

Patients' perception of robot-driven technology in the management of retinal diseases

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Literature review for designing questionnaire

Research identified through Embase search. Keywords: "Patient" AND ("artificial intelligence" or "robot" or "AI") (n=3540)



Records after duplicates removed (n=3204)



Abstracts screened (n=3204)



Records eligible for full review (n=32)

Questionnaire

For patients attending the intravitreal injection clinic

Age:

Sex:

Diagnosis:

Q1 How anxious are you?

Not anxious – Very anxious

1 2 3 4 5

Q2 How important is it for you to see a doctor at every outpatient appointment?

Not important - very important

1 2 3 4 5

Q3 How happy are you to attend a virtual clinic where you do not see a doctor but are contacted by post with the result?

Not happy – very happy

1 2 3 4 5

Q4 How happy would you be for a robot to decide on your diagnosis and treatment?

Not happy – very happy

1 2 3 4 5

Q5 How happy would you be for a robot to decide on your diagnosis and treatment if the robot made less mistakes than a doctor?

Not happy – very happy

1 2 3 4 5

Q6 How happy would you be to not see a doctor and for a robot to decide on your diagnosis and treatment if the waiting time was reduced and the appointment was faster?

Not happy – very happy

1 2 3 4 5

Q7 How happy would you be to not see a doctor and for a robot to decide on your diagnosis and treatment if the robot was able to communicate well and show human emotions and empathy?

Not happy – very happy

1 2 3 4 5

Q8 How happy would you be if your injection was performed by a robot?

Not happy – very happy

1 2 3 4 5

Questionnaire results

Question 1: _____(n=177)

Attitudes	n (%)
1	104 (58.8)
2	32 (18.1)
3	24 (13.6)
4	11 (6.2)
5	6 (3.4)

Question 2: _____(n=176)

Attitudes	n (%)
1.....	62 (35.2)
2.....	5 (2.8)
3.....	40 (22.7)
4.....	21 (11.9)
5.....	48 (27.3)

Question 3: _____(n=177)

Attitudes	n (%)
1.....	28 (15.8)
2.....	15 (8.5)
3.....	50 (28.2)
4.....	16 (9.0)
5.....	68 (38.4)

Question 4: _____(n=177)

Attitudes	n (%)
1.....	91 (51.4)
2.....	9 (5.1)
3.....	37 (20.9)
4.....	21 (9.0)
5.....	26 (14.7)

Question 5: _____ (n=177)

Attitudes	n (%)
1.....	77 (43.5)
2.....	5 (2.8)
3.....	31 (17.5)
4.....	19 (10.7)
5.....	45 (25.4)

Question 6: _____ (n=177)

Attitudes	n (%)
1.....	71 (40.1)
2.....	8 (4.5)
3.....	30 (16.9)
4.....	19 (10.7)
5.....	46 (27.7)

Questions 7: _____ (n=176)

Attitudes	n (%)
1.....	79 (44.9)
2.....	5 (2.8)
3.....	31 (17.6)
4.....	17 (9.7)
5.....	44 (25.0)

Question 8: _____ (n=177)

Attitudes	n (%)
1.....	116 (65.5)
2.....	6 (3.4)
3.....	18 (10.2)
4.....	9 (5.1)
5.....	28 (15.8)