

SPECIALISED COMMISSIONING – RESPONSE TO AMENDMENTS REQUESTED TO EVIDENCE REVIEW DURING ENGAGEMENT OR CONSULTATION

URN	1675
POLICY TITLE	Surgical correction for pectus deformity
CRG:	Specialist Cancer Surgery
NPOC:	Cancer
PUBLIC HEALTH LEAD:	██████████

Description of comments during consultation	<p>NHS England was asked to consider the findings and relevance to the policy of the following studies:</p> <ul style="list-style-type: none"> • Sigalet DL, Montgomery M, et al. Cardiopulmonary effects of closed repair of pectus excavatum. <i>J Pediatr Surg.</i> 2003;38: 380-5. • Sigalet DL, Montgomery M, et al. Long term cardiopulmonary effects of closed repair of pectus excavatum. <i>Pediatr Surg Int.</i> 2007;23: 493-7. • White JA, Fine NM, Shargall Y. Pectus excavatum with compression of the inferior vena cava a rare cause of recurrent syncope. <i>Circulation.</i> 2009;120: 1722-1724. • Neviere R, Benhamed L, et al. Pectus excavatum repair improves respiratory pump efficacy and cardiovascular function at exercise. <i>J Thorac Cardiovasc Surg.</i> 2013;145: 605-6. • O'Keefe J, Byrne R, et al. Longer term effects of closed repair of pectus excavatum on cardiopulmonary status. <i>J Pediatr Surg.</i> 2013;48: 1049-54. • Chao CJ, Jaroszewski DE, et al. Surgical
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	<p>repair of pectus excavatum relieves right heart chamber compression and improves cardiac output in adult patients – an intraoperative transesophageal echocardiographic study. <i>Am J Surg.</i> 2015;210: 1118-25.</p> <ul style="list-style-type: none"> • Borrhomé S, Lenoir M, et al. Syncope caused by right ventricular obstruction by pectus excavatum. <i>J Thorac Cardiovasc Surg.</i> 2016;151 :e67-9. • Udholm S, Maagaard M, et al. Cardiac function in adults following minimally invasive repair of pectus excavatum. <i>Interact Cardiovasc Thorac Surg.</i> 2016;22: 525-530. • Siniorakis E, Arvanitakis S, et al. Pectus excavatum: right ventricular compromise with orthostatic syndrome and Brugada phenocopy. <i>J Saudi Heart Assoc.</i> 2017;29: 223-226.
<p>Action taken by Public Health lead</p>	<p>The papers were reviewed against the relevant PICO criteria for the policy proposal. None of the papers met the criteria:</p> <ul style="list-style-type: none"> • Sigalet DL, Montgomery M, et al. Cardiopulmonary effects of closed repair of pectus excavatum. <i>J Pediatr Surg.</i> 2003;38: 380-5. Published prior to period used for the search strategy of relevant evidence review. • Sigalet DL, Montgomery M, et al. Long term cardiopulmonary effects of closed repair of pectus excavatum. <i>Pediatr Surg Int.</i> 2007;23: 493-7. Published prior to period used for the search strategy of relevant evidence review. • White JA, Fine NM, Shargall Y. Pectus excavatum with compression of the inferior vena cava a rare cause of recurrent syncope. <i>Circulation.</i> 2009;120: 1722-1724. Case report. • Neviere R, Benhamed L, et al. Pectus excavatum repair improves respiratory pump efficacy and cardiovascular function at exercise. <i>J Thorac Cardiovasc Surg.</i> 2013;145: 605-6.

	<p>Less than 30 study participants.</p> <ul style="list-style-type: none"> • O'Keefe J, Byrne R, et al. Longer term effects of closed repair of pectus excavatum on cardiopulmonary status. <i>J Pediatr Surg.</i> 2013;48: 1049-54. Results from a single clinic site. • Chao CJ, Jaroszewski DE, et al. Surgical repair of pectus excavatum relieves right heart chamber compression and improves cardiac output in adult patients – an intraoperative transesophageal echocardiographic study. <i>Am J Surg.</i> 2015;210: 1118-25. A single surgeon performed all procedures. • Borrhomé S, Lenoir M, et al. Syncope caused by right ventricular obstruction by pectus excavatum. <i>J Thorac Cardiovasc Surg.</i> 2016;151 :e67-9. Case report. Published after relevant evidence review. • Udholm S, Maagaard M, et al. Cardiac function in adults following minimally invasive repair of pectus excavatum. <i>Interact Cardiovasc Thorac Surg.</i> 2016;22: 525-530. Less than 30 study participants. Published after relevant evidence review. • Siniorkakis E, Arvanitakis S, et al. Pectus excavatum: right ventricular compromise with orthostatic syndrome and Brugada phenocopy. <i>J Saudi Heart Assoc.</i> 2017;29: 223-226. Case report. Published after relevant evidence review.
Outcome	<p><u>Low grade evidence identified by stakeholders that does not materially affect the conclusions of the existing evidence reviews.</u></p>