The American Society for Apheresis would like to thank and recognize the members of its Public Affairs and Advocacy Committee for their participation in the development of this Guide:

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The American Society for Apheresis provides this guide as a resource to help you communicate more effectively with your billing staff about:

- Use of billing codes – the “language” of insurance claims and communications – to more accurately bill payers for your services
- How insurance billing and payment works in different treatment settings for the types of therapeutic apheresis procedures you perform

We hope you find this guide to be a useful tool as you work to minimize and resolve problems which may arise with insurance coverage or payment for your therapeutic apheresis services.

Important – Please Note:

The information provided in this guide is for illustrative purposes only, and does not constitute billing, reimbursement or legal advice. Neither the American Society for Apheresis nor any of its members or supporters makes any representation or warranty concerning this information or its completeness, accuracy or timeliness. No entity involved in the preparation of this guide makes any representation about the likelihood of success in obtaining insurance coverage or reimbursement for any service.

It is solely the responsibility of the provider to determine and submit appropriate codes, charges and other documentation in claims for services rendered.

For citation purposes, please use the following:


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Preface

The members of the American Society for Apheresis (ASFA) Public Affairs and Advocacy Committee are pleased to share with the Society’s membership the latest update to *Therapeutic Apheresis: A Guide to Billing and Securing Appropriate Reimbursement*. Below are listed the significant changes that appear in the 2017 edition of the Reimbursement Guide:

- All 2016 Ambulatory Payment Classifications (APCs) assigned to therapeutic apheresis and other procedure codes have been replaced with new APCs in calendar 2017.

- Plateletpheresis (CPT 36513) has been reassigned from an APC long shared with plasmapheresis (CPT 36514) to a lower-paying APC for calendar 2017.

- All Medicare payment rates for products and hospital and physician services have been updated to reflect the current 2017 rate schedules.

- Referenced Medicare regulations and other resources, including the bibliography for further reading, have been updated.

- FDA has approved a revised indication for LDL-C apheresis on the Liposorber System, reducing the lower threshold for baseline LDL-C to $\geq 160$ mg/dL for hypercholesterolemic heterozygotes with coronary heart disease or peripheral arterial disease.

- Important information regarding pertinent documentation related to reimbursement has been included in Appendix 1.

The committee encourages the membership to contact the Society regarding any problems, errors, omissions or additional information which a member believes should be included in future editions of the document so that these items can be addressed by the committee. In addition, the committee is interested in receiving feedback from members about potential reimbursement issues that they have encountered as relates to information provided in the current edition of the Guide.

The committee wishes to thank Keith Berman and members of the Malachite Management team for their work and support of this endeavor.

Sincerely,

*Members of the Public Affairs and Advocacy Committee*
Introduction: The Insurance Billing Process

As a provider of therapeutic apheresis services, you rely on payment from a variety of public and commercial insurers, which can present a range of coverage and payment policies.

Insurance coverage of different types of therapeutic apheresis procedures is discussed in several sections of this guide.

To secure appropriate payment, your billing staff must assure that the insurance claim is complete and accurate. In certain instances, the claim must be customized to conform with the requirements of a particular insurer, or to alert that insurer to a contractual agreement.

The mechanics of insurance billing process for apheresis services can be subdivided on the basis of:

- **The treatment setting** in which the service is performed (hospital vs. physician office/physician-directed clinic);
- **The provider** that is submitting a service claim (physician or hospital).

When therapeutic apheresis services are provided in the hospital inpatient or outpatient setting generally involves separate submission of two claim forms:

- The **CMS-1500** by the physician, to facilitate payment for the physician’s professional services associated with the procedure; and
- The **UB-04** by the hospital, to facilitate payment for the technical service itself (including non-physician procedure staff, disposable supplies, equipment costs, space costs, etc.).

When the procedure is performed in a physician office or clinic, only a **single** CMS-1500 claim form is required.
Hospital Billing on the UB-04 Claim Form

The hospital’s “charge master” contains a database of thousands of services and items.

Each of these services and items is assigned not only a charge but an associated CPT\textsuperscript{1} or HCPCS\textsuperscript{2} Level II billing code to identify it for the insurer, and a three-digit revenue code which allows it to be grouped by type of service, or by a specific operating department in the hospital.

Every time a procedure is performed or an item is used for a hospital inpatient or outpatient, a paper or electronic “charge slip” is generated and sent to the billing department to be added to the patient’s claim.

Separately, both input from the attending physician and examination of patient chart notes enables billing staff to enter ICD-10-CM\textsuperscript{3} diagnosis codes and ICD-10-PCS\textsuperscript{4} procedure codes.

### Key billing codes used with the UB-04 hospital claim form

<table>
<thead>
<tr>
<th><strong>CPT codes</strong></th>
<th>identify outpatient procedures, physician services and hospital laboratory services</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HCPCS Level II codes</strong></td>
<td>identify drugs, biologicals, blood products, durable medical equipment (DME), certain supplies and selected procedures</td>
</tr>
<tr>
<td><strong>ICD-10-CM\textsuperscript{3} diagnosis codes</strong></td>
<td>identify diseases and injuries; code a 5\textsuperscript{th} digit when applicable</td>
</tr>
<tr>
<td><strong>ICD-10-PCS\textsuperscript{4} procedure codes</strong></td>
<td>identify procedures in the hospital inpatient setting</td>
</tr>
<tr>
<td><strong>Revenue codes</strong></td>
<td>group similar types of hospital services and items by type of service</td>
</tr>
</tbody>
</table>

\textsuperscript{1}Current Procedural Terminology: CPT© 2017. American Medical Association. All rights reserved.

\textsuperscript{2}Healthcare Common Procedure Coding System.

\textsuperscript{3}International Classification of Diseases, 10\textsuperscript{th} Revision, Clinical Modification.

\textsuperscript{4}International Classification of Diseases, 10\textsuperscript{th} Revision, Procedure Coding System.

\textsuperscript{5}There are 12 A/B MAC jurisdictions.
Sample Coding of a Hospital Therapeutic Apheresis Claim

<table>
<thead>
<tr>
<th>Revenue codes (cost centers)</th>
<th>CPT procedure code: Therapeutic apheresis; for plasmapheresis</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 LABORATORY</td>
<td>REQUIRED ONLY FOR HOSPITAL INPATIENTS</td>
</tr>
<tr>
<td>250 PHARMACY</td>
<td>REQUIRED ONLY FOR HOSPITAL OUTPATIENTS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HCPCS Level II code: Infusion, albumin (human), 5%, 250 ml (10 units)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>ICD-10-CM diagnosis code: Myasthenia gravis (principal diagnosis)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICD-10-PCS procedure code(s): REQUIRED ONLY FOR HOSPITAL INPATIENTS</td>
</tr>
</tbody>
</table>
Physician Billing on the CMS-1500 Claim Form

NOTE: The physician can separately bill an Evaluation & Management (E/M) code for a history and physical exam to determine the appropriateness of the therapeutic apheresis procedure, as long as the E/M service is performed on a different day than physician supervision (and billing) of the apheresis procedure.¹

Key billing codes used for the CMS-1500 physician claim form

- **CPT codes**: identify billable procedures and services
- **HCPCS Level II codes**: identify drugs, biologicals, blood products, durable medical equipment (DME), certain supplies and selected procedures
- **ICD-10-CM diagnosis codes**: identify diseases and injuries; comprise 3 to 7 digits
- **Place of Service codes**: informs insurer where the apheresis procedure was performed; dictates payment for global service or professional component only

Effective 10/1/2015, ICD-10-CM codes replaced ICD-9-CM codes for diagnosis coding in all settings.

