**Appendix 1- 2x2 tables**

**Dynamic spectral imaging group**

**Colposcopy directed biopsy (CDB) diagnosis versus final histological diagnosis**

**1a. All women**

|  |  |
| --- | --- |
|  | **Final** |
| **CDB** | CIN2+ | <CIN2 |
| CIN2+ | 136 | 0 |
| <CIN2 | 49 | 76 |

**1b. Trained colposcopy nurses**

|  |  |
| --- | --- |
|  | **Final** |
| **CDB** | CIN2+ | <CIN2 |
| CIN2+ | 98 | 0 |
| <CIN2 | 32 | 42 |

**1c. Resident physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **CDB** | CIN2+ | <CIN2 |
| CIN2+ | 24 | 0 |
| <CIN2 | 7 | 15 |

**1d. Consultant physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **CDB** | CIN2+ | <CIN2 |
| CIN2+ | 14 | 0 |
| <CIN2 | 10 | 20 |

**DSI directed biopsy diagnosis versus final histological diagnosis**

**2a. All women**

|  |  |
| --- | --- |
|  | **Final** |
| **DSI** | CIN2+ | <CIN2 |
| CIN2+ | 139 | 0 |
| <CIN2 | 46 | 76 |

**2b. Trained colposcopy nurses**

|  |  |
| --- | --- |
|  | **Final** |
| **DSI** | CIN2+ | <CIN2 |
| CIN2+ | 104 | 0 |
| <CIN2 | 26 | 42 |

**2c. Resident physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **DSI** | CIN2+ | <CIN2 |
| CIN2+ | 23 | 0 |
| <CIN2 | 8 | 14 |

**2d. Consultant physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **DSI** | CIN2+ | <CIN2 |
| CIN2+ | 12 |  0 |
| <CIN2 | 12 | 20 |

**DSI directed biopsy and CDB combined diagnosis versus final histological diagnosis**

**3a. All women**

|  |  |
| --- | --- |
|  | **Final** |
| **CDB+DSI** | CIN2+ | <CIN2 |
| CIN2+ | 152 | 0 |
| <CIN2 | 33 | 76 |

**3b. Trained colposcopy nurses**

|  |  |
| --- | --- |
|  | **Final** |
| **CDB+DSI** | CIN2+ | <CIN2 |
| CIN2+ | 108 | 0 |
| <CIN2 | 22 | 42 |

**3c. Resident physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **CDB+DSI** | CIN2+ | <CIN2 |
| CIN2+ | 27 | 0 |
| <CIN2 | 4 | 14 |

**3d. Consultant physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **CDB+DSI** | CIN2+ | <CIN2 |
| CIN2+ | 17 | 0 |
| <CIN2 | 7 | 20 |

**Biopsy no. 2 diagnosis versus final histological diagnosis**

**4a. All women**

|  |  |
| --- | --- |
|  | **Final** |
| **no.2**  | CIN2+ | <CIN2 |
| CIN2+ | 130 | 0 |
| <CIN2 | 55 | 76 |

**4b. Trained colposcopy nurses**

|  |  |
| --- | --- |
|  | **Final** |
| **no.2**  | CIN2+ | <CIN2 |
| CIN2+ | 98 | 0 |
| <CIN2 | 32 | 42 |

**4c. Resident physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **no.2**  | CIN2+ | <CIN2 |
| CIN2+ | 20 | 0 |
| <CIN2 | 11 | 14 |

**4d. Consultant physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **no.2**  | CIN2+ | <CIN2 |
| CIN2+ | 12 | 0 |
| <CIN2 | 12 | 20 |

**Biopsy no. 3 diagnosis versus final histological diagnosis**

**5a. All women**

|  |  |
| --- | --- |
|  | **Final** |
| **no.3**  | CIN2+ | <CIN2 |
| CIN2+ | 102 | 0 |
| <CIN2 | 83 | 76 |

**5b. Trained colposcopy nurses**

|  |  |
| --- | --- |
|  | **Final** |
| **no.3**  | CIN2+ | <CIN2 |
| CIN2+ | 74 | 0 |
| <CIN2 | 56 | 42 |

