

Provider cost-efficiency score

OVERVIEW OF SCORE

Efficient beneficiary care is important for reducing waste and increasing healthcare sustainability. The provider cost-efficiency score evaluates the cost of care managed by Primary Care Managers (PCM) and specialists. This score identifies providers who efficiently manage costs across episodes of care. With 755 different episode types, providers have numerous opportunities to impact their cost-efficiency. Providers are compared to their peers' case-mix adjusted performance in the same geography. Providers who perform well on their specialty-specific measure set are associated with a lower cost of care for the TRICARE population.

Scores are calculated only where Humana Military requirements are met-when there is sufficient data volume, statistical credibility, minimum peer volume, etc.

Episode of care methodology

APPROACH

Humana Military bundles TRICARE East beneficiaries' experiences in medical, pharmacy and lab claims into episodes of care attributed to a single responsible provider. An episode represents more than a provider's direct spending, including the total amount for clinical and resource homogenous services for which a provider is the largest contributor. The episodes are calculated through widely-used industry software as a basis to review providers' costs.

Score process

EVALUATED SPECIALTIES

- Advanced Practice Midwife
- Allergy & Immunology
- Anesthesiology
- Counselor
- Dermatology
- Emergency Medicine
- Family Medicine
- General Practice
- Internal Medicine
- Marriage & Family Therapist
- Midwife
- Neurological Surgery
- Nurse Practitioner
- Obstetrics & Gynecology
- Occupational Therapist
- Ophthalmology
- Optometrist
- Orthopaedic Surgery
- Otolaryngology
- Pediatrics
- Physical Medicine & Rehabilitation
- Physical Therapist
- Physician Assistant
- Podiatrist
- Psychiatry & Neurology
- Psychologist
- Social Worker
- Speech-Language Pathologist
- Surgery
- Urology

Note: See appendix for specialties and associated measures.

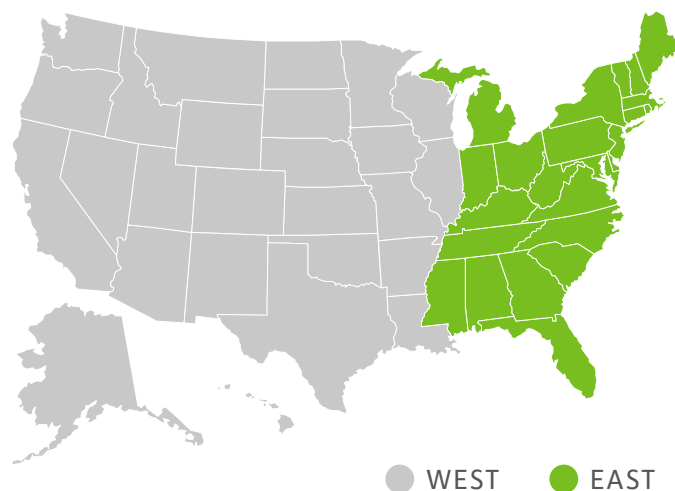
MEASUREMENT LEVEL

TRICARE providers are identified by their Tax Identification Numbers (TIN) and National Provider Identifiers (NPI).

GEOGRAPHIC AREAS

Geographic areas include states in the TRICARE East Region of the United States.

MAP OF STATES COVERED



PEER GROUPS

Peer groups include providers of the same specialty and case-mix adjusted episodes within the same state. Providers working in multiple states will be evaluated per the volume performed in each state as outlined on the following pages.

Provider cost-efficiency score

FREQUENCY OF EVALUATION

The cost-efficiency scores are updated on a quarterly basis.

MINIMUM VOLUME REQUIREMENTS

The cost-efficiency score is measured for all providers in the specialty/episode target list who have a minimum of ten episodes and five beneficiaries.

Each peer group will contain at least 100 episodes for providers to be individually compared against. Providers are often in more than one peer group.

Each specialty/state must contain at least 10 providers.

