

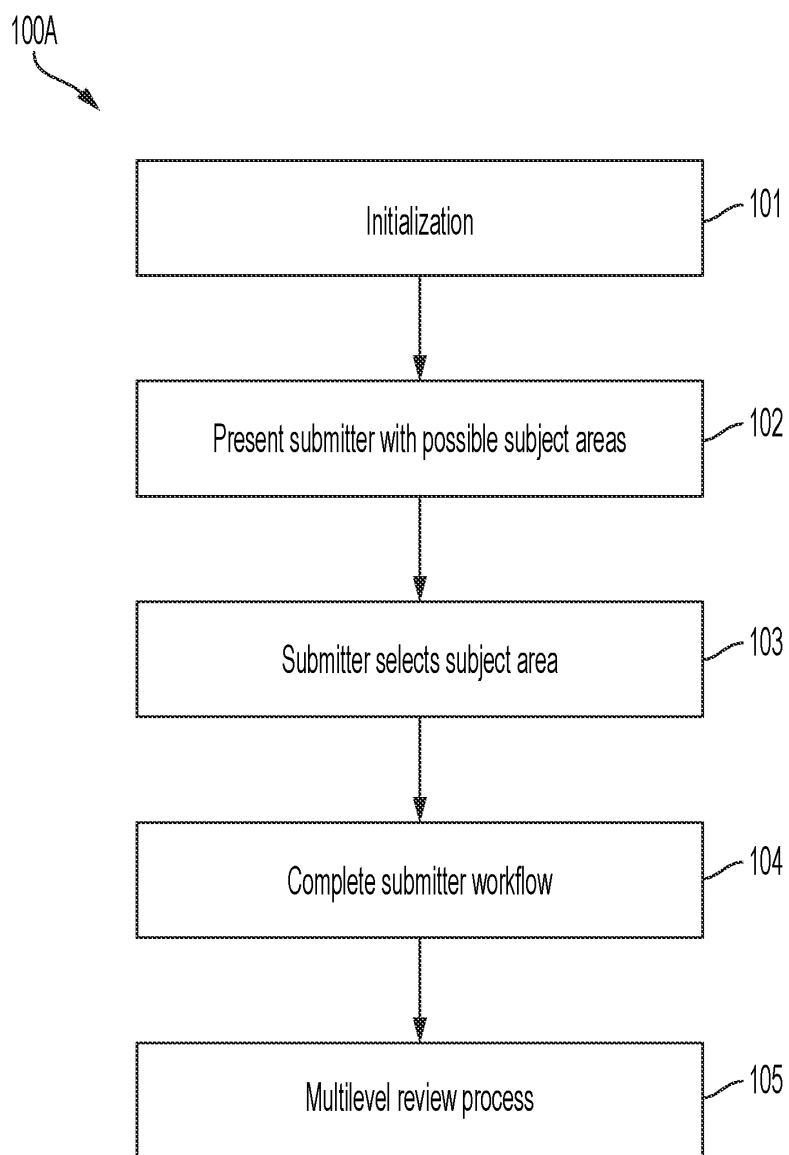


FIG. 1A

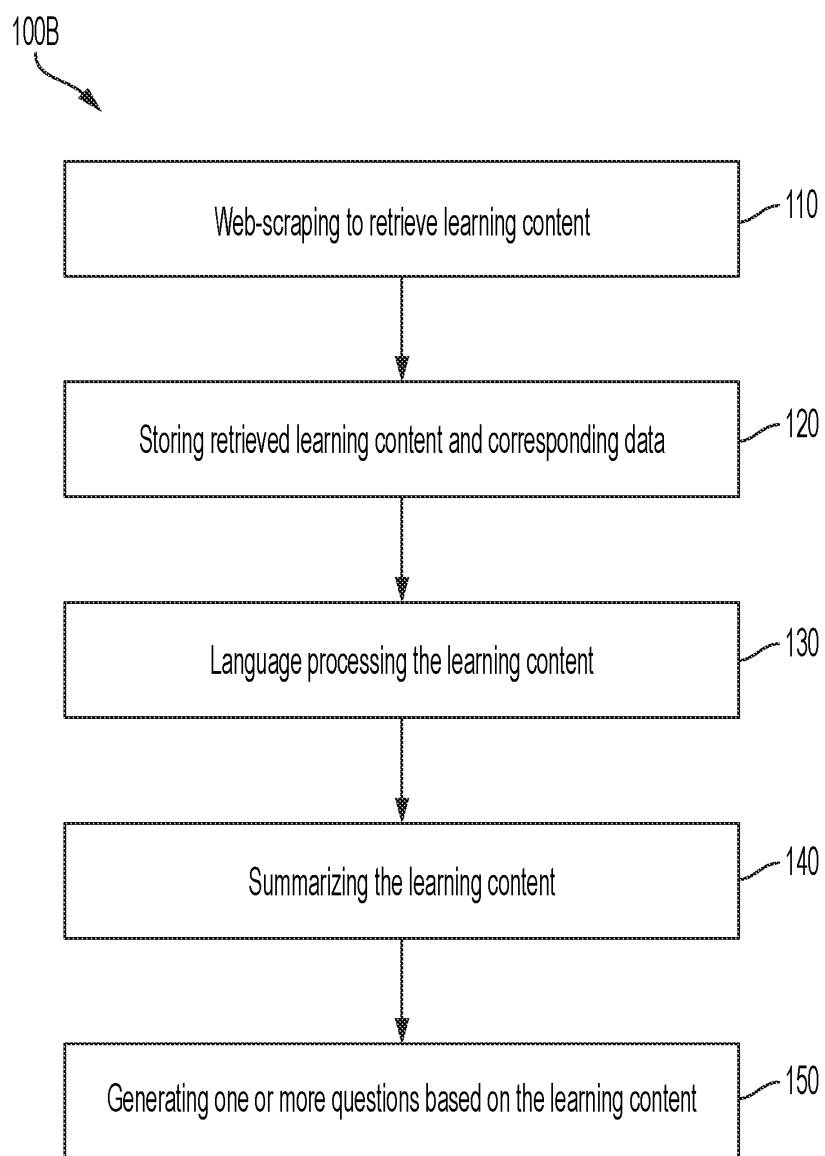


FIG. 1B

Questions 1 of 5

You will write 5 questions about the article. Try to formulate questions that focus on the big picture and clinically relevant takeaways. Questions like "how many patients were enrolled in this study" are not going to help learning in a meaningful way. Also write a hint to help someone figure out where the answer is, for sample, a good hint would be "See the last paragraph of the discussion section"

