CLAIMS

1. An intraoral imaging apparatus comprising:

an imaging device that acquires an intraoral image;

a light source that emits light to a subject of the imaging device;

a storage apparatus that stores an algorithm for performing determination of an infection, wherein the algorithm is pre-generated by machine learning; and

an arithmetic apparatus,

wherein the arithmetic apparatus executes:

a determination process of determining a possibility of the infection based on the image and the algorithm; and

an output process of outputting a result of the determination process.

2. The intraoral imaging apparatus according to claim 1,

wherein the imaging device acquires a moving image as the image, and

the arithmetic apparatus

further executes an extraction process of extracting at least one still image that satisfies a predetermined condition from among a plurality of still images included in the moving image, and

executes the determination process based on a result of the extraction process.

3. The intraoral imaging apparatus according to claim 1 or 2, further comprising

an input apparatus that receives input of patient information,

wherein the arithmetic apparatus executes the determination process further based on the patient information.

4. The intraoral imaging apparatus according to claim 2, further comprising

a display apparatus that displays at least one of the image acquired by the imaging device or the result of the extraction process.

5. The intraoral imaging apparatus according to any of claims 1 to 4,

wherein the imaging device acquires the intraoral image at a position inside an intraoral imaging aid having a tubular shape to be attached to the inside of the mouth,

the storage apparatus stores identification information of an intraoral imaging aid that has already been used, and

the arithmetic apparatus further executes

an acquisition process of acquiring identification information of an intraoral imaging aid to be used for new determination,

a search process of searching the presence or

absence of a record of the storage apparatus that matches the identification information of an intraoral imaging aid to be used for new determination, and

a restriction process of restricting the new determination depending on a result of the search process.

6. A medical apparatus comprising:

the intraoral imaging apparatus according to any of claims 1 to 5; and

an intraoral imaging aid having a tubular shape and configured to be detachably attached to the inside of the mouth,

wherein the intraoral imaging aid includes:

a first end having an opening; and

a second end located on an opposite side of the first end and having a window that provides a visual field from the inside to the outside of the intraoral imaging aid.

7. A program causing a computer, the computer equipped with a storage apparatus storing an algorithm for performing determination of an infection and an arithmetic apparatus, to execute:

a determination process of determining a possibility of the infection based on an intraoral image acquired by an imaging device and based on the algorithm; and

an output process of outputting a result of the

determination process,

wherein the algorithm is pre-generated by machine learning.