

**HEMO Study Form 18. Outcome Committee Death Review Form**

This form will be completed by two members of the Outcome Committee after review of the Death Review Packet. They will be blinded to the patient's treatment. If they disagree with each other about the classification of the cause of death, the assessment will be reviewed by the Chair of the Outcome Committee or his designee.

1. Patient Identification Number. .... \_\_\_\_\_

2. Patient Name Code ..... \_\_\_\_\_

3. Date of Death ..... \_\_\_/\_\_\_/\_\_\_

4. Date Reviewed ..... \_\_\_/\_\_\_/\_\_\_

5. Have these conclusions been reached by one of the two initial Outcome Committee reviewers, or by the Outcome Committee Chair (or his designee)? (1=initial, 2=Chair/designee)..... \_\_\_

6. First initial and first seven letters of reviewer's last name ..... \_\_\_\_\_

7. For Causes of Death, use the Form 17 Death Code List.

a. Primary Cause of Death..... \_\_\_\_\_

b. Secondary Cause of Death..... \_\_\_\_\_

c. Other Cause of Death..... \_\_\_\_\_

d. Other Cause of Death..... \_\_\_\_\_

8. a. What is the current thought of the blinded reviewer regarding whether this was related to the patient's dialysis procedure? .....

1 = Existing Relationship. This sort of event is commonly associated with the dialysis procedure or a temporal relationship with the dialysis procedure exists and no other etiology is apparent.

2 = No Existing Relationship. This sort of event is not commonly associated with the dialysis procedure, no temporal relationship with the dialysis procedure exists, and other etiology is possible.

3 = Unknown Relationship. There are insufficient data to assess the relationship of the event to the dialysis procedure.

9. a. What Kt/V designation does the blinded reviewer believe the patient was on? (1=low Kt/V, 2=high Kt/V, 9=can't tell) .....

b. What membrane does the blinded reviewer believe the patient was on? (1=low flux, 2=high flux, 9=can't tell)..... \_\_\_\_\_



201. Date this form completed ..... \_ \_ / \_ \_ / \_ \_ \_ \_

202. Certification number of person completing this form (use Study Coordinator's certification number) ..... \_ \_ \_ \_ \_

Clinical Center Use Only	
Date Form Entered _ _ / _ _ / _ _ _ _	Verified? _____
Person Entering This Form _____	

**HEMO STUDY/CAUSES OF DEATH**  
(FOR FORMS 17 AND 18)

**CATEGORIES**

**Note:** A “2” indicates that the disease or condition could only be a secondary or other cause of death and not the primary cause. If the patient died following withdrawal of dialysis, the code 23DA should be listed as the second cause of death. If this code is listed as a second cause of death, any of the other causes of death can be listed as the primary cause. In other words, conditions marked with the suffix “:2” can be listed as the primary cause of death, if the secondary cause of death is coded 23DA (“Withdrawal from dialysis”).

An asterisk (\*) indicates that the disease or condition is also classified as an infection outcome.

**1. ISCHEMIC HEART DISEASE (IHD)**

- 01DA Sudden death (due to IHD)
- 01DB Myocardial infarction (acute) (MI)
- 01DC Angina:2
- 01DD Atherosclerotic heart disease (CAD):2
- 01DE Other acute and subacute forms of ischemic heart disease
- 01DF Old myocardial infarction:2
- 01DG Other forms of chronic ischemic heart disease:2

**2. CONGESTIVE HEART FAILURE (CHF)**

- 02DA CHF
- 02DB CHF or pulmonary edema due to exogenous fluid (volume overload)
- 02DC Pulmonary edema (cardiogenic)
- 02DD Cardiogenic shock

**3. ARRHYTHMIAS AND CONDUCTION PROBLEMS**

- 03DA Sudden death (due to arrhythmia, not due to IHD)
- 03DB Atrioventricular conduction block
- 03DC Sick sinus syndrome
- 03DD Atrial fibrillation
- 03DE Ventricular tachycardia
- 03DF Other cardiac arrhythmia and conduction disorder
- 03DG Hyperkalemia