**5c. Resident physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **no.3**  | CIN2+ | <CIN2 |
| CIN2+ | 15 | 0 |
| <CIN2 | 16 | 14 |

**5d. Consultant physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **no.3**  | CIN2+ | <CIN2 |
| CIN2+ | 13 | 0 |
| <CIN2 | 11 | 20 |

**Biopsy no. 4 diagnosis versus final histological diagnosis**

**6a. All women**

|  |  |
| --- | --- |
|  | **Final** |
| **no.4**  | CIN2+ | <CIN2 |
| CIN2+ | 102 | 0 |
| <CIN2 | 83 | 76 |

**6b. Trained colposcopy nurses**

|  |  |
| --- | --- |
|  | **Final** |
| **no.4**  | CIN2+ | <CIN2 |
| CIN2+ | 75 | 0 |
| <CIN2 | 55 | 42 |

**6c. Resident physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **no.4**  | CIN2+ | <CIN2 |
| CIN2+ | 17 | 0 |
| <CIN2 | 14 | 14 |

**6d. Consultant physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **no.4**  | CIN2+ | <CIN2 |
| CIN2+ | 10 | 0 |
| <CIN2 | 14 | 20 |

**Combined diagnosis of biopsy no. 1 and 2 versus final histological diagnosis**

**7a. All women**

|  |  |
| --- | --- |
|  | **Final** |
| **no.1+2**  | CIN2+ | <CIN2 |
| CIN2+ | 167 | 0 |
| <CIN2 | 18 | 76 |

**7b. Trained colposcopy nurses**

|  |  |
| --- | --- |
|  | **Final** |
| **no.1+2** | CIN2+ | <CIN2 |
| CIN2+ | 118 | 0 |
| <CIN2 | 12 | 42 |

**7c. Resident physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **no.1+2** | CIN2+ | <CIN2 |
| CIN2+ | 29 | 0 |
| <CIN2 | 2 | 14 |

**7d. Consultant physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **no.1+2** | CIN2+ | <CIN2 |
| CIN2+ | 20 | 0 |
| <CIN2 | 4 | 20 |

**Combined diagnosis of biopsy no. 1, 2 and 3 versus final histological diagnosis**

**8a. All women**

|  |  |
| --- | --- |
|  | **Final** |
| **no.1+2+3**  | CIN2+ | <CIN2 |
| CIN2+ | 177 | 0 |
| <CIN2 | 8 | 76 |

**8b. Trained colposcopy nurses**

|  |  |
| --- | --- |
|  | **Final** |
| **no.1+2+3** | CIN2+ | <CIN2 |
| CIN2+ | 125 | 0 |
| <CIN2 | 5 | 42 |

**8c. Resident physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **no.1+2+3** | CIN2+ | <CIN2 |
| CIN2+ | 30 | 0 |
| <CIN2 | 1 | 14 |

**8d. Consultant physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **no.1+2+3** | CIN2+ | <CIN2 |
| CIN2+ | 22 | 0 |
| <CIN2 | 2 | 20 |

**Regular Colposcopy group**

**Colposcopy directed biopsy (CDB) diagnosis versus final histological diagnosis**

**9a. All women**

|  |  |
| --- | --- |
|  | **Final** |
| **CDB** | CIN2+ | <CIN2 |
| CIN2+ | 82 | 0 |
| <CIN2 | 45 | 29 |

**9b. Trained colposcopy nurses**

|  |  |
| --- | --- |
|  | **Final** |
| **CDB** | CIN2+ | <CIN2 |
| CIN2+ | 17 | 0 |
| <CIN2 | 8 | 10 |

**9c. Resident physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **CDB** | CIN2+ | <CIN2 |
| CIN2+ | 20 | 0 |
| <CIN2 | 10 | 5 |

**9d. Consultant physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **CDB** | CIN2+ | <CIN2 |
| CIN2+ | 45 | 0 |
| <CIN2 | 27 | 14 |

**Biopsy no. 2 diagnosis versus final histological diagnosis**

**10a. All women**

|  |  |
| --- | --- |
|  | **Final** |
| **no.2**  | CIN2+ | <CIN2 |
| CIN2+ | 73 | 0 |
| <CIN2 | 54 | 29 |

