Interpretation of Digital Mammograms: Comparison of Speed and Accuracy of Soft-Copy versus Printed-Film Display

PURPOSE: To compare the speed and accuracy of the interpretations of digital mammograms by radiologists by using printed-film versus soft-copy display.

MATERIALS AND METHODS: After being trained in interpretation of digital mammograms, eight radiologists interpreted 63 digital mammograms, all with old studies for comparison. All studies were interpreted by all readers in soft-copy and printed-film display, with interpretations of images in the same cases at least 1 month apart. Mammograms were interpreted in cases that included six biopsy-proved cancers and 20 biopsy-proved benign lesions, 20 cases of probably benign findings in patients who underwent 6-month follow-up, and 17 cases without apparent findings. Area under the receiver operating characteristic curve ($A_{r}$), sensitivity, and specificity were calculated for soft-copy and printed-film display.

RESULTS: There was no significant difference in the speed of interpretation, but interpretations with soft-copy display were slightly faster. The differences in $A_{r}$, sensitivity, and specificity were not significantly different; $A_{r}$ and sensitivity were slightly better for interpretations with printed film, and specificity was slightly better for interpretations with soft copy.

CONCLUSION: Interpretation with soft-copy display is likely to be useful with digital mammography and is unlikely to significantly change accuracy or speed.

The full benefits of digital mammography are likely to be achieved only with the flexibility that soft-copy display provides. Given an earlier study (1) of the preferences of readers of mammograms for digital display, radiologists will probably need different versions of the same image, which are achievable with image processing, for the detection and evaluation of masses and calcifications. Unlike a film mammogram, which can only be varied through the use of a magnifying glass or a bright light, workstation displays of digital mammograms allow the presentation of several versions of an image instantaneously at the push of a button. The digital image can be adjusted on-line to allow for immediate evaluation of questionable areas. In addition, if mammograms can be interpreted by using systems with monitors, the high costs of film, processing, and hard-copy image storage and retrieval can be avoided (2). Currently, only technology with a cathode ray tube monitor is available for the soft-copy display of digital mammograms. Other technologies, such as liquid-crystal display, field-emission display, and organic light-emitting diode displays, should become available in the next 1–10 years (2). However, the best high-quality cathode ray tube technology is limited compared with printed-film display (2). The spatial resolution is less than one quarter of the film resolution, and the luminance range is much lower (3–7).

However, both of these factors can be mitigated. Full spatial resolution is possible with roam-and-zoom techniques. This must take place seamlessly, so that reading an image with a monitor is similar to reading mammograms on film with a magnifying glass. Reader
performance can be degraded if the tool makes the task more difficult (8). Further, the luminance difference may not be that important. Findings in two studies (9,10) demonstrated that detection of mammographic features does not decrease when soft-copy display luminance ranges are used instead of mammographic lightbox ranges. However, larger-scale performance studies that include an evaluation of the effect of display characteristics on the detection and diagnosis of breast cancer are required to assure patients and physicians that printed-film and soft-copy display are equivalent. In addition, the speed of interpretation of the low-cost screening studies must not be compromised if this technology is to be implemented clinically (2).

The purpose of this study was to compare the speed and accuracy of interpretations by radiologists of digital mammograms (SenoScan; Fischer Imaging, Denver, Colo) that were displayed with two different types of lightbox ranges. However, larger-scale performance studies that include an evaluation of the effect of display characteristics on the detection and diagnosis of breast cancer are required to assure patients and physicians that printed-film and soft-copy display are equivalent. In addition, the speed of interpretation of the low-cost screening studies must not be compromised if this technology is to be implemented clinically (2).

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The appropriate institutional review board and protocol review committee approved this study. Informed consent from the patients whose images were included in the study was not required by the institutional review board.

**MATERIALS AND METHODS**

The digital mammograms used in this study had a spatial resolution of 50 μ per pixel with a bit depth of 12 bits per pixel, for 40 megabytes of digital information per image.