¹A physician may bill an E/M code on the same date as supervision of an apheresis procedure only when (1) the E/M code is for a separately identifiable service that involves more than the E/M portion of the apheresis procedure and (2) the E/M service involves a different diagnosis than the diagnosis for which the apheresis procedure is being performed. Add a “-25” modifier to the E/M code.
Codes Used to Identify and Bill Apheresis Services

**Procedure codes:**

<table>
<thead>
<tr>
<th>CPT procedure codes</th>
<th>ICD-10-CM procedure codes &amp; nomenclature*</th>
</tr>
</thead>
<tbody>
<tr>
<td>36511</td>
<td>6A550Z1 Therapeutic leukopheresis</td>
</tr>
<tr>
<td></td>
<td>(therapeutic leukocytapheresis)</td>
</tr>
<tr>
<td>36512</td>
<td>6A550Z0 Therapeutic erythrocytapheresis</td>
</tr>
<tr>
<td></td>
<td>(therapeutic erythrophoresis)</td>
</tr>
<tr>
<td>36513</td>
<td>6A550Z2 Therapeutic plateletpheresis</td>
</tr>
<tr>
<td>36514</td>
<td>6A550Z3 Therapeutic plasmapheresis</td>
</tr>
<tr>
<td>36516</td>
<td>6A55** Therapeutic apheresis, other</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>36522</td>
<td>6A650ZZ Therapeutic photopheresis</td>
</tr>
<tr>
<td>38205</td>
<td>6A550ZV Apheresis (harvest) of stem cells</td>
</tr>
<tr>
<td>38206</td>
<td>6A550ZV Apheresis (harvest) of stem cells</td>
</tr>
</tbody>
</table>

*Effective since October 1, 2015, ICD-10-PCS procedure codes replaced ICD-9-CM procedure codes specifically in the hospital inpatient setting.

**No specific ICD-10-PCS code has been defined for this procedure.

Common revenue codes used by hospitals on UB-04 claim form:

<table>
<thead>
<tr>
<th>Revenue code</th>
<th>Descriptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 (309)</td>
<td>Laboratory – General Classification (Other Laboratory)</td>
</tr>
<tr>
<td>510 (519)</td>
<td>Clinic – General Classification (Other Clinic)</td>
</tr>
<tr>
<td>20X</td>
<td>Intensive Care (200 – General; 202 – Medical; 209 – Other)</td>
</tr>
<tr>
<td>390 (399)</td>
<td>Blood Storage and Processing – General Classification (Other BSP)</td>
</tr>
<tr>
<td>280 (289)</td>
<td>Oncology – General Classification (Other Oncology)</td>
</tr>
<tr>
<td>940 (949)</td>
<td>Other Therapeutic Services – General Classification (Other Therap Services)</td>
</tr>
</tbody>
</table>

Diagnosis codes: See “Focus” sections for specific therapeutic apheresis procedures.
Insurance Coverage for Therapeutic Apheresis Services

Below are general principles which broadly apply to coverage determination (the “Focus” sections that follow address insurance coverage issues for specific apheresis procedures):

- **The scope of coverage** – all conditions determined to be medically necessary – may vary by insurer, depending on their methodology and rigor in establishing and updating their coverage policies.

  Some insurers use clinical consultants to help define or refine coverage policies, others adapt Medicare coverage policies, and still others contract the services of third party administrators (TPAs). Increasingly, formal **technology assessments** influence coverage policy-making (see below).

- Therapeutic apheresis services are often covered by insurers only if the patient meets certain additional laboratory, diagnostic and/or clinical criteria.

  *Example 1:* ABC Health Plan covers TPE for exacerbations of relapsing forms of multiple sclerosis that are resistant to high-dose corticosteroids.

  *Example 2:* XYZ Care covers plateletpheresis for essential thrombocythemia when platelet count exceeds 1,000,000 per mm³.

- **Preauthorization** (physician) or **precertification** (hospital) is commonly required by commercial insurers (HMOs, PPOs, indemnity plans, point-of-service plans) and Medicaid programs prior to performing therapeutic apheresis procedures.

  The insurer may specify documentation required for review by a case manager or medical director. This typically includes a detailed patient history, examination, treatment and/or laboratory records. Appendix 1 provides a guideline for preparing what is commonly referred to as a “Letter of Necessity” (LON) or “Statement of Medical Necessity” (SOMN) to accompany supportive medical and lab records.

- In some instances, coverage may be determined on an **individual consideration basis**, particularly where published clinical evidence is suggestive (e.g. successful case reports or small patient studies) but inconclusive or controversial.

- Medicare claims contractors do not require prior authorization. Depending on the procedure and clinical indication, coverage may variously be based on a Medicare National Coverage Determinations (NCD) or a Local Coverage Determination (LCD), or may be determined on an individual consideration basis.

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**Examples of Treatment Guidelines and Technology Assessments That Can Influence Insurance Coverage Policies for Therapeutic Apheresis Services**


Medicare Payment in the Hospital Outpatient Setting

Medicare groups hospital outpatient procedures involving similar types and resources into ambulatory payment classifications (APCs) for purposes of payment.

With the special exception of plasmapheresis (CPT 36514), single APCs apply for all therapeutic apheresis and stem cell collection procedures:

<table>
<thead>
<tr>
<th>CPT/HCPCS and Description</th>
<th>2017 APC</th>
<th>2017 Payment Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>36511 Therapeutic apheresis; for white blood cells</td>
<td>5242²</td>
<td>$1,098¹</td>
</tr>
<tr>
<td>36512 for red blood cells</td>
<td>5242²</td>
<td>$1,098¹</td>
</tr>
<tr>
<td>38206 Blood-derived hematopoietic stem cell harvesting for transplantation; autologous</td>
<td>5241</td>
<td>$354¹</td>
</tr>
<tr>
<td>38230 for platelets</td>
<td>5241</td>
<td>$354¹</td>
</tr>
<tr>
<td>38241 Therapeutic apheresis; for plasmapheresis</td>
<td>5243³</td>
<td>$3,186¹</td>
</tr>
<tr>
<td>P9045 Infusion, albumin (human), 5%, 250 ml</td>
<td>0963</td>
<td>$54.72 x 10 = $547</td>
</tr>
<tr>
<td>[ex: patient requires 10 units]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹The actual payment rate for procedure-based APCs is adjusted for hospitals in each geographic locality by applying the "IPPS wage index" to the labor-related portion of the payment rate to reflect geographic wage variations. Federal Register, Vol. 81, No. 219, November 14, 2016, p. 79597.
²Four other procedures also assign to APC 5242 (previously 5271 in CY2016): CPT 38230 and 38241-38243.
³Currently applies to LDL-C apheresis (Liposorber® and Plasmat Futura/Plasmat Secura H.E.L.P.® Systems).
⁴Two other procedures also assign to APC 5243 (previously 5281 in CY 2016): CPT 36515 and 38232.
Medicare Payment in the Hospital Inpatient Setting

Medicare compensates hospitals for inpatient stays with prospectively fixed payments that correspond to more than 700 Medicare Severity Diagnosis-Related Groups (MS-DRGs). While some MS-DRGs are assigned on the basis of a major operating room procedure, the MS-DRGs for inpatient stays which involve a therapeutic apheresis are usually driven instead by the principal diagnosis – the diagnosis that accounted for the patient’s hospitalization.

Below is an example of a claim submitted to the hospital’s local Medicare claims contractor, which illustrates how an MS-DRG is assigned in accordance with submitted codes. This patient diagnosed with an uncomplicated case of Guillain-Barré syndrome1 received a total of five therapeutic plasma exchange (TPE) procedures over her hospital stay.

MS-DRG 096 and its associated payment rate also applies for Medicare hospitalizations for nearly 50 other principal diagnoses, including various meningitis and encephalitis conditions. Your hospital’s payment rate is based primarily on the “relative weight” assigned to MS-DRG 096. Had this patient experienced complications and/or comorbidities (CCs) or major CCs, payment would reflect higher-paying MS-DRG 095 or 094, respectively.

An admission for the closely related disorder chronic inflammatory demyelinating polyradiculoneuropathy (CIDP; ICD-10-CM G61.81), without presence of major CCs, groups to MS-DRG 074 (Cranial and Peripheral Nerve Disorders Without Major CCs). The Medicare payment rate for this hospitalization is less than one-half that for a Guillain-Barré case.

