Why Patients Know More About Cars Than Peripheral Artery Disease

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A mericans who are interested in purchasing a motor vehicle often investigate automobile manufacturers, car models, and even competitive pricing using the World Wide Web. When one uses an Internet search engine to investigate Toyota, the largest automobile manufacturer in the world, there are >93000000 results. Virtually every possible question one would have about a Toyota vehicle is discoverable before ever visiting a local Toyota dealership.

One would anticipate that physicians have a similar luxury. A patient presents with exertional discomfort in the calf that promptly resolves with rest. The patient struggles with her diet, is 30 pounds overweight, is on several medications for her high cholesterol and high blood pressure, and has been told that she has “prediabetes.” With the continued comparisons between Toyota LEAN (a practice which adds value to any process by limiting waste) mechanics and healthcare, patients likely anticipate that a physician would enter this history in a search engine and uncover the diagnosis. In fact, it is anticipated that many healthcare systems will use this type of E-diagnostic strategy for many disorders in the not too distant future.

Unfortunately, despite IBM Watson’s1 correct diagnosis of intermittent claudication attributable to peripheral artery disease (PAD), the information highway stops here. Our ability to make data-driven decisions on the optimal management of intermittent claudication attributable to PAD is woefully inadequate. Despite an improvement in the quality of data on treatment strategies for femoropopliteal PAD, the best data we have comparing outcomes of uncoated percutaneous transluminal angioplasty,2 bare nitinol stents,3 atherectomy,4 drug-eluting stents,5 and drug-coated balloons6 are embarrassingly weak.

In this issue of Circulation, Subherwal and a team of renowned clinical scientists representing some of the brightest vascular trialists in the world highlight this painful reality. Renowned clinical scientists representing some of the brightest vascular trialists in the world highlight this painful reality. The opinions expressed in this article are not necessarily those of the editors or of the American Heart Association.

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Physicians must also be accountable for this trend. As noted in this study, the majority of trials in PAD, for example, did focus on device approval, but these studies have historically ignored the importance of supervised exercise and optimal medical therapy. The Claudication: Exercise Versus Endoluminal Revascularization (CLEVER) trial is 1 rare exception.9

Commonly, physician investigators remain “guilty” of presuming to already know the answer to a question. A relevant example is that of optimal antithrombotic therapy after endovascular intervention. Several years ago, an attempt to complete a trial designed to answer the question of single versus dual antiplatelet therapy in this important and rapidly evolving patient cohort was made. The trial could not enroll because physicians felt that every patient required dual antiplatelet therapy. At the time of this publication, we still have no level 1 data guiding us on the choice of postendovascular intervention antiplatelet therapy, and, ironically, the effect of aspirin has now emerged as a question in the PAD population.10

Despite the sobering data presented by Subherwal et al,7 this comes as no surprise to those of us in the field. After all, we know that patients with PAD do not receive the same intensity of atherosclerotic risk factor intervention when compared with patients with isolated coronary heart disease.11 However,
the shockingly small number of trials dedicated to acute stroke management, representing only 0.29% of all clinical trials, is sobering. This is 1 of the most common and feared disorders among adults, and yet the true advances in therapy have been minor, as reflected in this small number of trials.

As suggested by the authors, concerted efforts to reverse this trend are needed. We must align the interests of physicians, commercial manufacturers, regulators, payers, and most importantly patients to design trials that will add to the much-needed knowledge base for the vascular patient. We need to ask questions that truly matter and study issues that are currently unanswered. We must ensure that all regions of the country will have the opportunity to offer clinical trials of new diagnostic methods and therapeutic strategies. Time is of the essence because the population continues to age and risk factors for peripheral vascular disease continue to become more prevalent. Society must consider what is more important—understanding how to manage and acute stroke to avoid convalescence in a long-term care facility, or ride in a near-driverless vehicle.12

Disclosures
Dr Jaff is a noncompensated advisor to Abbott Vascular, Boston Scientific, Cordis, Covidien Vascular, and Medtronic Vascular, a paid consultant to Cardinal Health, an equity shareholder of PQ Bypass, and a board member of VIVA Physicians, a 501(c)3 not-for-profit education and research organization.

References

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