| **Characteristic** | **0** N = 113 | **1** N = 401 | **2** N = 167 | **3** N = 210 | **4** N = 323 | **p-value***1* |
| --- | --- | --- | --- | --- | --- | --- |
| age, Median (IQR) | 33 (27 – 42) | 32 (26 – 41) | 52 (43 – 57) | 61 (55 – 67) | 29 (23 – 35) | <0.001 |
| sex, n (%) |  |  |  |  |  | <0.001 |
| Female | 51 (45) | 15 (3.7) | 74 (44) | 105 (50) | 280 (87) |  |
| Male | 62 (55) | 386 (96) | 93 (56) | 105 (50) | 43 (13) |  |
| height, Median (IQR) | 173 (165 – 182) | 180 (177 – 185) | 173 (162 – 180) | 167 (161 – 172) | 164 (161 – 169) | <0.001 |
| weight, Median (IQR) | 72 (63 – 81) | 84 (75 – 98) | 78 (68 – 96) | 76 (66 – 86) | 68 (57 – 76) | <0.001 |
| bmi, Median (IQR) | 23.7 (21.0 – 27.6) | 25.6 (23.0 – 29.2) | 26.1 (22.8 – 30.1) | 26.7 (24.3 – 31.0) | 24.7 (21.1 – 28.0) | <0.001 |
| age\_at\_diagnosis, Median (IQR) | 29 (23 – 36) | 27 (22 – 37) | 23 (17 – 30) | 55 (50 – 63) | 24 (20 – 31) | <0.001 |
| montreal\_upper\_gi, n (%) |  |  |  |  |  | 0.033 |
| 0 | 110 (97) | 389 (97) | 161 (96) | 210 (100) | 312 (97) |  |
| 1 | 3 (2.7) | 12 (3.0) | 6 (3.6) | 0 (0) | 11 (3.4) |  |
| montreal\_perianal, n (%) |  |  |  |  |  | 0.002 |
| 0 | 102 (90) | 376 (94) | 153 (92) | 209 (100) | 305 (94) |  |
| 1 | 11 (9.7) | 25 (6.2) | 14 (8.4) | 1 (0.5) | 18 (5.6) |  |
| has\_active\_symptoms, n (%) |  |  |  |  |  | <0.001 |
| 0 | 9 (8.0) | 150 (37) | 46 (28) | 62 (30) | 95 (29) |  |
| 1 | 104 (92) | 251 (63) | 121 (72) | 148 (70) | 228 (71) |  |
| albumin, Median (IQR) | 30.0 (25.0 – 33.0) | 39.0 (37.0 – 42.0) | 38.0 (36.0 – 40.0) | 36.0 (33.0 – 38.0) | 38.0 (36.0 – 40.0) | <0.001 |
| crp, Median (IQR) | 26 (8 – 55) | 3 (1 – 7) | 3 (1 – 11) | 3 (2 – 7) | 2 (1 – 4) | <0.001 |
| haemoglobin, Median (IQR) | 120 (102 – 129) | 145 (136 – 152) | 137 (127 – 147) | 132 (125 – 140) | 131 (123 – 135) | <0.001 |
| red\_cell\_count, Median (IQR) | 4.23 (3.85 – 4.54) | 4.90 (4.57 – 5.11) | 4.63 (4.19 – 5.03) | 4.48 (4.04 – 4.75) | 4.43 (4.18 – 4.63) | <0.001 |
| white\_cell\_count, Median (IQR) | 12.9 (10.2 – 16.0) | 6.9 (5.6 – 8.3) | 7.2 (5.9 – 9.1) | 8.0 (6.3 – 9.8) | 7.3 (5.8 – 8.8) | <0.001 |
| neutrophils, Median (IQR) | 10.58 (7.98 – 13.00) | 4.30 (3.20 – 5.60) | 4.42 (3.50 – 5.90) | 4.95 (3.80 – 6.63) | 4.65 (3.39 – 5.80) | <0.001 |
| lymphocytes, Median (IQR) | 1.51 (1.00 – 2.10) | 1.60 (1.22 – 2.00) | 1.62 (1.20 – 2.00) | 1.63 (1.26 – 2.21) | 1.70 (1.39 – 2.29) | <0.001 |
| monocytes, Median (IQR) | 0.67 (0.40 – 0.91) | 0.56 (0.45 – 0.74) | 0.56 (0.45 – 0.70) | 0.59 (0.41 – 0.75) | 0.51 (0.40 – 0.60) | <0.001 |
| eosinophils, Median (IQR) | 0.02 (0.00 – 0.10) | 0.13 (0.07 – 0.24) | 0.11 (0.06 – 0.19) | 0.12 (0.04 – 0.21) | 0.12 (0.06 – 0.19) | <0.001 |
| basophils, Median (IQR) | 0.04 (0.02 – 0.09) | 0.03 (0.02 – 0.06) | 0.03 (0.00 – 0.09) | 0.03 (0.00 – 0.05) | 0.03 (0.01 – 0.05) | 0.030 |
| platelets, Median (IQR) | 494 (411 – 596) | 287 (244 – 333) | 301 (257 – 352) | 313 (266 – 380) | 313 (277 – 360) | <0.001 |