1Also referred to as acute inflammatory demyelinating polyradiculoneuropathy (AIDP) or acute infective polyneuritis.
Medicare Payment in the Hospital Inpatient Setting – continued:

reflecting the typically shorter hospital stay and less intensive treatment demands of this disorder.

Below are examples of MS-DRGs commonly assigned for Medicare hospital inpatient stays in which therapeutic plasma exchange is commonly used to treat the principal diagnosis.

<table>
<thead>
<tr>
<th>Principal Diagnosis</th>
<th>ICD-10-CM</th>
<th>MS-DRG</th>
<th>2017 relative weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guillain Barré syndrome (without CC)</td>
<td>G61.0</td>
<td>096</td>
<td>2.1418</td>
</tr>
<tr>
<td>Guillain Barré syndrome (with major CC)</td>
<td>G61.0</td>
<td>094</td>
<td>3.4820</td>
</tr>
<tr>
<td>Rapidly progressive nephritic syndrome with diffuse membranous glomerulonephritis (with major CC)</td>
<td>N01.2</td>
<td>698</td>
<td>1.5661</td>
</tr>
<tr>
<td>Thrombotic thrombocytopenic purpura (with major CC)</td>
<td>M31.1</td>
<td>545</td>
<td>2.4500</td>
</tr>
<tr>
<td>Cryoglobulinemia (with major CC)</td>
<td>D89.1</td>
<td>823</td>
<td>4.4304</td>
</tr>
<tr>
<td>Chronic inflammatory demyelinating polyneuropathy</td>
<td>G61.81</td>
<td>074</td>
<td>0.9190</td>
</tr>
<tr>
<td>Myasthenia gravis with exacerbation (acute)</td>
<td>G70.01</td>
<td>057</td>
<td>1.1198</td>
</tr>
</tbody>
</table>

CC = complications and comorbidities

A formula utilizing the “relative weight” for the assigned MS-DRG and a number of other variables, including local wage rates, uncompensated care burden and graduate medical education activity, is used to calculate each hospital’s payment rate for that MS-DRG.

Two points concerning MS-DRGs and Medicare payment rates:

1. The MS-DRG-based payment rate for a hospitalization is independeht of whether therapeutic apheresis was provided, or the number of apheresis procedures provided over the course of the stay; and

2. The MS-DRG, and thus the payment rate, is usually driven by the patient’s principal diagnosis. It is not influenced by the use of apheresis, administration of drugs or biologicals like IVIG, or by other resources required over the course of the stay.

As MS-DRG assignments are based on coding and supporting documentation in the hospital chart, it is important that all medical records:

- Be comprehensive and complete
- Include all diagnoses, procedures, complications, and comorbidities
- Be legible

This attention to accuracy and detail facilitates proper coding, thereby maximizing the likelihood of appropriate MS-DRG assignment.
Medicare Payment for Office-Based Plasma Exchange, Immunoadsorption, LDL-C Apheresis, and Photopheresis

Medicare covers and pays for the technical and professional service components of therapeutic plasma exchange (TPE) (CPT 36514), immunoadsorption with plasma reinfusion¹ (CPT 36515) and selective adsorption or filtration with plasma reinfusion (LDL-C apheresis) (CPT 36516) procedures in the office-based setting. Calendar year 2017 Medicare payment rates in this treatment setting incorporate (1) physician work, (2) procedural overhead including all practice expenses and (3) a small allocation for malpractice insurance.

Medicare similarly pays for practice expense, physician work and malpractice costs assigned to photopheresis (CPT 36522) when performed in the office-based setting.

The same diagnosis-driven coverage policies apply for procedures performed in physician-directed clinics as well as hospital outpatient departments.

### Calendar 2017: Practice Expense Relative Value Units (RVUs) Now Defined for Therapeutic Apheresis Services in the Physician Office-Based Setting

<table>
<thead>
<tr>
<th>CPT</th>
<th>Description</th>
<th>MD work RVUs</th>
<th>Non-facility PE³ RVUs</th>
<th>Malpractice RVUs</th>
<th>Non-facility total</th>
</tr>
</thead>
<tbody>
<tr>
<td>36514</td>
<td>Apheresis, plasma</td>
<td>1.74</td>
<td>13.43</td>
<td>0.17</td>
<td>15.34</td>
</tr>
<tr>
<td>36516</td>
<td>Apheresis, selective</td>
<td>1.22</td>
<td>58.05</td>
<td>0.30</td>
<td>59.57</td>
</tr>
<tr>
<td>36522</td>
<td>Photopheresis</td>
<td>1.67</td>
<td>38.48</td>
<td>0.12</td>
<td>40.27</td>
</tr>
</tbody>
</table>

The Medicare office-based payment rate in a specific locality is based on the conversion factor (CF) and local geographic practice cost indices (GPCIs). The CF for calendar year 2017 is $35.89.

**Example:** The U.S. average calendar 2017 Medicare payment rate for an office-based TPE procedure (not including albumin) is $35.89 x 15.34 RVUs = **$550.55**.

### Payment for albumin replacement solution.

On a quarterly basis Medicare publishes its “payment allowance limits” for 5% 250 ml human albumin (P9045) and plasma protein fraction (P9048) products, as well as these products in other concentrations and volumes. Current payment rates are accessible on the CMS website or from your local Medicare contractor. Commercial insurers should be billed using the same HCPCS code and your submitted charge.

When a procedure is performed in the hospital setting, the physician bills only for his or her professional services. The Medicare payment rate will reflect the same physician work and malpractice expense RVUs, together with nominal “facility practice expense RVUs” (facility = hospital). These facility PE RVUs range from 0.50 to 1.16 RVUs, depending on the specific procedure. Total 2017 physician supervision RVUs for procedures performed in the hospital setting range from **2.02 to 2.95**.²

¹The Prosorba® immunoadsorption column technology, which codes to CPT 36515, is no longer commercially available in the U.S. No other apheresis procedures currently code to CPT 36515.


³Non-facility PE = non-hospital (physician office or clinic) practice expense.
Payment Policies by Commercial Insurers

**Hospital:**

**Outpatient Setting:**

Most claims for hospital outpatient services are paid on the basis of:

- A set rate schedule for CPT- and HCPCS-coded services/products or
- A percentage of the hospital's submitted charges.

In both scenarios, each therapeutic apheresis service is directly reimbursed by the payer, on the basis of pre-negotiated terms between the insurer and the hospital.

**Inpatient Setting:**

Per diems (fixed payment per hospitalization day) represent the predominant payment mechanism for hospital stays required to manage medical conditions.* Therapeutic apheresis services do not directly affect the per diem rate; this is true also when other costly resources are used (e.g. IVIG, lab tests). “Outlier” provisions may provide additional reimbursement when overall costs exceed a certain threshold.

**Physician:**

**Hospital Inpatient or Outpatient Setting:**

Without regard to whether an apheresis procedure was performed on a hospital outpatient or inpatient, the physician’s separately billed professional fee is paid in accordance with the insurer’s allowable amount (or “allowed charge”).

Some commercial insurers set their physician reimbursement based on actual charges in the locality they serve. Others may pay the lesser of the physician charge or a rate schedule amount based on RVUs specified in the Medicare Physician Fee Schedule.

Important: For additional information regarding physician (and non-physician) documentation, please refer to Appendix 1 (page 24): Important Information Regarding Pertinent Documentation Related to Reimbursement.

**Physician Office or Physician-Directed Clinic Setting:**

As noted earlier, Medicare now identifies relative value units (RVUs) for “nonfacility practice expenses” applicable to TPE (CPT 36514), immunoadsorption with plasma reinfusion (CPT 36515), selective adsorption or filtration with plasma reinfusion (CPT 36516) and/or extracorporeal photopheresis (CPT 36522).

