Table 1 Clinical characteristics and operative outcome in all 12 patients

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| Cases | Age/gender | Symptom | Size(cm3) | location | Approach | Complication |
| 1 | 27/F | Asymptomatic | 18×10×4 | Trans-pelvic diaphragm，extended to perineal area | SPA | Rectal-vaginal-perineal fistula |
| 2 | 49/F | Abdominal discomfort | 20×12×30 | Abdominal-pelvic region | AA | None |
| 3 | 30/F | Asymptomatic | 16×9×3.5 | Trans-pelvic diaphragm，extended to perineal area | AA | None |
| 4 | 46/F | Constipation | 12×7×5 | Trans-pelvic diaphragm，extended to perineal area | SPA | None |
| 5 | 31/M | Abdominal discomfort | 10×6×5.5 | Trans-pelvic diaphragm，extended to perineal area | AA | None |
| 6 | 57/M | Low back pain | 4×3.8×2 | Retroperitoneum | AA | None |
| 7 | 46/F | Buttocks swelling | 11×9×5 | Trans-pelvic diaphragm，extended to perineal area | SPA | Wound infections |
| 8 | 49/M | Constipation | 12×9×3 | Trans-pelvic diaphragm，extended to perineal area | ASA | Wound infections |
| 9 | 27/F | Constipation | 10×8×6 | Trans-pelvic diaphragm，extended to perineal area | AA | None |
| 10 | 34/F | Prolonged menstruation | 13×10×3 | Trans-pelvic diaphragm，extended to perineal area | AA | Rectal-vaginal-perineal fistula |
| 11 | 44/F | Constipation | 27×24×5.5 | Trans-pelvic diaphragm，extended to perineal area | ASA | Wound infections |
| 12 | 66/M | Asymptomatic | 20×18×4 | Trans-pelvic diaphragm，extended to perineal area | AA | Rectal-perineal fistula |

AA: abdominal approach, SPA: sacrococcygeal perineal approach, ASA: abdomino-sacral approaches