

An Observational Study to Find out the Available Youtube Neonatal Radiology Videos

KEYWORDS

YouTube videos, Neonatal, Radiology, Ultrasonography, CT scan, MRI

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ABSTRACT

The observational study was conducted to find out the available YouTube Radiology videos on google search. The search was conducted using key phrases YouTube videos Neonatal Radiology, YouTube videos Neonatal Ultrasonography, YouTube videos Neonatal CT scan and YouTube videos Neonatal MRI. The videos were analyzed for the availability, relevance and area addressed. Limited availability of videos in CT scan and MRI reflected necessity of development of relevant teaching & training videos in these domains.

Introduction:

There is rapid technological advancement and professional interest in the Smart phone based Apps in the field of Medicine.^{1,2,3,4,5} The best training occurs either by directly observing the procedure and image or by using training videos. You-Tube videos(YTV) are very often observed in various fields of Medicine.⁶ However, in the field of Neonatology use of YTV becomes all the more important so as to practice safe & effective medicine. Therefore, the present observational study was designed to address the research question of the current status of YTV in the field of Neonatal Imaging and thus firstly optimally utilise them and develop videos in the deficient domains.

Aim:

An observational study to find out the available YouTube Neonatal Radiology videos.

Material & Methods:

The google search was conducted using key phrases YouTube videos Neonatal Radiology, YouTube videos Neonatal Ultrasonography, YouTube videos Neonatal CT scan and YouTube videos Neonatal MRI The videos were analyzed for the availability, relevance and area addressed.

Observations:

The YTV detailed data on google search is depicted in Table no. 1. The details of some relevant specific YTV are shown in Table no 2.

Discussion:

The study revealed that the total number of relevant YTV being 27 out of more than half a million search results. YTV have mainly addressed to Brain, Chest, Hip and others. It is presumed that appropriate utilization of available YTV will greatly facilitate neonatal care and training. Scarcity of YTV in the domains of Neonatal CT & MRI is alarming and warrants attention.

Conclusions:

This observational study found out the available YTV in the field of Neonatal Imaging. The number of YTV available are too few for such a specialized field of Neonatal Imaging. It is thus imperative that more videos are developed in near future addressing the various domains of this subspecialty.

google search						
Key Phrase	No. of YTV	No. Relevant YTV	Brain	Hip	Chest	Misc.
YTV Neonatal Radiology	120000	12	2	-	9	1
YTV Neonatal Ultrasonography	367000	11	8	3	-	-
YTV Neonatal CT Scan	41400	1	1			
YTV Neonatal MRI	121000	3	3	_		-

Table 1: YTV on I	Neonatal	Imaging	as	on	30	Nov	2015	on
google search								

Table	2:	Specific	examples	of	some	relevant	YTV	with	de-
tails									

S.N.	Name	Source	Place/ Site	Year	Subject	Time (min)
1	Radiog- raphy of the Neonatal Chest	Dr. George S. Bisset	Texas Chil- dren's Hospital	2011	Neo- natal Chest diseases	55

2	Learn- ingRa- diology 18(Neo- natal Lung Disease)	learnin- gradiol- ogy. com	Albert Einstein Medical Centre, Philadel- phia	2010	Neo- natal Chest diseases	15
3	Neonatal Radiog- raphy part 1	Radiol- ogy Resi- dency UM/ JMH	Univer- sity of Miami	2015	Normal Findings and the Basics	12
4	Neonatal Radiog- raphy part 2	Radiol- ogy Resi- dency UM/ JMH	Univer- sity of Miami	2015	Medical causes of Neo- natal Respi- ratory Distress	18.22
5	Neonatal Radiog- raphy part 3	Radiol- ogy Resi- dency UM/ JMH	Univer- sity of Miami	2015	Surgical Lesions causing Neona- tal Re- spiratory Distress.	15.12
6	Neonatal Radiog- raphy part 4	Radiol- ogy Resi- dency UM/ JMH	Univer- sity of Miami	2015	Mis- placed Lines and Tubes	14.55
7	Neonatal Radiog- raphy part 5	Radiol- ogy Resi- dency UM/ JMH	Univer- sity of Miami	2015	Baro- trauma and Extra Alveolar Air	27.12
8	NICU Ra- diology Case- book	Tan- zeema Hossain	NICU- trainee- portal	2014	Respi- ratory distress in 31 week twin	9.28
9	Neonatal Brain MR Imaging	KOC Radiol- ogy	Hospital for Sick Kids, Canada	2014	Basics of MRI neonatal brain	34.18

RESEARCH PAPER

Volume : 5 | Issue : 12 | December 2015 | ISSN - 2249-555X

REFERENCE1. Gupta SG, Gupta G. Pediatric Radiology Apps & their relevance in Medical practice & training IJSR 2015 Oct;4 (10),441-42. | 2. Richardson ML.Software Aids for radiologists: Part 2, Essential apps for handheld devices.AJR Am J Roentgenol.2012 Dec;199(6):W714-22 | 3. Székely A, Talanow R, Bágyi P.Smartphones, tablets and mobile applications for radiology. Eur J Radiol. 2013 May;82(5):829-36. | 4. Sharpe EE 3rd, Kendrick M, Strickland C, Dodd GD 3rd.The Radiology Reident iPad Toolbox: an educational and clinical tool for radiology residents.J Am Coll Radiol. 2013 Jul;10(7):527-32. | 5. Gupta G. Are Medical Apps the future of Medicine? MJAFI 2013 April:69(2):105–106 | 6. Kwon JY, Chacko AT, Kadzielski JJ, Appleton PT, Rodriguez EK.A novel methodology for the study of injury mechanism: ankle fracture analysis using injury videos posted on YouTube.com J Orthop Trauma. 2010 Aug;24(8):477-82 | |