

Introduction

The aim of this study was to determine the interest of Welsh medical students in a paediatric podcast, and if COVID had any impact on this change in interest towards virtual podcasts.

Method

A survey was sent to medical students at Cardiff and Swansea University. Most questions used Likert scales.

Data were exported to Microsoft Excel and SPSS ver.25 for analysis. Chi squared testing was used for binary answers where appropriate, with $p < 0.05$ taken as a cut off for statistical significance.

Results

There were 203 respondents: 45 student from Swansea University and 158 students from Cardiff University, representing 10% of the total cohort in each.

68% of respondents didn't feel confident with their paediatric knowledge, 82.3% found podcasts useful to their learning and 97% would listen to an undergraduate paediatric podcast if available (Figure 3)

We wanted to compare if year 4 medical students had a significant difference in their demand; from missing out on their paediatric block however, this was not the case ($p = 0.524$) (Figure 1)

Information was attained regarding the preferred structure of the podcast with both case-based (93.1%) and structured format (94.6%) being preferred.

The 3 most popular topics were Cardiology, Development, Respiratory. (Figure 2)

It's important that we acknowledge the uptake that would be attained in the future once the podcast is produced. In regards to how many students would listen to it, it's very optimistic to see that 97% would, showing the demand is there for it and it's a specialty people want to have further resources for.

References

- Barua, Ankur. "Methods for Decision-Making in Survey Questionnaires Based on Likert Scale." *Journal of Asian Scientific Research* 3 (2013): 35-38.
- Rose S. Medical Student Education in the Time of COVID-19. *JAMA*. 2020;323(21):2131-2132. doi:10.1001/jama.2020.5227

| Likert Answer | | Year 4 Cardiff Student | All other medical students |
|----------------------------|-------|------------------------|----------------------------|
| Strongly Agree | Count | 35 | 85 |
| | % | 57.4% | 59.9% |
| Agree | Count | 23 | 44 |
| | % | 37.7% | 31.0% |
| Somewhat Agree | Count | 3 | 7 |
| | % | 4.9% | 4.9% |
| Neither Agree nor Disagree | Count | 0 | 5 |
| | % | 0.0% | 3.5% |
| Somewhat Disagree | Count | 0 | 1 |
| | % | 0.0% | 0.7% |
| Disagree | Count | 0 | 0 |
| | % | 0.0% | 0.0% |
| Strongly Disagree | Count | 0 | 0 |
| | % | 0.0% | 0.0% |
| Total | Count | 61 | 142 |
| | % | 100.0% | 100.0% |



Figure 1

Figure 2

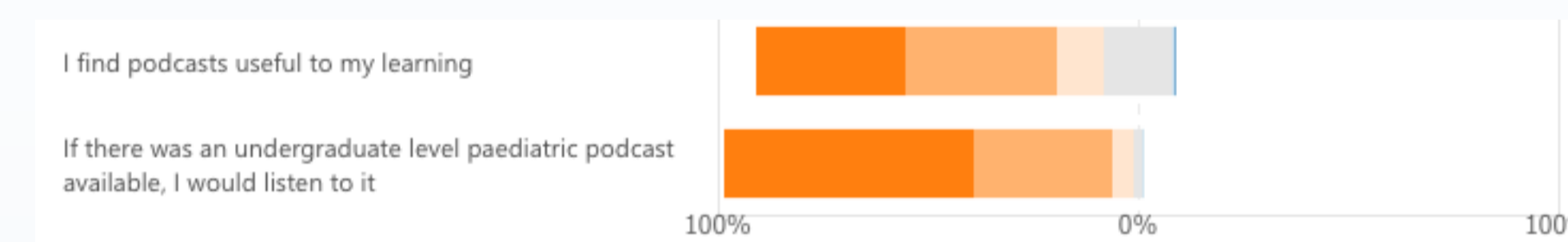


Figure 3

Discussion

There is a strong appetite amongst medical students for a paediatric podcast, with virtual learning being integral to medical schools teaching methodology due to COVID. The next step is to develop the podcast series.

Further we have gained information on the specific areas which commonly medical students feel as if they have a lack of knowledge on and collated the common themes suggested via the questionnaires. This will hopefully allow us to satisfy the demand within this population in the future.

Further we will develop a secondary survey to understand if confidence in undergraduate students paediatric knowledge increased post-podcast.

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