| urea, Median (IQR) | 3.90 (3.00 – 5.00) | 4.40 (3.70 – 5.10) | 4.60 (3.90 – 5.40) | 4.80 (4.20 – 5.90) | 4.00 (3.20 – 4.40) | <0.001 |
| creatinine, Median (IQR) | 67 (59 – 78) | 80 (72 – 88) | 74 (68 – 85) | 67 (58 – 80) | 62 (56 – 71) | <0.001 |
| sodium, Median (IQR) | 137.00 (136.00 – 139.00) | 140.00 (139.00 – 141.00) | 139.00 (138.00 – 140.00) | 139.00 (137.00 – 140.00) | 139.00 (138.00 – 140.00) | <0.001 |
| potassium, Median (IQR) | 4.30 (4.00 – 4.60) | 4.30 (4.10 – 4.50) | 4.30 (4.10 – 4.50) | 4.30 (4.00 – 4.50) | 4.30 (4.00 – 4.40) | 0.002 |
| calprotectin, Median (IQR) | 635 (295 – 1,250) | 295 (155 – 539) | 282 (101 – 311) | 295 (129 – 677) | 295 (179 – 333) | <0.001 |
| sampling\_steroids, n (%) |  |  |  |  |  | <0.001 |
| 0 | 25 (22) | 329 (82) | 132 (79) | 133 (63) | 248 (77) |  |
| 1 | 88 (78) | 72 (18) | 35 (21) | 77 (37) | 75 (23) |  |
| sampling\_abx, n (%) |  |  |  |  |  | <0.001 |
| 0 | 99 (88) | 392 (98) | 162 (97) | 205 (98) | 320 (99) |  |
| 1 | 14 (12) | 9 (2.2) | 5 (3.0) | 5 (2.4) | 3 (0.9) |  |
| sampling\_asa, n (%) |  |  |  |  |  | 0.008 |
| 0 | 77 (68) | 309 (77) | 120 (72) | 133 (63) | 234 (72) |  |
| 1 | 36 (32) | 92 (23) | 47 (28) | 77 (37) | 89 (28) |  |
| sampling\_aza, n (%) |  |  |  |  |  | <0.001 |
| 0 | 94 (83) | 338 (84) | 150 (90) | 195 (93) | 255 (79) |  |
| 1 | 19 (17) | 63 (16) | 17 (10) | 15 (7.1) | 68 (21) |  |
| sampling\_mp, n (%) |  |  |  |  |  | 0.049 |
| 0 | 112 (99) | 389 (97) | 161 (96) | 195 (93) | 313 (97) |  |
| 1 | 1 (0.9) | 12 (3.0) | 6 (3.6) | 15 (7.1) | 10 (3.1) |  |
| sampling\_ifx, n (%) |  |  |  |  |  | 0.003 |
| 0 | 83 (73) | 332 (83) | 147 (88) | 171 (81) | 244 (76) |  |
| 1 | 30 (27) | 69 (17) | 20 (12) | 39 (19) | 79 (24) |  |
| sampling\_ada, n (%) |  |  |  |  |  | <0.001 |
| 0 | 106 (94) | 323 (81) | 115 (69) | 194 (92) | 268 (83) |  |
| 1 | 7 (6.2) | 78 (19) | 52 (31) | 16 (7.6) | 55 (17) |  |
| sampling\_vedo, n (%) |  |  |  |  |  | <0.001 |
| 0 | 106 (94) | 380 (95) | 142 (85) | 166 (79) | 298 (92) |  |
| 1 | 7 (6.2) | 21 (5.2) | 25 (15) | 44 (21) | 25 (7.7) |  |
| sampling\_uste, n (%) |  |  |  |  |  | 0.16 |
| 0 | 106 (94) | 357 (89) | 157 (94) | 184 (88) | 290 (90) |  |
| 1 | 7 (6.2) | 44 (11) | 10 (6.0) | 26 (12) | 33 (10) |  |
| sampling\_tofa, n (%) |  |  |  |  |  | 0.37 |
| 0 | 113 (100) | 394 (98) | 163 (98) | 209 (100) | 319 (99) |  |
| 1 | 0 (0) | 7 (1.7) | 4 (2.4) | 1 (0.5) | 4 (1.2) |  |
| sampling\_mtx, n (%) |  |  |  |  |  | 0.38 |
| 0 | 112 (99) | 393 (98) | 162 (97) | 209 (100) | 317 (98) |  |
| 1 | 1 (0.9) | 8 (2.0) | 5 (3.0) | 1 (0.5) | 6 (1.9) |  |
| sampling\_ciclosporin, n (%) |  |  |  |  |  | 0.31 |
| 0 | 113 (100) | 400 (100) | 167 (100) | 208 (99) | 323 (100) |  |
| 1 | 0 (0) | 1 (0.2) | 0 (0) | 2 (1.0) | 0 (0) |  |
| sampling\_filgo, n (%) |  |  |  |  |  | 0.60 |
| 0 | 111 (98) | 389 (97) | 164 (98) | 208 (99) | 317 (98) |  |