PROVIDER ATTRIBUTION

Providers who contribute the highest total allowed amount for evaluation and management and/or surgery

costs are the attributed provider. The attributed provider is considered the director of care for treating that patient's condition.

SCORE METHODOLOGY

Humana Military scores providers for cost-efficiency only when there is sufficient volume and minimum number of peers available.

Humana Military uses a weighted average approach to create a composite score for individual providers and their peer group(s). Humana Military then compares the actual score of the individual provider over the expected score of the peer group(s) to create a performance index that exhibits individual performance versus peers.

The performance index is converted using a percentile evaluated at the provider specialty/state level. Each score is assigned points based on the percentile distribution.

SCORING OUTPUT EXAMPLE

Example: Provider A – Internal medicine – Jacksonville, Florida

Specialty	State	ETG full description	Severity level	Provider total episodes	Average provider amount	Average peer amount
Internal medicine	FL	Septicemia, w/o complication, with surgery	2	10	\$3,600.00	\$3,400.00
Internal medicine	FL	Septicemia, with complication, w/o surgery	3	2	\$3,100.00	\$3,150.00
Internal medicine	FL	Bacteria; lung infections, with complication, w/o comorbic	3	25	\$1,200.00	\$900.00
Internal medicine	FL	Infection of upper genitourinary system, w/o surgery	1	13	\$745.00	\$950.00
Internal medicine	FL	Infection of upper genitourinary system, with surgery	2	4	\$1,780.00	\$1,875.00
Internal medicine	FL	Total weighted cost			\$1,648.24	\$1,530.56
Performance index					1.08	

Actual performance ¹	Expected performance ²	Performance index ³
\$1,648.24	\$1,530.56	1.08

¹ Actual performance: provider's individual performance rate

² Expected performance: provider's peer group performance rate weighted by the number of provider episodes

³ Performance index: >1 = low score, 1.0 = average score, <1 = high score (i.e. equals 8% higher costs than peers)

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Appendix

Covers brief descriptions of the episode types assigned to each specialty.

Specialty description	Episode types
Advanced practice midwife	Contraceptive management, pregnancy
Allergy and immunology	Acute sinusitis, asthma, chronic sinusitis, conjunctivitis, contact dermatitis, environmental trauma, immunodeficiencies, isolated signs, poisonings and toxic effects of drugs, rhinitis
Anesthesiology	Joint degeneration
Counselor	Alcohol dependence, anxiety disorder or phobias, attention deficit disorder, autism spectrum disorders, mood disorder
Dermatology	Acne, autoimmune rheumatologic diseases, bacterial infection of skin, chronic skin ulcers, contact dermatitis, dermatological signs and symptoms, fungal skin infection, malignant neoplasm of skin, non-malignant neoplasm of skin, parasitic skin infection, psoriasis, viral skin infection
Emergency medicine	Alcohol dependence, Acute sinusitis, Acute renal failure, Acute bronchitis, Bacterial infection of skin, Exposure to infectious diseases, Ischemic heart disease, Bacterial lung infections, Gastroenterology diseases signs and symptoms, Asthma, Spinal trauma, Cerebral vascular disease, Heart failure with systolic or systolic/diastolic dysfunction, Hypertension, Tonsillitis, Brain trauma, Infection of upper genitourinary system, Cardiovascular diseases signs and symptoms, Low back pain syndrome, Chronic pancreatitis, Migraine headache, Kidney stones, Mood disorder, Congestive heart failure, Other drug dependence, Chronic sinusitis, Other infectious diseases, Inflammation of genitourinary system, Pulmonary embolism, Minor orthopedic injury - foot and ankle, Infection of lower genitourinary system, Open wound - hand and forearm, Joint degeneration, Otolaryngology diseases signs and symptoms, Inflammation of esophagus, Open wound - head and face, Minor orthopedic injury - hand, Rhinitis, Otitis media, Orthopedic signs and symptoms - knee and lower leg, Opioid or barbiturate dependence, Viral pneumonia, Skin trauma

Measures generated with Optum Episode Treatment Groups (ETG) software.

