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Kidney (Renal) Transplantation

1.0 Description of the Procedure, Product, or Service

Kidney (renal) transplantation is a surgical procedure to implant a healthy kidney into a beneficiary with kidney disease or kidney failure. Sources for donated kidneys include living donors (may be a blood relative or an unrelated donor) or from a donor that has recently died, but has not suffered kidney injury (cadaver donor). However, a kidney from a living donor is preferable to a cadaver organ because the waiting period is dramatically shorter and because the organ can be tested before transplant, usually function immediately after transplant, and last longer. Blood-group matched (ABO compatible) living-donor kidney transplantation is the gold standard.

A kidney (renal) transplant is usually placed on one side or the other in the lower abdomen through an incision that is about eight or nine inches in length. The kidney’s artery is connected to one of the beneficiary’s pelvic arteries. The kidney’s vein is connected to one of the veins in the beneficiary’s pelvis. The ureter, the tube that drains urine from the kidney, is connected to the bladder or to one of the beneficiary’s own ureters.

1.1 Definitions

None Apply.

1.1.1 Glomerular Filtration Rate (GFR)

GFR is a blood test used to check how well the kidneys are working. Specifically, it estimates how much blood passes through the glomeruli each minute. Glomeruli are the tiny filters in the kidneys that filter waste from the blood.

1.1.2 Chronic Kidney Disease (CKD)

Chronic kidney disease is defined according to the presence or absence of kidney damage and level of kidney function—irrespective of the type of kidney disease (diagnosis).

1.1.3 End Stage Renal Disease (ESRD)

End stage renal disease (ESRD) is the last stage (stage five) of chronic kidney disease (CKD). When CKD, polycystic kidney disease (PKD) or other kidney diseases develop into ESRD, dialysis or a kidney transplant is necessary to live.
2.0 Eligibility Requirements

2.1 Provisions

2.1.1 General

(The term “General” found throughout this policy applies to all Medicaid and NCHC policies)

a. An eligible beneficiary shall be enrolled in either:
   1. the NC Medicaid Program (Medicaid is NC Medicaid program, unless context clearly indicates otherwise); or
   2. the NC Health Choice (NCHC is NC Health Choice program, unless context clearly indicates otherwise) Program on the date of service and shall meet the criteria in Section 3.0 of this policy.

b. Provider(s) shall verify each Medicaid or NCHC beneficiary’s eligibility each time a service is rendered.

c. The Medicaid beneficiary may have service restrictions due to their eligibility category that would make them ineligible for this service.

d. Following is only one of the eligibility and other requirements for participation in the NCHC Program under GS 108A-70.21(a): Children must be between the ages of 6 through 18.

2.1.2 Specific

(The term “Specific” found throughout this policy only applies to this policy)

a. Medicaid
   None Apply.

b. NCHC
   None Apply.

2.2 Special Provisions

2.2.1 EPSDT Special Provision: Exception to Policy Limitations for a Medicaid Beneficiary under 21 Years of Age

a. 42 U.S.C. § 1396d(r) [1905(r) of the Social Security Act]

Early and Periodic Screening, Diagnostic, and Treatment (EPSDT) is a federal Medicaid requirement that requires the state Medicaid agency to cover services, products, or procedures for Medicaid beneficiary under 21 years of age if the service is medically necessary health care to correct or ameliorate a defect, physical or mental illness, or a condition [health problem] identified through a screening examination (includes any evaluation by a physician or other licensed practitioner).

This means EPSDT covers most of the medical or remedial care a child needs to improve or maintain his or her health in the best condition possible, compensate for a health problem, prevent it from worsening, or prevent the development of additional health problems.

Medically necessary services will be provided in the most economic mode, as long as the treatment made available is similarly efficacious to the service...
requested by the beneficiary’s physician, therapist, or other licensed practitioner; the determination process does not delay the delivery of the needed service; and the determination does not limit the beneficiary’s right to a free choice of providers.

