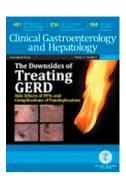
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A Predictive Model to Identify Patients With Fecal Incontinence Based on Highdefinition Anorectal Manometry

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Title: A Predictive Model to Identify Patients With Fecal Incontinence Based on High-definition

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Short Title: Prediction Model for Fecal Incontinence

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Abbreviations: FI, fecal incontinence; FISI, fecal incontinence severity Index; HRAM, high-

resolution anorectal manometry; 3D-HDAM, three-dimensional high-definition anorectal

manometry; HPZ, high pressure zone; ASI, anorectal asymmetry index; LDA, linear discriminant

analysis; QDA, quadratic discriminant analysis; LR, logistic regression; AUC, area under curve;

ROC, receiver operating characteristic; IQR, interquartile range; CI, confidence interval

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Author Contributions: Ali Zifan carried out data analysis, software development, creating figures,

and writing of the manuscript. Ravinder K Mittal was involved in conceiving the study, design of

experiment, supervised data acquisition, analysis and interpretation of data, drafting, writing and

editing the manuscript. Finally, Melissa Ledgerwood-Lee was responsible for recruiting subjects for

the study, data acquisition and intellectual input.

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