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Specialty description	Episode types
Family medicine	Anxiety disorder or phobias, Cardiovascular diseases signs and symptoms, Acne, Acute bronchitis, Attention deficit disorder, Asthma, Acute renal failure, Alcohol dependence, Bacterial lung infections, Conditions associated with menstruation, Acute sinusitis, Low back pain syndrome, Chronic sinusitis, Congenital disorders of central nervous system, Autoimmune rheumatologic diseases, Congestive heart failure, Infection of lower genitourinary system, Immunization encounter, Bacterial infection of skin, Minor orthopedic injury - foot and ankle, Non-malignant neoplasm of breast, Contact dermatitis, Brain trauma, Heart failure with systolic or systolic/diastolic dysfunction, Obstructive sleep apnea, Inflammation of esophagus, Cerebral vascular disease, Non-routine inoculation, Viral pneumonia, Diabetes, Chronic obstructive pulmonary disease, Hypo-functioning thyroid gland, Chronic pancreatitis, Migraine headache, Conjunctivitis, Pulmonary embolism, Contraceptive management, Gastroenterology diseases signs and symptoms, Exposure to infectious diseases, Isolated signs, Hypertension, Mood disorder, Ischemic heart disease, Orthopedic signs and symptoms - back, Joint degeneration, Hereditary and degenerative diseases of central nervous system, Minor orthopedic injury - hand, Rhinitis, Otitis media, Neurological diseases signs and symptoms, Tonsillitis, Multiple sclerosis, Non-malignant neoplasm of skin, Neonatal prematurity, Obesity, Nutritional deficiency, Other drug dependence, Opioid or barbiturate dependence, Other infectious diseases, Orthopedic signs and symptoms - knee and lower leg, Otolaryngology diseases signs and symptoms, Routine exam
General practice	Acne, acute bronchitis, acute sinusitis, alcohol dependence, anxiety disorder or phobias, asthma, attention deficit disorder, autoimmune rheumatologic diseases, bacterial infection of skin, chronic sinusitis, conditions associated with menstruation, conjunctivitis, diabetes, exposure to infectious diseases, gastroenterology diseases signs and symptoms, hypertension, hypo-functioning thyroid gland, infection of lower genitourinary system, isolated signs, joint degeneration, low back pain syndrome, migraine headache, mood disorder, neurological diseases signs and symptoms, non-malignant neoplasm of breast, nutritional deficiency, obesity, orthopedic signs and symptoms - back, otitis media, otolaryngology diseases signs and symptoms, rhinitis, routine exam, tonsillitis, viral pneumonia

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Specialty description	Episode types
Internal medicine	Acute bronchitis, Autoimmune rheumatologic diseases, Alcohol dependence, Anxiety disorder or phobias, Acute sinusitis, Acne, Arterial inflammation, Attention deficit disorder, Bacterial infection of skin, Chronic pancreatitis, Bacterial lung infections, Cardiovascular diseases signs and symptoms, Cerebral vascular disease, Acute renal failure, Diverticulitis and diverticulosis, Hereditary and degenerative diseases of central nervous system, Chronic renal failure, Irritable bowel syndrome, Hemorrhoids, Chronic sinusitis, Cirrhosis, Adult rheumatoid arthritis, Hypo-functioning thyroid gland, Infection of lower genitourinary system, Congenital disorders of central nervous system, Lymphoma, Immunization encounter, Congestive heart failure, Diabetes, Asthma, Inflammation of esophagus, Iron deficiency anemia, Hypertension, Malignant neoplasm of large intestine, Malignant neoplasm of breast, Exposure to infectious diseases, Multiple myeloma, Atrial fibrillation and flutter, Mood disorder, Ischemic heart disease, Non-malignant neoplasm of breast, Malignant neoplasm of pulmonary system, Non-routine inoculation, Gastroenterology diseases signs and symptoms, Otitis media, Cardiac congenital disorder, Obesity, Leukemia, Sepsis, Migraine headache, Obstructive sleep apnea, Heart failure with systolic or systolic/diastolic dysfunction, Valvular disorder, Chronic obstructive pulmonary disease, Septicemia, Low back pain syndrome, Other infectious diseases, Inflammatory bowel disease, Contraceptive management, Multiple sclerosis, Joint degeneration, Malignant neoplasm of rectum or anus, Non-malignant neoplasm of intestines and abdomen, Pulmonary embolism, Other drug dependence, Neurological diseases signs and symptoms, Tonsillitis, Rhinitis, Ulcer, Nutritional deficiency, Spinal trauma, Routine exam, Viral pneumonia
Marriage and family therapist	Anxiety disorder or phobias, mood disorder
Midwife	Contraceptive management, pregnancy
Neurological surgery	Brain trauma, carpal tunnel syndrome, cerebral vascular disease, congenital disorders of central nervous system, inflammation of non-cranial nerves, joint degeneration, mood disorder, non-malignant neoplasm of central nervous system, spinal trauma

