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(54) **DISPLAY FOR COMPUTER-AIDED EVALUATION OF MEDICAL IMAGES AND FOR ESTABLISHING CLINICAL RECOMMENDATION THEREFROM**

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(57) **ABSTRACT**

A method for displaying a computer-generated determination of the overall likelihood of malignancy in a mammogram lesion. The method requires providing a digitized image of a mammogram, displaying the digitized image, and selecting a region of interest directly on the displayed digitized image. The digitized image is then processed so that classifier data of the lesion in the user-selected region of interest are generated and displayed. The overall likelihood of malignancy is generated from the classifier data and also displayed. A clinical recommendation for further assessing the lesion is derived from the overall evaluation of malignancy and presented to the user. A system for displaying a determination of the overall likelihood of malignancy in a mammogram lesion and for presenting a clinical recommendation to the user is also provided. A method for integrating the overall likelihood of malignancy with a physician's independent score for the lesion is discussed.