**Preparation of Mammograms for Display**

Printing digital mammograms.—All digital mammograms were printed by using the image-processing algorithm that was recommended by the manufacturer at the time the study began. This algorithm, manual intensity windowing without other processing, was applied, and a mammography-certified radiologic technologist with more than 20 years experience in imaging of the breast printed the images. The images were printed on film (Kodak Ektascan HN; Eastman Kodak, Rochester, NY) with a laser film printer (Kodak 2180 EktScan; Eastman Kodak). This printer is capable of printing 12 bits per pixel. Images were printed at a 50-μm pixel size with a matrix of 4,096 × 5,120 pixels. The laser film was subsequently processed by using a medical film processor (QX-400; Konica Medical, Norcross, Ga). Images in all cases were reviewed for quality by the same technologist who printed them. No cases were excluded from the study on the basis of this review of images.

**Digitizing screen-film mammograms.**—To allow for soft-copy display of the prior studies for comparison, all prior comparison cases were digitized at 50-μm spatial resolution and 12 bits of contrast resolution by using a digitizer (Lumisys 100; Lumisys, Sunnyvale, Calif).

Processing of the digitized screen-film images used for comparison involved a standardization step to allow the images to appear on video monitors with an appearance that would be similar to that of a mammogram on a lightbox. A computer scientist manually adjusted the gray scale on the monitors by means of standardization of luminance response for each of the display environments, according to digital imaging and communications in medicine, or DICOM, display standard 3.14 (13).

**Soft-Copy Workstation Description**

The soft-copy workstation was locally developed with funding provided by the Department of Defense and was used for soft-copy display. The soft-copy display system used in this study included two (100-foot-lambert) monitors (model 1654 High Brightness; Clinton Electronics, Loves Park, Ill), each with a display card (MidSun; Dome Imaging, Waltham, Mass) and run with one computer (UltraSparc model 2200; Sun Microsystems, San Jose, Calif). Both the monitors and the display cards had a display matrix size of 2,048 × 2,560 pixels.

### Table 1: Demographic Profiles in Patients

<table>
<thead>
<tr>
<th>Demographic Profiles</th>
<th>No. of Patients*</th>
</tr>
</thead>
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<tr>
<td>Racial and ethnic data</td>
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<tr>
<td>White</td>
<td>51 (81)</td>
</tr>
<tr>
<td>African-American</td>
<td>9 (14)</td>
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<tr>
<td>Hispanic</td>
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<tr>
<td>Asian</td>
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</tr>
<tr>
<td>Unknown</td>
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<tr>
<td>Age (y)</td>
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</tr>
<tr>
<td>40–49</td>
<td>17 (27)</td>
</tr>
<tr>
<td>50–59</td>
<td>25 (40)</td>
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<tr>
<td>60–69</td>
<td>16 (25)</td>
</tr>
<tr>
<td>70–79</td>
<td>3 (5)</td>
</tr>
<tr>
<td>&gt;80</td>
<td>1 (2)</td>
</tr>
<tr>
<td>Unknown</td>
<td>1 (2)</td>
</tr>
</tbody>
</table>

* Data in parentheses are percentages. The sums of the percentages for racial and ethnic data and for age are not 100% because the percentages were rounded.
The device was equipped with a simple user interface that allowed the reader to select preset intensity windowing options with the click of a mouse button. In addition, the system provided roam-and-zoom functions with the click of a mouse button so that all parts of the digital and digitized screen-film mammograms could be viewed at full spatial resolution. The roam-and-zoom function was used with the full monitor screen size of 2,048 × 2,560 pixels for viewing a selected portion of the 3,072 × 4,800-pixel full-resolution digital mammogram.

The hanging protocol for the images with soft-copy display was implemented according to reader preference. That is, each reader could specify the orientation that he or she preferred for the right and left images and old and new images to be displayed, and the system was adapted for each reader. The default presentation, available without any changes, was for the craniocaudal views to be displayed on the left monitor and the mediolateral views to be displayed on the right monitor, with images from the new examination located at the bottom and those from the prior examination at the top. All soft-copy presentations allowed for the display of four images per monitor, with the reader able to select and view any of the eight displayed images at full spatial resolution. Figure 1 shows the soft-copy workstation for digital mammography.

