

Point-of-Care Ultrasound: A Case Series of Potential Pitfalls



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INTRODUCTION

In recent years, point-of-care ultrasound (POCUS) has gained wide acceptance among acute care physicians. POCUS facilitates the rapid diagnosis of several life-threatening conditions, potentially leading to changes in clinical decision-making.¹ Consequently, many critical care medicine, anesthesiology, and emergency medicine programs have integrated POCUS into their core training program.² However, the lack of available trained supervisors represents a major challenge for many programs.^{3–5} As a result, various programs deliver training over a short period of time with workshops or elective rotations.^{6,7,10} Recommendations for echocardiography laboratories' participation in POCUS training allude to the fact that some physicians may have misconceptions around POCUS training for image acquisition and interpretation, and warn against an expectation of quick mastery.¹⁰ While many report the effectiveness of short courses with good long-term retention, others have found that long-term retention was poor.^{7,21–23} After a short training period, physicians may not be sufficiently prepared to safely perform POCUS in a clinical setting.^{14,22,24,25} However, data on diagnostic errors associated with the use of POCUS in the acute care setting are scarce.^{17–21}

We report 3 cases where the conclusions based on cardiac POCUS were discordant with the diagnostic findings of a comprehensive echocardiogram. We provide examples of potential pitfalls of POCUS and discuss our quality improvement initiative.

CASE PRESENTATIONS

Case 1

Our first patient was a 61-year-old man who presented to the emergency department with abdominal pain. On examination, he had a blood pressure of 107/69 mm Hg and a heart rate of 120 beats/min. The patient reported epigastric pain without tenderness. His extremities were warm and dry on examination, without peripheral edema. He complained of mild shortness of breath. His pulse oximetry was 98% on 3 L/min of supplemental oxygen. Pulmonary auscultation did not reveal any pathologic findings and cardiac auscultation was not documented. The chest radiography showed pulmonary venous congestion. The electrocardiogram showed atrial fibrillation.

A POCUS was performed by the emergency medicine resident, but no echocardiographic images were stored. The medical records stated: "The inferior vena cava (IVC) is not plethoric, there is no pericardial effusion nor abdominal aortic aneurysm." The patient had an acute kidney injury (AKI; creatinine 297 $\mu\text{mol/L}$, K^+ 6.4 mmol/L) and mild increase in liver enzymes (AST, 79; ALT, 95 units/L; bilirubin, 39 $\mu\text{mol/L}$). The troponin was within the normal range. A non-contrast abdominal computed tomography (CT) showed peripancreatic fat stranding and the radiologist raised concerns for acute pancreatitis; both amylase and lipase were normal. The emergency medicine resident concluded that the shortness of breath was unlikely to be due to congestive heart failure and attributed the AKI to hypovolemia. The patient was admitted to general surgery with a working diagnosis of acute pancreatitis.

Supported by the note summarizing the conclusions of the POCUS examination, the patient was given 4 L of fluids. The intensive care unit (ICU) team was consulted overnight on the day of admission because of worsening renal function with persistent oliguria. He received additional fluids (1 L) and subsequently diuretics but remained oliguric. The next day, a follow-up assessment noted an elevated jugular venous pressure (46 cm), and a grade 3/6 systolic murmur radiating to the axilla was heard upon cardiac auscultation. The transthoracic echocardiogram requested 24 hours after admission to define the murmur showed severe mitral regurgitation with a flail posterior leaflet (anterior scallop, P1) with signs of pulmonary hypertension and severe tricuspid regurgitation (Figure 1, Videos 1–4). The patient was transferred to the cardiac ICU. Aggressive diuresis was initiated with a rapid improvement of his dyspnea, AKI, liver congestion, and abdominal pain. The patient was eventually referred to cardiac surgery and underwent a successful mitral valve repair. The remainder of his clinical course was uncomplicated.

Case 2

Our second patient was a 34-year-old man who had recently undergone pulmonary endarterectomy for chronic thromboembolic

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Keywords: POCUS, Echocardiography, Diagnostic imaging, Misdiagnosis

Conflicts of Interest: A.G. received honoraria from Philips and is the chair of the Ultrasound Committee of the Society of Critical Care Medicine. The other authors have no conflicts of interest related to this work.

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2488-6441

<https://doi.org/10.1016/j.ccc.2022.06.002>

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