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## Should There Now Be a Geriatric BRUE?



*To the Editor:*

In 2016, the American Academy of Pediatrics created the diagnosis of brief resolved unexplained event (BRUE) to replace the less descriptive diagnosis of apparent life-threatening event. The American Academy of Pediatrics recognized that infants could display extremely concerning behaviors that were difficult to attribute to any existing diagnoses. Rather than force these spells into any accepted diagnoses, they elected to create a specific descriptive term with a novel diagnosis.<sup>1</sup>

In many ways, geriatric patients present like a pediatric patient with a BRUE. They may have self-limited periods with alterations in consciousness, breathing, or muscle tone, and other symptoms that defy classification under any existing diagnoses. Like pediatric patients with BRUE, by

the time they present to the emergency department (ED) all signs of the event may have resolved, with a return to their baseline status. Even with careful questioning, witnesses of the event may be unable to identify the problem.

Unlike pediatric patients, geriatric patients frequently have a complex medical and psychosocial history, leading to a broader source of causes for an event. However, even with accurate histories and physical examinations, along with access to rapid diagnostic studies, a significant number of geriatric presentations will not clearly fit an existing diagnosis.<sup>2,3</sup> The consequences of seeking definitive diagnoses can include prolonged hospitalizations and likely overtesting.<sup>4</sup>

Given the uncertainties associated with many confusing ED presentations in older patients, the concept of a geriatric BRUE is justified. Unlike the pediatric BRUE, which was built on the existing apparent life-threatening event, a geriatric BRUE will require synthesizing a totally new diagnosis and will likely require characteristics based on exclusion criteria from diagnoses such as syncope, transient ischemic attacks, arrhythmias, seizure, and delirium.

From a patient population perspective, the creation of a geriatric BRUE will lead to cleaner data collection on patients receiving existing diagnoses. For example, a patient may receive a diagnosis of transient ischemic attack simply because that diagnosis was the “closest fit” to the patient’s briefly resolved symptoms. Data from patients assigned a diagnosis in this manner will skew diagnostic accuracy studies and observational outcomes because these individuals will not benefit from a therapy designed to treat a condition they did not actually have. Creating a diagnosis of geriatric BRUE provides a more appropriate interim diagnosis for these patients and alleviates problems resulting from the practice of closest-fit diagnosis. When fully defined, like the original BRUE, a geriatric BRUE will provide direction to limit unnecessary diagnostic studies and therapeutic interventions.<sup>1</sup>

One criticism of geriatric BRUE is that it is only a placeholder diagnosis until a more definitive cause declares itself. This may be true, but this same problem is present with a number of other nonspecific diagnoses, such as schizoaffective disorder, ambulatory dysfunction, and even chronic obstructive pulmonary disease.<sup>5</sup>

Multiple clinicians are likely to encounter patients with geriatric BRUE symptoms, including emergency physicians, internists, neurologists, and family physicians. As such, the creation of a geriatric BRUE diagnosis will best be accomplished through a multidisciplinary committee.

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