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Specialty description	Episode types
Nurse practitioner	Conjunctivitis, Arterial inflammation, Acute bronchitis, Acute sinusitis, Contraceptive management, Acne, Alcohol dependence, Attention deficit disorder, Exposure to infectious diseases, Chronic sinusitis, Asthma, Bacterial lung infections, Hypo-functioning thyroid gland, Acute renal failure, Bacterial infection of skin, Autoimmune rheumatologic diseases, Immunization encounter, Gastroenterology diseases signs and symptoms, Cardiovascular diseases signs and symptoms, Conditions associated with menstruation, Ischemic heart disease, Anxiety disorder or phobias, Infection of lower genitourinary system, Cerebral vascular disease, Minor orthopedic injury - foot and ankle, Inflammation of esophagus, Obesity, Hypertension, Non-malignant neoplasm of breast, Atrial fibrillation and flutter, Obstructive sleep apnea, Diabetes, Orthopedic signs and symptoms - back, Isolated signs, Otolaryngology diseases signs and symptoms, Low back pain syndrome, Orthopedic signs and symptoms - knee and lower leg, Congenital disorders of central nervous system, Routine exam, Migraine headache, Tonsillitis, Joint degeneration, Multiple sclerosis, Environmental trauma, Neonatal prematurity, Minor orthopedic injury - hand, Non-malignant neoplasm of skin, Other drug dependence, Non-routine inoculation, Mood disorder, Nutritional deficiency, Otitis media, Viral pneumonia, Neurological diseases signs and symptoms, Other infectious diseases, Rhinitis
Obstetrics and gynecology	Infection of lower genitourinary system, Inflammatory condition of female genital tract, Conditions associated with menstruation, Infection of vagina except monilial, Gynecological signs and symptoms, Conditions associated with infertility, Endometriosis, Obesity, Non-malignant neoplasm of female genital tract, Contraceptive management, Mood disorder, Exposure to infectious diseases, Routine exam, Pregnancy, Urinary incontinence
Occupational therapist	Attention deficit disorder, autism spectrum disorders, cerebral vascular disease, chromosomal anomalies, congenital disorders of central nervous system, development disorder, hereditary and degenerative diseases of central nervous system, isolated signs, neurological diseases signs and symptoms
Ophthalmology	Cataract, congenital anomaly of eye, conjunctivitis, diabetic retinopathy, external eye infection, glaucoma, inflammatory eye disease, macular degeneration, non-diabetic vascular retinopathy, non-macular degeneration, other degenerative disorders of eye, routine exam, trauma of eye, visual disturbances
Optometrist	Cataract, conjunctivitis, external eye infection, glaucoma, inflammatory eye disease, non-macular degeneration, other degenerative disorders of eye, routine exam, trauma of eye, visual disturbances