**10b. Trained colposcopy nurses**

|  |  |
| --- | --- |
|  | **Final** |
| **no.2**  | CIN2+ | <CIN2 |
| CIN2+ | 11 | 0 |
| <CIN2 | 14 | 10 |

**10c. Resident physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **no.2**  | CIN2+ | <CIN2 |
| CIN2+ | 20 | 0 |
| <CIN2 | 10 | 5 |

**10d. Consultant physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **no.2**  | CIN2+ | <CIN2 |
| CIN2+ | 42 | 0 |
| <CIN2 | 30 | 14 |

**Biopsy no. 3 diagnosis versus final histological diagnosis**

**11a. All women**

|  |  |
| --- | --- |
|  | **Final** |
| **no.3**  | CIN2+ | <CIN2 |
| CIN2+ | 80 | 0 |
| <CIN2 | 47 | 29 |

**11b. Trained colposcopy nurses**

|  |  |
| --- | --- |
|  | **Final** |
| **no.3**  | CIN2+ | <CIN2 |
| CIN2+ | 10 | 0 |
| <CIN2 | 15 | 10 |

**11c. Resident physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **no.3**  | CIN2+ | <CIN2 |
| CIN2+ | 20 | 0 |
| <CIN2 | 10 | 5 |

**11d. Consultant physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **no.3**  | CIN2+ | <CIN2 |
| CIN2+ | 50 | 0 |
| <CIN2 | 22 | 14 |

**Biopsy no. 4 diagnosis versus final histological diagnosis**

**12a. All women**

|  |  |
| --- | --- |
|  | **Final** |
| **no.4**  | CIN2+ | <CIN2 |
| CIN2+ | 77 | 0 |
| <CIN2 | 50 | 29 |

**12b. Trained colposcopy nurses**

|  |  |
| --- | --- |
|  | **Final** |
| **no.4**  | CIN2+ | <CIN2 |
| CIN2+ | 15 | 0 |
| <CIN2 | 10 | 10 |

**12c. Resident physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **no.4**  | CIN2+ | <CIN2 |
| CIN2+ | 18 | 0 |
| <CIN2 | 12 | 5 |

**12d. Consultant physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **no.4**  | CIN2+ | <CIN2 |
| CIN2+ | 44 | 0 |
| <CIN2 | 28 | 14 |

**Combined diagnosis of biopsy no. 1 and 2 versus final histological diagnosis**

**13a. All women**

|  |  |
| --- | --- |
|  | **Final** |
| **no.1+2**  | CIN2+ | <CIN2 |
| CIN2+ | 102 | 0 |
| <CIN2 | 25 | 29 |

**13b. Trained colposcopy nurses**

|  |  |
| --- | --- |
|  | **Final** |
| **no.1+2** | CIN2+ | <CIN2 |
| CIN2+ | 19 | 0 |
| <CIN2 | 6 | 10 |

**13c. Resident physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **no.1+2** | CIN2+ | <CIN2 |
| CIN2+ | 26 | 0 |
| <CIN2 | 4 | 5 |

**13d. Consultant physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **no.1+2** | CIN2+ | <CIN2 |
| CIN2+ | 57 | 0 |
| <CIN2 | 15 | 14 |

**Combined diagnosis of biopsy no. 1, 2 and 3 versus final histological diagnosis**

**14a. All women**

|  |  |
| --- | --- |
|  | **Final** |
| **no.1+2+3**  | CIN2+ | <CIN2 |
| CIN2+ | 117 | 0 |
| <CIN2 | 10 | 29 |

**14b. Trained colposcopy nurses**

|  |  |
| --- | --- |
|  | **Final** |
| **no.1+2+3** | CIN2+ | <CIN2 |
| CIN2+ | 20 | 0 |
| <CIN2 | 5 | 10 |

**14c. Resident physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **no.1+2+3** | CIN2+ | <CIN2 |
| CIN2+ | 29 | 0 |
| <CIN2 | 1 | 5 |

**14d. Consultant physicians**

|  |  |
| --- | --- |
|  | **Final** |
| **no.1+2+3** | CIN2+ | <CIN2 |
| CIN2+ | 68 | 0 |
| <CIN2 | 4 | 14 |