Supplementary Online Content


**eTable 1.** Medical Expense Category Definitions

**eTable 2.** Clinical Definitions

This supplementary material has been provided by the authors to give readers additional information about their work.
### eTable 1. Medical Expense Category Definitions

<table>
<thead>
<tr>
<th>Category</th>
<th>Definition</th>
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</thead>
</table>
| **Primary Care Outpatient**    | - Outpatient medical visits (CPT codes 99201-99205, 99241-99245, 99354-99359, 99381-99429),  
                                   - Surgical procedures (CPT codes 10021-69990),  
                                   - Medical procedures (CPT codes 92081-99199, 99500-99607),  
                                   - Performed within the participant's primary care site                                                                                   |
| **Non-Primary Care Outpatient**| - Outpatient medical visits (CPT codes 99201-99205, 99241-99245, 99354-99359, 99381-99429),  
                                   - Surgical procedures (CPT codes 10021-69990),  
                                   - Medical procedures (CPT codes 92081-99199, 99500-99607),  
                                   - Anesthesia (CPT codes 00100-01999),  
                                   - Performed outside the patient's primary care site                                                                                       |
| **Emergency**                  | - Emergency department services (CPT codes 99281-99288),  
                                   - Surgical procedures (CPT codes 10021-69990),  
                                   - Medical procedures (CPT codes 92081-99199, 99500-99607),  
                                   - Anesthesia (CPT codes 00100-01999),  
                                   - Performed in an emergency setting  
                                   - Any procedure with an ambulance provider as the site of service                                                                             |
| **Inpatient**                  | Any procedure (excluding lab and radiology) performed in an inpatient setting                                                                                                                           |
| **Laboratory**                 | CPT codes 80000-89999                                                                                                                                                                                   |
| **Radiology**                  | CPT codes 70000-79999                                                                                                                                                                                   |
| **Primary Care Pharmacy**      | Any prescription written by a provider at the patient's primary care site  
                                   Includes injected drugs administered at the patient's primary care site                                                                      |
| **Non-Primary Care Pharmacy**  | Any prescription written by a provider outside the patient's primary care site  
                                   Includes injected drugs administered outside the patient's primary care site                                                                     |
| **Other**                      | All other claims not classified above.  
                                   Includes durable medical equipment, nursing services, miscellaneous outpatient services, and a small number of dental claims.            |
### eTable 2. Clinical Definitions

<table>
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</table>
| Chronic Complex Condition | - ICD-9 based definitions for pediatric patients as defined by Feudtner et al\(^1\)  
- Expected to last more than 12 months  
- Involve one organ system enough to require subspecialty care or hospitalization, or involve multiple organs |
| Obesity                   | - ICD-9 diagnosis of 278.00, 278.01, V85.45, V85.3x, V85.4x as first, second, or third diagnosis associated with \(>1\) claim         |
| Mental health conditions  | - ICD-9 diagnosis 290.xx-319.xx as first, second, or third diagnosis associated with \(>1\) claim                                         |
| Orphan Drugs              | - a drug intended for use for a rare disease or condition, orphan designation definition is listed at US Food and Drug Administration, 21 CFR Part 316.  
- all pharmacy claims for high cost patients were reviewed by two authors (SG and LV) who reviewed which clinical condition was being treated according to billing claims, to verify drug was used for orphan indication |

### eReference