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Specialty description	Episode types
Orthopedic surgery	Joint derangement - shoulder, Bursitis and tendinitis - elbow and upper arm, Closed fracture or dislocation of upper extremity - hand, Bursitis and tendinitis - thigh, Spinal trauma, Bursitis and tendinitis - shoulder, Joint degeneration, Bursitis and tendinitis - foot and ankle, Low back pain syndrome, Joint derangement - hand, Major injury, Major trauma, Minor joint inflammation - foot and ankle, Carpal tunnel syndrome, Orthopedic deformity - back, Closed fracture or dislocation of lower extremity - foot and ankle, Orthopedic signs and symptoms - knee and lower leg, Joint derangement - knee and lower leg, Minor joint inflammation - shoulder, Minor joint inflammation - elbow and upper arm, Joint derangement - foot and ankle, Minor orthopedic injury - shoulder, Minor joint inflammation - thigh, Orthopedic deformity - foot and ankle, Orthopedic signs and symptoms - shoulder, Orthopedic signs and symptoms - foot and ankle, Minor orthopedic injury - foot and ankle, Minor orthopedic trauma - foot and ankle, Minor orthopedic trauma - shoulder
Otolaryngology	Chronic sinusitis, Acute sinusitis, Otitis media, Otolaryngology diseases signs and symptoms, Congenital and acquired anomalies of ear/nose/throat, Hearing disorders, Obstructive sleep apnea, Trauma to ear/nose/throat, Tonsillitis, Inflammation of esophagus, Rhinitis
Pediatrics	Chronic sinusitis, Acne, Acute bronchitis, Anxiety disorder or phobias, Development disorder, Asthma, Acute sinusitis, Acute renal failure, Exposure to infectious diseases, Attention deficit disorder, Diabetes, Bacterial lung infections, Minor orthopedic injury - foot and ankle, Autism spectrum disorders, Hereditary and degenerative diseases of central nervous system, Congenital disorders of central nervous system, Otolaryngology diseases signs and symptoms, Cardiac congenital disorder, Immunization encounter, Brain trauma, Routine exam, Bacterial infection of skin, Tonsillitis, Conjunctivitis, Gastroenterology diseases signs and symptoms, Isolated signs, Cardiovascular diseases signs and symptoms, Contraceptive management, Leukemia, Minor orthopedic injury - hand, Cerebral vascular disease, Neonatal prematurity, Low back pain syndrome, Neurological diseases signs and symptoms, Chromosomal anomalies, Non-routine inoculation, Orthopedic signs and symptoms - knee and lower leg, Obstructive sleep apnea, Inflammation of esophagus, Otitis media, Uncomplicated neonatal management, Rhinitis, Mood disorder, Viral pneumonia, Obesity, Routine inoculation, Other infectious diseases
Physical medicine and rehabilitation	Brain trauma, Cerebral vascular disease, Hereditary and degenerative diseases of central nervous system, Spinal trauma, Low back pain syndrome, Joint degeneration

