S6 Fig. Forest plots for subgroup analysis by IFU vs. non-IFU.

Caption: TP = true positive; FP = false positive; FN = false negative; TN = true negative; CI = confidence interval

Fig A - Forest Plot for IFU conforming studies

| Author, Study ID | Sample size | TP | FN | TN | FP | Sensitivity [95%CI] | Specificity [95%CI] | | |
|----------------------|-------------|-----|----|------|----|---------------------|---------------------|----------------|----------|
| Albert, a03.1 | 412 | 43 | 11 | 358 | 0 | 0.80 [0.66, 0.89] | 1.00 [0.99, 1.00] | 1 44 | 1 : 4 |
| Beck, a04.1 | 346 | 47 | 14 | 284 | 1 | 0.77 [0.64, 0.87] | 1.00 [0.98, 1.00] | - | |
| Berger, a05.1 | 535 | 106 | 18 | 411 | 0 | 0.86 [0.78, 0.91] | 1.00 [0.99, 1.00] | 1-1 | |
| Berger, a05.2 | 529 | 170 | 21 | 337 | 1 | 0.89 [0.84, 0.93] | 1.00 [0.98, 1.00] | 1-1 | |
| Bulilete, a07.1 | 1362 | 100 | 40 | 1220 | 2 | 0.71 [0.63, 0.79] | 1.00 [0.99, 1.00] | 1-4 | |
| Drevinek, a10.1 | 591 | 148 | 75 | 368 | 0 | 0.66 [0.60, 0.72] | 1.00 [0.99, 1.00] | | |
| Drevinek, a10.2 | 591 | 139 | 84 | 366 | 2 | 0.62 [0.56, 0.69] | 1.00 [0.98, 1.00] | 1.01 | |
| Fenollar. F., a11.1 | 341 | 154 | 50 | 130 | 7 | 0.76 [0.69, 0.81] | 0.95 [0.90, 0.98] | 1-1 | |
| Gremmels, a12.1 | 1367 | 101 | 38 | 1228 | 0 | 0.73 [0.64, 0.80] | 1.00 [1.00, 1.00] | - | |
| Gremmels, a12.2 | 208 | 51 | 12 | 145 | 0 | 0.81 [0.69, 0.90] | 1.00 [0.98, 1.00] | - | |
| Gupta, a13.1 | 330 | 63 | 14 | 252 | 1 | 0.82 [0.71, 0.90] | 1.00 [0.98, 1.00] | 1 | |
| Igli, a15.1 | 970 | 158 | 28 | 780 | 4 | 0.85 [0.79, 0.90] | 1.00 [0.99, 1.00] | 10-1 | |
| Lindner, a21.2 | 289 | 31 | 8 | 249 | 1 | 0.80 [0.64, 0.91] | 1.00 [0.98, 1.00] | | |
| Merino-Amador, a25.1 | 958 | 325 | 34 | 592 | 7 | 0.90 [0.87, 0.93] | 0.99 [0.98, 1.00] | | |
| Nalumansi, a27.1 | 262 | 63 | 27 | 159 | 13 | 0.70 [0.59, 0.79] | 0.92 [0.87, 0.96] | 1 | |
| Pilarowski, a29.1 | 878 | 15 | 11 | 852 | 0 | 0.58 [0.37, 0.77] | 1.00 [1.00, 1.00] | | |
| Schwob, a35.1 | 333 | 104 | 8 | 221 | 0 | 0.93 [0.86, 0.97] | 1.00 [0.98, 1.00] | | |
| Schwob, a35.2 | 271 | 105 | 17 | 149 | 0 | 0.86 [0.79, 0.92] | 1.00 [0.98, 1.00] | | 1 |