**Reader Study**

**Pilot reader study.**—The methods for the soft-copy portion of the reader study, including the use of the soft-copy display system, were pilot tested with one radiologist (E.D.P.), who was experienced in imaging of the breast and in interpretation of digital mammograms. Ten pathologically proved cases, which were different from the cases included in this study, were used for this purpose. Additionally, the soft-copy interface was tested and refined on the basis of feedback received while the device was displayed at the Radiological Society of North America INFO-RAD exhibit in 1998 (14) and 1999 (11).

**Participants and prior experience with digital mammograms.**—A total of eight readers who were radiologists (including C.M.K., M.P.B., R.I.F., M.S.S., J.A.B., R.W.), with exclusion of the pilot-study reader, participated in the reader study. Seven of eight readers had experience in the interpretation of digital mammograms through participation in prior reader studies at the University of North Carolina. This prior experience included the interpretation of 200 mammograms with printed-film display after these readers received training with 28 printed digital mammograms with pathologically proved lesions.

One of eight readers gained experience in interpretation of digital mammograms through interpretation of 10 digital mammograms in cases that were included in the set of 28 printed digital mammograms with pathologically proved lesions that had been used to train the other seven readers, as noted previously. In this training session, this reader evaluated the cases and identified the findings, and immediately afterward, the reader was given information about the pathologic diagnoses for lesions visible on the mammograms. This set of 10 cases was different from those used in the pilot reader study.

All participating readers fulfilled U.S. Food and Drug Administration requirements for screen-film interpretation of mammograms on the basis of Mammography Quality Standards Act regulations.

**Training for the study.**—None of the readers who participated in this study had prior experience in interpretation of digital mammograms by using soft-copy display systems. All readers were trained specifically in the tasks of the study, including interpretation of digital mammograms with both printed-film and soft-copy display. Each reader was asked to provide his or her hanging preference so that the printed-film and soft-copy images could be displayed in the order and at the site preferred by the reader. Images with printed-film display were hung on a multipanel light box (Two-tier Desktop Mammography Illuminator; Picker, Waycross, Ga), with suitable masking of extraneous light.

Training regarding the use of the soft-copy display system was accomplished by displaying 20 digital mammograms that were obtained with the same unit used in this study and that were selected from cases that were not included in this study. A computer scientist (B.M.H.) first demonstrated how to use the soft-copy system and then assisted the readers in viewing mammograms by using the soft-copy display system in the first five cases. During this training, the readers viewed and interpreted the images and worked with a research assistant in completing data sheets regarding their interpretation of the images, just as they would in the actual study.

After the completion of review of mammograms in the first five cases, the reader was given instructive feedback regarding the presence of pathologically proved findings on the images. Mammograms in the next 15 cases were then viewed and interpreted exactly as the reader would view and interpret the images in the subsequent reader study; that is, the radiologists themselves viewed and interpreted the images, and the computer scientist was available only to answer questions about how to use the soft-copy system. Instructive feedback regarding the pathologically proved diagnoses was provided after each case was reviewed and interpreted.

If readers were not able to complete the soft-copy interpretations of images in all 63 study cases on the same day as their initial training, they were given an additional five training cases (not used in the
study) with images to read and practice with at the start of each additional reading day to refamiliarize themselves with the soft-copy display system, given their lack of prior experience with soft-copy interpretation. Most readers used images in a total of 25 training cases. Some used images in 30 cases.

All readers also trained with three cases in which digital mammograms were printed to laser film so that they would become familiar with the reading and interpretation task, the dictation system, and the interaction with the research assistant by using the hard-copy presentation format.