EPSDT does not require the state Medicaid agency to provide any service, product or procedure:

1. that is unsafe, ineffective, or experimental or investigational.
2. that is not medical in nature or not generally recognized as an accepted method of medical practice or treatment.

Service limitations on scope, amount, duration, frequency, location of service, and other specific criteria described in clinical coverage policies may be exceeded or may not apply as long as the provider’s documentation shows that the requested service is medically necessary “to correct or ameliorate a defect, physical or mental illness, or a condition” [health problem]; that is, provider documentation shows how the service, product, or procedure meets all EPSDT criteria, including to correct or improve or maintain the beneficiary’s health in the best condition possible, compensate for a health problem, prevent it from worsening, or prevent the development of additional health problems.

b. EPSDT and Prior Approval Requirements

1. If the service, product, or procedure requires prior approval, the fact that the beneficiary is under 21 years of age does NOT eliminate the requirement for prior approval.
2. IMPORTANT ADDITIONAL INFORMATION about EPSDT and prior approval is found in the NCTracks Provider Claims and Billing Assistance Guide, and on the EPSDT provider page. The Web addresses are specified below.

   NCTracks Provider Claims and Billing Assistance Guide: https://www.nctracks.nc.gov/content/public/providers/provider-manuals.html

   EPSDT provider page: http://dma.ncdhhs.gov/

2.2.2 EPSDT does not apply to NCHC beneficiaries

2.2.3 Health Choice Special Provision for a Health Choice Beneficiary age 6 through 18 years of age

The Division of Medical Assistance (DMA) shall deny the claim for coverage for an NCHC beneficiary who does not meet the criteria within Section 3.0 of this policy. Only services included under the NCHC State Plan and the DMA clinical coverage policies, service definitions, or billing codes are covered for an NCHC beneficiary.
3.0 When the Procedure, Product, or Service Is Covered

Note: Refer to Subsection 2.2.1 regarding EPSDT Exception to Policy Limitations for a Medicaid Beneficiary under 21 Years of Age.

3.1 General Criteria Covered

Medicaid and NCHC shall cover the procedure, product, or service related to this policy when medically necessary, and:

a. the procedure, product, or service is individualized, specific, and consistent with symptoms or confirmed diagnosis of the illness or injury under treatment, and not in excess of the beneficiary’s needs;

b. the procedure, product, or service can be safely furnished, and no equally effective and more conservative or less costly treatment is available statewide; and

c. the procedure, product, or service is furnished in a manner not primarily intended for the convenience of the beneficiary, the beneficiary’s caretaker, or the provider.

3.2 Specific Criteria Covered

3.2.1 Specific criteria covered by both Medicaid and NCHC

a. Medicaid and NCHC shall cover kidney transplantation (deceased or living donor) for a beneficiary who meets ALL the following criteria:

1. Renal insufficiency with uremia or current end stage renal disease (ESRD) with poor renal function documented by progressive and irreversible deterioration in renal function over the previous six (6) consecutive months and ONE of the following:

A. Currently on dialysis;

B. In beneficiaries eighteen (18) years and older, the measured or calculated glomerular filtration rate (GFR) is < 20 mL/min; OR

C. In beneficiaries seventeen (17) years and younger, the measured or calculated GFR is < 30 mL/min

2. The beneficiary has completed an evaluation and meets the eligibility criteria for the transplant center performing the procedure;

3. The beneficiary and caregiver are willing and capable of following the post-transplant treatment plan;

4. Kidney re-transplant after a failed primary kidney transplant may be considered medically necessary if a beneficiary meets the criteria for kidney transplantation.