Many commercial insurers may elect to base their payment rates on these new RVUs. Others will set payment rates on the basis of submitted charges or some other basis. Until these apheresis services become commonplace, some physicians can expect a back-and-forth process of rate negotiation with commercial insurers that agree to cover therapeutic apheresis procedures for their patients in the physician office or clinic setting.
Focus on Therapeutic Plasma Exchange (TPE)

Diagnosis Coding and Coverage:

Therapeutic plasma exchange (TPE) (CPT 36514) has been shown to be effective either as primary, adjunctive or supportive therapy for a number of disorders, including but not limited to hematological, neurological, renal, and autoimmune disorders.

The benefits of TPE for many other proposed applications remain uncertain or unproven. These include ASFA’s Category III disorders for which “the optimum role of apheresis therapy is not established.” (J Clin Apher 2016 June; 31[3]: 151).

Coverage of some diagnoses can be inconsistent from one insurer to the next, which is thus it is important to secure preauthorization for TPE therapy when required.

Below are selected diagnoses for which TPE is commonly covered, variously as first-line therapy, adjunctive therapy, or as “last resort” or salvage therapy:

<table>
<thead>
<tr>
<th>Diagnosis</th>
<th>ICD-10-CM</th>
<th>Diagnosis</th>
<th>ICD-10-CM*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guillain-Barré syndrome</td>
<td>G61.0</td>
<td>CIDP</td>
<td>G61.81</td>
</tr>
<tr>
<td>Lambert-Eaton myasthenic syndrome</td>
<td>G70.80</td>
<td>Thrombocytopenia, exchange transfusion</td>
<td>G61.0</td>
</tr>
<tr>
<td>Myasthenia gravis/in crisis</td>
<td>G70.00/01</td>
<td>Sydenham’s chorea</td>
<td>I02.0</td>
</tr>
<tr>
<td>Macroglobulinemia (incl. Waldenstrom’s)</td>
<td>C88.0</td>
<td>Thrombotic thrombocytopenic purpura (TTP)</td>
<td>M31.1</td>
</tr>
<tr>
<td>Glomerulonephritis w/anti-glomerular BM antibodies</td>
<td>M31.0</td>
<td>Other paraproteinemias (e.g. cryoglobulinemia)</td>
<td>D89.1</td>
</tr>
<tr>
<td>Rapidly progressive glomerulonephritis (unspec-</td>
<td>N01.9</td>
<td>Systemic lupus erythematosus</td>
<td>M32.14</td>
</tr>
</tbody>
</table>

*Replaced ICD-9-CM diagnosis codes on October 1, 2015

### Therapeutic Cytapheresis: Examples of Generally Covered Clinical Diagnoses

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Commonly treated diagnoses</th>
<th>ICD-10-CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leukocytapheresis (CPT 36511)</td>
<td>Leukocytosis</td>
<td>D72.829</td>
</tr>
<tr>
<td>Erythrocytapheresis¹ (CPT 36512)</td>
<td>Sickle-cell disease</td>
<td>D57.1²</td>
</tr>
<tr>
<td></td>
<td>Polycythemia; erythrocytosis</td>
<td>D75.1</td>
</tr>
<tr>
<td>Plateletpheresis (CPT 36513)</td>
<td>Thrombocytosis, essential</td>
<td>D69.3</td>
</tr>
</tbody>
</table>

¹with red cell exchange for sickle-cell anemia
²predominantly sickle-cell crisis (D57.00) or sickle cell crisis with acute chest syndrome (D57.01) or sickle cell crisis with splenic sequestration (D57.02)
Medicare's Coverage Policy for Therapeutic Plasma Exchange

Medicare Contractors reference the policy below to make coverage determinations for claims which include outpatient TPE. Coverage of other disorders is at the Contractor's discretion.

Commercial insurers may or may not reference this coverage policy in making their own coverage determinations. Current ASFA clinical guidelines are detailed in the Guidelines on the Use of Therapeutic Apheresis in Clinical Practice (*J Clin Apher* 2016; 31[3]: 149-338).

Publication Number: 100-3
Effective Date: 7/30/1992

**Benefit Category:**
Incident to a physician's professional Service
Outpatient Hospital Services Incident to a Physician's Service
Physicians' Services

**Apheresis** (also known as pheresis or therapeutic pheresis) is a medical procedure utilizing specialized equipment to remove selected blood constituents (plasma, leukocytes, platelets, or cells) from whole blood. The remainder is retransfused into the person from whom the blood was taken.

For purposes of Medicare coverage, apheresis is defined as an autologous procedure, i.e., blood is taken from the patient, processed, and returned to the patient as part of a continuous procedure (as distinguished from the procedure in which a patient donates blood preoperatively and is transfused with the donated blood at a later date).

**Indications and Limitations of Coverage.** Apheresis is covered for the following indications:

- Plasma exchange for acquired myasthenia gravis;
- Leukapheresis in the treatment of leukemia;
- Plasmapheresis in the treatment of primary macroglobulinemia (Waldenstrom);
- Treatment of hyperglobulinemias, including (but not limited to) multiple myelomas, cryoglobulinemia and hyperviscosity syndromes;
- Plasmapheresis or plasma exchange as a last resort treatment of thrombotic thrombocytopenic purpura (TTP);
- Plasmapheresis or PE in the last resort treatment of life threatening rheumatoid vasculitis;
- Plasma perfusion of charcoal filters for treatment of pruritis of cholestatic liver disease;
- Plasma exchange in the treatment of Goodpasture's Syndrome;
- Plasma exchange in the treatment of glomerulonephritis associated with antglomerular basement membrane antibodies and advancing renal failure or pulmonary hemorrhage;
- Treatment of chronic relapsing polyneuropathy for patients with severe or life threatening symptoms who have failed to respond to conventional therapy;
- Treatment of life threatening scleroderma and polymyositis when the patient is unresponsive to conventional therapy;
- Treatment of Guillain-Barré Syndrome; and
- Treatment of last resort for life threatening systemic lupus erythematosus (SLE) when conventional therapy has failed to prevent clinical deterioration.

**Settings.** Apheresis is covered only when performed in a hospital setting (inpatient or outpatient) or in a nonhospital setting, e.g., a physician directed clinic when the following conditions are met:

- A physician (or a number of physicians) is present to perform medical services and to respond to medical emergencies at all times during patient care hours;
- Each patient is under the care of a physician; and
- All nonphysician services are furnished under the direct, personal supervision of a physician.
Focus on Therapeutic Plasma Exchange – continued:

**Payment: Hospital Outpatient**

**Commercial insurers.** Payment for the technical component of a TPE procedure is most commonly based either on a *fixed percentage of the hospital’s submitted charge* or the insurer's *fee schedule amount*.

It is important to consistently itemize – or “capture” – all drugs, IV fluids and supply items used in each TPE procedure, so they are all captured as charges on the claim.

Payment for the *physician’s professional services* associated with hospital-based procedures is usually based on the insurer’s allowable rate, which in turn is often tied to the 1.74 physician work RVUs defined for this service in 2017.

**Medicare.** The hospital Outpatient Prospective Payment System (OPPS) assigns:

| APC 5271 (Blood Product Exchange) for outpatient TPE claims coded with CPT 36514 | Payment Rate for APC 5271 |
| + An APC corresponding to the blood or plasma product replacing autologous plasma |

Earlier (see “Medicare Payment in the Hospital Outpatient Setting”) we reviewed a case example involving TPE (CPT 36514) with infusion of 10 units (250 mL) of 5% human albumin: the HCPCS Level II code for 5% 250 ml albumin (P9045) corresponds to APC 0963, whose 2017 payment rate is $54.72 per unit:

Other delivery forms of albumin (or plasma protein fraction) and fresh frozen plasma (FFP) may be administered or transfused as part of a TPE procedure; each groups to an APC, for which multiple “units” can be paid:

<table>
<thead>
<tr>
<th>Product</th>
<th>HCPCS-II</th>
<th>APC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albumin, 25%, 50 ml</td>
<td>P9047</td>
<td>0965</td>
</tr>
<tr>
<td>PPF, 5%, 250 ml</td>
<td>P9048</td>
<td>9519</td>
</tr>
<tr>
<td>Cryo-reduced plasma</td>
<td>P9044</td>
<td>9523</td>
</tr>
<tr>
<td>FFP, frozen ≤8 hours</td>
<td>P9017</td>
<td>9508</td>
</tr>
</tbody>
</table>

See Appendix 2 for a list of 2017 HCPCS codes for billing albumin, FFP, and blood components.

