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Evaluation of retrieval accuracy and visual similarity in content-based image retrieval of chest CT for obstructive lung disease

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The aim of our study was to assess the performance of content-based image retrieval (CBIR) for similar chest computed tomography (CT) in obstructive lung disease. This retrospective study included patients with obstructive lung disease who underwent volumetric chest CT scans. The CBIR database included 600 chest CT scans from 541 patients. To assess the system performance, follow-up chest CT scans of 50 patients were evaluated as query cases, which showed the stability of the CT findings between baseline and follow-up chest CT, as confirmed by thoracic radiologists. The CBIR system retrieved the top five similar CT scans for each query case from the database by quantifying and comparing emphysema extent and size, airway wall thickness, and peripheral pulmonary vasculatures in descending order from the database. The rates of retrieval of the same pairs of query CT scans in the top 3–5 retrievals were assessed. Two expert chest radiologists evaluated the visual similarities between the query and retrieved CT scans using a five-point scale grading system. The rates of retrieving the same pairs of query CTs were 60.0% (30/50) and 48.0% (24/50) for top-three and top-five retrievals. Radiologists rated 64.8% (95% confidence interval 58.8–70.4) of the retrieved CT scans with a visual similarity score of four or five and at least one case scored five points in 7.4% (74/100) of all query cases. The proposed CBIR system for obstructive lung disease integrating quantitative CT measures demonstrated potential for retrieving chest CT scans with similar imaging phenotypes. Further refinement and validation in this field would be valuable.

Keywords Chronic obstructive pulmonary disease, Computed tomography, Machine learning, Content-based image retrieval

Due to substantial heterogeneity in physiological and imaging characteristics, therapy response, and disease course, including disease progression and mortality in patients with chronic obstructive pulmonary disease (COPD), there have been continuous efforts to characterize and define subtypes of COPD with distinct patterns of emphysema and airway disease in the past decade¹. Not all, but there are subgroups in which such efforts may afford a marked clinical benefit^{2–4}. Chest computed tomography (CT) imaging has revolutionized the diagnostic approach for COPD by defining phenotypes. Recognizing these different phenotypes in COPD and reclassifying COPD patient severity based on imaging measurements of the pathologies responsible for symptoms and progression, may serve as an initial move towards to start personalized or, at least, optimized therapies⁵. Chest CT allow emphysema classification and quantification, as well as quantification of other abnormalities, including

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