Link for Dataset

[A. Leibetseder, S. Kletz, K. Schoeffmann, S. Keckstein and J. Keckstein. 2020. GLENDA: Gynecologic Laparoscopy Endometriosis Dataset. In Proceedings of the 26th International Conference on Multimedia Modeling, MMM 2020. Springer, Cham.](https://doi.org/10.1007/978-3-030-37734-2_36)

**Dataset**

Following list gives a brief description of all contained classes.

* **Peritoneum**: As one of the most frequently diagnosed types, peritoneal endometriosis is found on the peritoneum, i.e. the lining of the abdominal cavity, which occurs in a mixture of red, yellow and white colors.
* **Ovary**: Endometriosis is as well very frequently found on ovaries, the outer capsule of which appears in a shade of white.
* **Uterus**: Uterine endometriosis or adenomyosis thickens the organ, which typically is colored in a red-tint.
* **Deep infiltrating endometriosis (DIE)**: Non-shallow endometriosis that is found on specific locations such as the rectum, the rectovaginal space or uterine ligaments is described as Deep Infil- trating Endometriosis (DIE). Due to the variety of involved locations no distinct visual appearance can be attributed to this type of class, other than highlighting that typically the color spectrum in recorded laparascopic videos lacks green tones.
* **No pathology**: Video sequences containing no visible pathology in relation to endometriosis are included in the dataset, providing counter examples to above categories. Since this class does not contain any region-based annotations, in addition to a sequence showing a non-pathological uterus, below listing particularly includes examples of several anatomical structures from above pathological classes (e.g. peritoneum and ovaries). Again it is not possible to make any assumptions about the color and shape of objects within this class, since it includes images covering most areas of the pelvic region.

Dataset Available with Annotated Images:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **annotated class** | **cases** | **frames** | **annotations** | **preview** | **size** | **download** |
| **peritoneum** | 84 | 257 | 489 |  | 27MB |  |
| **ovary** | 27 | 53 | 54 |
| **uterus** | 11 | 17 | 25 |
| **die** | 29 | 55 | 59 |
| **total** | 102 | 373 | 628 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **unannotated class** | **cases** | **frames** | **preview** | **size** | **download** |
| **no pathology** | 27 | 13 438 | see [v1.0](http://ftp.itec.aau.at/datasets/GLENDA/v1_0/index.html) page |  |  |