Reader study method.—The mammograms in the 63-case set were assigned to two blocks, block A (31 mammograms) and block B (32 mammograms) for soft-copy and printed-film display. Four readers read all 63 mammograms in soft-copy display first; two readers started with the images in block A and two readers started with the images in block B, according to random assignment. Similarly, the remaining four readers read all 63 mammograms in printed-film display first; two readers began with the images in block A and two readers began with the images in block B.

At least 1 month passed before each of the two groups of four readers read the images in the other display. Again, half the readers were randomly assigned to begin with the images in block A first. The other half began with images in block B.

This counterbalancing of viewing and interpreting images in soft-copy and printed-film display was intended to mitigate the effects of learning and fatigue.

The readers were instructed to read the images as screening images, with the results dictated. A research assistant (E.B.C.) timed the readings from the moment the radiologist first viewed the images to the moment that the radiologist finished the dictation with a stopwatch. The time to display or hang the images was not included in this measurement.

After the dictation was completed for each case, the research assistant assisted the reader in filling out a data sheet to record mammographic findings and their locations, the radiologist’s belief about the probability of malignancy for each finding on the basis of five categories (definitely not malignant, probably not malignant, possibly malignant, probably malignant, definitely malignant), and the radiologist’s recommendation for follow-up or further testing.

All readings were performed in a dark environment (dimmer set to 10 lux), which was suitable for interpretation of mammograms. A magnifying glass was provided for printed-film interpretation. Reading sessions were split into 50-minute periods, with a mandatory 5-minute break per hour. Readers took additional breaks as needed.

All readings were videotaped for further analysis, as needed. Figure 2 shows the dedicated mammographic light box used for interpretation of screen-film mammograms.

Statistical analysis methods.—The same statistical analysis was conducted for all four outcome variables: area under the receiver operating characteristic curve ($A_z$), sensitivity, specificity, and time. Nonparametric receiver operating characteristic curve analysis was conducted separately for each of eight readers in each display mode (printed film and soft copy). This analysis created 16 values each of $A_z$, sensitivity, and specificity. The statistical analysis required the assumption that the data followed a Gaussian or normal distribution. This assumption was met by transforming the reading time, $t$, for each case to log$_{10}(t)$. All such values were then averaged separately for each reader in each display, and the averaging resulted in 16 observations. For each outcome, paired-data t-tests and CIs for the difference were computed. Because there were four outcomes of interest, Bonferroni corrections were applied. Each variable was tested as follows: $A_z$, $\alpha = .02$; sensitivity, $\alpha = .01$; specificity, $\alpha = .01$; and time, $\alpha = .01$. Retrospective power analysis was performed to describe the power of the study.

Since the subject in one case in which findings were classified as negative (no cancer) was lost to follow-up after 6 months of mammographic surveillance, the entire analysis was rerun after the data concerning the interpretations of that subject’s mammograms were excluded to ensure that the results did not change substantially.

RESULTS

Table 2 includes a summary of the results of this study and shows that interpretations with soft-copy display were faster than they were with printed-film display. In contrast, $A_z$ (0.673, printed-film display; 0.647, soft-copy display) and sensitivity (0.708, printed-film display; 0.687, soft-copy display) were slightly better for printed-film than for soft-copy display. Specificity was slightly better for soft-copy than for printed-film display. However, none of these results was statistically significant. The CIs around each estimate were large because of the small sample size in the study.

Readers detected and interpreted more than one finding in 288 (45%) of 637 examinations overall. This occurred in 146 (48%) of 307 interpretations for soft-
copy display and in 142 (43%) of 330 interpretations for printed-film display. The results of the study did not change in any substantial way after the interpretation of the mammogram in one patient with 6 months follow-up was excluded from the analysis. All differences between printed-film and soft-copy display remained in the same direction as when the case was included in the analysis; the values for time, $A_p$, sensitivity, and specificity and the $P$ values, which did not indicate a statistically significant difference, changed only slightly. Results for each reader in the study are shown in Table 3.