QUESTION TYPE *

Multiple Device

True/False

QUESTION *

Add question

2/252

ANSWERS *

Add answer

0/280

Clear

Add answer

0/280

Clear

Add answer

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Add answer

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Clear

FIG. 2

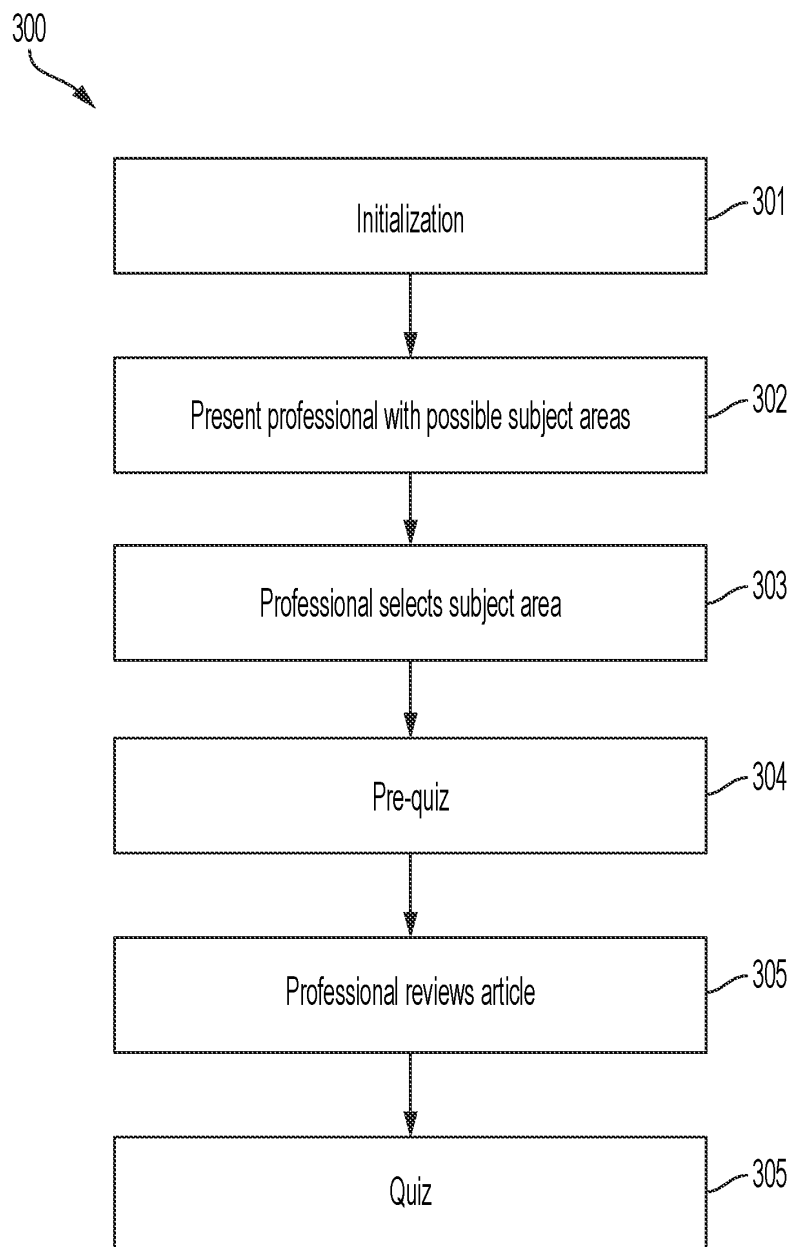


FIG. 3

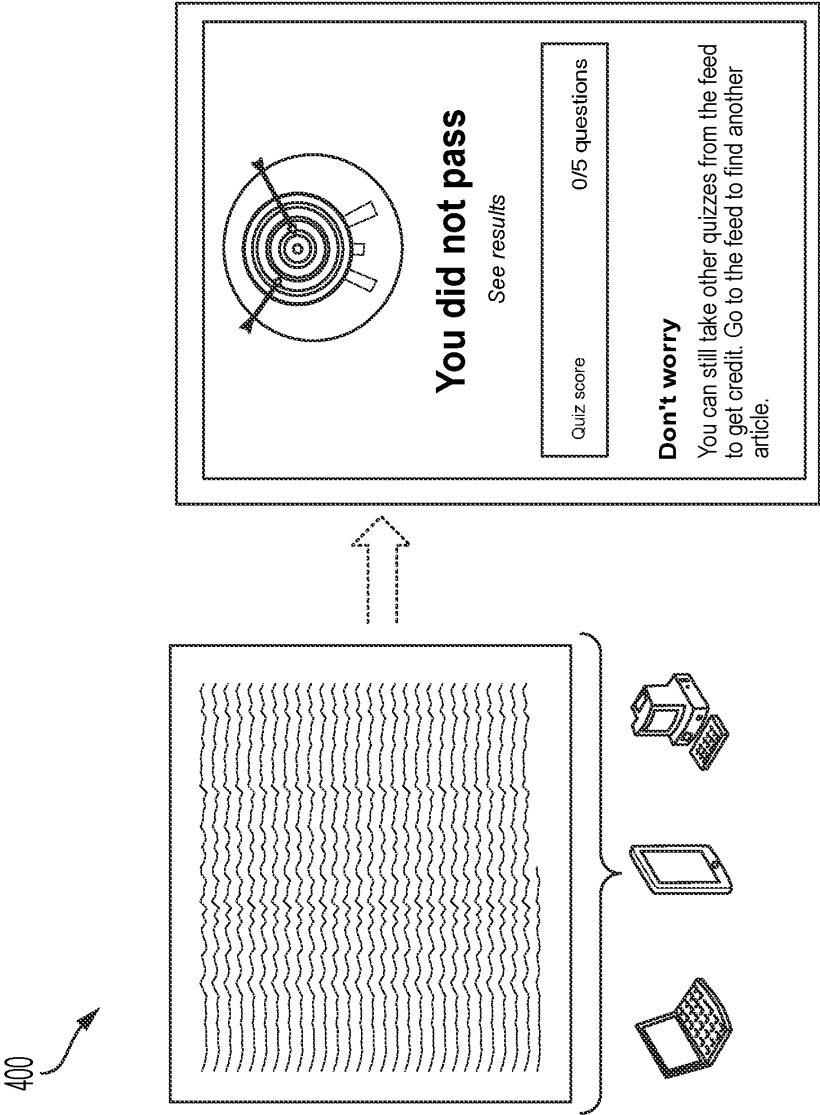


FIG. 4

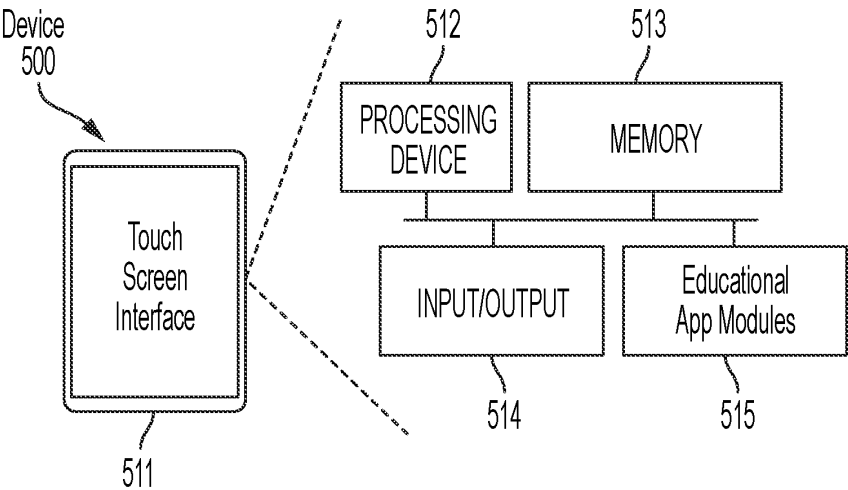


FIG. 5

600

generated by artificial intelligence and/or machine learning

Abstract

Aims: The rapid spread of new SARS-CoV-2 variants has highlighted the crucial role played in the infection by mutations occurring at the SARS-CoV-2 spike receptor binding domain (RBD) in the interactions with the human ACE2 receptor. In this context, it urgently needs to

Expand abstract

What would you learned after reading?

1

Airway ultrasound can accurately determine endotracheal tube size in pediatric patients, outperforming traditional methods such as height formula, age formula, and the width of the little finger.

2

Airway ultrasound has unique advantages for confirming successful endotracheal intubation in pediatric patients, with diagnostic accuracy ranging from 90.6% to 100%.

3

The technology can also be used to confirm intubation depth, with diagnostic accuracy ranging from 66.7% to 100%.

4

Airway ultrasound is a safe and quick diagnostic tool, reducing the need for radiation exposure and potential risks associated with critical patient transfer.

5

There is a need to develop a unified airway ultrasound protocol for pediatric patients to conduct clinical trials and practice in the future.

Who should read this study?

Pediatricians

Anesthesiologists

Neonatologists

Pediatricians, particularly those specializing in critical care and emergency medicine, would greatly benefit from this study as it emphasizes the utility of airway ultrasound in endotracheal intubation, a common procedure in these fields.