**4. OTHER HEART DISEASES AND CONDITIONS (OHD)**

- 04DA Sudden death (due to heart conditions other than IHD/arrhythmia)
- 04DB Pericarditis
- 04DC Endocarditis \*
- 04DD Myocarditis
- 04DE Pericardial effusion:2
- 04DF Cardiac tamponade
- 04DG Aortic valve stenosis or insufficiency:2
- 04DH Mitral valve stenosis, regurgitation, or prolapse:2
- 04DI Other valve defect:2
- 04DJ Prosthetic valve malfunction:2
- 04DK Cardiomyopathy (without IHD or CHF)

**5. HYPERTENSION (HTN)**

- 05DA Hypertensive crisis or accelerated HTN

**6. CEREBRAL VASCULAR DISEASE (CVD)**

- 06DA Cerebral vascular accident (CVA)
- 06DB Carotid artery stenosis:2
- 06DC Cerebral artery aneurysm:2
- 06DD Subarachnoid or cerebral hemorrhage
- 06DE Other cerebrovascular disease

**7. PERIPHERAL VASCULAR DISEASE (PVD)**

- 07DA Hemorrhage from ruptured vascular aneurysm
- 07DB Peripheral vascular disease:2
- 07DC Deep vein thrombosis (DVT):2
- 07DD Pulmonary embolism (PE)
- 07DE Abdominal aortic aneurysm (AAA):2
- 07DF Thoracic aortic aneurysm (TAA):2
- 07DG Aortic aneurysm (not specified as AAA or TAA):2
- 07DH Other aneurysm:2
- 07DI Arterial embolism and thrombosis
- 07DJ Mesenteric ischemia or infarction/ischemic bowel
- 07DK Gangrene with septicemia-shock due to PVD \*
- 07DL Polyarteritis nodosa and other arteritides:2

07DM Other disorders of arteries:2

**8. DIABETES MELLITUS (DM) AND ENDOCRINE DISORDERS**

- 08DA Diabetes mellitus, Type I (insulin dependent):2
- 08DB Diabetes mellitus, Type II (non insulin dependent, could be insulin required):2
- 08DC Diabetes mellitus, type unclassified or unknown:2
- 08DD Diabetes with ketoacidosis
- 08DE Diabetes with hyperosmolar state or coma (hyperglycemia)
- 08DF Diabetes with other coma
- 08DG Hypoglycemia coma
- 08DH Diabetic foot infection \*
- 08DI Hypothyroidism:2
- 08DJ Disorders of the thyroid gland:2
- 08DK Other endocrine disorder:2

**9. RESPIRATORY DISEASE**

- 09DA Asthma
- 09DB COPD exacerbation
- 09DC Bronchitis (chronic):2
- 09DD COPD:2
- 09DE Pneumonia (community acquired)\*
- 09DF Pneumonia (nosocomial)\*
- 09DG Pneumonia-sepsis\*
- 09DH Pneumonia (bacterial)\*
- 09DI Pneumonia (fungal)\*
- 09DJ Pneumonia (viral)\*
- 09DK Pneumocystis pneumonia\*
- 09DL Pneumonia (unspecified pathogen)\*
- 09DM Empyema\*
- 09DN Lung abscess\*
- 09DO Pneumothorax
- 09DP Pulmonary hemorrhage
- 09DQ Cor pulmonale:2
- 09DR Pulmonary TB\*
- 09DS Aspiration pneumonia
- 09DT Adult Respiratory Distress Syndrome (ARDS)
- 09DU Respiratory failure of unknown cause

**10. MALIGNANCY**

- 10DA Hematologic malignancy (AML, CML, ALL, CLL)
- 10DB Lymphoma (unspecified)
- 10DC Hodgkin's lymphoma
- 10DD Non-Hodgkin's lymphoma