| Schwob, a35.3 | 324 | 116 | 22 | 186 | 0 | 0.84 [0.77, 0.90] | 1.00 [0.98, 1.00] | | |
| Shrestha, a36.1 | 113 | 40 | 7 | 66 | 0 | 0.85 [0.72, 0.94] | 1.00 [0.95, 1.00] | | |
| Torres, a37.1 | 634 | 38 | 41 | 555 | 0 | 0.48 [0.37, 0.60] | 1.00 [0.99, 1.00] | — | |
| Krüger, a52.1 | 1034 | 91 | 13 | 929 | 1 | 0.88 [0.80, 0.93] | 1.00 [0.99, 1.00] | [-8] | |
| Lindner, a53.1 | 179 | 30 | 11 | 137 | 1 | 0.73 [0.57, 0.86] | 0.99 [0.96, 1.00] | | |
| Agullo, a56.1 | 652 | 76 | 56 | 519 | 1 | 0.58 [0.49, 0.66] | 1.00 [0.99, 1.00] | II | |
| Parada-Ricart, a58.1 | 172 | 19 | 7 | 125 | 21 | 0.73 [0.52, 0.88] | 0.86 [0.79, 0.91] | | - |
| FINDdx, a61.1 | 400 | 91 | 11 | 290 | 8 | 0.89 [0.81, 0.94] | 0.97 [0.95, 0.99] | 1− •1 | 1=1 |
| FINDdx, a62.1 | 476 | 87 | 30 | 355 | 4 | 0.74 [0.66, 0.82] | 0.99 [0.97, 1.00] | 1-1-1 | |
| FINDdx, a63.1 | 453 | 93 | 27 | 326 | 7 | 0.78 [0.69, 0.85] | 0.98 [0.96, 0.99] | H-1 | 1= |
| FINDdx, a64.1 | 400 | 94 | 12 | 287 | 7 | 0.89 [0.81, 0.94] | 0.98 [0.95, 0.99] | H=1 | |
| Basso, f10.1 | 234 | 71 | 16 | 138 | 9 | 0.82 [0.72, 0.89] | 0.94 [0.89, 0.97] | 1 | 1-8-1 |
| Takeuchi, f12.1 | 1186 | 91 | 14 | 1081 | 0 | 0.87 [0.79, 0.92] | 1.00 [1.00, 1.00] | (- - -) | |
| Lindner, f15.1 | 146 | 34 | 6 | 105 | 1 | 0.85 [0.70, 0.94] | 0.99 [0.95, 1.00] | | |
| Lindner, f15.2 | 144 | 33 | 7 | 104 | 0 | 0.82 [0.67, 0.93] | 1.00 [0.96, 1.00] | | 1- |
| Pollock, f17.1 | 2308 | 226 | 66 | 2004 | 12 | 0.77 [0.72, 0.82] | 0.99 [0.99, 1.00] | 1-1 | |
| Möckel, f19.1 | 271 | 67 | 22 | 182 | 0 | 0.75 [0.65, 0.84] | 1.00 [0.98, 1.00] | | |
| Möckel, f19.2 | 202 | 18 | 7 | 176 | 1 | 0.72 [0.51, 0.88] | 0.99 [0.97, 1.00] | - | 1. |
| James, f23.1 | 2339 | 86 | 66 | 2184 | 3 | 0.57 [0.48, 0.65] | 1.00 [1.00, 1.00] | II | |
| Houston, f25.1 | 728 | 242 | 38 | 426 | 22 | 0.86 [0.82, 0.90] | 0.95 [0.93, 0.97] | I=I | (=0 |
| Torres, f29.1 | 178 | 73 | 18 | 87 | 0 | 0.80 [0.71, 0.88] | 1.00 [0.96, 1.00] | 11 | 5- |
| Torres, f29.2 | 92 | 15 | 10 | 67 | 0 | 0.60 [0.39, 0.79] | 1.00 [0.95, 1.00] | - | ⊢ |
| Nikolai, f35.1 | 132 | 31 | 5 | 96 | 0 | 0.86 [0.70, 0.95] | 1.00 [0.96, 1.00] | 1 | H• |
| Nikolai, f35.2 | 132 | 31 | 5 | 96 | 0 | 0.86 [0.70, 0.95] | 1.00 [0.96, 1.00] | 11 | 10 |

