**Supplementary Table 5.** Clinician sensitivity, miss rate, specificity, positive predictive value, and negative predictive value for cases unaided and aided by the deep learning system

| **Clinician type** | **Parameter**  | **Unaided (%)****(95% bootstrap CI)** | **Aided (%)****(95% bootstrap CI)** |
| --- | --- | --- | --- |
| Overall | Sensitivity |  82 (79-84) | 90 (88-92) |
| Miss rate | 18 (16-20) | 10 (8-12) |
| Specificity | 89 (88-90) | 92 (91-93) |
| Positive predictive value  | 70 (68-73) | 78 (75-80) |
| Negative predictive value | 94 (93-95) | 97 (96-97) |
| Radiologists | Sensitivity  | 86 (80-91) | 90 (84-94) |
| Miss rate  | 14 (9-19) | 10 (6-15) |
| Specificity | 93 (90-95) | 92 (84-94) |
| Positive predictive value  | 78 (72-84) | 78 (72-83) |
| Negative predictive value | 96 (93-97) | 97 (95-98) |
| Orthopaedic surgeons | Sensitivity  | 87 (81-91) | 88 (82-92) |
| Miss rate  | 13 (8-18) | 13 (8-18) |
| Specificity | 96 (94-97) | 96 (94-97) |
| Positive predictive value | 86 (80-90) | 86 (80-90) |
| Negative predictive value | 96 (94-97) | 96 (94-97) |
| Physician assistants | Sensitivity  | 80 (74-86) | 92 (87-95) |
| Miss rate  | 20 (14-25) | 8 (4-12) |
| Specificity | 90 (88-93) | 90 (87-95) |
| Positive predictive value | 72 (65-78) | 74 (68-80) |
| Negative predictive value | 94 (91-95) | 97 (96-98) |
| Primary care physicians | Sensitivity  | 80 (76-84) | 90 (87-93) |
| Miss rate  | 20 (16-24) | 10 (7-14) |
| Specificity | 81 (79-84) | 90 (89-92) |
| Positive predictive value | 57 (53-62) | 75 (71-79) |
| Negative predictive value | 93 (91-95) | 97 (95-98) |
| Emergency medicine physicians | Sensitivity  | 79 (72-84) | 91 (85-94) |
| Miss rate  | 21 (15-28) | 10 (5-14) |
| Specificity | 93 (91-95) | 93 (91-95) |
| Positive predictive value | 79 (72-84) | 80 (74-86) |
| Negative predictive value | 93 (91-95) | 97 (95-98) |

Miss rate = 1 – Sensitivity.