5. If the beneficiary is human immunodeficiency virus (HIV)-positive, ALL the following additional criteria must be met:

A. Cluster Differentiation 4 (CD4) count greater than 200 cells/mm-3 for more than six (6) consecutive months;

B. HIV-1 Ribonucleic acid (RNA) undetectable;

C. On stable anti-retroviral therapy more than three (3) consecutive months;

D. No other complications from HIV (opportunistic infection, such as aspergillus, tuberculosis, coccidiose mycosis, resistant fungal infections, Kaposi’s sarcoma, or other neoplasm); and

E. Meets ALL the criteria listed in Subsections 3.2.1(a)(1)(2)(3)(4) for transplantation.
NOTE: The renal diseases responsible for CKD in children are different from those observed in adults. Congenital renal and urologic anomalies are the most common cause of CKD in children. Although there have been many advances in conservative renal replacement therapy, renal transplantation is the best treatment for children with end-stage renal disease (ESRD). For these reasons, children frequently undergo primary or preemptive transplantation, in which transplantation is the first mode of treatment for ESRD. When performed, this procedure most commonly involves a living donor who is related to the beneficiary.

a. Medicaid and NCHC shall cover kidney transplantation for a beneficiary when medically necessary and all of the following criteria are met:

1. The beneficiary has any of the following conditions which cause end-stage renal disease (inadequate kidney function to support life):
   A. Obstructive uropathy;
   B. Systemic lupus erythematosus;
   C. Polyarteritis;
   D. Wegener’s granulomatosis;
   E. Cortical necrosis;
   F. Henoch-Schonlein purpura;
   G. Hemolytic uremic syndrome;
   H. Acute tubular necrosis;
   I. Hypertensive nephrosclerosis;
   J. Renal artery or vein occlusion;
   K. Chronic pyelonephritis;
   L. IGA nephropathy;
   M. Anti-glomerular base-membrane disease;
   N. Focal glomerulosclerosis;
   O. Analgesic nephropathy;
   P. Heavy metal poisoning;
   Q. Glomerulonephritis;
   R. Polycystic kidney disease;
   S. Medullary cystic disease;
   T. Nephritis;
   U. Nephrocalcinosis;
   V. Gout nephritis;
   W. Amyloid disease;
   X. Fabry’s disease;
   Y. Cystinosis;
   Z. Oxalosis;
   AA. Diabetes mellitus;
   BB. Horseshoe kidney;
   CC. Renal aplasia or hypoplasia;
   DD. Wilms’ tumor;
   EE. Renal cell carcinoma;
   FF. Myeloma;
   GG. Tuberous sclerosis;
   HH. Trauma requiring nephrectomy;
   II. Scleroderma;
Kidney (Renal) Transplantation

Medicaid and Health Choice

Clinical Coverage Policy No: 11B-4

Amended Date: DRAFT

4.0 When the Procedure, Product, or Service Is Not Covered

Note: Refer to Subsection 2.2.1 regarding EPSDT Exception to Policy Limitations for a Medicaid Beneficiary under 21 Years of Age.

4.1 General Criteria Not Covered

Medicaid and NCHC shall not cover the procedure, product, or service related to this policy when:

a. the beneficiary does not meet the eligibility requirements listed in Section 2.0;
b. the beneficiary does not meet the criteria listed in Section 3.0;
c. the procedure, product, or service duplicates another provider’s procedure, product, or service; or
d. the procedure, product, or service is experimental, investigational, or part of a clinical trial.

4.2 Specific Criteria Not Covered

4.2.1 Specific Criteria Not Covered by both Medicaid and NCHC

Medicaid and NCHC do not cover kidney transplantation for a beneficiary who has any one of the contraindications listed below:

a. Clinical indications other than listed in Subsection 3.2;
b. If the procedure is expected to be futile due to co-morbid disease or if post-transplantation care is expected to significantly worsen co-morbid conditions;
c. Serious cardiac or other ongoing insufficiencies that create an inability to tolerate transplant surgery;
d. Active drug or alcohol use;
e. Active tobacco use;
f. Active, potentially life-threatening, malignancy;
g. Life threatening extra-renal congenital abnormalities;
h. Active infection;
i. Active vasculitis;
j. Untreated or irreversible end-stage illnesses;
k. Untreated coagulation disorder;
l. Inability to comply with post-transplant regimen;
m. Organs sold rather than donated to a beneficiary; or
n. Artificial organs or human organ transplant service for which the cost is covered or funded by governmental, foundation, or charitable grants.