| Nikolai, f35.3 | 96 | 31 | 3 | 62 | 0 | 0.91 [0.76, 0.98] | 1.00 [0.94, 1.00] | | - |
|---------------------|------|-----|----|------|----|-------------------|-------------------|---------------------------------------|---------------------|
| Nikolai, f35.4 | 96 | 31 | 3 | 61 | 1 | 0.91 [0.76, 0.98] | 0.98 [0.91, 1.00] | - | 1-1 |
| Pena, f36.1 | 842 | 51 | 22 | 766 | 3 | 0.70 [0.58, 0.80] | 1.00 [0.99, 1.00] | ⊢ | |
| Lindner, a53.2 | 179 | 33 | 8 | 136 | 2 | 0.80 [0.65, 0.91] | 0.99 [0.95, 1.00] | H | 1-4 |
| FINDdx, f39.1 | 232 | 30 | 11 | 191 | 0 | 0.73 [0.57, 0.86] | 1.00 [0.98, 1.00] | H | |
| FINDdx, f40.1 | 265 | 31 | 13 | 219 | 2 | 0.70 [0.55, 0.83] | 0.99 [0.97, 1.00] | | l• |
| FINDdx, f41.1 | 328 | 48 | 8 | 272 | 0 | 0.86 [0.74, 0.94] | 1.00 [0.99, 1.00] | ⊢• • | • |
| FINDdx, f42.1 | 281 | 38 | 6 | 235 | 2 | 0.86 [0.73, 0.95] | 0.99 [0.97, 1.00] | ⊢- | 14 |
| FINDdx, f42.2 | 281 | 40 | 4 | 235 | 2 | 0.91 [0.78, 0.98] | 0.99 [0.97, 1.00] | ⊢ •• | 14 |
| Drain, f43.1 | 257 | 81 | 2 | 168 | 6 | 0.98 [0.92, 1.00] | 0.97 [0.93, 0.99] | i i i i i i i i i i i i i i i i i i i | [] |
| Drain, f43.2 | 255 | 39 | 1 | 210 | 5 | 0.98 [0.87, 1.00] | 0.98 [0.95, 0.99] | ⊢ • | H |
| Okoye, f51.1 | 2638 | 24 | 21 | 2593 | 0 | 0.53 [0.38, 0.68] | 1.00 [1.00, 1.00] | ⊢ ••• | |
| Villaverde, f55.1 | 1620 | 35 | 42 | 1540 | 3 | 0.46 [0.34, 0.57] | 1.00 [0.99, 1.00] | → | • |
| Krüger, f58.1 | 761 | 120 | 26 | 611 | 4 | 0.82 [0.75, 0.88] | 0.99 [0.98, 1.00] | i •• | |
| Pollock, f59.1 | 1498 | 135 | 99 | 1243 | 21 | 0.58 [0.51, 0.64] | 0.98 [0.98, 0.99] | | |
| Shidlovskaya, f61.1 | 106 | 44 | 34 | 28 | 0 | 0.56 [0.45, 0.68] | 1.00 [0.88, 1.00] | | - |
| Shidlovskaya, f61.2 | 106 | 41 | 37 | 27 | 1 | 0.53 [0.41, 0.64] | 0.96 [0.82, 1.00] | - | - |
| Faíco-Filho, f63.1 | 127 | 59 | 11 | 56 | 1 | 0.84 [0.74, 0.92] | 0.98 [0.91, 1.00] | ← • | — |
| Schuit, f64.2 | 1596 | 83 | 49 | 1456 | 8 | 0.63 [0.54, 0.71] | 1.00 [0.99, 1.00] | | |
| Stokes, f65.1 | 1641 | 231 | 37 | 1371 | 2 | 0.86 [0.81, 0.90] | 1.00 [1.00, 1.00] | Im | • |
| Kilic, f71.1 | 1384 | 77 | 39 | 1253 | 15 | 0.66 [0.57, 0.75] | 0.99 [0.98, 0.99] | ⊢ | |