10DE	Multiple myeloma
10DF	Colon cancer
10DG	Breast cancer
10DH	Prostatic cancer
10DI	Ovarian cancer
10DJ	Lung cancer
10DK	Gastric cancer
10DL	Pancreatic cancer
10DM	Thyroid cancer
10DN	Cervical cancer
10DO	Endometrial cancer
10DP	Primary cancer of the liver
10DQ	Head and neck squamous cell carcinoma
10DR	Testicular cancer
10DS	Renal cancer
10DT	Bladder cancer
10DU	Melanoma
10DV	Other skin cancer
10DW	Other malignancy or neoplasia
10DX	Metastatic cancer with unknown primary
10DY	Patient ever on immunosuppressive therapy

## **11. HEPATOBILIARY DISEASE**

11DA	Hepatitis B* (* added July 2002, per Julia Lewis)
11DB	Hepatitis C* (* added July 2002, per Julia Lewis)
11DC	Toxic/drug induced hepatitis
11DD	Hepatitis (other unknown cause)* (* added July 2002, per Julia Lewis)
11DE	Cirrhosis:2
11DF	Ascites:2
11DG	Portal hypertension or esophageal varices:2
11DH	Hemorrhage from esophageal varices
11DI	Hepatic (liver) failure/severe hepatic dysfunction
11DJ	Polycystic liver disease:2
11DK	Cholecystitis/cholangitis*
11DL	Biliary sepsis*
11DM	Other hepatobiliary disease

## **12. MUSCULOSKELETAL AND CONNECTIVE TISSUE DISEASES**

12DA	Wegener's granulomatosis
12DB	Systemic vasculitis
12DC	Rheumatoid arthritis:2
12DD	SLE



12DE	Osteomyelitis*
12DF	Septic arthritis*
12DG	Osteoporosis:2
12DH	Bone fracture(s):2
12DI	Renal osteodystrophy:2
12DJ	Hyperparathyroidism:2
12DK	Hypoparathyroidism:2
12DL	Other disorder of calcium and phosphorus metabolism
12DM	Other musculoskeletal or connective tissue disease:2

### 13. GASTROINTESTINAL CONDITIONS (GI)

13DA	Upper GI bleed
13DB	Lower GI bleed
13DC	GI bleeding, site unknown
13DD	Peptic ulcer disease:2
13DE	Gastritis:2
13DF	Diverticulosis:2
13DG	Ulcerative colitis (UC):2
13DH	Enteritis (Crohn's disease):2
13DI	Perforation of peptic ulcer
13DJ	Perforation of bowel
13DK	Diverticulitis*
13DL	Necrotizing enterocolitis*
13DM	<i>C. difficile</i> associated enterocolitis*
13DN	Peritonitis*
13DO	Appendicitis*
13DP	Septicemia due to peritonitis*
13DQ	Fungal peritonitis*
13DR	Pancreatitis
13DS	Intra-abdominal abscess*
13DT	Arteriovenous malformation (AVM)
13DU	Other GI condition:2

### 14. NONVASCULAR NERVOUS SYSTEM DISEASES

14DA	Dementia (Alzheimer's):2
14DB	Dementia (other, unknown, including dialysis dementia):2
14DC	Seizure disorder (chronic):2
14DD	Seizure episode
14DE	Depression:2
14DF	Suicide (not due to withdrawal from dialysis, which is code 23DA)
14DG	Drug overdose (alcohol/drug abuse--street drugs or other non-accidental chemical abuse)

- 14DH Subdural or epidural hematoma (spontaneous or traumatic)
- 14DI Meningitis (non viral, bacterial, or fungal or TB)\*
- 14DJ Brain abscess\*
- 14DK Other CNS infection\*
- 14DL Head trauma (brain injury)
- 14DM Ischemic brain damage, anoxic encephalopathy
- 14DN Other psychiatric or mental disorder:2
- 14DO Parkinson's disease:2
- 14DP Multiple sclerosis (MS):2
- 14DQ Other demyelinating diseases of CNS:2
- 14DR Cranial or peripheral nerve disorder:2
- 14DS Other nonvascular nervous system condition

