

#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, Martínez M¹, Gutierrez M¹, Davila D¹, Imhof H³, Burlando E³, Rodríguez P⁴, Herrera P⁴, Silva N⁴, Bernardi G⁴, Córdoba S⁴, Gobelet J⁵, Castillo G⁵, Daino D⁵, Paredes S⁶, Rodríguez S⁷, Epele J⁸, Yañez F⁹, Paiz J¹⁰, Merlin M¹⁰, Manzotti L¹¹, Lopez R¹¹, Isaguirre J¹², Di Cicco M¹², Ferrero S¹², Promenzio E¹³, Bordon K¹⁴, Concha Y¹⁴, Castilla M¹⁴, Alcorta C¹⁵, Ledesma M¹⁵, Quinteros G¹⁵, Santillan G¹⁵, Mattar R¹⁵, Martínez G¹⁶, 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 ¹³Instituto Otorrinolaringológico Tandil, Tandil, Argentina ¹⁴Hospital Regional Río Grande (HRRG), Río Grande, Argentina ¹⁵Hospital Regional Ramón Carrillo (HRRC), Santiago del Estero, Argentina ¹⁶Instituto de Investigaciones Médicas Alfredo Lanari, Ciudad Autónoma de Buenos Aires, Argentina ¹⁷Universidad 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).

	A Abdominal compression	B Body rotation	C Change of endoscopist	D Declined cecal intubation
Technical difficulty				
Null	No	No	No	No
Low	Effective	No	No	No
Intermediate	Partially effective	No	No	No
High	Not effective	At least one of both		No
Very high	Not effective	At least one of both		Yes