

## **Medicare Physician Fee Schedule (PFS): Development of a Validation Model for Work Relative Value Units (RVUs)**

The Centers for Medicare & Medicaid Services (CMS) have entered into two contracts with outside entities to develop validation models for RVUs.

### **RAND Corporation Contract**

CMS has asked RAND to develop a validation model for the work component of the Medicare physician fee schedule and to test the model using a set of representative test codes.

**Background:** In 2012, an estimated \$87 billion in allowed charges will be paid under the physician fee schedule for services furnished to fee-for-service Medicare beneficiaries by physicians and other practitioners who bill independently for their services. The physician fee schedule uses relative value units (RVUs), a conversion factor (\$34.04 per RVU in 2012), and various adjustments to determine the reimbursement for a given service. The relative resources that go into determining the RVUs for a given service are broken down into physician work, practice expense and malpractice expense. The work component accounts for the practitioner's effort through measures of time and intensity (i.e., cognitive effort and judgment, technical skill and physical effort, and stress due to potential patient risk) associated with providing a service.

It is important that RVUs be accurately set under the physician fee schedule to assure access to medically appropriate services. If a procedure is overpriced, Medicare is wasting resources by paying more than it should and an incentive is created to provide unnecessary services. If a procedure is underpriced, it may be hard to obtain and lead to potential access problems. Moreover, systematic over- or underpricing of procedures furnished by particular specialties can distort overall compensation levels and affect the specialty choices made by new physicians.

Under the current process for updating the relative value units (RVUs) for physician work, CMS considers recommendations for the American Medical Association's Specialty Society Relative Value Update Committee (RUC), the Medicare Payment Advisory Commission (MedPAC) and others. Section 3134 of the Affordable Care Act requires that CMS establish a process to validate RVUs of physician fee schedule services and explicitly authorizes CMS to conduct the validation through surveys, other data collection activities, studies, or other analyses that would facilitate validation.

**Study Approach:** During this two-year project, RAND will use available data to build a validation model to predict work RVUs and the individual components of work RVUs, time and intensity. The model design will be informed by the statistical methodologies and approach used to develop the initial work RVUs and to identify potentially misvalued procedures under current RUC and CMS processes. RAND will use a representative set of CMS-provided codes to test the model. RAND will consult with a technical expert panel on model design issues and the test results.

Barbara Wynn will serve as Principal Investigator. Ateev Mehrotra, M.D. will join her as Co-Principal Investigator.

### **Urban Institute Contract**

CMS has contracted with the Urban Institute (UI) and its subcontractors Social & Scientific Systems, Inc. (SSS) and RTI International to examine the work relative value units (RVUs) for approximately 120 services and develop a validation process for the RVUs used in the Medicare Physician Fee Schedule for both new and existing services. The project aims to provide CMS with a process for reviewing proposed work RVUs, assessing how reasonable they are relative to external data and assuring that the relativities within the overall RBRVS fee schedule are internally consistent within families of services and specialties as well as across families. Work RVUs reflect both the time it takes to provide a physician service and the intensity of the service (i.e., technical skill, physical effort, mental effort and judgment, and stress due to patient risk). Given the central role of time in establishing work RVUs and the concerns that have been raised about the current time values, a key focus of the project is developing objective time estimates for study services. The work validation process incorporates these time estimates in clinical panel process through which clinicians from a range of specialties will help review the implications of the time estimates for current work values. There are three key aspects to the project.

***Objective Estimates of Time for Selected Services.*** The services to be studied (see list below) were selected by Urban because as a group they are predominately high volume and cover a broad range of work RVUs, types of service, physician specialties, and places of service. Development of objective time estimates for these services will use a variety of approaches, depending on the service. Time estimates will be developed from health systems' operating room logs, electronic health records, scheduling records, billing information, chart review, and direct observation of physician-patient interactions. This very resource-intensive part of the project is essential to addressing concerns that have been raised about current time values and resulting work values.

***Data Analysis.*** Objective time estimates will be compared to the current time values used in the fee schedule. These comparisons will examine the relationship between the alternative measures and current values by type of service, place of service, and other exogenous characteristics. The project team will develop alternative models of the relationship between work and time to present to the clinical panels for their consideration.

***Clinical Panels.*** The project will convene physician panels from a range of specialties to review the new time data and their potential implications for work and the ratio of work to time. The groups will discuss the families of services for which work values could be adjusted based on the studied services. For example, if they conclude that the work-to-time ratio was appropriate for a given studied service so that lower time estimates suggest that work should be lower, they will identify any similar services whose work values could be adjusted. The goal is to translate the time values to improved work values, as feasible, and to expand the services refined beyond those specifically included in the time measurement part of the study.

The project team includes national health policy experts whose research has helped shape Medicare physician payment policies for over two decades. Stephen Zuckerman, Ph.D., will serve as the Principal Investigator for this proposed project and Katie Merrell of SSS will be the Co-PI. Robert Berenson, M.D., will serve as Clinical Director for the project, providing clinical and policy expertise as well as recruiting and training the physicians who will lead the clinical panels – a critical element of the proposed project. He will work on these activities with project consultant Peter Braun, M.D., who was the Co-PI for the original Harvard RVU study.