| LHuillier, f72.1 | 822 | 78 | 41 | 702 | 1 | 0.66 [0.56, 0.74] | 1.00 [0.99, 1.00] | ⊢ | |
| Asai, f74.1 | 305 | 49 | 14 | 238 | 4 | 0.78 [0.66, 0.87] | 0.98 [0.96, 1.00] | H-1 | 1 |
| Osmanodja, f79.1 | 379 | 62 | 8 | 308 | 1 | 0.89 [0.79, 0.95] | 1.00 [0.98, 1.00] | 1-8-1 | |
| Homza, f87.1 | 318 | 81 | 26 | 204 | 7 | 0.76 [0.66, 0.84] | 0.97 [0.93, 0.99] | I+ ■ -I | [-0] |
| Homza, f87.2 | 225 | 52 | 38 | 133 | 2 | 0.58 [0.47, 0.68] | 0.98 [0.95, 1.00] | | |
| Homza, f87.3 | 191 | 54 | 23 | 64 | 50 | 0.70 [0.59, 0.80] | 0.56 [0.47, 0.65] | H-1 | |
| Homza, f87.4 | 139 | 26 | 16 | 96 | 1 | 0.62 [0.46, 0.76] | 0.99 [0.94, 1.00] | - | H- |
| Homza, f87.5 | 268 | 38 | 53 | 170 | 7 | 0.42 [0.32, 0.53] | 0.96 [0.92, 0.98] | P-■-10 | 1-01 |
| Thakur, f88.1 | 677 | 29 | 55 | 592 | 1 | 0.34 [0.24, 0.46] | 1.00 [0.99, 1.00] | | |
| Wagenhäuser, f89.1 | 806 | 13 | 10 | 783 | 0 | 0.56 [0.34, 0.77] | 1.00 [1.00, 1.00] | | |
| Wagenhäuser, f89.3 | 3221 | 23 | 40 | 3146 | 12 | 0.36 [0.25, 0.50] | 1.00 [0.99, 1.00] | - | |
| FINDdx, f91.1 | 218 | 71 | 8 | 137 | 2 | 0.90 [0.81, 0.96] | 0.99 [0.95, 1.00] | I → I | 1- |
| FINDdx, f91.2 | 218 | 71 | 8 | 137 | 2 | 0.90 [0.81, 0.96] | 0.99 [0.95, 1.00] | ⊢• I | 1- |
| FINDdx, f92.1 | 723 | 88 | 24 | 611 | 0 | 0.79 [0.70, 0.86] | 1.00 [0.99, 1.00] | 14-1 | |
| FINDdx, f93.1 | 665 | 176 | 18 | 471 | 0 | 0.91 [0.86, 0.94] | 1.00 [0.99, 1.00] | 1.0 | |
| FINDdx, f94.1 | 462 | 61 | 8 | 390 | 3 | 0.88 [0.78, 0.95] | 0.99 [0.98, 1.00] | i | |
| FINDdx, a62.2 | 1239 | 13 | 12 | 1214 | 0 | 0.52 [0.31, 0.72] | 1.00 [1.00, 1.00] | | |
| FINDdx, a63.2 | 676 | 27 | 12 | 617 | 20 | 0.69 [0.52, 0.83] | 0.97 [0.95, 0.98] | 1 1 | • |
| | | | | | | | | | 1 1 |
| | | | | | | | , | | 0.75 1 ecificity |

Fig B - Forest plot for non-IFU conforming studies

| Author, Study ID | Sample size | TP | FN | TN | FP | Sensitivity [95%CI] | Specificity [95%CI] | | |
|-----------------------|-------------|-----|-----|------|----|--|--|---|---------------|
| Abdulrahman, a01.1 | 4183 | 602 | 131 | 3420 | 30 | 0.82 [0.79, 0.85] | 0.99 [0.99, 0.99] | | |
| Alemany, a02.1 | 919 | 779 | 55 | 85 | 0 | 0.93 [0.92, 0.95] | 1.00 [0.96, 1.00] | | |
