. 5 – 7 performed the anastomosis?..... PERF_ANASTOM
1=attending surgeon (q.5), 2=fellow (q.6), 3=resident (q.7)

Intra operative drugs

9. Heparin (0=no, 1=yes, fixed dose, 2=yes, weight based dose)..... HEPARIN
*Note: Heparin should be recorded as "no" if it was given as a heparinized saline flush.
Further details are provided in Chapter 5, Section 5.2.2.2 of the Manual of Operations.*
10. Protamine (0=no, 1=yes) PROTAMINE
11. ddavp / desmopressin (0=no, 1=yes) DDAVP_DESMOP
12. Topical vasodilators (0=no, 1=yes) TOP_VASO
13. Topical thrombin (0=no, 1=yes)..... TOP_THROMB

Technical conduct of operation

14. Type of anesthesia (1=general inhalation, 2=regional, 3=local) ANESTHESIA
15. Start of incision (24 hour clock HH:MM)..... INCIS_START
16. Time of dressing application / end of procedure / last suture placed
(which ever is the latest) (24 hour clock HH:MM)..... INCIS_END

- 17. a. In which arm was the fistula placed? (1=left, 2=right) ARM
b. Where will the fistula be cannulated if it matures? (1=forearm, 2=upper arm) CANNULATED

- 18. Artery for fistula anastomosis ARTERY
1=distal radial artery (wrist), 2=proximal radial artery (elbow), 3=brachial artery (elbow), 4=ulnar artery
Note: Email fm-dcc@bio.ri.ccf.org if the artery used for anastomosis is not on this list, and a new code will be assigned.

- 19. a. Vein for fistula anastomosis VEIN
1 = basilic vein (forearm) 2 = basilic vein (upper arm),
3 = cephalic vein (forearm) 4 = cephalic vein (upper arm)
5 = median antecubital vein 6 = brachial vein
Note: Email fm-dcc@bio.ri.ccf.org if the vein used for anastomosis is not on this list, and a new code will be assigned.
b. If an upper arm fistula was created (Q.19a=2 or 4), was the median antecubital vein used in creating the fistula (to correlate with preoperative ultrasound measurement)? (0=no, 1=yes) VEIN_UPPER
c. If a forearm radiocephalic fistula was created (Q.19a=3), was the portion of cephalic vein used for the anastomosis located closer to the wrist or closer to the mid forearm (to correlate with preoperative ultrasound measurement)? (1= closer to the wrist, 2= closer to the mid forearm) VEIN_FOREARM

- 20. Mechanism of vascular control - artery ARTERY_MECH
1=vessel loops, 2=vascular clamps, 3=intraluminal occlusion, 4=both vessel loops and vascular clamps, 5=tourniquet, 9=none
Note: Email fm-dcc@bio.ri.ccf.org if the mechanism of vascular control in artery used for anastomosis is not on this list, and a new code will be assigned.

- 21. Mechanism of vascular control - vein VEIN_MECH
1=vessel loops, 2=vascular clamps, 3=intraluminal occlusion, 9=none
Note: Email fm-dcc@bio.ri.ccf.org if the mechanism of vascular control in vein used for anastomosis is not on this list, and a new code will be assigned.

- 22. Anastomotic technique (1=suture, 2=clips) ANASTOM_TECH

- 23. a. Was the length of arteriotomy measured? (0=no, 1=yes, 9=not recorded) MEASURED
b. If yes, what was the length of arteriotomy? (mm) LENGTH_MM

- 24. Intra operative assessment of vein based on surgeon's judgement? ASSESS_VEIN
(3=Adequate, 2=Marginal, 1=Inadequate, 9=Unknown)

- 25. Intra operative assessment of artery based on surgeon's judgement? ASSESS_ARTERY
(3=Adequate, 2=Marginal, 1=Inadequate, 9=Unknown)

- 26. End of surgery: presence of thrill? (0=no, 1=yes, 9=not assessed) THRILL_PRESENCE

- 27. End of surgery: extent of thrill? THRILL_EXTENT
1=proximal third of forearm/arm, 2=to mid third of forearm/arm
3=to distal third of forearm/arm, 4=absence of thrill, 9=not assessed/recorded
Note that proximal and distal are with respect to the AV anastomosis. Thus, the proximal third means the portion of the forearm or upper arm closest to the anastomosis and the distal third means the portion of the forearm or upper arm farthest from the anastomosis.

- 28. Surgeon's predictor of success? (0=unlikely, 1=marginal, 2=likely, 9=not assessed/recorded) SUCCESS

29. Surgeon's notes on expected problems:
- a. inadequate vein (0=no, 1=yes)INADEQ_VEIN
 - b. inadequate artery (0=no, 1=yes).....INADEQ_ARTERY
 - c. venous outflow obstruction (0=no, 1=yes) VEN_OBSTRUCT
 - d. inadequate arterial flow (0=no, 1=yes)INADEQ_ARTFLOW
 - e. other, specify OTH_PROB_SPEC
30. Surgeon's thoughts on the expected problems (if available)?SURG_THOUGHTS

31. Was the surgeon frustrated during the surgery? (0=no, 1=yes, 9=not assessed) FRUSTRATED
32. What new drugs were prescribed to be taken immediately post op after surgery specifically for the purpose of improving fistula patency (for example, antiplatelets, aspirin, clopidogrel)?

Medication/Supplement Name (Enter generic or trade name)	Medication Code* (Data form will allow one to find WhoDRUG code automatically)
a.	SURG_MEDS_ID
b.	
c.	
d.	
e.	
f.	

33. Concomitant procedures performed at time of fistula creation? (0=no, 1=yes).. CONCOMITANT_PROC
If yes:
- a. Ligation of accessory vein (0=no, 1=yes) VEIN_LIGAT
- Arterial inflow revascularization:
- b. stent (0=no, 1=yes)..... AIR_STENT
 - c. bypass (0=no, 1=yes) AIR_BYPASS
 - d. balloon angioplasty (0=no, 1=yes)..... AIR BALL_ANGIO
 - e. patch angioplasty (0=no, 1=yes)AIR_PATCH_ANGIO

Venous outflow (anywhere in the venous system, including central veins) revascularization:

- f. stent (0=no, 1=yes)..... VOR_STENT
- g. bypass (0=no, 1=yes)VOR_BYPASS
- h. balloon angioplasty (0=no, 1=yes).....VOR_BALL_ANGIO
- i. patch angioplasty (0=no, 1=yes) VOR_PATCH_ANGIO

Intra-operative imaging:

- j. Venogram prior to creation of AV anastomosis (0=no, 1=yes)..... VENOGRAM
- k. arteriogram (0=no, 1=yes)..... ARTERIOGRAM
- l. fistulogram (0=no, 1=yes)..... FISTULOGRAM

200. Date this form completed (mm/dd/yyyy)..... COMP_DT

201. Username of person completing/reviewing completeness of this form.....COMP_USER

Clinical Center Use Only

Date Form Entered (mm/dd/yyyy) __ __/ __ __/ __ __ __ __ ENTER_DT

Username of person entering this form__ __ __ __ __ __ ENTER_USER