| 1 | 2 (1.8) | 12 (3.0) | 3 (1.8) | 2 (1.0) | 6 (1.9) |  |
| sampling\_upa, n (%) |  |  |  |  |  | <0.001 |
| 0 | 111 (98) | 374 (93) | 160 (96) | 209 (100) | 317 (98) |  |
| 1 | 2 (1.8) | 27 (6.7) | 7 (4.2) | 1 (0.5) | 6 (1.9) |  |
| sampling\_risa, n (%) |  |  |  |  |  | 0.19 |
| 0 | 113 (100) | 399 (100) | 165 (99) | 210 (100) | 323 (100) |  |
| 1 | 0 (0) | 2 (0.5) | 2 (1.2) | 0 (0) | 0 (0) |  |
| disease\_duration\_weeks, Median (IQR) | 98 (1 – 449) | 276 (78 – 505) | 1,300 (1,117 – 1,660) | 133 (39 – 416) | 160 (40 – 380) | <0.001 |
| diagnosis\_year, Median (IQR) | 2,021 (2,015 – 2,023) | 2,017 (2,012 – 2,021) | 1,997 (1,992 – 2,002) | 2,020 (2,014 – 2,022) | 2,019 (2,015 – 2,022) | <0.001 |
| fatigue\_outcome, n (%) | 92 (81) | 140 (35) | 84 (50) | 118 (56) | 166 (51) | <0.001 |
| study\_group, n (%) |  |  |  |  |  | <0.001 |
| CD | 38 (34) | 254 (64) | 116 (69) | 81 (39) | 188 (59) |  |
| UC | 69 (61) | 141 (35) | 51 (31) | 122 (58) | 128 (40) |  |
| IBDU | 6 (5.3) | 3 (0.8) | 0 (0) | 6 (2.9) | 3 (0.9) |  |
| Unknown | 0 | 3 | 0 | 1 | 4 |  |
| montreal\_cd\_location, n (%) |  |  |  |  |  | <0.001 |
| L1 | 3 (7.7) | 17 (6.8) | 20 (18) | 27 (33) | 30 (17) |  |
| L2 | 19 (49) | 113 (45) | 48 (42) | 46 (56) | 71 (40) |  |
| L3 | 17 (44) | 119 (48) | 46 (40) | 9 (11) | 75 (43) |  |
| Unknown | 74 | 152 | 53 | 128 | 147 |  |
| montreal\_cd\_behaviour, n (%) |  |  |  |  |  | <0.001 |
| B1 | 22 (59) | 169 (68) | 47 (42) | 65 (80) | 129 (74) |  |
| B2 | 8 (22) | 40 (16) | 34 (30) | 14 (17) | 31 (18) |  |
| B3 | 7 (19) | 39 (16) | 31 (28) | 2 (2.5) | 14 (8.0) |  |
| Unknown | 76 | 153 | 55 | 129 | 149 |  |
| montreal\_uc\_extent, n (%) |  |  |  |  |  |  |
| E1 | 2 (3.2) | 3 (2.9) | 4 (9.3) | 2 (1.8) | 8 (6.8) |  |
| E2 | 28 (45) | 47 (45) | 19 (44) | 55 (49) | 82 (69) |  |
| E3 | 32 (52) | 55 (52) | 20 (47) | 55 (49) | 28 (24) |  |
| Unknown | 51 | 296 | 124 | 98 | 205 |  |
| montreal\_uc\_severity, n (%) |  |  |  |  |  |  |
| S0 | 0 (0) | 37 (32) | 6 (19) | 12 (14) | 5 (4.8) |  |
| S1 | 4 (6.7) | 20 (17) | 11 (34) | 16 (19) | 22 (21) |  |
| S2 | 28 (47) | 46 (39) | 8 (25) | 41 (48) | 60 (58) |  |
| S3 | 28 (47) | 14 (12) | 7 (22) | 16 (19) | 17 (16) |  |
| Unknown | 53 | 284 | 135 | 125 | 219 |  |
| smoking\_status, n (%) |  |  |  |  |  | <0.001 |
| Non-smoker | 55 (49) | 291 (75) | 115 (69) | 98 (48) | 258 (82) |  |
| Ex-smoker | 43 (38) | 62 (16) | 41 (25) | 84 (41) | 35 (11) |  |
| Smoker | 14 (13) | 36 (9.3) | 11 (6.6) | 23 (11) | 21 (6.7) |  |
| Unknown | 1 | 12 | 0 | 5 | 9 |  |
| season, n (%) |  |  |  |  |  | 0.61 |
| Spring | 17 (15) | 84 (22) | 37 (22) | 39 (19) | 62 (20) |  |
| Summer | 37 (33) | 111 (29) | 50 (30) | 62 (30) | 94 (30) |  |
| Autumn | 36 (32) | 98 (25) | 48 (29) | 68 (33) | 85 (27) |  |
| Winter | 23 (20) | 95 (24) | 32 (19) | 37 (18) | 73 (23) |  |
| Unknown | 0 | 13 | 0 | 4 | 9 |  |
| *1*Kruskal-Wallis rank sum test; Pearson's Chi-squared test; Fisher's exact test | | | | | | |