| Alemany, a02.2 | 487 | 93 | 24 | 365 | 5 | 0.80 [0.71, 0.86] | 0.99 [0.97, 1.00] | 0=1 | |
| Cerutti, a08.1 | 185 | 75 | 29 | 81 | 0 | 0.72 [0.62, 0.80] | 1.00 [0.96, 1.00] | ⊢ | 1 |
| Krüttgen, a16.1 | 150 | 53 | 22 | 72 | 3 | 0.71 [0.59, 0.81] | 0.96 [0.89, 0.99] | h-1 | [- =] |
| Krüger, a17.1 | 1263 | 36 | 11 | 1207 | 9 | 0.77 [0.62, 0.88] | 0.99 [0.99, 1.00] | | |
| Lambert-Niclot, a18.1 | 138 | 47 | 47 | 44 | 0 | 0.50 [0.40, 0.60] | 1.00 [0.92, 1.00] | | |
| Lindner, a21.1 | 289 | 29 | 10 | 248 | 2 | 0.74 [0.58, 0.87] | 0.99 [0.97, 1.00] | | |
| Liotti, a22.1 | 359 | 49 | 55 | 251 | 4 | 0.47 [0.37, 0.57] | 0.98 [0.96, 1.00] | 0-1-0 | |
| Pekosz, a28.1 | 251 | 27 | 1 | 220 | 3 | 0.96 [0.82, 1.00] | 0.99 [0.96, 1.00] | | |
| Porte, a31.1 | 127 | 77 | 5 | 45 | 0 | 0.94 [0.86, 0.98] | 1.00 [0.92, 1.00] | H- | 1 |
| Porte, a32.1 | 64 | 30 | 2 | 31 | 1 | 0.94 [0.79, 0.99] | 0.97 [0.84, 1.00] | | |
| Porte, a32.2 | 64 | 29 | 3 | 31 | 1 | 0.91 [0.75, 0.98] | 0.97 [0.84, 1.00] | - | — |
| Schildgen, a33.1 | 73 | 14 | 28 | 27 | 4 | 0.33 [0.20, 0.50] | 0.87 [0.70, 0.96] | | - |
| Schildgen, a33.2 | 73 | 21 | 21 | 24 | 7 | 0.50 [0.34, 0.66] | 0.77 [0.59, 0.90] | | |
| Schildgen, a33.3 | 73 | 37 | 5 | 6 | 25 | 0.88 [0.74, 0.96] | 0.19 [0.07, 0.38] | | |
| Scohy, a34.1 | 148 | 32 | 74 | 42 | 0 | 0.30 [0.22, 0.40] | 1.00 [0.92, 1.00] | | - |
| Veyrenche, a40.1 | 65 | 13 | 32 | 20 | 0 | 0.29 [0.16, 0.44] | 1.00 [0.83, 1.00] | | - |
| Weitzel, a41.1 | 109 | 49 | 30 | 30 | 0 | 0.62 [0.50, 0.73] | 1.00 [0.88, 1.00] | | - |
| Weitzel, a41.3 | 109 | 13 | 65 | 31 | 0 | 0.17 [0.09, 0.27] | 1.00 [0.89, 1.00] | ·•· | - |
| Weitzel, a41.4 | 111 | 68 | 12 | 31 | 0 | 0.85 [0.75, 0.92] | 1.00 [0.89, 1.00] | | ⊢ |
| Young, a43.1 | 251 | 29 | 9 | 212 | 1 | 0.76 [0.60, 0.89] | 1.00 [0.97, 1.00] | | |
| Mertens, a48.1 | 328 | 76 | 56 | 195 | 1 | 0.58 [0.49, 0.66] | 1.00 [0.97, 1.00] | | |
| Takeda, a50.1 | 162 | 50 | 12 | 100 | 0 | 0.81 [0.69, 0.90] | 1.00 [0.96, 1.00] | | |
| Olearo, a54.1 | 184 | 41 | 43 | 100 | 0 | 0.49 [0.38, 0.60] | 1.00 [0.96, 1.00] | | |
| Olearo, a54.2 | 184 | 37 | 47 | 100 | 0 | 0.44 [0.33, 0.55] | 1.00 [0.96, 1.00] | L-1 | |