4.2.2 Medicaid Additional Criteria Not Covered
None Apply.

4.2.3 NCHC Additional Criteria Not Covered
a. NCGS § 108A-70.21(b) “Except as otherwise provided for eligibility, fees, deductibles, copayments, and other cost sharing charges, health benefits coverage provided to children eligible under the Program shall be equivalent to coverage provided for dependents under North Carolina Medicaid Program except for the following:
1. No services for long-term care.
2. No nonemergency medical transportation.
3. No EPSDT.
4. Dental services shall be provided on a restricted basis in accordance with criteria adopted by the Department to implement this subsection.”

5.0 Requirements for and Limitations on Coverage

Note: Refer to Subsection 2.2.2 regarding EPSDT Exception to Policy Limitations for Medicaid Beneficiaries under 21 Years of Age.

5.1 Prior Approval

Medicaid and NCHC shall not require prior approval for cadaveric or living donor kidney transplantation.

Prior approval is not required for cadaveric kidney transplantation per 10A NCAC 220.0101.

Prior approval is required for living donor kidney transplantation.
Only those Medicaid and NCHC beneficiaries accepted for transplantation by a transplantation center and eligible for transplant listing shall be considered for review. Guidelines must be followed for transplant network or consortiums, if available.

5.2 Prior Approval Requirements

5.2.1 General

None Apply.

The provider(s) shall submit to the Department of Health and Human Services (DHHS) Utilization Review Contractor the following:

a. the prior approval request; and

b. all health records and any other records that support the beneficiary has met the specific criteria in Subsection 3.2 of this policy.

5.2.2 Specific

None Apply.

5.3 Additional Limitations or Requirements

None Apply.

a. FDA approved procedures, products, and devices for implantation must be used for kidney (renal) transplantation; and

b. Implants, products, and devices must be used according to all FDA requirements current at the time of surgery;

6.0 Provider(s) Eligible to Bill for the Procedure, Product, or Service

To be eligible to bill for the procedure, product, or service related to this policy, the provider(s) shall:

a. meet Medicaid or NCHC qualifications for participation;

b. have a current and signed Department of Health and Human Services (DHHS) Provider Administrative Participation Agreement; and

c. bill only for procedures, products, and services that are within the scope of their clinical practice, as defined by the appropriate licensing entity.

6.1 Provider Qualifications and Occupational Licensing Entity Regulations

None Apply.

6.2 Provider Certifications

None Apply.

7.0 Additional Requirements

Note: Refer to Subsection 2.2.1 regarding EPSDT Exception to Policy Limitations for a Medicaid Beneficiary under 21 Years of Age.

7.1 Compliance

Provider(s) shall comply with the following in effect at the time the service is rendered:
DRAFT

a. All applicable agreements, federal, state and local laws and regulations including the Health Insurance Portability and Accountability Act (HIPAA) and record retention requirements; and

b. All DMA’s clinical (medical) coverage policies, guidelines, policies, provider manuals, implementation updates, and bulletins published by the Centers for Medicare and Medicaid Services (CMS), DHHS, DHHS division(s) or fiscal contractor(s);

A statement signed by the surgeon certifying all FDA requirements for the implants, products, and devices must be retained in the beneficiary’s medical record and made available for review upon request.

8.0 Policy Implementation/Revision Information

Original Effective Date: July 1, 1987

Revision Information:

<table>
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<th>Date</th>
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<tr>
<td>07/01/2005</td>
<td>Entire Policy</td>
<td>Policy was updated to include coverage criteria effective with approved date of State Plan amendment 4/1/05.</td>
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<tr>
<td>09/01/2005</td>
<td>Section 2.2</td>
<td>The special provision related to EPSDT was revised.</td>
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<tr>
<td>12/01/2005</td>
<td>Section 2.2</td>
<td>The web address for DMA’s EDPST policy instructions was added to this section.</td>
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<tr>
<td>12/01/2006</td>
<td>Sections 2.2</td>
<td>The special provision related to EPSDT was revised.</td>
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<tr>
<td>12/01/2006</td>
<td>Sections 3.0</td>
<td>A note regarding EPSDT was added to this section.</td>
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<tr>
<td>12/01/2006</td>
<td>Section 3.1</td>
<td>The coverage criterion was revised to indicate that the creatinine clearance rate of 30ml/min is applicable to patients with cadaveric/deceased donor requests and a creatinine rate of 20ml/min is applicable to patients with living donor requests. The creatinine clearance calculation method was revised to indicate that the Cockcroft-Gault formula is used for adults and the Schwartz and Counahan-Barratt Methods GFR method is used for children and adolescents up to 18 years of age. Items 34, 35, and 36 were added as criteria for coverage.</td>
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<tr>
<td>12/01/2006</td>
<td>Section 3.2</td>
<td>The stipulation that living donor donations are only covered when the donor is a Medicaid beneficiary was deleted.</td>
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<tr>
<td>12/01/2006</td>
<td>Section 3.2.1</td>
<td>This section was reformatted to address cadaveric/deceased organ donations</td>
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<tr>
<td>12/01/2006</td>
<td>Section 3.2.2</td>
<td>This section was added to address living organ donations.</td>
</tr>
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<td>12/01/2006</td>
<td>Sections 4.0</td>
<td>A note regarding EPSDT was added to this section.</td>
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<td>12/01/2006</td>
<td>Section 4.3</td>
<td>This section was added to address contraindications for living organ donations.</td>
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<tr>
<td>12/01/2006</td>
<td>Attachment A</td>
<td>Billing instructions for living organ donations and cadaveric/deceased organ donations were added.</td>
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<tr>
<td>05/01/2007</td>
<td>Sections 2 through 4</td>
<td>EPSDT information was revised to clarify exceptions to policy limitations for beneficiaries under 21 years of age.</td>
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<tr>
<td>05/01/2007</td>
<td>Attachment A</td>
<td>Added the UB-04 as an accepted claims form.</td>
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<tr>
<td>07/01/2010</td>
<td>Throughout</td>
<td>Session Law 2009-451, Section 10.31(a) Transition of NC Health Choice Program administrative oversight from the State Health Plan to the Division of Medical Assistance (DMA) in the NC Department of Health and Human Services.</td>
</tr>
<tr>
<td>12/01/2011</td>
<td>Throughout</td>
<td>Policy was updated to include coverage criteria and requirements to meet current community standards of practice.</td>
</tr>
<tr>
<td>12/01/2011</td>
<td>Section 5.1</td>
<td>Policy updated to reflect compliance with 10A NCAC 220.0101 exempting kidney transplant from prior approval requirement</td>
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<tr>
<td>12/01/2011</td>
<td>Attachment A, Section I</td>
<td>Policy updated to reflect compliance with 10A NCAC 220.0101 exempting kidney transplant from prior approval requirement</td>
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<tr>
<td>03/01/2012</td>
<td>Throughout</td>
<td>Technical changes to merge Medicaid and NCHC current coverage into one policy.</td>
</tr>
<tr>
<td>10/01/2015</td>
<td>All Sections and Attachments</td>
<td>Updated policy template language and added ICD-10 codes to comply with federally mandated 10/1/2015 implementation where applicable.</td>
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<td></td>
<td>Section 1.1</td>
<td>Definitions added for glomerular filtration rate (GFR), chronic kidney disease (CKD), and end stage renal disease (ESRD).</td>
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<td></td>
<td>Section 3.2.1</td>
<td>The criteria were revised to reflect coverage based on GFR and age rather than diagnosis. Verbiage added to address re-transplantation.</td>
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<tr>
<td></td>
<td>Section 4.2.1</td>
<td>Specific criteria not covered expanded.</td>
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<td></td>
<td>Section 5.1</td>
<td>Prior approval requirement removed from live donor transplantations. Reference to 10A NCAC 220.0101 removed as it has expired.</td>
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<td></td>
<td>Section 5.2.1</td>
<td>Prior approval requirements removed.</td>
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<td>Section 5.3</td>
<td>FDA statements moved from Section 7.0 to this section.</td>
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<tr>
<td></td>
<td>Section 7.1</td>
<td>Removed requirement that a statement signed by the surgeon certifying all FDA requirements for the implants, products, and devices be retained.</td>
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<tr>
<td></td>
<td>Attachment A</td>
<td>Added the UB-04 as an accepted claims form. Removed CPT codes.</td>
</tr>
</tbody>
</table>
Attachment A: Claims-Related Information