Furthermore, medical educators and residents in these specialties may find this study useful as airway ultrasound could be an effective teaching tool for endotracheal intubation. The study's emphasis on the need for a unified protocol also has implications for those involved in clinical guideline development and implementation.

What we thought about this study?

In our review of this study on the use of airway ultrasound in pediatric endotracheal intubation, we found it to be a significant contribution to the field. The study provides compelling evidence for the utility of airway ultrasound in determining endotracheal tube size, confirming successful intubation, and verifying intubation depth. This is particularly relevant for pediatricians, anesthesiologists, neonatologists, and emergency medicine physicians who frequently perform these procedures.

However, we noted some limitations. The study is largely based on single-center studies with small sample sizes, which may limit the generalizability of the findings. Additionally, the lack of a standardized protocol for the use of airway ultrasound introduces significant heterogeneity between studies, which could impact the interpretation of the results.

Controlled substances

This activity may fulfill one of your state requirements.

North Carolina

+20 states

Special credits

MOC

Patients Safety

This activity provides AMA PRA Category 1 CME credit and qualifies for MOC credit or Patient Safety credit depending on your ABMS member board.

Authors

See 16 authors

Lauren Brinkley-Rubinstein, Josie Sivaraman, David L Rosen, David H...

Specialties

Physical Medicine and Rehabilita...

Allergy and Immunology

Interests

See 6 interests

ACE2 structurally related pro... +

Angiotensin-converting enzy... +

COVID-19

In silico an... +

FIG. 6