The same dual payment methodology applies for outpatient *red cell exchange*:

P9016 RBCs, leukoreduced

↓

APC 9512

↓

Payment rate × Units
Focus on Therapeutic Plasma Exchange – continued:

Payment: Hospital Outpatient (continued)

Below again are the two APCs which correspond to the eight therapeutic apheresis and autologous stem cell harvesting procedures. Note that the descriptors for these APCs are confusing and potentially misleading. It is best to refer to them solely by their numbers.

<table>
<thead>
<tr>
<th>CPT and Description</th>
<th>APC 5241 Level 1 Blood Product Exchange and Related Procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>36513 Therapeutic apheresis; for platelets</td>
<td></td>
</tr>
<tr>
<td>36511 Therapeutic apheresis; for white blood cells</td>
<td></td>
</tr>
<tr>
<td>36512 for red blood cells</td>
<td></td>
</tr>
<tr>
<td>36514 for plasmapheresis</td>
<td></td>
</tr>
<tr>
<td>38206 Blood-derived hematopoietic stem cell harvesting for transplantation; autologous</td>
<td></td>
</tr>
<tr>
<td>36515 Therapeutic apheresis; with extracorporeal immunoadsorption and plasma reinfusion</td>
<td></td>
</tr>
<tr>
<td>36516 Therapeutic apheresis; with extracorporeal selective adsorption or selective filtration and plasma reinfusion</td>
<td></td>
</tr>
<tr>
<td>36522 Photopheresis, extracorporeal</td>
<td></td>
</tr>
</tbody>
</table>

* CPT 38230 and 38241-43 also assign to APC 5242 (previously 5271 in CY 2016)
** CPT 38232 also assign to APC 5243 (previously APC 5281 in CY 2016)

Payment: Hospital Inpatient

Commercial insurers. The costs of TPE may be subsumed under a flat per diem payment rate negotiated between the hospital and the insurer; there is no separate payment for TPE in this circumstance. Less frequently, TPE may be subsumed under a fixed, prospectively determined payment rate for the entire hospital stay, or paid on the basis of a negotiated percentage of charges.

Medicare. Refer to “Medicare Payment in the Hospital Inpatient Setting” (pp. 8-9), which provides an example of a Guillain-Barré patient treated with plasma exchange.

Payment: Physician Office or Physician-Directed Clinic

Refer to the Guide section titled “Medicare Payment for Office-Based Plasma Exchange, Immunoadsorption, LDL-C Apheresis and Photopheresis” (page 10).
Focus on Extracorporeal Photopheresis (ECP)

*Diagnosis Coding:*

Extracorporeal photopheresis (ECP) is indicated by the FDA for treatment of cutaneous T cell lymphoma (CTCL), which is a general term for two closely related malignancies:

<table>
<thead>
<tr>
<th>Diagnosis</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mycosis fungoides</td>
<td>C84.0</td>
</tr>
<tr>
<td>Sézary disease</td>
<td>C84.1</td>
</tr>
</tbody>
</table>

Other non-indicated clinical applications for which ECP is utilized include:

<table>
<thead>
<tr>
<th>Condition</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic graft-versus-host disease</td>
<td>D89.813</td>
</tr>
<tr>
<td>Complications of bone marrow transplant</td>
<td>T86.00</td>
</tr>
<tr>
<td>Complications of stem cell transplant</td>
<td>T86.5</td>
</tr>
<tr>
<td>Heart transplant rejection</td>
<td>T86.21</td>
</tr>
<tr>
<td>Lung transplant rejection</td>
<td>T86.810</td>
</tr>
</tbody>
</table>

*Medicare* covers ECP solely for:

- **Palliative treatment of skin manifestations of CTCL** in patients who have failed to adequately respond to conventional therapy;
- **Chronic graft-versus-host disease (cGVHD)** that is refractory to standard immunosuppressive drug therapy;
- **Rejection of a cardiac allograft** that is refractory to standard immunosuppressive drug therapy.
- **Bronchiolitis obliterans syndrome (BOS) following lung allograft transplantation**, when provided as a participating site in an approved clinical study under Coverage with Evidence Development (CED).*

*For information about this registry study, visit [https://clinicaltrials.gov/ct2/show/NCT02181257](https://clinicaltrials.gov/ct2/show/NCT02181257).

Most **commercial insurers** cover ECP for CTCL and for cGVHD that is refractory to standard drug therapy. Additionally they may formally cover drug-refractory cardiac allograft rejection and certain other diagnoses, or may cover these uses on an individual consideration basis. Preauthorization or precertification for a planned series of treatments should always be secured from the primary and, as applicable, secondary insurer.
Focus on Extracorporeal Photopheresis – continued:

Payment: Hospital Outpatient

Commercial insurers. Payment for the technical component of an ECP procedure is most commonly based on a fixed percentage of the hospital's submitted charge or the insurer's fee schedule amount. Periodically there may be a negotiation between the institution and the insurer to arrive at a mutually acceptable payment rate.

For bone marrow or stem cell transplant patients, many insurers negotiate a global case rate which includes all hospital (and often physician) services provided over the first 6-12 weeks of outpatient treatment. Thus, unless stipulated otherwise, ECP services to treat GVHD during that global period would be included in that global case rate. Subsequent to the global period, ECP procedures preauthorized up to a designated number or time frame are separately paid.

Payment for the physician's professional services associated with hospital-based procedures is usually based on the insurer's allowable rate schedule amount. The physician may separately bill one Evaluation & Management (E&M) service for a history/physical exam to determine the appropriateness of the first day's procedure.

Medicare. The Medicare Hospital Outpatient Prospective Payment System (HOPPS) assigns APC 5243 (Level 3 Blood Product Exchange and Related Procedures) to outpatient photopheresis claims coded with CPT 36522:

The physician's professional services are paid by submitting a claim (CMS-1500) to the local Medicare MAC:

1Medicare Carriers and Intermediaries have been replaced by Medicare Administrative Contractors (MACs), which provide both hospital and physician claims processing services.

2Adjusted to reflect geographic wage variations using the local wage index. If a different procedure is also performed on the same day, payment for the ECP procedure under APC 5243 is not discounted.
Focus on Extracorporeal Photopheresis – continued:

**Payment: Hospital Inpatient**

While most patients are treated with ECP on an outpatient basis, some may have already been hospitalized to acutely manage their illness. In selected instances, some physicians prefer to hospitalize the patient for his or her ECP therapy.

In the event that this procedure is provided in the inpatient setting, below are payment policies which most commonly apply.

**Commercial insurers.** The costs of ECP may be subsumed under a flat [per diem](#) payment rate negotiated between the hospital and the insurer; there is no separate payment for ECP in this circumstance. Less frequently, ECP may be subsumed under a fixed, prospectively determined payment rate for the entire hospital stay, or paid on the basis of a negotiated percentage of charges.

