

“ARE WE ON THE SAME PAGE”? A Comparative Audit of Contour Variability & Dose Achievement in Head and Neck Radiotherapy Across Lahore & Peshawar Centers

Anusha Haider, Asma Rashid, Muhammad Anas Tahseen Asar, Sadia Anjum, Fajar Rafi Ranjha, Faisal Aziz, Muhammad Kashif

¹Shaukat Khanum Memorial Cancer Hospital and Research Centre, Radiation Oncology, Lahore, Pakistan.

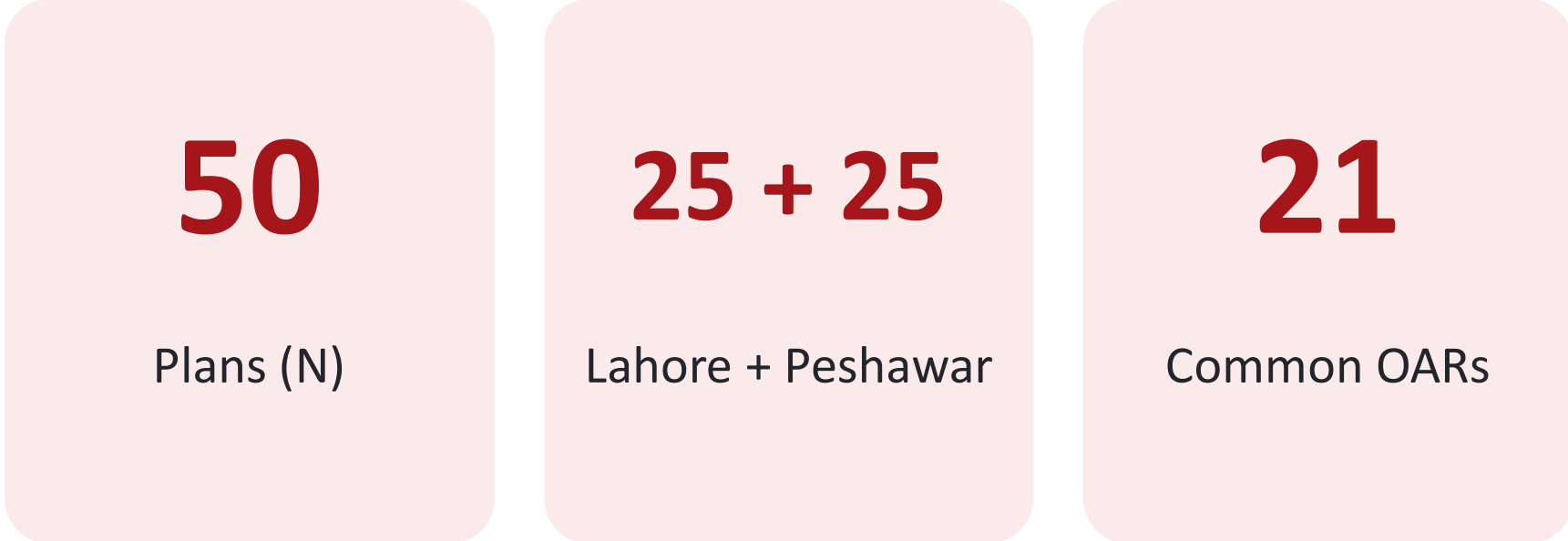
BACKGROUND

Consistent, complete organ-at-risk (OAR) delineation is essential for minimizing radiotherapy-related toxicity in head and neck cancer (HNC). Whether contouring practice is uniform across a multi-site institution is not well characterized.

