Introduction

East Carolina University School of Dental Medicine (ECU SoDM) has established unique education model, which delivers dental curriculum through rotations at community service-learning centers (CSLCs) at the underserved areas across North Carolina in the senior year. The objective of the study is to analyze patient composition and CBCT prescription patterns at main campus (Ross Hall) and eight CSLCs, to determine if students have comparable educational experience at various sites.

Methods

CBCTs taken at ECU SoDM in 2017-2021 were evaluated. The demographics, Medicaid coverage, and scan indications were analyzed. One-way analysis of variance and Wilcoxon Rank sum test were used to determine significant difference in Medicaid coverage and scan indications among different sites.

Results

The top reasons for scans:
- Implant
- Endo
- Oral Pathology
- 3rd molar assessment

Location:
- Ross Hall
- Davidson
- Brunswick
- Lillington
- Elizabeth City

No significant difference in the indications for CBCTs or Medicaid coverage among various sites

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<thead>
<tr>
<th>Reasons for CBCT scans</th>
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<tr>
<td>Others</td>
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<tr>
<td>Canine Impaction</td>
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<tr>
<td>3rd molar</td>
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<tr>
<td>Oral Pathology</td>
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<tr>
<td>Endo</td>
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<td>Implant 1-6</td>
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<td>Implant 3-5</td>
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<td>Implant 2</td>
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<td>Implant 1</td>
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<table>
<thead>
<tr>
<th>Reasons for CBCT scans by locations</th>
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<tbody>
<tr>
<td>Ross Hall</td>
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<tr>
<td>Davidson</td>
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<tr>
<td>Brunswick</td>
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<td>Lillington</td>
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<td>Jasmine</td>
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<td>Raleigh</td>
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<td>Asheville</td>
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<td>Elizabeth City</td>
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Summary

- The top reasons for scans: implant>endo>oral pathology>3rd molar assessment
- Location: Ross Hall>Davidson>Brunswick>Lillington, with Elizabeth City being the least
- No significant difference in the indications for CBCTs or Medicaid coverage among various sites

Discussion

The demographics, Medicaid coverage and CBCT prescription patterns were comparable among various sites. A significant site-related difference in the amount of scans taken was noted.

Conclusions

It is essential to monitor CSLC rotation selections to ensure an adequate and consistent patient care experience to the dental students due to big variation in the amount of CBCT taken at different sites.

Acknowledgements

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