**Medicare.** Unlike Medicare outpatients, for whom payment is driven by the CPT 36522 procedure code, the two major MS-DRGs which apply for inpatients treated for CTCL are driven by [ICD-10-CM diagnosis codes](#):

### Principal diagnosis:
- C84.0 Mycosis fungoides
- C84.1 Sézary disease

### Other diagnosis:
- J96.0 Acute respiratory failure

<table>
<thead>
<tr>
<th>Hospital claim form</th>
<th>Groups to MS-DRG 840</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lymphoma and Non-Acute Leukemia With Major Complications &amp; Comorbidities (MCCs)</td>
</tr>
</tbody>
</table>

| Medicare Administrative Contractor (MAC) | Payment rate nearly 3 times the amount for MS-DRG 842 |

<table>
<thead>
<tr>
<th>Hospital claim form</th>
<th>Groups to MS-DRG 842</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lymphoma and Non-Acute Leukemia Without CCs/Major CCs</td>
</tr>
</tbody>
</table>

| Medicare Administrative Contractor (MAC) | Payment rate roughly one-third the amount for MS-DRG 840 |

### Principal diagnosis:
- C84.0 Mycosis fungoides
- C84.1 Sézary disease

### No complication or comorbidity

### Payment: Physician Office or Physician-Directed Clinic

Refer to the Guide section titled “[Medicare Payment for Office-Based Plasma Exchange, Immunoadsorption, LDL-C Apheresis and Photopheresis](#)” on page 10.
Focus on Selective Adsorption/Filtration (LDL-C Apheresis)

**Diagnosis Coding:**

At present, two FDA-approved LDL-C apheresis technologies (Liposorber and H.E.L.P. System) represent the only procedures which can be coded to CPT 36516. Other investigational procedures that selectively adsorb or filter out undesirable proteins or other plasma elements may also fall under CPT 36516 if licensed in the future for clinical use.

LDL-C apheresis is indicated for use in a narrowly defined patient population with **familial hypercholesterolemia (FH)** which requires chronic lowering of the plasma LDL cholesterol (LDL-C) level.

<table>
<thead>
<tr>
<th>Diagnosis</th>
<th>ICD-10-CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pure hypercholesterolemia</td>
<td>E78.0</td>
</tr>
<tr>
<td>Mixed hyperlipidemia*</td>
<td>E78.2</td>
</tr>
</tbody>
</table>

*Some insurers may not cover claims coded E78.2

**Procedure coding:**

<table>
<thead>
<tr>
<th>CPT 36516*</th>
<th>Physicians – CMS-1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physicians – CMS-1500</td>
<td></td>
</tr>
</tbody>
</table>

**Coverage:**

Most commercial insurers and two Medicare MACs¹ have a formal coverage policy for LDL-C apheresis, loosely modeled on FDA indications established in the mid-1990s for the two licensed LDL-C apheresis technologies. LDL-C apheresis is generally covered for patients who have completed, at minimum, a 6-month trial of an American Heart Association Step II diet (or equivalent) and maximum tolerated combination drug therapy designed to reduce LDL-C, and at their baseline examination meet the following additional criteria:

1. Heterozygous FH with LDL cholesterol (LDL-C) ≥ 300 mg/dl;
2. Heterozygous FH with LDL-C ≥ 200 mg/dl and documented coronary heart disease (CHD); and
3. Homozygous FH with LDL-C > 500 mg/dl.

Some coverage policies specify types of lipid-lowering drugs that must have been evaluated.

In 2011, the National Lipid Association (NLA) published a clinical practice guideline (Ito, MK et al. J Clin Lipidol 2011; 5: S38-S45) considerably expanding the LDL-C apheresis-eligible patient population. Some insurers may consider coverage for FH patients whose baseline LDL-C level falls below the labeled indication and within the NLA guideline range.

In actions in July 2015 and September 2016, the FDA approved modifications shown below in **bold** to the Group C indication for use of the Liposorber LDL-C apheresis system:

1. Group A: Functional hypercholesterolemic homozygotes with LDL-C> ≥ 500 mg/dl;
2. Group B: Functional hypercholesterolemic homozygotes with LDL-C> ≥ 300 mg/dl;
3. Group C: Functional hypercholesterolemic homozygotes with LDL-C> ≥ 160 mg/dl and either documented coronary heart disease or peripheral arterial disease.

¹Noridian Healthcare Solutions (13 western states) and First Coast Service Options (FL, PR).
Focus on Selective Adsorption/Filtration (LDL-C Apheresis) – continued:

**Payment: Hospital Outpatient**

**Commercial insurers.** Payment for the technical component of an LDL-C apheresis procedure is most commonly based on a fixed percentage of the hospital’s submitted charge or a negotiated fee schedule amount. There may be negotiation between the institution and the insurer to arrive at a mutually acceptable payment rate.

Payment of the physician fee associated with hospital-based LDL-C apheresis procedures is usually based on local physician charges or a fee schedule negotiated with the insurer.

**Medicare.** The Medicare hospital Outpatient Prospective Payment System (OPPS) assigns Ambulatory Payment Classification (APC) 5243 (Level 3 Blood Product Exchange and Related Procedures) to outpatient LDL-C apheresis claims coded with CPT 36516:

The physician’s professional services are paid by submitting a claim (CMS-1500) to the local Medicare Administrative Contractor:

Payment: **Physician-Directed Clinic**

Please refer to the guide section titled “Expanded Medicare Payment for Office-Based Plasma Exchange, Immunoadsorption, LDL-C Apheresis and Photopheresis” on page 10.

Payment: **Hospital Inpatient**

LDL-C apheresis generally is not provided on a hospital inpatient basis. Should such an instance occur, payment policies will conform to the same principles described in earlier sections covering CPT 36514 and CPT 36522.

---

1Medicare Carriers and Intermediaries have been replaced by Medicare Administrative Contractors (MACs), which provide both hospital and physician claims processing services.

2Adjusted to reflect geographic wage variations. If one or more other procedures are also performed on the same day, Medicare payment for APC 5243 assigned for LDL-C apheresis is not discounted.
Focus on Blood-Derived Stem Cell Harvesting

Two CPT procedure codes are respectively used to identify and bill apheresis-based collection of peripheral blood stem cells from allogeneic and autologous donors:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>38205</td>
<td>Blood-derived hematopoietic progenitor cell harvesting for transplantation, per collection; allogeneic</td>
</tr>
<tr>
<td>38206</td>
<td>Blood-derived hematopoietic progenitor cell harvesting for transplantation, per collection; autologous</td>
</tr>
</tbody>
</table>

Allogeneic (CPT 38205) or autologous (CPT 38206) stem cells acquired from one or more donor procedures are later transplanted into the intended recipient in a separately coded procedure on a separate claim form (and may be performed by a different entity):

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>38205</td>
<td>Allogeneic stem cell harvesting*</td>
</tr>
<tr>
<td>38206</td>
<td>Autologous stem cell harvesting</td>
</tr>
<tr>
<td>38240</td>
<td>Bone marrow or blood-derived peripheral stem cell transplantation; allogeneic</td>
</tr>
<tr>
<td>38241</td>
<td>Bone marrow or blood-derived peripheral stem cell transplantation; autologous</td>
</tr>
</tbody>
</table>

**Diagnosis Coding:**

In the same vein as diagnosis coding for therapeutic apheresis procedures, insurers review claims for stem cell harvesting to confirm the presence of a diagnosis for which both the harvesting and transplantation procedures are “reasonable and necessary.”

A claim for the outpatient stem cell harvesting procedure should identify the diagnosis (e.g. the leukemia, lymphoma, aplastic anemia or other ICD-10-CM coded condition) **for which the transplantation procedure is intended.** This applies also for the healthy matched allogeneic donor whose stem cells are being harvested for transplantation into a specified recipient; the ICD-10-CM diagnosis code corresponding to the recipient’s condition requiring the transplant should be entered on the claim for the donor stem cell harvesting procedure.

**Coverage:**

Effective 1/27/2016, Medicare revised its National Coverage Determination (NCD) for stem cell transplantation,* which identifies covered and non-covered diagnoses for allogeneic and autologous hematopoietic stem cell transplantation (HSCT). Coverage for allogeneic HSCT is also specified for several disorders pursuant to an approved prospective clinical study; these include defined subsets of patients with myelodysplastic syndromes (MDS), multiple myeloma, myelofibrosis (MF) and sickle cell disease (SCD).

