

**Peer Review File**

Article Information: <https://dx.doi.org/10.21037/ajo-21-16>

**Reviewer A:**

Outstanding review, comprehensive, well written, well researched and extremely informative

Will be a valuable paper and well cited.

Thank you very much

**Reviewer B:**

Dear author,

thank you for submitting this comprehensive overview on sinonasal surgery in children. I have read it with great interest and highly appreciate the work you have performed in providing an extensive review on the physiology of nasal breathing in children, the facial development and the relation to surgery. I have some minor comments or suggestions:

Comment 1: Line 274: PCRS has different pathophysiology than adult CRS: maybe highlight some major differences.

Reply 1: I have included more information on the major differences between adult and paediatric CRS and reorganized the paragraph so that it is more evident. I have also added further detail regarding GORD and PCRS

Changes in text:

- p12 lines 288-290, lines 294-300
- p13 Lines 301-310 and lines 324-325
- p14 lines 326-329 and lines 332-334

Comment 2: Line 276: in recent guidelines (EPOS 2020) the link between atopy and PCRS is more circumstantial than really shown with high level evidence

Reply 2: I have removed atopy as a contributing factor (p 12 line 276) and included more detail on the research findings regarding atopy and PCRS.

Changes in text:

- p12 Line 277-281

I have also added that pre-operative management of atopy in children with PCRS improves ESS outcomes.

Changes in text:

- p 25 lines 616-617

Comment 3: Line 303 to 309: this paragraph is repetition (introduction paragraph in pcrs)

Reply 3: Thank you for highlighting this. I have removed this detail from the Symptoms section.

Comment 4: Line 337: maybe explain or mention threshold of this scoring system for ESS

Reply 4: I have expanded on this section further to include the threshold and more detail regarding incidental findings on CT scans in children.

Changes in text:

- p15 lines 367-375

- p 16 lines 376-380, lines 382-386

Comment 5: Line 343: what is the relevance/evidence for vitD?

Reply 5: I have expanded this section to explain the relevance of testing vitamin D in children.

Changes in text:

- p 16 lines 391-400

Comment 6: Line 388: I would delete the Thai study: most guidelines do not recommend short or long term ab, except for complications of rhinosinusitis

Reply 6: I have removed this study

Comment 7: Line 397: topical antibiotics: I thought that this was only shown for CF and not for immunocompromised?

Reply 7: I have clarified this point and inserted "cystic fibrosis" rather than "immunocompromised."

Changes in text:

- p19 lines 451-452

Comment 8: Line 426; what is the minimum age for septoplasty in your opinion

Reply 8: I have added more detail with age recommendations under a title "Timing of septal surgery in children."

Changes in text:

- p21 lines 501-524

- p 22 lines 525-526

Comment 9: Line 527: although I totally agree with this statement, I would delete it as this can be subject to a separate publication, same is true for figure 6.

Reply 9: I have removed this statement but left figure 6 in to illustrate a complication of PCRS. I have altered the figure legend to remove the text regarding medical treatment.

Changes in text:

- p 34 lines 741-743

Comment 10: Line 531: Maybe you can add some data on the beneficial effect of ESS on lower airways symptoms

Reply 10: I have added data regarding the impact of ESS on the lower airways and quality of life.

Changes in text:

- p 24 line 596-599

- p 25 lines 600-601

- p 25 lines 618-623

Comment 11: Figure 2: quality of the picture is low, maybe redraw yourself a new one and refer to the original.

Reply 11: I have improved the quality of this figure.