Even if you live in an area that is not initially selected for the CPCI, other PCMH pilots from health plans and state Medicaid agencies are likely to use similar formats.

The bottom line is that making the changes necessary to earn PCMH recognition will result in enhanced revenue in the future. Some of you have asked the Academy to show you the money when it comes to the medical home model. The money is coming. Will you be ready to act when opportunity knocks?

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UNDERSTANDING THE “SUM OF SUBTEST TO OVERALL SCORE DISCREPANCY” ON THE MC-FP EXAMINATION

When high-stakes examinations, such as the American Board of Family Medicine’s (ABFM) Maintenance of Certification-in Family Practice (MC-FP) examination are administered, candidates and diplomates are keenly interested in the accuracy of their test scores, especially when their scores are close to, but below, the pass/fail cut point. In some instances, candidates will attempt to reverse engineer their scores using the information provided on the score report in an effort to verify the “weighted sum of the subtest scores” is congruent with the overall test score. Any discrepancy might become alarming to the candidate, providing a seemingly legitimate reason to believe the overall score was inaccurate, thus prompting a phone call. For example, some candidates may find the weighted subtests add up to a scaled score of 400 when the overall scaled score was 380. Because the current minimum passing standard (MPS) is 390, candidates who experience this phenomenon may question the validity of the overall score, and ultimately the pass/fail decision. Below, we will attempt to explain (albeit briefly) this rather technical statistical phenomenon.

Diplomates typically view scores as quantities that have additive properties. For instance, in the past the ABFM presented raw scores on the score report. If one were to add the weighted raw scores of the subtests, the scores would certainly equal the raw score of the total test. Unfortunately, raw scores are not measures. Although raw scores are useful for descriptive purposes, they lack generality because they are specific to the particular test that was taken. Raw scores are counts and are deterministic and exact, but the measures they imply are probabilistic and have some degree of imprecision. The ABFM employs the Rasch model, a 1-parameter Item Response Theory (IRT) measurement model, to score examinations. The Rasch model converts raw scores to linear measures and controls for the difficulty of the test version one received.

In some instances, the weighted sum of the subtests scores (as determined by the IRT scoring method) will be greater than the overall score. The primary reasons for this are twofold: first, score exchanges have asymmetric non-linearity. That is, within-person variation increases on subtest areas, making the distribution of subtest measures wider than the distribution for the overall test. This can often make mean measures appear larger. Second, there is an increase in measurement error due to the small number of items available in each subtest area. Consequently, the increase in measurement error also inflates measure variance, thus causing even more inferential instability. It is for these reasons that we report a standard error with each measure on the MC-FP score report, as it assists the examinee in understanding the stability of each particular measure. For a more detailed discussion on the topic of summing subtest measures, readers are encouraged to see Wright.

Additional Insights and Recommendations to Test Takers

What does the statistical phenomenon presented above mean to persons who take the MC-FP examination? First, examinees should know that only the overall scaled score is used to determine the pass/fail decision. This score is based on one’s cumulative performance on 350 items, thus the results will be both highly precise and statistically stable. Therefore, subtest scores should be viewed simply as good approximations for one’s performance in a particular clinical content area,
as these scores are often highly unstable due to the limited number of items and larger standard errors.

Next, test takers should be aware that extreme subtest scores are not uncommon because there are a limited number of items in each subtest area. This may cause additional problems with regard to interpretation. For example, the ABFM reported range for scores is 200 to 800. It is possible that scores actually may be well below 200 or far greater than 800, but in such instances scores are rounded back to fit the range of the scale. Therefore, in most instances where candidates find their weighted sum of subtest scores do not equal that of the total test, extreme scores likely are the primary culprit. Examinees who attempt to reverse engineer the score report should be particularly mindful of extreme scores and how scores of 200 or 800 are not necessarily indicative of a true 200 or 800 score.

Examinees also need to be aware that some granularity exists with the reporting of scores. The MC-FP examination provides truncated scores that are reported in increments of 10. For example, an examinee that truly scored a 507 would see a reported score of 500. Although detailed scaled scores are used in the calculation of scores, only truncated scores are reported. This largely is for purposes of clarity and simplicity. However, in no instance is an examinee’s score rounded up, as all test takers are expected to meet or exceed a particular passing threshold. Subtle nuances such as these also can have some bearing on the impact of subtest score summations.

Conclusion
It is important to emphasize that only the overall scaled score is used to determine the pass/fail decision on the ABFM MC-FP examination. Subtest scores are less stable due to the fewer number of items and the larger standard errors. Despite the instability of subtest scores, a good bit of inferential value can be gleaned from this information, as subtest scores serve as useful approximations for one’s performance in various clinical categories on the MC-FP examination. In instances where examinees attempt to reverse engineer their scores based on the information presented in the blueprint, it likely will prove to be unproductive because of the statistical phenomenon discussed above. Rather than attempting to make the case that one’s score result should be corrected because the sum of one’s weighted subtest scores is not congruent with the overall score, candidates instead are encouraged to use their subtest scores to improve their medical content knowledge by developing an improved self-directed learning plan, thereby increasing their likelihood of future success on the examination.

References
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NEW WEB SITE HELPS DEPARTMENTS AND PROGRAMS EFFECTIVELY TRAIN AND SUPPORT PRECEPTORS

Community-based preceptors provide a large portion of the primary care education for medical students in the United States. The Association of American Medical Colleges has called for a 30% increase in medical school enrollment by 2015 to meet the growing physician shortage in the United States. Undoubtedly, this places more demands on physicians who teach and increases the need for a quality pool of trained preceptors.1

It can be a challenge to recruit, train, and retain community preceptors. And it’s time-consuming to provide training, answer questions, maintain a connection, and ensure that preceptors are recognized for the role they play in educating the next generation of physicians.

STFM has developed a resource for family medicine departments and residency programs to use to provide education and support to their valuable preceptors 24/7, as well as to recruit clinicians to join their preceptor pools. TeachingPhysician.org streamlines training, answers questions, and communicates regularly with preceptors on a department’s or program’s behalf. Community preceptors can log in to access tools and resources to help them teach the next generation of physicians to provide high-quality, patient-centered care.

Streamlined Faculty Development
While support and training are critically important to preceptor satisfaction, faculty development happens too infrequently. TeachingPhysician.org provides continuous training and allows preceptors to delve into topics they’re interested in or get quick answers on the spot. “The site provides preceptors just-in-time information. Because this resource is always available, preceptors can use its tips and ideas to improve their...