| Olearo, a54.3 | 184 | 38 | 46 | 97 | 3 | 0.45 [0.34, 0.56] | 0.97 [0.92, 0.99] | H-4 | 1 |
| Olearo, a54.4 | 184 | 46 | 38 | 100 | 0 | 0.55 [0.44, 0.66] | 1.00 [0.96, 1.00] | | |
| Toptan, a55.1 | 67 | 45 | 13 | 9 | 0 | 0.78 [0.65, 0.88] | 1.00 [0.66, 1.00] | H-4 | |
| Toptan, a55.2 | 70 | 16 | 16 | 38 | 0 | 0.50 [0.32, 0.68] | 1.00 [0.91, 1.00] | | 1 |
| Agullo, a56.2 | 659 | 59 | 73 | 527 | 0 | 0.45 [0.36, 0.54] | 1.00 [0.99, 1.00] | | |
| Agullo, a56.3 | 610 | 28 | 93 | 489 | 0 | 0.23 [0.16, 0.32] | 1.00 [0.99, 1.00] | 1-0-1 | |
| Chaimao, a57.1 | 454 | 59 | 1 | 389 | 5 | 0.98 [0.91, 1.00] | 0.99 [0.97, 1.00] | | |
| Halfon, f18.1 | 200 | 72 | 28 | 99 | 1 | 0.72 [0.62, 0.80] | 0.99 [0.95, 1.00] | | 1 |
| Osterman, f20.1 | 549 | 115 | 74 | 352 | 8 | 0.61 [0.54, 0.68] | 0.98 [0.96, 0.99] | | |
| Osterman, f20.2 | 642 | 165 | 91 | 377 | 9 | 0.64 [0.58, 0.70] | 0.98 [0.96, 0.99] | 1 | |
| Kannian, f26.1 | 37 | 15 | 12 | 10 | 0 | 0.56 [0.35, 0.74] | 1.00 [0.69, 1.00] | | 1 |
| Ngo Nsoga, f28.1 | 402 | 136 | 32 | 232 | 2 | 0.81 [0.74, 0.87] | 0.99 [0.97, 1.00] | [| |
| Favresse, f31.1 | 188 | 64 | 32 | 91 | 1 | 0.67 [0.56, 0.76] | 0.99 [0.94, 1.00] | h | 14 |
| Favresse, f31.2 | 188 | 65 | 31 | 92 | 0 | 0.68 [0.57, 0.77] | 1.00 [0.96, 1.00] | | |
| Favresse, f31.3 | 188 | 74 | 22 | 89 | 3 | 0.77 [0.67, 0.85] | 0.97 [0.91, 0.99] | i i i i i i i i i i i i i i i i i i i | 1- |
| Favresse, f31.4 | 188 | 67 | 29 | 92 | 0 | 0.70 [0.60, 0.79] | 1.00 [0.96, 1.00] | H-1 | ı. |
| Favresse, f31.5 | 188 | 80 | 16 | 92 | 0 | 0.83 [0.74, 0.90] | 1.00 [0.96, 1.00] | — | 1 |
| Kohmer, f32.1 | 100 | 29 | 45 | 25 | 1 | 0.39 [0.28, 0.51] | 0.96 [0.80, 1.00] | | |
| Kohmer, f32.2 | 100 | 32 | 42 | 26 | 0 | 0.43 [0.32, 0.55] | 1.00 [0.87, 1.00] | | - |
| Kohmer, f32.3 | 100 | 18 | 56 | 26 | 0 | 0.24 [0.15, 0.36] | 1.00 [0.87, 1.00] | | - |
| Kohmer, f32.4 | 100 | 37 | 37 | 26 | 0 | 0.50 [0.38, 0.62] | 1.00 [0.87, 1.00] | | - |
| Baro, f33.1 | 286 | 39 | 62 | 184 | 1 | 0.39 [0.29, 0.49] | 1.00 [0.97, 1.00] | - | |
| Baro, f33.2 | 286 | 52 | 49 | 182 | 3 | 0.52 [0.41, 0.62] | 0.98 [0.95, 1.00] | H-1 | |
| | | | | | | The second secon | The second of th | | |