OBJECTIVE

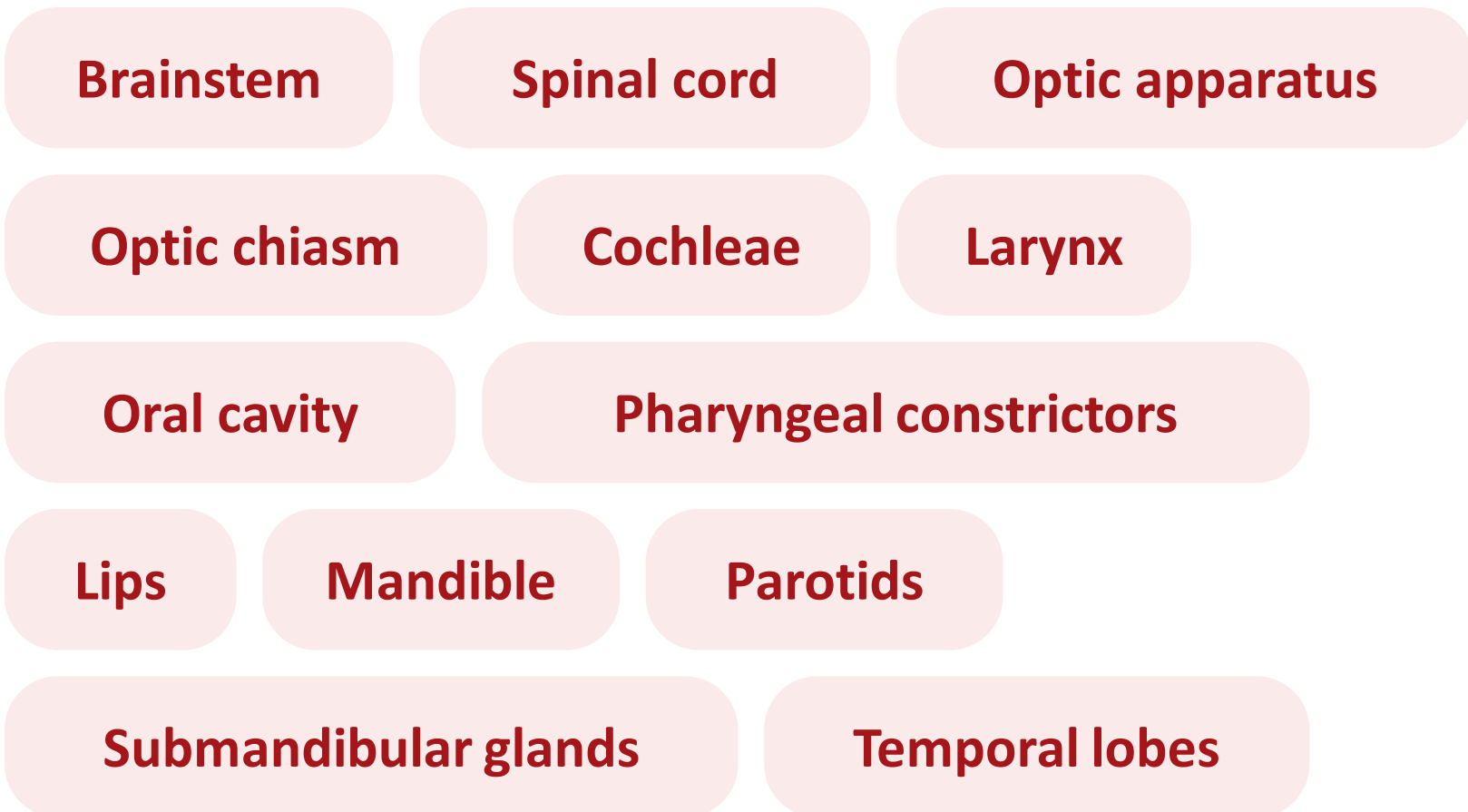
To compare organ at risk contouring delineation compliance and dose-constraint achievement in Head and Neck Cancer radiotherapy plans between Lahore and Peshawar centers of Shaukat Khanum Memorial Cancer Hospital.

