

Pediatric Drugs

Therapeutic Role of Neostigmine and Pyridostigmine in Pediatric Chronic Intestinal Pseudo-Obstruction: A Systematic Review

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Table supplementary 1. Literature search strings used in this study

Pubmed

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((pyridostigmine[Title/Abstract]) AND ((intestinal) OR (obstruction) OR (pseudoobstruction)) AND ((adolescent) OR (infant) OR (pediatric) OR (children)))  
((neostigmine[Title/Abstract]) AND ((intestinal) OR (obstruction) OR (pseudoobstruction)) AND ((adolescent) OR (infant) OR (pediatric) OR (children)))
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web of science

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((ALL=(infant) OR ALL=(pediatric) OR ALL=(children) OR ALL=(adolescent)) AND (AB=(pyridostigmine) AND (ALL=(obstruction) OR ALL=(intestinal) OR ALL=(pseudoobstruction))))  
(((ALL=(infant) OR ALL=(pediatric) OR ALL=(children) OR ALL=(adolescent)) AND (AB=(neostigmine) AND (ALL=(obstruction) OR ALL=(intestinal) OR ALL=(pseudoobstruction)))))
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Scopus

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( TITLE-ABS-KEY ( "pyridostigmine" ) AND TITLE-ABS-KEY ( "obstruction" OR "pseudoobstruction" OR "intestinal" ) ) AND ( TITLE-ABS-KEY ( "adolescent" OR "pediatric" OR "infant" OR "children" ) ) AND ( LIMIT-TO ( DOCTYPE , "ar" ) OR LIMIT-TO ( DOCTYPE , "le" ) OR LIMIT-TO ( DOCTYPE , "ed" ) OR LIMIT-TO ( DOCTYPE , "no" ) )  
( TITLE-ABS-KEY ( "neostigmine" AND "obstruction" OR "pseudoobstruction" OR "intestinal" ) ) AND ( TITLE-ABS-KEY ( "adolescent" OR "pediatric" OR "infant" OR "children" ) ) AND ( LIMIT-TO ( DOCTYPE , "ar" ) OR LIMIT-TO ( DOCTYPE , "le" ) OR LIMIT-TO ( DOCTYPE , "ed" ) OR LIMIT-TO ( DOCTYPE , "no" ) )
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Embase

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('infant' OR 'adolescent' OR 'child' OR 'pediatric') AND 'pyridostigmine':ti,ab,kw AND ('obstruction':ti,ab,kw OR 'enteropathy':ti,ab,kw OR 'pseudoobstruction':ti,ab,kw)  
('infant' OR 'adolescent' OR 'child' OR 'pediatric') AND 'neostigmine':ti,ab,kw AND ('obstruction':ti,ab,kw OR 'enteropathy':ti,ab,kw OR 'pseudoobstruction':ti,ab,kw)
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	case series	Were there clear criteria for inclusion in the case series?	Was the condition measured in a standard, reliable way for all participants included in the case series?	Were valid methods used for identification of the condition for all participants included in the case series?	Did the case series have consecutive inclusion of participants?	Did the case series have complete inclusion of participants?	Was there clear reporting of the demographics of the participants in the study?	Was there clear reporting of clinical information of the participants?	Were the outcomes or follow up results of cases clearly reported?	Was there clear reporting of the presenting site(s)/clinic(s) demographic information?	Was statistical analysis appropriate?		case reports	Were patient's demographic characteristics clearly described?	Was the patient's history clearly described and presented as a timeline?	Was the current clinical condition of the patient on presentation clearly described?	Were diagnostic tests or assessment methods and the results clearly described?	Was the intervention(s) or treatment procedure(s) clearly described?	Was the post-intervention clinical condition clearly described?	Were adverse events (harms) or unanticipated events identified and described?	Does the case report provide take away lessons?
Pyridostigmine																					
Boybeyi 2009														y	y	y	y	y	y	y	y
Capriati 2025		y	y	y	y	y	y	y	y	y	y										
Chodhury 2018														y	y	y	y	y	y	u	y
Comisi 2024														y	y	y	y	y	y	y	y
Dahiya 2021														y	y	y	y	u	y	u	y
Di Nardo 2019														y	y	y	y	y	y	u	y

Manini 2017														y	y	y	y	y	y	y	y
Mier Escurra 2016														y	y	y	y	y	y	u	y
Turer 2019		y	y	y	y	y	y	y	y	y	y										
Neostigm ine																					
Althausen 2001		y	y	y	y	y	y	y	u	y	N/A										
Brar 2025														y	y	y	y	y	y	y	y
Garcia 2018														y	y	y	y	u	y	u	y
Gmora 2002														y	y	y	y	y	y	u	y
Gonzalez 2011														y	y	y	y	y	y	2y, 1 u	y
Hooten 2014														y	y	y	y	u	y	u	y
Jessop 2010														y	y	y	y	u	y	case 1 Y, case2 u	y
Johnson 2012														y	y	y	y	y	y	y	y

Khosla 2008														y	y	y	y	y	y	y	y
Kim 2007														y	y	y	y	y	y	y	y
Lee 2010		y	y	y	y	y	y	y	y	N/A											
Petersen 2019														y	y	y	y	y	y	y	y
Neostigm in + Pyridostig mine																					
Lee 2019														y	y	y	y	y	y	y	y