**DISCUSSION**

The results of this study support the hypothesis that readings of soft-copy and printed-film displays of digital mammograms are equivalent in diagnostic accuracy and speed. These results suggest that reading time is faster for interpretation of digital mammograms with soft-copy display. The estimates of diagnostic accuracy are less certain, given the small number of cancers included, although the data suggest that there are probably not large differences.

Results of this study could have possibly caused an underestimation of the benefits of soft-copy interpretation, because the only image-processing tool available to the readers was a group of preset intensity window settings that the readers could select as desired. Findings in prior work (1) suggested that other image-processing algorithms might benefit radiologists for lesion detection and lesion characterization. In addition, it is possible that the availability of other soft-copy tools (ie, those not provided with the soft-copy workstation), specifically other image-processing algorithms and computer-aided diagnosis, might have improved the performance of the readers, both in terms of time and accuracy. Other variations might have caused worse reader performance as well or increased the time needed for interpretation (8). Given that the number of cases with findings was greater in this study than it usually is in a population undergoing screening, one would expect readers to interpret screening mammograms even more quickly than they did with the cases included in this study.

In fact, the results of this study showed no significant difference in time required to interpret printed-film and soft-copy digital mammograms, with interpretation of soft-copy mammograms being slightly faster than that of printed-film mammograms. The results were somewhat surprising, given that the soft-copy interpretation required the readers to roam and zoom and interact with the images to change the intensity windowing settings. We believe that the times were shorter for soft-copy display because the soft-copy workstation allowed the readers to interact with the images in an extremely comfortable and intuitive manner, and after informal conversations with the readers who participated in the study, that impression was confirmed.

Since the results were not statistically significant, there is a chance that another study with the same design might show that radiologists can interpret the printed-film images faster. The most important conclusion we can draw from this study is not that soft-copy display allowed faster or better interpretation but that the difference in time and accuracy was not large between interpretation with soft-copy display and printed-film display when the workstation was fast and user friendly.

Another factor that might have reduced the reader performance with soft-copy display was the digitization of prior mammograms for comparison. This was only required for the display of the prior studies used for the soft-copy part of the experiment. The original screen-film mammograms were used for comparison with the printed-film images. Even though the digitized images were of high quality, and the digitized images were only used for comparison with those in study cases, there may have been a difference in the information on these images compared with that on the original mammograms, and this difference might have affected the results of this study. The effect of the digitization process on the conspicuity of lesions on mammograms has never been well studied, to our knowledge, so the magnitude of this effect, if it was present, is not known.

Results of this study give some reassurance to mammographers who interpret digital mammograms with high-quality soft-copy workstations that their performance is similar to their performance with printed-film display. Radiologists in this study had extensive one-on-one hands-on training with use of the soft-copy workstation before we began the study, and the interface was adapted to each reader’s individual preferences for how the images should be displayed (ie, where on the monitors to display right and left and old and new mammograms). Similar results might not have been achievable if either of these factors were not present for this study. Readers seeking to adopt soft-copy workstations as part of their clinical environment should insist that the ergonomics of their workstations are comfortable to all readers and conducive to good-quality interpretations. In addition, we believe appropriate training is necessary. Federal regulations regarding digital mammography (15) require that radiologists have at least 8 hours of continuing medical education credits in digital mammography before they can interpret this type of image.

In this study, the reader had the ability to see the old images in soft-copy format without having to turn to a set of lightboxes set up nearby. This allowed the reader to perform the interpretation task, including the comparison with prior images, in the standard clinical manner, without any distractions. In most patients, old screen-film mammograms are

