#180 - THE ARGENTINA BRIEF COLONOSCOPY DIFFICULTY SCORE (ABCD): VALIDATION OF A NOVEL AND OBJECTIVE ESTIMATION TOOL FOR COLONOSCOPY DIFFICULTY. A NATIONAL MULTICENTRE REGISTRY.

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Valero M1, Puga M2, Insausti A1, Salazar V1, Koll L1, Martinez M1, Gutierrez M1, Davila D1, Imhof H1, Burlando E1, Rodriguez P1, Herrera P1, Silva N1, Bernardi G1, Cordoba S1, Gobelet J1, Castillo G2, Daino D2, Paredes S1, Rodriguez S1, Epele J1, Yañez F1, Paiz J2, Merlin M1, Manzotti L11, Lopez R1, Isaquierre J11, Di Cicco M12, Ferrero S1, Promenzo E1, Bordon K14, Concha Y14, Castilla M14, Alcorta C15, Ledesma M15, Quinteros G15, Santillan G15, Mattar R15, Martinez G15, Zapata J17

1Instituto de Gastroenterología y Endoscopia de Avanzada (IGEAA), Bahía Blanca, Argentina 2Instituto Ecuatoriano de Enfermedades Digestivas (IECED), Guayaquil, Ecuador 3Grupo MIT, Santa Fe, Argentina 4Instituto Modelo de Cardiología Privado S.R.L., Córdoba, Argentina 5Sanatorio Allende, Córdoba, Argentina 6Instituto Modelo de Gastroenterología de Formosa, Formosa, Argentina 7Instituto Norpatagónico de Gastroenterología y Endoscopia Digestiva (INGED), Neuquén, Argentina 8Clínica San Miguel, Trelew, Argentina 9Clínica de Cuyo (CDC), Mendoza, Argentina 10Hospital Nacional Profesor Alejandro Posadas (HNPAP), El Palomar, Argentina 11Centro de Estudios Digestivos (CED), Mar del Plata, Argentina 12Hospital Italiano de Mendoza (HIM), Mendoza, Argentina 13Hospital Regional Ramón Carrillo (HRRC), Santiago del Estero, Argentina 14Instituto de Investigaciones Médicas Alfredo Lanari, Ciudad Autónoma de Buenos Aires, Argentina 15Universidad del Salvador (USAL), Ciudad Autónoma de Buenos Aires, Argentina

BACKGROUND: A high-quality colonoscopy is essential to avoid unadvertised adenomas. It includes caecal intubation (CI), which can be a challenge. Endoscopists require often progressive manoeuvres: abdominal compression (A), body rotation (B) or change of endoscopist (C). Failure carries to declined CI (D). A >10-min caecal intubation time (CIT) is a usual trial endpoint for colonoscopy difficulty, but it does not communicate manoeuvres.

AIM: To estimate the profitability of a novel colonoscopy difficulty score vs >10-min CIT.

METHODS: A national, multicentre, cross-section study (May’2022-Jun’2023). Expert endoscopists developed the “Argentina Brief Colonoscopy Difficulty” score (ABCD), based on manoeuvres A/B/C; or D as very high difficulty (figure 1). Data was prospectively recovered by 14 centres. ABCD and >10-min CIT were compared through an ordinal regression model and through a binary regression model. Both multivariate models were nested in the participating centres (NCT05422820).

RESULTS: 4511 colonoscopies: 58 yo (IQR 50-68), 53.4% women. ABCD score: 42.7% null, 30.3% low, 11.1% intermediate, 11.9% high and 3.9% very high difficulty. In 18.5% the endoscopist was in training (<400 colonoscopies). Only 8% of very high-difficulty colonoscopies were performed in training (P<.001). A second endoscopist was required in 4.6%. A higher ABCD was associated with older age (P<.001), female (P<.001), lower BMI (P<.05), prior declined CI (P<.001), screening (P<.05), afternoon schedule (P<.05), in training (P<.001), and poor BBPS (P<.001). A >10-min CIT was associated only with four of the eight previous characteristics and hernia (P<.001).

CONCLUSIONS: Compared to >10-min CIT, the ABCD demonstrated high profitability in terms of a significant association with characteristics related to colonoscopy difficulty. The ABCD constitutes a quality indicator advisable to communicate in every colonoscopy report.

Figure 1. Argentina Brief Colonoscopy Difficulty score (ABCD).