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Summary

POTENTIAL SIDE EFFECT OF A SUBMUCOSAL LIFTING AGENT FOR ENDOSCOPIC RESECTIONS

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UEG Week Copenhagen 2023 | Poster

Colorectal

October 15, 2023

A Swedish case series of 99 colorectal endoscopic resections demonstrates that ORISE Gel submucosal lifting agent induces extensive foreign body-type granulomatous giant cell reactions in all surgical specimens, with radiological findings that can mimic tumor progression and lead to clinical overdiagnosis of T-staging.

KEY POINTS

- ORISE Gel was used in 57 of 99 colorectal ESD or rescue EMR cases (57.6%) performed between January 2020 and March 2023 at a Swedish center
- All 5 cases that underwent subsequent surgical resection after ORISE Gel injection showed histologically extensive foreign body-type granulomatous giant cell reaction at the injection site
- Foreign body reactions were detected by MRI or CT as local wall thickness in 3 of 5 surgical cases, resulting in clinical overdiagnosis of more advanced T-staging
- Radiological wall thickness changes were observed to diminish over time in 2 of 3 cases followed by imaging without surgery
- Gel deposits may be misinterpreted as tumor growth on imaging and histology, raising awareness for endoscopists and radiologists following colorectal ESD procedures

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