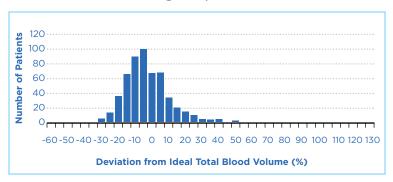


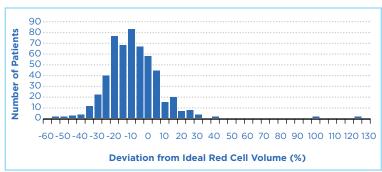
In syncope of unclear etiology, identify the hidden drivers

to enable individualized care guided by direct blood volume analysis (BVA)

Hypovolemia and anemia have been shown prevalent in syncope, a condition marked by heterogeneity in both total blood volume (TBV) and red blood cell volume (RBCV)^{1*}

• Among 539 prospectively studied noncardiac syncope patients, 44.7% had low TBV (n=241), 11.6% high TBV (n=63), 58.6% (n=306) true anemia, including 43 patients with RBCV deficits of -30% or worse, and 7.6% polycythemia (n=41)





Only direct BVA accurately quantifies TBV and RBCV to guide optimal treatment

- Serum hematocrit (Hct) was normal or high in 102 of the 306 patients with true anemia[†]
 - Hct was poorly correlated with RBCV (r^2 =0.325) as well as TBV (r^2 =0.028)
- Tilt table test results showed no correlation with TBV or RBCV

 Ongoing treatment (n=46) often was inappropriate or inadequate; a third of those already on midodrine were hypovolemic, placing them at risk for hypoperfusion in response to vasoconstriction, and almost half of those on fludrocortisone were hypovolemic

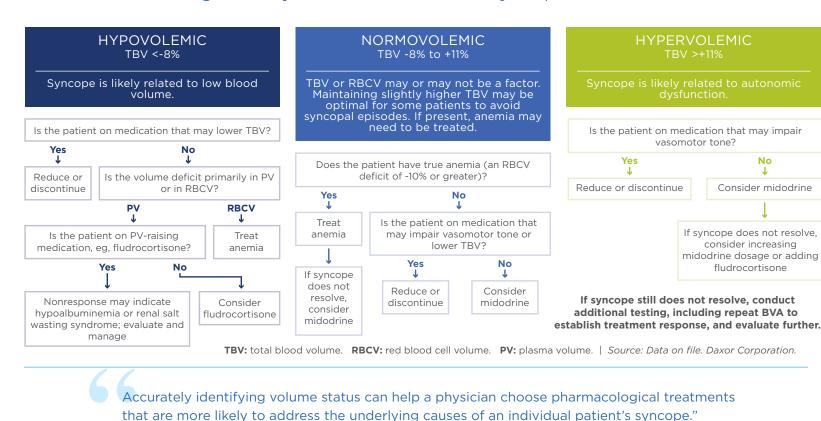
[†]True anemia was defined as an RBCV deficit vs the patient-specific ideal at -10% or worse. Hct was considered "normal or high" at ≥38% for women and ≥41% for men.



^{*}N=539 patients undergoing evaluation for syncope/presyncope of unclear etiology at the Cleveland Clinic. 337 were female and 202 male with an average age of 46 ± 24 years (age range, 16-88 years). At the time of evaluation, patients had no history of acute myocardial infarction, acute stroke, active congestive heart failure, severe valvular heart disease, or critical arrhythmias, and were not receiving dialysis. Medications varied from none to several and included fludrocortisone, midodrine, beta blockers, nitrates, antihypertensives, and antidiabetic agents.

Actionable results that inform patient care

Individualized care guided by BVA for non-cardiac syncope: an overview²





Solve the puzzle of syncope etiology

- Provides total blood and red blood cell volume along with calculated patient-specific ideals*
- Actionable results quantifies the excess or deficit with 98% accuracy
- Confidently identify and address anemia, regardless of plasma expansion or depletion
- Non-invasive, singlevenipuncture technique[†]
- Over 40,000 tests performed in over 75 hospitals
- Fully reimbursed by Medicare

*Derived from Metropolitan Life height, weight, and gender data in a uniquely accurate, validated methodology.^{3,4}

[†]A ¹³¹I labeled albumin tracer injection (≤25 microcuries: no requirement for thyroid blockade⁵) is followed by 5 blood draws 5-6 minutes apart. The Daxor BVA-100 measures plasma dilution in successive samples and performs a regression analysis to arrive at the total blood volume. BVA delivers results within approximately 90 minutes, subject to institutional procedural variance; preliminary results may be obtained in <30 minutes.

- Fetnat Fouad-Tarazi, M.D., et al¹

References: 1. Fouad-Tarazi F, et al. Blood volume measurement as a tool in diagnosing syncope. *Am J Med Sci* 2007;334(1):53-56. **2.** Data on file, Daxor Corporation. **3.** Feldschuh J, et al. Prediction of the normal blood volume—relation of blood volume to body habitus. *Circulation* 1977;56(4):605-612. **4.** Feldschuh J, et al. The importance of correct norms in blood volume measurement. *Am J Med Sci* 2007;334(1):41-46. **5.** Volumex® [package insert]. Daxor Corporation, New York, NY; 2005.