METHODS



- Retrospective audit
- Randomly selected head and neck radiotherapy plans

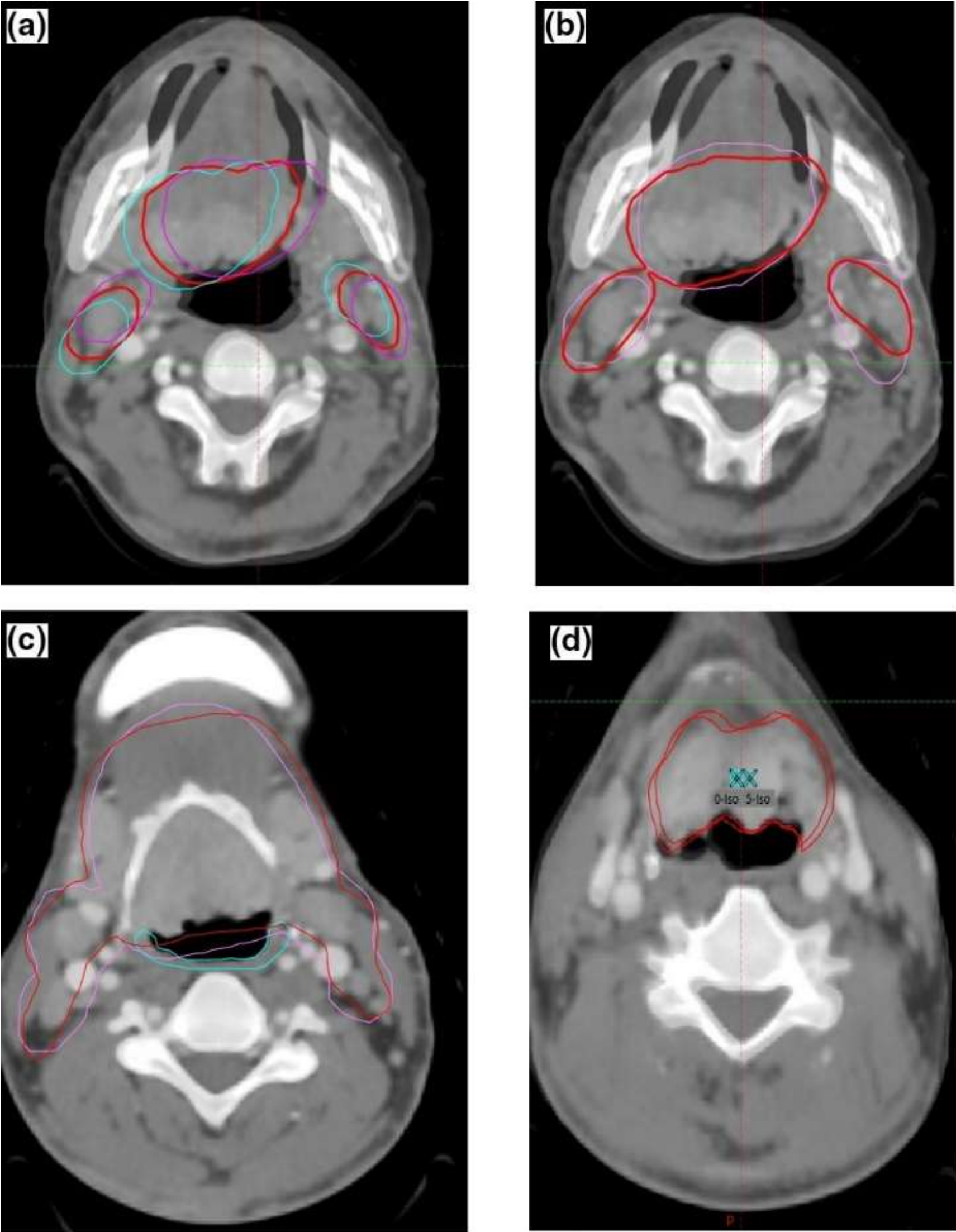
OARs evaluated



FOUR TIER SCORING

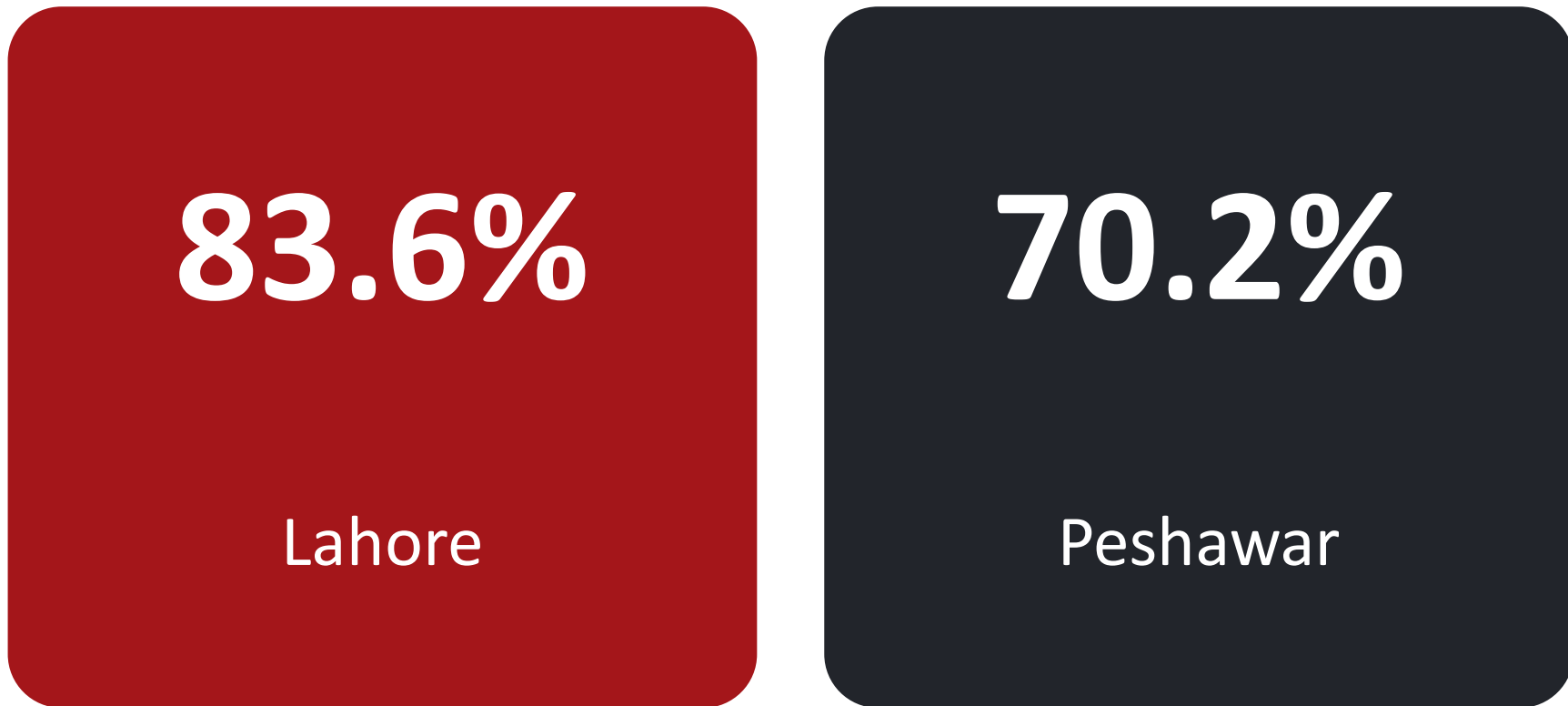


