

Table 1. Scores for items 1 and 2 from the seven evaluators The total score is shown in the bottom row of fig. 4. The higher the score, the better the evaluation result.

	Evaluator	1		2		3		4		5		6		7	
		Evaluation Item	1	2	1	2	1	2	1	2	1	2	1	2	1
Target															
440-120s	score	15	15	14	14	14	14	14	14	14	14	13	14	14	13
880-120s	score	14	14	13	14	14	14	15	15	15	15	15	15	15	15
440-180s	score	13	13	14	14	13	13	13	13	13	13	12	12	12	13
880-180s	score	12	12	12	12	12	12	12	12	12	12	12	13	12	13
440-300s	score	11	11	11	11	11	11	11	11	11	11	9	10	10	11
880-300s	score	10	10	6	6	11	11	10	10	10	10	9	10	10	10
440-360s	score	8	8	11	9	8	8	9	9	9	9	6	7	9	7
880-360s	score	7	7	7	7	9	9	8	8	8	8	7	9	9	8
440-450s	score	8	8	7	8	6	6	7	7	7	7	7	7	8	8
880-450s	score	7	7	7	5	7	7	6	6	6	6	7	7	9	8
440-600s	score	8	5	5	5	5	5	5	5	5	5	4	5	6	7
880-600s	score	3	3	3	4	5	5	3	3	4	4	4	4	5	5
440-900s	score	4	4	3	3	3	3	2	2	3	3	1	3	3	3
880-900s	score	3	3	1	2	3	3	2	2	2	2	1	2	3	3
440-1800s	score	1	1	1	1	1	1	1	1	0	0	1	1	1	1
880-1800s	score	0	0	0	0	1	1	0	0	0	0	0	1	1	1

Table 2. Scores for items 1 and 2 from the seven evaluators The total score in the rightmost column of Fig. 4 is presented. The lower the score, the better the evaluation result.

		Evaluatior		1		2		3		4		5		6		7	
		Evaluation Item		1	2	1	2	1	2	1	2	1	2	1	2	1	2
Target																	
440-120s	score	0	0	1	1	0	0	1	1	1	1	1	1	1	1	1	1
880-120s	score	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
440-180s	score	2	2	0	1	2	2	2	2	2	2	2	2	1	3	2	2
880-180s	score	3	3	3	3	3	3	3	3	3	3	3	3	2	2	3	3
440-300s	score	4	4	4	6	5	5	4	4	4	4	4	4	4	4	5	5
880-300s	score	5	5	5	5	5	5	5	5	5	5	5	5	4	4	5	5
440-360s	score	9	9	6	6	7	7	6	6	6	6	6	6	7	7	9	8
880-360s	score	8	8	8	8	6	6	7	7	7	7	7	7	4	6	8	7
440-450s	score	7	7	6	6	9	9	8	8	8	8	8	8	7	8	9	9
880-450s	score	8	8	9	9	8	8	9	9	9	9	9	9	7	9	10	10
440-600s	score	10	10	7	8	11	11	10	10	11	11	11	11	10	10	11	10
880-600s	score	12	12	11	11	11	10	11	11	11	11	11	11	10	11	11	11
440-900s	score	11	11	10	11	13	13	12	12	12	12	12	12	12	12	13	13
880-900s	score	12	12	13	13	13	13	12	12	13	13	13	13	13	13	12	13
440-1800s	score	14	14	12	13	15	15	13	13	13	13	13	13	13	15	15	15
880-1800s	score	15	15	15	15	15	15	15	15	14	14	14	14	14	15	15	15

Table 3. Average scores for each image and their ranking from the five evaluators with long clinical experience.

Target	Average cores in descending order	Average cores in ascending order	Ranks
880-1800s	14.8	0.2	1
440-1800s	13.5	0.8	2
880-900s	12.6	2.3	3
440-900s	11.7	3	4
880-600s	11.1	3.7	5
440-600s	9.9	5.3	6
880-450s	8.6	6.4	7
440-450s	7.6	7.1	8
880-360s	7.2	7.8	9
440-360s	6.8	8.8	10
880-300s	5	9.4	11
440-300s	4.4	11	12
880-180s	3	12	13
440-180s	1.7	13.2	14
880-120s	0.4	14.3	16
440-120s	0.6	14.2	15

Table 4. NMSE scores for an 1800s image NMSE: Normalized mean square error Since the target was an 1800-second image with 440 and 880 pixels, the NMSE scores for these two images are not shown.

Target	NMSE score
440-120s	0.052736
880-120s	0.050524
440-180s	0.036682
880-180s	0.035974
440-300s	0.027426
880-300s	0.0262
440-360s	0.018685
880-360s	0.018592
440-450s	0.015165
880-450s	0.01455
440-600s	0.014692
880-600s	0.012808
440-900s	0.008389
880-900s	0.007257
440-1800s	-
880-1800s	-

Table 5. NMSE scores and rankings Shown are the NMSE scores for all images except the 1800 second image with 440 and 880 pixels and their ranking.

Target	NMSE score	Ranks
880-900s	0.007257	1
440-900s	0.008389	2
880-600s	0.012808	3
440-600s	0.014692	5
880-450s	0.01455	4
440-450s	0.015165	6
880-360s	0.018592	7
440-360s	0.018685	8
880-300s	0.0262	9
440-300s	0.027426	10
880-180s	0.035974	11
440-180s	0.036682	12
880-120s	0.050524	13
440-120s	0.052736	14

Table 6. PIQE scores and their ranking PIQE: Perception-based image quality evaluator Shown are the PIQE scores for all images, except the 1800 second image with 440 and 880 pixels.

Target image	PIQE score	Rank
880-1800s	60.3786	1
440-1800s	60.7609	2
880-900s	62.7803	3
440-900s	65.3957	4
880-600s	66.0972	5
440-600s	69.7924	9
880-450s	67.1711	6
440-450s	72.1406	10
880-360s	68.1758	7
440-360s	72.5463	11
880-300s	68.1903	8
440-300s	72.7048	12
880-180s	74.1163	13
440-180s	75.5763	14
880-120s	77.4794	15
440-120s	79.5117	16

Table 7. NIQE scores and their ranking NIQE: Natural Image Quality Evaluator Shown are the NIQE scores and their ranking for all images. The lower the score, the better is the image quality evaluation.

Target image	NIQE score	Ranks
880-1800s	6.6500	2
440-1800s	7.3372	11
880-900s	6.9129	8
440-900s	6.7181	4
880-600s	7.1605	10
440-600s	6.7528	5
880-450s	7.3985	12
440-450s	6.9369	9
880-360s	7.6248	13
440-360s	6.6778	3
880-300s	7.8463	14
440-300s	6.8895	7
880-180s	8.0195	15
440-180s	6.8434	6
880-120s	8.1071	16
440-120s	6.6168	1