<table>
<thead>
<tr>
<th>Variable</th>
<th>Printed-Film Display</th>
<th>Soft-Copy Display</th>
<th>Difference*</th>
<th>CI (%)†</th>
<th>$P$ Value‡</th>
</tr>
</thead>
<tbody>
<tr>
<td>$A_p$</td>
<td>0.673</td>
<td>0.647</td>
<td>0.026</td>
<td>98 (−0.060, 0.112)</td>
<td>.393</td>
</tr>
<tr>
<td>Sensitivity§</td>
<td>0.708</td>
<td>0.687</td>
<td>0.021</td>
<td>99 (−0.111, 0.153)</td>
<td>.598</td>
</tr>
<tr>
<td>Specificity§</td>
<td>0.528</td>
<td>0.563</td>
<td>−0.035</td>
<td>99 (−0.243, 0.172)</td>
<td>.572</td>
</tr>
<tr>
<td>Time†</td>
<td>1.607</td>
<td>1.532</td>
<td>0.076</td>
<td>99 (−0.058, 0.209)</td>
<td>.088</td>
</tr>
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</table>

* The differences reported correspond to printed-film display minus soft-copy display for all categories.
† Numbers in parentheses are the lower and upper limits of the CI.
‡ The $P$ values were not statistically significant.
§ It was not possible to calculate fractions for sensitivity and specificity because the data are proportions that were averaged over the reader and, hence, do not correspond directly to any ratio of numbers of cases.

Time is reported in log base 10 units. The mean printed-film display time was equivalent to 40.5 seconds. The mean soft-copy display time was equivalent to 34 seconds.
available for comparison, and once digital mammography is more widely used, it is likely that images will be acquired from different digital systems in patients. We believe it is important for the manufacturers to plan for this user requirement by providing the ability to import other digital images to their display systems. This is most easily achieved if all systems are compatible with the recently released digital imaging and communications in medicine standards (16) and if they have digital imaging and communications in medicine standards (16) and if they have

Acknowledgments: The authors gratefully acknowledge the important contributions of Betsy Mills, BA, Patricia Barbour, RTR(M), Lisa Quamme, RTR(M), Kyla Lokitz, Christopher Parham, BS, Gregory Millnamow, MD, Laura Rice, MD, and Shuquan Zhong, BS, in the completion of this work. In particular, we acknowledge the contribution of Sanjay Shhapit, BS, a computer science graduate student, who unfortunately died during the completion of this study. His work on the design and implementation of Mammoview, the soft-copy workstation, was integral to its success.

References

Note.—Data are the means within the display medium for each reader. Because there were only six cases with malignancy in the study, mean sensitivity overlapped for some of the readers.

* Data are proportions. Data in parentheses are the numbers from which the proportions were calculated.
† Time is reported in log base 10 units (seconds).

<table>
<thead>
<tr>
<th>Reader</th>
<th>Soft-Copy Display</th>
<th>Printed-Film Display</th>
<th>Soft-Copy Display</th>
<th>Printed-Film Display</th>
<th>Soft-Copy Display</th>
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<tbody>
<tr>
<td>A</td>
<td>0.52</td>
<td>0.50</td>
<td>0.50 (3/6)</td>
<td>0.50 (3/6)</td>
<td>0.42 (16/38)</td>
<td>0.47 (18/38)</td>
<td>2.01</td>
<td>1.93</td>
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<tr>
<td>B</td>
<td>0.60</td>
<td>0.50</td>
<td>0.67 (4/6)</td>
<td>0.50 (3/6)</td>
<td>0.28 (10/36)</td>
<td>0.26 (10/38)</td>
<td>1.71</td>
<td>1.85</td>
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<tr>
<td>C</td>
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<td>0.67 (4/6)</td>
<td>0.67 (4/6)</td>
<td>0.43 (9/21)</td>
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<td>D</td>
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<td>0.75 (30/40)</td>
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<tr>
<td>E</td>
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<td>0.83 (5/6)</td>
<td>0.74 (35/47)</td>
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<td>F</td>
<td>0.72</td>
<td>0.73</td>
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<td>0.67 (4/6)</td>
<td>0.84 (26/31)</td>
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<td>1.56</td>
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<td>G</td>
<td>0.63</td>
<td>0.72</td>
<td>0.67 (4/6)</td>
<td>0.67 (4/6)</td>
<td>0.39 (9/23)</td>
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<td>H</td>
<td>0.76</td>
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<td>0.83 (5/6)</td>
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<td>0.65 (26/40)</td>
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