**Supplementary Table 4. Characteristics of Excluded Studies Involving Colorectal Cancer**

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| **Database** | **Study** | **Reason for Exclusion** |
| Clinical trial | Christine D Berg *et al*., 20221 | Data of incidence/mortality of CRC were not reported |
| Joan M. Griffin *et al*., 20202 | Data of incidence/mortality of CRC were not reported |
| Kenzie Cameron *et al*., 20113 | Data of incidence/mortality of CRC were not reported |
| Kenzie A Cameron *et al*., 20114 | Data of incidence/mortality of CRC were not reported |
| Bechara N Choucair *et al*., 20145 | Data of incidence/mortality of CRC were not reported |
| Gloria Coronado *et al*., 20196 | Data of incidence/mortality of CRC were not reported |
| Pubmed | *Wenjie Ma* *et al*., 20227 | Unable to extract FS data |
| Amy B Knudsen *et al*., 20218 | Outcomes were not involved in incidence/mortality of CRC |
| Martin C S Wong *et al*., 20199 | Outcomes were not involved in incidence/mortality of CRC |
| *Wenjie Ma* *et al*., 202110 | Unable to extract FS data |
| *Feng Guo* *et al*., 202111 | Data of incidence/mortality of CRC associated with FS could not be obtained |
| Doubeni, C A *et al*., 202012 | Inappropriate comparator |
| *Xiaosheng He* *et al*., 201913 | There was no control group. Although FS screening was used, the data of FS were unable to be extracted |
| Warren, Andersen S *et al*., 201914 | This was a study without FS screening |
| Carlos, C A *et al*., 201715 | No comparator |
| Senore, C *et al*., 201416 | Data of incidence/mortality of CRC were not reported |
| Kahi, C J *et al*., 201417 | Although FS screening was used, rates of incidence/mortality could not be obtained |
| Doubeni, C A *et al*., 201318 | This was a study without FS screening |
| Blom, J *et al*., 200819 | This was a study without FS screening |
| Maw-Soan Soon *et al*., 200520 | This was a study without FS screening |
| Michelle Cotterchio *et al*., 200521 | Although FS screening was used, data of incidence/mortality of CRC were not reported |
| G Gondal *et al*., 200322 | This was a study without FS screening |
| Newcomb, P A *et al*., 200323 | This was a study without FS screening |
| H Brenner *et al*., 200124 | This was a study without FS screening |
| M L Slattery *et al*., 200025 | This was a study without FS screening |
| Sonnenberg, A *et al*., 200026 | The specific cases of CRC could not be obtained |
| B C Tilley *et al*., 199927 | Although FS screening was used, data of incidence/mortality of CRC were not reported |
| Kavanagh, A M *et al*., 199828 | Unable to extract FS data |
| R Y Demers *et al*., 199429 | Although FS screening was used, the data of FS were unable to be extracted |
| Selby, J V *et al*., 199230 | This was a study without FS screening |
| Newcomb, P A *et al*., 199531 | This was a study without FS screening |
| Knudsen, A B *et al*., 201232 | This was a study without FS screening |
| Senore, C *et al*., 201933 | This was a cost-effectiveness study which did not report data of incidence/mortality of CRC associated with FS |
| Ko, C W *et al*., 201934 | The patients didn't meet the inclusion criteria that "adults aged 18 years and older who have not been diagnosed with CRC" |
| Click, B *et al*., 201835 | Data of incidence/mortality of CRC were not reported |
| Doria-Rose, V P *et al*., 201436 | No comparator |
| Nishihara, R *et al*., 201337  | Data of screening group cannot be obtained |
| Segnan, N *et al*., 201138 | This was a study without FS screening |
| Atkin WS *et al*., 201039 | The same study published in different research stages as Atkin *et al*.,2017 |
| Steele, R. J. *et al*., 202040 | Data of incidence/mortality of CRC associated with FS could not be obtained |
| Laiyemo, A. O. *et al*., 201041 | Although FS screening was used, data of incidence/mortality of CRC were not reported |
| *Wang*, Y. R. *et al*., 201342 | Data of incidence/mortality of CRC were not reported |
| W S Atkin *et al*., 200243 | Although FS screening was used, data of incidence/mortality of CRC were not reported |
| Thiis-Evensen *et al*., 199944 | The same study published in different research stages as Thiis-Evensen, E *et al*., 2013 |
| Schoen, R. E. *et al*., 201245 | The same study published in different research stages as Miller *et al*., 2019 |
| Holme, Ø. *et al*., 201446 | The same study published in different research stages as Holme *et al*., 2018 |
| Embase | *Yang,* K *et al*., 202247 | Conference abstract |
| Zgraggen, A *et al*., 202248 | Data of incidence/mortality of CRC were not reported, and the method of screening was colonoscopy rather than FS |
| *Wang*, K *et al*., 202149 | Methods of screening of this study included colonoscopy and FS, but the data of FS were unable to be extracted |
| Laiyemo, A *et al*., 202150 | Data of incidence/mortality of CRC were not reported |
| Abdel-Rahman, O *et al*., 202151 | Data of incidence/mortality of CRC were not reported |
| Okereke, I *et al*., 202052 | Conference abstract |
| Ezeofor, A *et al*., 202053 | Conference abstract |
| Peterse, E F *et al*., 201854 | Conference abstract |
| Peterse, E F P *et al*., 201855 | Although FS screening was used, data of incidence/mortality of CRC were not reported |
| Nozaki, R *et al*., 201756 | Conference abstract |
| Click, B H *et al*., 201757 | Conference abstract |
| Lieberman, D *et al*., 201658 | Data of incidence/mortality of CRC were not reported |
| Tang, R S *et al*., 201559 | Although FS screening was used, data of incidence/mortality of CRC were not reported |
| Keller, S C *et al*., 201460  | Conference abstract |
| Razzak, A *et al*., 201461  | The aim of this study was to investigate the relationship between family history and the risk of CRC. Data of incidence/mortality of CRC were not reported |
| Mehta, S J *et al*., 201462 | Although FS screening was used, data of incidence/mortality of CRC were not reported |
| Doubeni, C A *et al*., 201363 | Although FS screening was used, data of incidence/mortality of CRC were not reported |
| *Wu*, B U *et al*., 201364 | Conference abstract |
| Jeffers, K *et al*., 201265 | Although FS screening was used, data of incidence/mortality of CRC were not reported |
| Courtney, R J *et al*., 201266 | Although FS screening was used, data of incidence/mortality of CRC were not reported |
| Nishihara, R *et al*., 201267 | Conference abstract |
| Doria-Rose, V P *et al*., 201168 | Conference abstract |
| Burnet-Hartman, A *et al*., 201169 | Data of incidence/mortality of CRC were not reported in patients with advanced adenoma |
| Aggarwal, A *et al*., 201170 | This was a study without FS screening |
| Anand, N *et al*., 200971 | This was a study without FS screening |
| Farraye, F A *et al*., 200472 | Data of incidence/mortality of CRC were not reported |
| Holme, O. *et al*., 201373 | Conference abstract |
| Atkin W.S. *et al*., 201074 | Conference abstract |
| P A Newcomb *et al*., 199275 | The screening method was rigid sigmoidoscopy or FS, but the data of FS were unable to be extracted |

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