Provider(s) shall comply with the, NCTracks Provider Claims and Billing Assistance Guide, Medicaid bulletins, fee schedules, DMA’s clinical coverage policies and any other relevant documents for specific coverage and reimbursement for Medicaid and NCHC:

A. Claim Type

Professional (CMS-1500/837P transaction)

Institutional (UB-04/83711)

B. International Classification of Diseases, Tenth Revisions, Clinical Modification (ICD-10-CM) and Procedural Coding System (PCS)

Provider(s) shall report the ICD-10-CM and Procedural Coding System (PCS) to the highest level of specificity that supports medical necessity. Provider(s) shall use the current ICD-10 edition and any subsequent editions in effect at the time of service. Provider(s) shall refer to the applicable edition for code description, as it is no longer documented in the policy.

C. Code(s)

Provider(s) shall report the most specific billing code that accurately and completely describes the procedure, product or service provided. Provider(s) shall use the Current Procedural Terminology (CPT), Health Care Procedure Coding System (HCPCS), and UB-04 Data Specifications Manual (for a complete listing of valid revenue codes) and any subsequent editions in effect at the time of service. Provider(s) shall refer to the applicable edition for the code description, as it is no longer documented in the policy.

If no such specific CPT or HCPCS code exists, then the provider(s) shall report the procedure, product or service using the appropriate unlisted procedure or service code.

<table>
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<tr>
<th>CPT Code(s)</th>
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<td>50547</td>
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Unlisted Procedure or Service

CPT: The provider(s) shall refer to and comply with the Instructions for Use of the CPT Codebook, Unlisted Procedure or Service, and Special Report as documented in the current CPT in effect at the time of service.

HCPCS: The provider(s) shall refer to and comply with the Instructions For Use of HCPCS National Level II codes, Unlisted Procedure or Service and Special Report as documented in the current HCPCS edition in effect at the time of service.
D. **Modifiers**

Provider(s) shall follow applicable modifier guidelines.

E. **Billing Units**

Provider(s) shall report the appropriate code(s) used which determines the billing unit(s).

F. **Place of Service**

Acute inpatient hospital.

G. **Co-payments**


For NCHC refer to G.S. 108A-70.21(d)

H. **Reimbursement**

Provider(s) shall bill their usual and customary charges.

For a schedule of rates, refer to: [http://dma.ncdhhs.gov/](http://dma.ncdhhs.gov/)

I. **Billing for Donor Expenses**

1. **Billing for Donor Expenses for Medicaid Beneficiaries**

Donor transplant-related medical expenses are billed on the Medicaid beneficiary’s transplant claim using the beneficiary’s Medicaid identification number.

Medicaid reimburses only for the actual donor’s transplant-related medical expenses. Medicaid does not reimburse for unsuccessful donor searches.

2. **Billing for Donor Expenses for NCHC Beneficiaries**

Donor transplant-related medical expenses donors are billed on the NCHC beneficiary’s transplant claim.

NCHC reimburses only for the actual donor’s transplant-related medical expenses. NCHC does not reimburse for unsuccessful donor searches.

3. **Cadaveric/Deceased Organ Donations**

Donor expenses (procuring, harvesting, and associated surgical and laboratory costs) for cadaveric/deceased organ donations are covered for a kidney transplant.

4. **Living Organ Donations**

Donor expenses (procuring, harvesting, and associated surgical and laboratory costs) for living organ donations are covered for a kidney transplant. Medicaid and NCHC cover reimbursement only for the approved donor.