6 Imaging of hydrocephalus
The morphologic features of hydrocephalus are easily recognizable, but the pathophysiology remains incompletely understood. Classification is important as it informs optimal treatment. Optimized imaging is vital to the success of flow diversion. Decision making relies upon high-resolution imaging to determine the site of obstruction and anatomic features that may complicate the procedure.

Wende N. Gibbs, MD, MA, and Lawrence N. Tanenbaum, MD, FACR

14 Molecular imaging: The Convergence of form and function
Most radiologic exams are only capable of identifying gross anatomic manifestations of underlying microscopic derangements. Without information regarding changes occurring at cellular and molecular levels, the differential diagnoses of a given structural abnormality can be extensive. These limitations have led to efforts to extract more information from imaging exams and to correlate those findings with clinical implications. This portends a paradigm shift towards using radiology to interrogate disease on genetic, molecular, and pathophysiological levels.

Christopher D. Malone, MD, and Isabel G. Newton, MD, PhD

4 Editorial
Dipping a toe in the academic pond
Stuart R. Minvis, MD, FACR

26 Demystifying Artificial Intelligence
Simplifying AI and machine learning
Eliot Siegel, MD, FACR

29 Radiological Case
Parapagus diencephalus dibrachius dipus conjoined twin case
Christopher D.A. Byers, BS; Jason R. Young, MD; and Mary Connell, MD

34 Radiological Case
4D-CTA and preoperative embolization of large intracerebral meningioma
Mohamad F. Bazerbashi, MD; Mark Buehler, MD; Mouhammad A. Junaid, MD; and Jason L. Schroeder, MD

40 Pediatric Radiological Case
Giant axonal neuropathy
Ryan Crete, MD; Scott A. Jorgensen, MD; Alexander J. Towbin, MD; Richard Towbin, MD

42 Radiological Case
Richter-type Spigelian hernia
Juan-Jose Delgado-Moraleda, MD, Salvador Alandete-Germa, MD, Carmen Ballester-Vallés, MD, Neisses Nerysryan, MD, Jaime Salvador-Garcia, MD; and Juan-José Pomares, MD

44 Radiological Case
Urinothorax occurring in conjunction with intraperitoneal bladder rupture
Scott Cressman, MD, and Matt Rheinboldt, MD

48 Wet Read
Wasted messages
C. Douglas Phillips, MD, FACR