**Table 1. The distribution of the examination results over BI-RADS categories at the initial assessment, n (%)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Location** | **BI-RADS 1** | **BI-RADS 2** | **BI-RADS 3** | **BI-RADS 4** | **BI-RADS 5** |
| Right breast | 223 (30.1) | 306 (41.3) | 97 (13.1) | 50 (6.8) | 64 (8.7) |
| Left breast | 199 (26.9) | 330 (44.5) | 76 (10.2) | 54 (7.3) | 82 (11.1) |

**Table 2. The agreement between radiologists who performed the initial assessment, the first revision and the expert review**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **The assessments compared** | **Breast** | **Agreement on the full BI-RADS** | **Agreement on the binary scale 1** | **Agreement on the binary scale 2** |
| Initial assessment | Radiologist 1 (1st revision) | R | 0.836 [0.801–0.865] | 0.831 [0.796–0.861] | 0.777 [0.732–0.815] |
| L | 0.875 [0.848–0.897] | 0.923 [0.906–0.937] | 0.785 [0.741–0.822] |
| Radiologist 2 (1st revision) | R | 0.847 [0.815–0.874] | 0.810 [0.771–0.843] | 0.786 [0.743–0.823] |
| L | 0.873 [0.846–0.896] | 0.941 [0.928–0.952] | 0.734 [0.683–0.779] |
| Expert 1 | R | 0.847 [0.814–0.874] | 0.831 [0.796–0.861] | 0.792 [0.750–0.828] |
| L | 0.879 [0.854–0.901] | 0.923 [0.906–0.937] | 0.770 [0.725–0.810] |
| Expert 2 | R | 0.838 [0.804–0.866] | 0.844 [0.811–0.871] | 0.770 [0.725–0.810] |
| L | 0.862 [0.832–0.886] | 0.923 [0.906–0.937] | 0.829 [0.801–0.855] |

L, left breast; R, right breast

All values are intra-class correlation coefficients with 95% confidence intervals; P value for all comparisons < 0.001

**Table 3. The agreement between radiologists who performed the first revision and the expert review**

|  |  |  |  |
| --- | --- | --- | --- |
| **The assessments compared** | **Breast** | **Agreement on the full BI-RADS** | **Agreement on the binary scale 2** |
| Radiologist 1 (1st revision) | Expert 1 | R | 0.963 [0.954–0.970] | 0.932 [0.917–0.944] |
| L | 0.954 [0.944–0.963] | 0.934 [0.919–0.946] |
| Expert 2 | R | 0.904 [0.882–0.921] | 0.862 [0.833–0.887] |
| L | 0.890 [0.866–0.910] | 0.934 [0.919–0.946] |
| Radiologist 2 (1st revision) | Expert 1 | R | 0.924 [0.907–0.938] | 0.910 [0.890–0.926] |
| L | 0.929 [0.913–0.942] | 0.886 [0.862–0.907] |
| Expert 2 | R | 0.958 [0.948–0.966] | 0.971 [0.965–0.977] |
| L | 0.958 [0.949–0.966] | 0.886 [0.862–0.907] |
| Radiologist 1 (1st revision) | Radiologist 2 (1st revision) | R | 0.918 [0.900–0.933] | 0.891 [0.868–0.911] |
| L | 0.903 [0.882–0.921] | 0.824 [0.788–0.855] |
| Expert 1 | Expert 2 | R | 0.910 [0.890–0.926] | 0.880 [0.854–0.902] |
| L | 0.914 [0.896–0.930] | 0.886 [0.860–0.906] |

L, left breast; R, right breast

All values are intra-class correlation coefficients with 95% confidence intervals; P value for all comparisons < 0.001

**Table 4. The agreement between radiologists (literature analysis)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Country** | **Publication year** | **Scale type** | **Agreement** | **95% confidence interval** | **Reference** |
| Republic of Korea | 2019 | Malignancy scale (7 categories) | 0.772 | 0.754–0.791 | [18] |
| Malignancy scale (2 categories) | 0.888 | 0.873–0.902 |
| Denmark | 2015 | BI-RADS (4 categories) | 0.880 | 0.810–0.920 | [19] |
| Netherlands | 2013 | BI-RADS (5 categories) | 0.450 | 0.430–0.470 | [20] |
| Binary scale (BI-RADS 0, 4 and 5 / BI-RADS 1 and 2) | 0.770 | 0.760–0.790 |
| Spain | 2012 | BI-RADS (6 categories) | 0.580 | 0.560–0.590 | [21] |
| USA | 1998 | BI-RADS (5 categories) | 0.580 | 0.550–0.610 | [22] |
| Binary scale (abnormal / normal) | 0.660 | 0.630–0.690 |