CONTOUR EXAMPLES

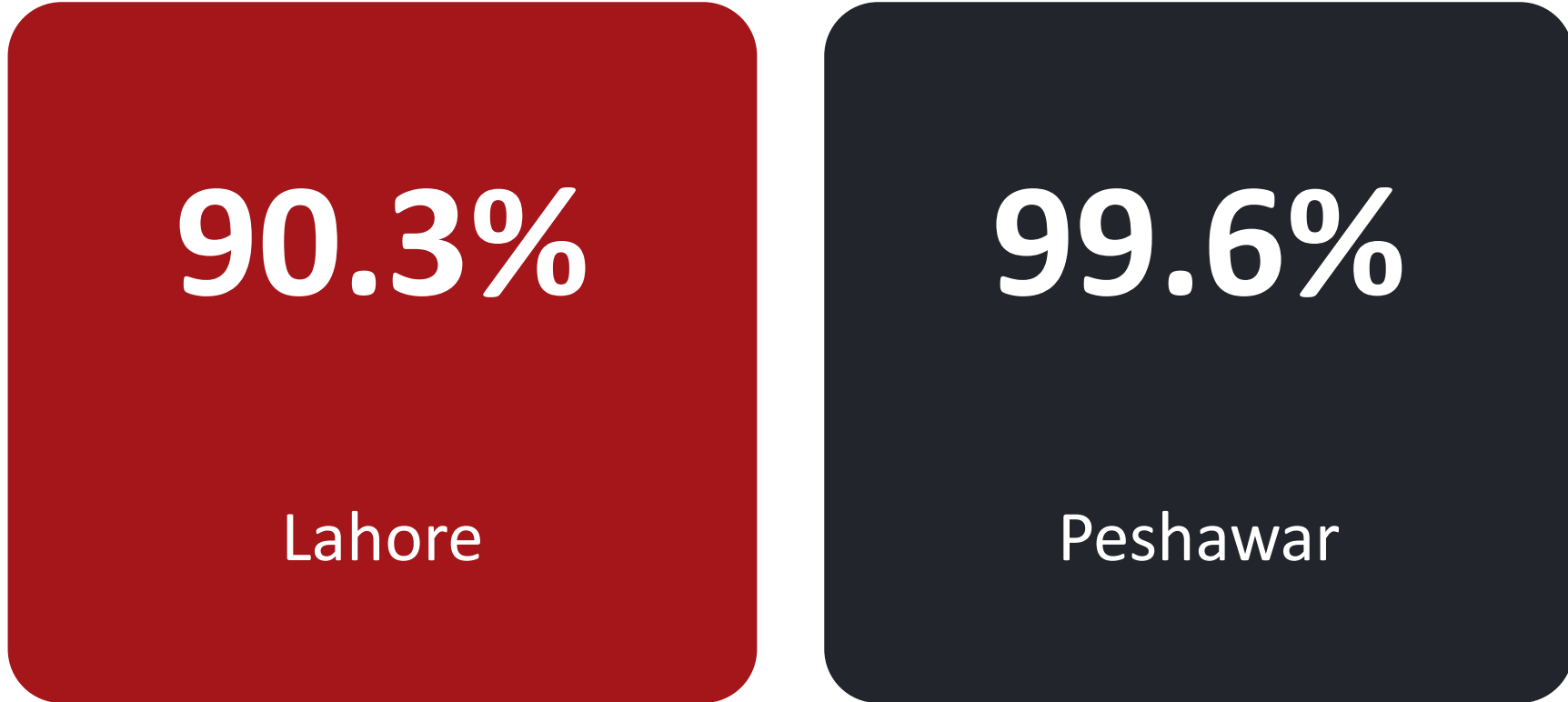


RESULTS

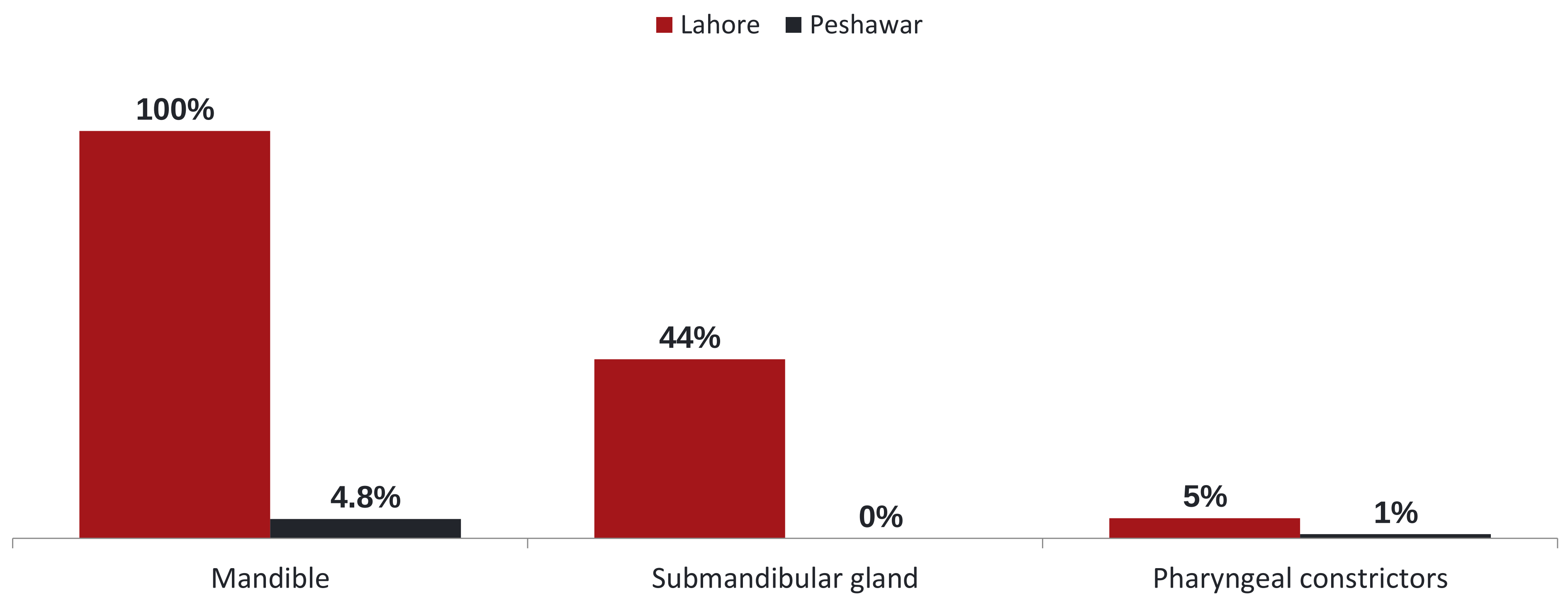
Contouring Compliance



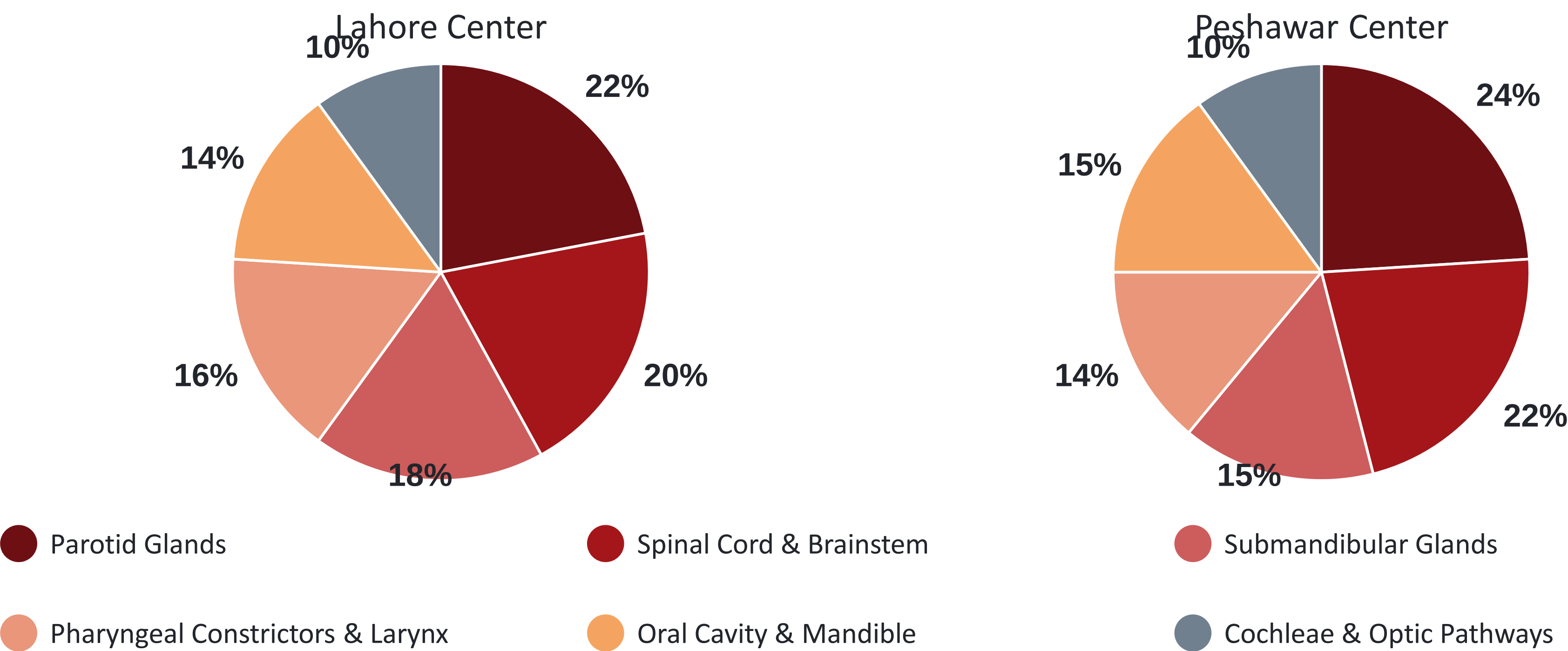
Constraint Achievement



STRUCTURE LEVEL VARIATIONS



OAR DISTRIBUTION



CONCLUSION

Significant inter-site variability exists in OAR contouring practice within the same institution, despite high dose-constraint achievement once structures are delineated.

A standardized, institution-wide HNC contouring checklist with periodic cross-site audit is warranted to reduce practice variation and improve consistency of organ-sparing radiotherapy.