

## Free Mobile Apps to Help Learning While Working in Pediatrics and Pediatric Radiology

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Smartphones have had a huge impact on the daily lives of most physicians, but for most physicians the impact has been greater in their personal lives than in their professional lives. The purpose of this paper is to identify free medical applications (or "apps") that can aid physicians in their practice of pediatrics and pediatric radiology.

### INTRODUCTION

The rapid diffusion of "smart" mobile phone technology has profoundly transformed the lives of billions of individuals worldwide by the second decade of the twenty-first century. Today the majority of time spent by individuals on their smartphones is not in using the phone app but in using all the other apps on their phone. While texting apps used to communicate are amongst the most heavily used apps, less well known and therefore much less used by physicians are the growing number of medical apps to assist physicians in medical decision support and medical education. The purpose of this paper is to identify free medical apps that can aid physicians in their practice of pediatrics and pediatric radiology.

### METHODS

All apps described in this paper are free to use, lowering the threshold to downloading and experimenting with them. They are available in the Apple iOS or Google Play app stores. Additionally, direct links to most of the apps described in this paper can be found at the Web site

### RadiologyEbooks.com.

When one has appreciated what these free apps and Ebooks can offer, the next place to visit is the Web site of one's local medical library, which often have licensing agreements with app and EBook vendors, therefore making their paid apps and EBooks available for free to their patrons. Table 1 and 2 introduce a list of apps and websites available for physicians especially in pediatrics and radiology.

### CONCLUSION

Today, in their hands, physicians possess what is potentially the most incredible educational device ever created by man. Whether or not it achieves this potential is up to its users. By downloading and trying some of these free apps and following some of these social media accounts, one can take a first step towards integrating your learning into your daily work and life.

Table 1: List of Apps and Websites Available for Physicians in Pediatrics (A indicates the App is available for Android and i for IOS system)

	Name	Basic functions
<b>Decision Support Apps</b>	Medscape <sup>A,i</sup>	Covers information in all pediatric subspecialties
	Epocrates <sup>A,i</sup>	A helpful app for pharmacology
	Epocrates Bugs+Drugs <sup>i</sup>	For infectious disease treatment
	LactMed <sup>A,i</sup>	For breast feeding
	TravWell <sup>A,i</sup>	For travel medicine
	STD Tx Guide <sup>A,i</sup>	For sexually transmitted diseases
	Vaccine Schedule <sup>A,i</sup>	For vaccinations
	Contraception <sup>A,i</sup>	For birth control
	About Herbs <sup>i</sup>	For herbal medicine
<b>Educational Apps</b>	Pediatric Quiz <sup>A</sup>	For simulated pediatric clinical situations and questions
	Pediatric Question of the Day <sup>i</sup>	
	PICU Question of the Day <sup>i</sup>	
<b>Ebook Apps</b>	Kindle <sup>A,i</sup>	No free pediatrics EBooks available in Kindle format or EPUB format.
	Google Play Books <sup>A</sup>	
	iBooks <sup>i</sup>	
<b>Social Media Apps</b>	Twitter <sup>A,i</sup> @AcademicPeds @AmerAcadPeds	Pediatric societies with active social media accounts on Twitter
	Facebook <sup>A,i</sup> @pedseducation	Regularly post pediatric educational content
	#FOAMPed	Hashtags to search for to identify pediatric content
	#FOAMed	
	#pediatrics	
	<b>Podcasting Apps</b>	Pediatric Critical Care Medicine <sup>i</sup>
Pediatric Emergency Playbook <sup>i</sup>		
Stay Current in Pediatric Surgery <sup>i</sup>		
<b>Killer App - Web browser</b>	GeneralPediatrics.com	Pediatrics-specific index of the Web
	SearchingPediatrics.com	Pediatrics-specific search engine

Table 2: List of Apps and Websites Available for Physicians in Radiology (A indicates the App is available for Android and i for IOS system)

	Name	Basic functions
<b>Decision Support Apps</b>	Medscape <sup>A,i</sup>	Covers information in all radiology subspecialties, including pediatric radiology
	Epocrates <sup>A,i</sup>	A helpful app for pharmacology
	Contrast Protocols <sup>i</sup>	The use of intravenous contrast material in computed tomography
	pedsMRI <sup>A,i</sup>	MRI imaging protocols
<b>Educational Apps</b>	Radiology 2.0 One Night in the ED <sup>i</sup>	For simulated patient cases in the form of unknown teaching files
	CTisus iQuiz <sup>i</sup>	
	Essentials of Pediatric Radiology <sup>i</sup>	
<b>Ebook Apps</b>	Kindle <sup>A,i</sup>	No free pediatric radiology Ebooks available in Kindle format or EPUB format
	Google Play Books <sup>A</sup>	
	iBooks <sup>i</sup>	
	Difficult Diagnoses in Pediatric Imaging <sup>i</sup>	Free pediatric radiology Ebooks available in iBooks2 format which are readable in the iBooks app
	Pediatric Fluoroscopy <sup>i</sup>	
	The Little Book of Skeletal Dysplasias <sup>i</sup>	
<b>Social Media Apps</b>	Twitter <sup>A,i</sup> @AOSPRCom @EurSPR @ImageGently @SocPedRad @SocPedsIR @The_ASPNR @WorldFederation	Pediatric radiology societies with active social media accounts on Twitter
	Instagram <sup>A,i</sup>	Photosharing service
	Facebook <sup>A,i</sup> @CincyKidsRad @pedsimaging @radiopaedia (all available on Facebook and Instagram and Twitter)	Regularly post pediatric radiology educational content
	#FOAMRad	Hashtags to search for to identify pediatric radiology content
	#PedsRad	
	#Radiology	

	<b>Name</b>	<b>Basic functions</b>
<b>Podcasting Apps</b>	CTisUS	Cover all aspects of body CT imaging
	LearningRadiology	Covers introductory aspects of radiology
	Radiology	Covers current journal articles in the Radiology Society of North America's journal Radiology
	Radiology Firing Line	Covers controversial topics in radiology from the American College of Radiology
	AJNR	Covers current journal articles in the journal American Journal of Neuroradiology
<b>Killer App - Web browser</b>	SearchingRadiology.com	Allows one to conduct Google searches of only peer-reviewed radiology information
	goldminer.arrs.org	Radiology-specific search engine that can be searched using 35 different languages
	PediatricRadiology.com	A comprehensive index of free Web sites that are high quality pediatric radiology educational resources