Focus on Blood-Derived Stem Cell Harvesting – continued:

Below is a summary of indications for HSCT (and associated stem cell harvesting procedures) covered by Medicare when reasonable and necessary:

**Allogeneic Stem Cell Transplantation (CPT 38205, 38240)**

The following uses are covered under Medicare:
- Leukemia, leukemia in remission or aplastic anemia when reasonable and necessary
- Severe combined immunodeficiency disease (SCID) and Wiskott-Aldrich syndrome

Covered with evidence development (CED) under an approved prospective clinical study:
- Myelodysplastic syndrome (MDS)
- Durie-Salmon Stage II or III multiple myeloma
- Myelofibrosis (MF)
- Sickle cell disease (SCD)

**Autologous Stem Cell Transplantation (CPT 38206, 38241)**

The following uses are covered under Medicare when reasonable and necessary:
- Acute leukemia in remission with a high probability of relapse and no human leukocyte antigens (HLA)-matched
- Resistant non-Hodgkin’s lymphomas or those presenting with poor prognostic features following an initial response
- Recurrent or refractory neuroblastoma
- Advanced Hodgkin’s disease patients who have failed conventional therapy and have no HLA-matched donor
- Durie-Salmon Stage II or III patients that fit specified requirements; includes multiple myeloma and primary amyloidosis

**Payment: Hospital Outpatient**

**Commercial insurers.** Payment for the large majority of stem cell harvesting procedures falls under a negotiated global case rate for all transplantation-related services. A UB-04 claim form is still completed and submitted, but payment will be a fixed amount agreed to by the hospital and insurer.

Otherwise, payment for the technical component of a stem cell harvesting procedure is most commonly based either on a fixed percentage of the hospital’s submitted charge or the insurer’s rate schedule for CPT 38205 and 38206. If multiple harvesting procedures are required, they would be individually paid.

**Medicare.** Outpatient claims coded with CPT 38206 (autologous stem cell harvesting) are paid under APC 5242 (Level 2 Blood Product Exchange and Related Procedures). Multiple procedures performed on different days are separately payable. CPT 30205 (allogeneic stem cell harvesting) is not separately payable under the Medicare hospital outpatient prospective payment system.

**Payment: Physician**

When not subsumed under a global payment rate agreement, payment for the physician’s professional services associated with allogeneic or autologous hospital-based stem cell harvesting is based on the insurer’s allowable rate schedule amount, which in turn is usually tied to the physician work RVUs (1.5 RVUs in 2017) for the procedure.
Focus on Intravascular Access Device (IVAD) Maintenance

Defining and Documenting Costs of Catheter Declotting:
Declotting the implanted vascular access device (IVAD) used for venous access in some therapeutic apheresis patients engenders significant nurse technician labor, thrombolytic drug and supply costs.

It is important both to fully account for these costs and have robust standard procedures in place to assure that entries or charge slips are generated for your billing department to include in the insurance claim.

Coding Opportunities:
The following codes should be identified in the claim as appropriate:

<table>
<thead>
<tr>
<th>CPT / HCPCS-II</th>
<th>Procedure or item description*</th>
</tr>
</thead>
<tbody>
<tr>
<td>36593</td>
<td>Declotting by thrombolytic agent of implanted vascular access device or catheter</td>
</tr>
<tr>
<td>J2997</td>
<td>Injection, alteplase recombinant, 1 mg <em>(use for Activase, Cathflo)</em></td>
</tr>
<tr>
<td>J3364</td>
<td>Injection, urokinase, 5000 IU vial</td>
</tr>
</tbody>
</table>

*Bill multiple units when multiple units are used (e.g. bill 3 units of J2997 for 3 mg alteplase).

Coding for Medicare Payment in the Hospital Outpatient Setting:
For Medicare beneficiaries whose catheter occlusions are treated in the hospital outpatient department, the CPT procedure code 36593 assigns to an Ambulatory Payment Classification (APC):

Medicare has assigned a “T” status indicator to CPT 36593, which means that, if more than one APC is assigned on the same date of service, the one with the highest payment rate will be paid on a 100% basis, while this and all other procedures with the “T” status indicator will be paid at 50% of the normal payment rate.

All outpatient therapeutic apheresis procedures group to APCs with an “S” status indicator, and are never discounted. In the circumstance where this declotting procedure is performed in conjunction with an apheresis procedure, it will be paid at 50% of the payment amount that applies for APC 5694.

*Adjusted using the current IPPS wage index for each hospital to reflect geographic wage variations.
Appendix 1

Important Information Regarding Pertinent Documentation Related to Reimbursement

No statutory generating entity, regulatory agency, or accreditation agency has definitively promulgated the required type, extent, and format needed for physician documentation in the patient's medical record for apheresis service. Due to inquiries from ASFA membership as to how this should best be accomplished, an internal ASFA committee deliberated and in 2005 created the following document: Guidelines for Documentation of Therapeutic Apheresis Procedures in the Medical Record by Apheresis Physicians. As ASFA is a professional society, the recommendations are not binding or prescriptive. This guideline was based upon opinion as to a reasonable approach regarding adequate documentation to secure Medicare part B billing. These discussions and their subsequent articulation were predicated on the practice environment and available technologies at the time and have been referenced and adopted by many non-ASFA parties subsequently.

From these deliberations in 2005, it was recommended that in the apheresis procedure note the physician should document that he/she: (1) reviewed and evaluated pertinent clinical and lab data, (2) made the decision to perform the treatment that day, (3) saw and evaluated the patient for the procedure, and (4) remained available to respond in person to emergencies or other situations requiring his/her presence throughout the procedure (Guidelines For Documentation of Therapeutic Apheresis Procedures in the Medical Record by Apheresis Physicians. Available at: http://www.apheresis.org/?page=Guidelines).

Since the publication of this guideline, medicine and the technologies supporting medical care have markedly evolved. The workforce has contracted, mid-level provider participation is widely adopted, electronic medical records documentation has been de facto institutionalized, remote patient monitoring is feasible, and telemedicine/health is now recognized as legitimate practice. It is anticipated that due to these innovations, new guidance will be forthcoming from pertinent entities regarding acceptable documentation and billing options for such 21st century activities by medical practitioners, including Apheresis Medicine specialists. The ASFA Public Affairs Committee is monitoring developments in these areas especially as they pertain to the development of billing codes related to the provision of telemedicine services that Apheresis Medicine specialists may utilize in their management of patients receiving apheresis therapies.
Appendix 2

Useful Documentation to Include in a “Statement of Medical Necessity” for Insurance Preauthorization

[Date] [Medical Director name] [Insurance entity and address]

Patient name: **Name in bold**
Insurance plan number: **Number in bold**

- Document **patient age, diagnostic work-up, and related clinical history**. As appropriate, attach and reference test findings, disease scoring worksheets, etc. to more fully portray the patient’s clinical course and status.

- If applicable, include **detailed review of conventional therapy and documentation of the disappointing nature of the patient’s response**.

- Briefly overview **how the procedure works**, and its advantages in relation to other treatment alternatives.

- Describe your treatment plan: initial frequency and continuing frequency and length of therapy scenarios based on alternative response patterns.

- Educate the insurance plan’s Medical and/or Associate Medical Director about the clinical rationale for therapeutic apheresis in this particular patient:
  
  → **Cite and enclose copies of authoritative studies or reviews** which document the therapeutic benefit of the procedure in similar patients. *Cite literature which provides supportive evidence and conclusions.*

  → **Cite formal technology assessments** which support the medical necessity of therapeutic apheresis as primary, adjunctive or salvage therapy for your patient, as applicable.

  → **Ask for preauthorization of a specified number of treatments** likely to be required, again accompanied by either a major review or several citations in the literature which corroborate the use of a series of treatments.

