**Supplementary figures legends**

**Figure S1:** Kaplan-Meier plots showing cumulative risk of high-grade dysplasia (HGD) or colorectal cancer (CRC) among patients who initially remained in colonoscopic surveillance (i.e. excluding those who underwent immediate colectomy). (a) Overall cumulative risk. (b) Cumulative risk by LGD lesion shape. (c) Cumulative risk by LGD lesion size. (d) Cumulative risk depending on presence or absence of preceding indefinite dysplasia.

**Figure S2:** Kaplan-Meier plot showing the cumulative risk of HGD or CRC development depending on total number of independent risk factors present (i.e. any combinations of non-polypoid or invisible LGD, LGD sized ≥ 1cm, and/or preceding indefinite dysplasia), in patients who initially remained in colonoscopic surveillance (i.e. excluding those who underwent immediate colectomy).

**Supplementary table**

**Table S1**: The cumulative incidence of HGD or CRC development based on lesion shape, size, preceding indefinite dysplasia and total number of these risk factors present in the first 10 years from the date of initial LGD diagnosis, excluding patients who underwent immediate colectomy (n=21)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cumulative incidence of HGD or CRC (%)** | | | | | | | | | | |
| **Years** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| **Overall** | 10.9 | 13.6 | 16.7 | 17.5 | 19.5 | 19.5 | 22.3 | 24.3 | 24.3 | 27.1 |
| **By lesion shape** | | | | | | | | | | |
| **Polypoid** | 2.7 | 2.7 | 3.8 | 3.8 | 5.2 | 5.2 | 7.3 | 7.3 | 7.3 | 7.3 |
| **Invisible** | 0.0 | 8.0 | 16.4 | 16.4 | 16.4 | 16.4 | 26.9 | 38.1 | 38.1 | 53.6 |
| **Non-polypoid** | 16.7 | 30.2 | 39.8 | 45.8 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 |
| **By lesion size** | | | | | | | | | | |
| **< 1cm** | 0.0 | 1.1 | 2.2 | 3.4 | 4.9 | 4.9 | 7.0 | 10.0 | 10.0 | 10.0 |
| **≥ 1cm** | 15.9 | 23.6 | 32.6 | 32.6 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 50.9 |
| **Preceding indefinite dysplasia** | | | | | | | | | | |
| **No** | 3.7 | 5.3 | 7.1 | 8.1 | 10.4 | 10.4 | 12.0 | 14.2 | 14.2 | 17.4 |
| **Yes** | 14.3 | 29.9 | 50.0 | 50.0 | 50.0 | 50.0 | 83.3 | - | - | - |
| **Total number of risk factors (shape, size or preceding indefinite dysplasia)** | | | | | | | | | | |
| **None** | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| **1** | 7.7 | 7.7 | 11.2 | 15.9 | 15.9 | 15.9 | 15.9 | 40.0 | 40.0 | 40.0 |
| **2** | 9.1 | 23.8 | 34.3 | 34.3 | 40.3 | 40.3 | 47.3 | 47.3 | 47.3 | 62.4 |
| **3** | 50.0 | 75.0 | - | - | - | - | - | - | - | - |