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Specialty description	Episode types
Physical therapist	Bursitis and tendinitis - elbow and upper arm, bursitis and tendinitis - foot and ankle, bursitis and tendinitis - knee and lower leg, bursitis and tendinitis - shoulder, bursitis and tendinitis - thigh, cerebral vascular disease, chromosomal anomalies, congenital disorders of central nervous system, development disorder, hereditary and degenerative diseases of central nervous system, isolated signs, joint degeneration, joint derangement - foot and ankle, joint derangement - hand, joint derangement - knee and lower leg, joint derangement - shoulder, joint derangement - thigh, low back pain syndrome, minor joint inflammation - elbow and upper arm, minor joint inflammation - foot and ankle, minor joint inflammation - knee and lower leg, minor joint inflammation - shoulder, minor joint inflammation - thigh, minor orthopedic injury - back, minor orthopedic injury - foot and ankle, minor orthopedic injury - knee and lower leg, minor orthopedic injury - neck, minor orthopedic injury - shoulder, minor orthopedic injury - thigh, minor orthopedic trauma - back, minor orthopedic trauma - foot and ankle, minor orthopedic trauma - knee and lower leg, minor orthopedic trauma - neck, minor orthopedic trauma - shoulder, minor orthopedic trauma - thigh, multiple sclerosis, neurological diseases signs and symptoms, orthopedic deformity - back, orthopedic deformity - foot and ankle, orthopedic deformity - head and face, orthopedic signs and symptoms - back, orthopedic signs and symptoms - knee and lower leg, orthopedic signs and symptoms - neck, orthopedic signs and symptoms - shoulder, orthopedic signs and symptoms - thigh
Physician assistant	Acne, acute bronchitis, acute renal failure, acute sinusitis, adult rheumatoid arthritis, alcohol dependence, anxiety disorder or phobias, arterial inflammation, asthma, atrial fibrillation and flutter, attention deficit disorder, autoimmune rheumatologic diseases, cardiovascular diseases signs and symptoms, cerebral vascular disease, chronic obstructive pulmonary disease, chronic sinusitis, congenital disorders of central nervous system, diabetes, diverticulitis and diverticulosis, exposure to infectious diseases, gastroenterology diseases signs and symptoms, hemorrhoids, hypertension, hypo-functioning thyroid gland, immunization encounter, infection of lower genitourinary system, inflammation of esophagus, inflammatory bowel disease, irritable bowel syndrome, ischemic heart disease, joint degeneration, low back pain syndrome, migraine headache, minor orthopedic injury - foot and ankle, minor orthopedic injury - hand, mood disorder, multiple sclerosis, neurological diseases signs and symptoms, non-malignant neoplasm of breast, non-malignant neoplasm of intestines and abdomen, non-malignant neoplasm of skin, non-routine inoculation, nutritional deficiency, obesity, obstructive sleep apnea, orthopedic signs and symptoms - knee and lower leg, other drug dependence, other infectious diseases, otitis media, otolaryngology diseases signs and symptoms, rhinitis, routine exam, tonsillitis, viral pneumonia
Podiatrist	Bacterial infection of skin, bursitis and tendinitis - foot and ankle, closed fracture or dislocation of lower extremity - foot and ankle, diabetes, fungal skin infection, inflammation of non-cranial nerves, joint degeneration, minor joint inflammation - foot and ankle, minor orthopedic injury - foot and ankle, orthopedic deformity - foot and ankle, viral skin infection

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Specialty description	Episode types
Psychiatry and neurology	alcohol dependence, anxiety disorder or phobias, attention deficit disorder, autism spectrum disorders, brain trauma, cerebral vascular disease, congenital disorders of central nervous system, epilepsy, hereditary and degenerative diseases of central nervous system, inflammation of non-cranial nerves, isolated signs, joint degeneration, mental disorders, migraine headache, mood disorder, multiple sclerosis, neurological diseases signs and symptoms, obesity, obstructive sleep apnea, opioid or barbiturate dependence, other drug dependence, psychotic and schizophrenic disorders
Psychologist	alcohol dependence, anxiety disorder or phobias, attention deficit disorder, autism spectrum disorders, mood disorder, neurological diseases signs and symptoms, obesity
Social worker	alcohol dependence, anxiety disorder or phobias, attention deficit disorder, autism spectrum disorders, mood disorder, obesity, psychotic and schizophrenic disorders
Speech-language pathologist	autism spectrum disorders, chromosomal anomalies, development disorder, hereditary and degenerative diseases of central nervous system, isolated signs
Surgery	appendicitis, arterial inflammation, bowel obstruction, cholelithiasis, diverticulitis and diverticulosis, gastroenterology diseases signs and symptoms, hemorrhoids, hernias, inflammation of esophagus, ischemic heart disease, malignant neoplasm of breast, malignant neoplasm of large intestine, malignant neoplasm of rectum or anus, non-malignant neoplasm of breast, non-malignant neoplasm of skin, obesity, routine exam, varicose veins of lower extremity
Urology	gynecological signs and symptoms, infection of lower genitourinary system, inflammation of genitourinary system, kidney stones, male sex gland disorders, malignant neoplasm of genitourinary system, malignant neoplasm of prostate, non-malignant neoplasm of female genital tract, non-malignant neoplasm of prostate, urinary incontinence, urological diseases signs and symptoms

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