  Insurers want and need a proposed treatment algorithm which (1) is reasonably consistent with the body of evidence in the published literature, and (2) allows a case manager to monitor progress and assure that futile or minimally effective therapy is *not* provided and billed.

- **Point out the urgency of a prompt response**, to enable your patient to begin receiving treatment as soon as possible. Note (as appropriate) that earlier initiation of therapy generally yields better outcomes, and again cite one or more supportive references; if available, enclose them in your letter.

- Offer to provide any **additional information** that might be needed concerning this patient, and include your direct telephone number. Use **a courteous and professional tone** throughout the letter.
## Appendix 3

### HCPCS Codes for Billing Albumin, FFP, and Red Blood Cells

<table>
<thead>
<tr>
<th>HCPCS-II Code</th>
<th>Albumin Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>P9041</td>
<td>Infusion, albumin (human), 5%, 50 ml</td>
</tr>
<tr>
<td>P9043</td>
<td>Infusion, plasma protein fraction (human), 5%, 50 ml</td>
</tr>
<tr>
<td>P9045</td>
<td>Infusion, albumin (human), 5%, 250 ml</td>
</tr>
<tr>
<td>P9046</td>
<td>Infusion, albumin (human), 25%, 20 ml</td>
</tr>
<tr>
<td>P9047</td>
<td>Infusion, albumin (human), 25%, 50 ml</td>
</tr>
<tr>
<td>P9048</td>
<td>Infusion, plasma protein fraction (human), 5%, 250 ml</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HCPCS-II Code</th>
<th>FFP and Red Blood Cell Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>P9010</td>
<td>Blood (whole), for transfusion, per unit</td>
</tr>
<tr>
<td>P9011</td>
<td>Blood (split unit), specify amount</td>
</tr>
<tr>
<td>P9012</td>
<td>Cryoprecipitate, each unit</td>
</tr>
<tr>
<td>P9016</td>
<td>Red blood cells, leukocytes reduced, each unit</td>
</tr>
<tr>
<td>P9017</td>
<td>Fresh frozen plasma (single donor), frozen within 8 hours of collection, each unit</td>
</tr>
<tr>
<td>P9021</td>
<td>Red blood cells, each unit</td>
</tr>
<tr>
<td>P9022</td>
<td>Red blood cells, washed, each unit</td>
</tr>
<tr>
<td>P9038</td>
<td>Red blood cells, irradiated, each unit</td>
</tr>
<tr>
<td>P9039</td>
<td>Red blood cells, deglycerolized, each unit</td>
</tr>
<tr>
<td>P9040</td>
<td>Red blood cells, leukocytes reduced, irradiated, each unit</td>
</tr>
<tr>
<td>P9044</td>
<td>Plasma, cryoprecipitate reduced, each unit</td>
</tr>
<tr>
<td>P9051</td>
<td>Whole blood or red blood cells, leukoreduced, CMV-negative, each unit</td>
</tr>
<tr>
<td>P9054</td>
<td>Blood, leukoreduced, frozen, deglycerolized, washed, each unit</td>
</tr>
<tr>
<td>P9056</td>
<td>Whole blood, leukoreduced, irradiated, each unit</td>
</tr>
<tr>
<td>P9057</td>
<td>Red blood cells, frozen/deglycerolized/washed, leukocyte-reduced, irradiated, each unit</td>
</tr>
<tr>
<td>P9058</td>
<td>Red blood cells, leukocyte-reduced, CMV negative, irradiated, each unit</td>
</tr>
<tr>
<td>P9059</td>
<td>Fresh frozen plasma between 8-24 hours of collection, each unit</td>
</tr>
<tr>
<td>P9060</td>
<td>Fresh frozen plasma, donor retested, each unit</td>
</tr>
</tbody>
</table>
Appendix 4

Glossary of Selected Insurance Terms

Allowable amount. The maximum amount an insurer will “allow” the provider for a service or supply, representing the total of the insurer’s payment and the patient’s balance payment.

Ambulatory Payment Classification (APC). A four-digit designation to which related outpatient hospital procedures which use similar resources are assigned; each APC is assigned a payment rate.

Beneficiary. A person eligible to receive benefits under an insurance policy.

Carrier. An insurance company that “carries” insurance; the preferable term is “insurer.” A Medicare Carrier contracts with Medicare to process claims from physicians and freestanding non-hospital facilities paid under Medicare’s Part B benefits (Note: all Medicare Carriers and Fiscal Intermediaries have been merged into Medicare Administrative Contractors [MACs]).

Claim. The demand for benefits as provided by an insurance policy.

CMS. The Centers for Medicare and Medicaid Services; formerly the Health Care Financing Administration (HCFA). The federal government agency that administers Medicare, Medicaid and Child Health Insurance Programs.

CMS-1500 claim form. The standard claim form required by Medicare and other health insurers for billing physician services.

Coinsurance. The percentage of the cost of care for which the patient is responsible; this often applies after a specific deductible is met.

Current Procedural Terminology (CPT). A listing of descriptive terms and codes for reporting medical services and procedures performed by physicians, which is maintained by the American Medical Association.

Deductible. The initial amount the patient is responsible for paying in a calendar year for particular covered services before insurance coverage begins.

Explanation of benefits (EOB). Documentation which accompanies payment of a claim, explaining (1) what was covered and not covered and why, (2) the payment rates or allowable amounts for billed services and products, (3) the amounts paid by the insurer, and (4) the amounts, if any, which are the patient’s responsibility.

Fiscal Intermediary. An entity that contracts with Medicare to process hospital claims paid under Medicare’s Part A benefits. Fiscal Intermediaries have been replaced by Medicare Administrative Contractors (MACs).

Global period. Services which follow and are directly related to the initial procedure over a defined “global period” are considered part of the initial procedure and are subsumed under its payment rate (i.e. not separately payable).
Glossary of Selected Insurance Terms – continued:

Global payment rate. A single payment rate for both hospital and physician services.

Hospital Outpatient Prospective Payment System. The Medicare program’s system for classification and payment of outpatient services.

ICD-10-CM. The diagnosis classification system now in use in all health care treatment settings.

ICD-10-PCS. The procedure classification system for use in inpatient hospital settings only.

Local Coverage Determination (LCD). A coverage policy established by a local Medicare Contractor, which addresses a medical service or procedure not addressed under an NCD.

Medically necessary services. A covered service that is required for the diagnosis or treatment of an illness or injury, or preserve the health status of an eligible person in accordance with local standards of medical practice.

Medicare Administrative Contractor (MAC). A single contract entity replacing Intermediaries and Carriers, with responsibility for payment of both Part A and Part B Medicare claims.

Medicare Part A and Part B. Hospital and medical insurance, respectively, under Medicare.

Modifier. Appended to a CPT code to further specify the nature of the service (e.g. the modifier “-TC” indicates only the technical component of the service).

MS-DRG (Medicare Severity-Adjusted Diagnosis-Related Group). A method used by Medicare and some other insurers to group inpatient hospital stays by principal and other diagnoses, procedures, age, gender and discharge status. MS-DRGs are assigned predetermined fixed payments per episode of care, independent of resource usage.

National Coverage Determination. A CMS coverage policy for a procedure.

Preauthorization (also precertification and prior authorization). A method to monitor and control utilization of a medical service by requiring a determination of whether it is both medical necessary and covered under the insurance plan prior to that service.

Relative value unit (RVU). A standard for measuring the value of a medical service provided by physicians relative to other medical services provided by physicians. Each service RVU has three components: physician work, overhead (reflecting all categories of practice expenses) and malpractice expense.

Revenue codes. A 3-digit coding system categorizing hospital services for billing purposes.

UB-04 claim form. The standard claim form required by Medicare and other insurers for billing hospital services.

Usual, Customary and Reasonable (UCR). A physician charge deemed reasonable for a service, which does not exceed his or her usual charges or the amount customarily charged by other physicians in the area for the service. Often defined as a specific percentile of all charges for services in the community.
Appendix 5

Bibliography for Further Reading


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