## **15. URINARY TRACT CONDITIONS**

- 15DA Urinary tract infection (chronic UTIs):2
- 15DB UTI-septicemia\*
- 15DC Nephrolithiasis:2
- 15DD Prostatitis\*
- 15DE Benign prostatic hypertrophy:2
- 15DF Orchitis\*
- 15DG Cystic kidney disease (PKD or acquired):2
- 15DH Cyst-related hemorrhage
- 15DI Cyst-related infection\*
- 15DJ Urinary tract hemorrhage
- 15DK Hemorrhage from renal transplant site
- 15DL Other renal and urologic condition (excluding ESRD)
- 15DM Acute transplant rejection

## **16. HIV/AIDS**

- 16DA HIV positive (not AIDS)
- 16DB AIDS\* (\* added July 2002, per Julia Lewis)
- 16DC AIDS-related infection\* (\* added July 2002, per Julia Lewis)
- 16DD Other AIDS-related condition (not infection)

## **17. OPHTHALMOLOGIC CONDITIONS**

- 17DA Endophthalmitis\*
- 17DB Legally blind:2

**18. INFECTIONS (NOT ACCESS RELATED)**

- 18DA Abscess (not recorded in previous category)\*
- 18DB Other infection (not recorded in previous category)\*
- 18DC Septic shock\*
- 18DD Septicemia (bacteremia) (known source, not access related)\*
- 18DE Septicemia (bacteremia) (unknown source, not access related)\*
- 18DF Extrapulmonary TB\*
- 18DG Miliary TB\*
- 18DH Disseminated candida infection\*
- 18DI Other fungal infection\*
- 18DJ Viral infection (CMV)\*
- 18DK Other viral infection (not hepatitis)\*
- 18DL Protozoan or parasitic infection (not PCP)\*

**19. NON-MALIGNANT HEMATOLOGIC CONDITIONS**

- 19DA Anemia:2
- 19DB Bone marrow depression:2
- 19DC Leukocytopenia:2
- 19DD Coagulation disorder:2
- 19DE Thrombocytopenia:2
- 19DF Disseminated intravascular coagulation
- 19DG Other consumption coagulopathy:2
- 19DH Thrombotic thrombocytopenic purpura (TTP) and hemolytic uremic syndrome (HUS)
- 19DI Other non-malignant hematologic condition

**20. HEMODIALYSIS VASCULAR ACCESS COMPLICATIONS**

- 20DA Septicemia (bacteremia) access related\*
- 20DB Hemorrhage from vascular access
- 20DC Venous thrombosis access related:2
- 20DD Arterial thrombosis or embolism access related
- 20DE Other access infection
- 20DF Other complication of temporary access placement

**21. OTHER HEMODIALYSIS COMPLICATIONS**

- 21DA Hemorrhage from dialysis circuit
- 21DB Air embolism
- 21DC Anaphylaxis, treatment related
- 21DD Hemolysis, treatment related
- 21DE Electrolyte and acid-base disorder, treatment related (other than hyperkalemia)

- 21DF Dialysis-induced hypotension
- 21DG Other accident related to treatment

**22. OTHER SURGICAL COMPLICATIONS**

- 22DA Hemorrhage from surgery
- 22DB Complications from surgery
- 22DC Complications from anesthesia

**23. OTHER**

- 23DA Withdrawal from dialysis:2
- 23DB Other hemorrhage
- 23DC Cachexia
- 23DD Other trauma
- 23DE Drug overdose (accidental)
- 23DF Accident unrelated to treatment
- 23DG Drug reaction, anaphylaxis
- 23DH Drug reaction, not anaphylaxis, not overdose
- 23DI Other electrolyte and acid-base disorder (not related to hemodialysis treatment)
- 23DJ Homicide
- 23DK Refusal of lifesaving therapy:2

**24. UNKNOWN**

- 24DA Sudden death, unknown cause
- 24DB Other death, unknown cause