Nancy McCall of RTI will direct the collection of new time data that will be used as part of the validation model to be developed in this study.

<b>HCPCS</b>	<b>Short Descriptor</b>
11042	Deb subq tissue 20 sq cm/<
11056	Trim skin lesions 2 to 4
11057	Trim skin lesions over 4
11100	Biopsy skin lesion
11101	Biopsy skin add-on
17000	Destruct premalg lesion
17003	Destruct premalg les 2-14
17004	Destroy premalg lesions 15/>
17110	Destruct b9 lesion 1-14
17262	Destruction of skin lesions
17281	Destruction of skin lesions
17282	Destruction of skin lesions
20550	Inj tendon sheath/ligament
20605	Drain/inject joint/bursa
20610	Drain/inject joint/bursa
22551	Neck spine fuse&remov bel c2
22612	Lumbar spine fusion
22614	Spine fusion extra segment
22633	Lumbar spine fusion combined
22840	Insert spine fixation device
22842	Insert spine fixation device
22845	Insert spine fixation device
22851	Apply spine prosth device
23412	Repair rotator cuff chronic
23472	Reconstruct shoulder joint
27130	Total hip arthroplasty
27134	Revise hip joint replacement
27236	Treat thigh fracture
27244	Treat thigh fracture
27245	Treat thigh fracture
27447	Total knee arthroplasty
29827	Arthroscop rotator cuff repr
33208	Insrt heart pm atrial & vent
33249	Nsert pace-defib w/lead
33405	Replacement of aortic valve
33430	Replacement of mitral valve
33518	Cabg artery-vein two
33519	Cabg artery-vein three
33533	Cabg arterial single
33536	Cabg arterial four or more
35301	Rechanneling of artery
43235	Uppr gi endoscopy diagnosis
43239	Upper gi endoscopy biopsy
44120	Removal of small intestine

<b>HCPCS</b>	<b>Short Descriptor</b>
52000	Cystoscopy
52224	Cystoscopy and treatment
52281	Cystoscopy and treatment
52601	Prostatectomy (TURP)
55700	Biopsy of prostate
55866	Laparo radical prostatectomy
63047	Remove spine lamina 1 lmbr
64483	Inj foramen epidural l/s
66821	After cataract laser surgery
66982	Cataract surgery complex
66984	Cataract surg w/iol 1 stage
67028	Injection eye drug
67210	Treatment of retinal lesion
67228	Treatment of retinal lesion
70450	Ct head/brain w/o dye
70486	Ct maxillofacial w/o dye
70551	Mri brain stem w/o dye
70553	Mri brain stem w/o & w/dye
71010	Chest x-ray 1 view frontal
71020	Chest x-ray 2vw frontal&latl
71250	Ct thorax w/o dye
71260	Ct thorax w/dye
71275	Ct angiography chest
72125	Ct neck spine w/o dye
72141	Mri neck spine w/o dye
72148	Mri lumbar spine w/o dye
72158	Mri lumbar spine w/o & w/dye
74176	Ct abd & pelvis
74177	Ct abd & pelv w/contrast
74178	Ct abd & pelv 1/> regns
77080	Dxa bone density axial
78452	Ht muscle image spect mult
88305	Tissue exam by pathologist
88307	Tissue exam by pathologist
88309	Tissue exam by pathologist
88312	Special stains group 1
88331	Path consult intraop 1 bloc
88342	Immunohistochemistry
92133	Cmptr ophth img optic nerve
92134	Cptr ophth dx img post segmt
92557	Comprehensive hearing test
92920	Prq cardiac angioplast 1 art
92928	Prq card stent w/angio 1 vsl
92941	Prq card revasc mi 1 vsl

44140	Partial removal of colon
44143	Partial removal of colon
44145	Partial removal of colon
44160	Removal of colon
44204	Laparo partial colectomy
44205	Lap colectomy part w/ileum
44207	L colectomy/coloproctostomy
45378	Diagnostic colonoscopy
45380	Colonoscopy and biopsy
45384	Lesion remove colonoscopy
45385	Lesion removal colonoscopy
47562	Laparoscopic cholecystectomy
47563	Laparo cholecystectomy/graph
49505	Prp i/hern init reduc >5 yr
50590	Fragmenting of kidney stone

93000	Electrocardiogram complete
93010	Electrocardiogram report
93015	Cardiovascular stress test
93016	Cardiovascular stress test
93018	Cardiovascular stress test
93306	Tte w/doppler complete
93458	L hrt artery/ventricle angio
93459	L hrt art/grft angio
93460	R&l hrt art/ventricle angio
93880	Extracranial bilat study
96372	Ther/proph/diag inj sc/im
G0105	Colorectal scrn; hi risk ind
G0202	Screeningmammographydigital
G0204	Diagnosticmammographydigital
G0206	Diagnosticmammographydigital

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