

Perspectives and needs of diabetes patients concerning diabetes app

Name: gender: male female age: _____years

Age of disease onset: _____years

Diabetes type: type 1 diabetes type 2 diabetes gestational diabetes I don't know

Treatment type : oral hypoglycemic agents insulin injection insulin pump lifestyle intervention

Residence: _____province_____city_____county urban rural

Education : Primary school or below middle school high school university postgraduate

Occupation: student a civil servant or staff member staff and workers of state owned enterprises employees of foreign enterprises / private / joint ventures private business owners or individual business households retired farmer unemployed others (please specify) _____

Parents' education

Fatherprimary school or below middle school high school university postgraduate

Mother primary school or below middle school high school university postgraduate

Parents' occupation:

Father a civil servant or staff member staff and workers of state owned enterprises employees of foreign enterprises / private / joint ventures private business owners or individual business households retired Farmer unemployed others (specify) _____

Mother a civil servant or staff member staff and workers of state owned enterprises employees of foreign enterprises / private / joint ventures private business owners or individual business households retired farmer unemployed others (please specify) _____

Marriage: unmarried married divorced

Annual income of familyless than 50000 yuan50001-100000yuan 100001-150000 yuan more than 150000 yuan

1.Do you know diabetes apps ? (if no, jump to question 25)

(1) no (2) yes

2. Have you ever used a diabetes app? (if no, jump to question 25)

(1) no (2) yes

3.Who recommended your diabetes app ?

(1) health care professionals (2) diabetes friend (3) media (4) I selected randomly because I did not know which one was best (5) others (please specify) _____

4. How frequent do you use diabetes app?

(1) everyday (2) 3-6 days a week (3) 1-2 days a week (4) less than one time a week (5) less than one time a month (6) I hardly use it

5. Why you don't want to use your diabetes app ? **(multi-choice)**
(1) complicated operations (2) useless (3) lack of time (4) cost (5) others (please specify) _____
6. Do you think diabetes app is helpful for you?
(1) useless (2) a little helpful (3) helpful (4) very helpful
7. Does your app has a function of blood sugar record ? **(if no, jump to question 10)**
(1) no (2) yes
8. Do you think manual input of blood sugar in your app is burdensome? ?
(1) no (2) a little burdensome (3) burdensome (4) very burdensome
9. How frequent do you use diabetes app to record blood sugar?
(1) everyday (2) 3-6 days a week (3) 1-2 days a week (4) less than one time a week
(5) less than one time a month (6) I hardly use it to record blood sugar
10. Does your app have a function of recording diet ? **(if no, jump to question 12)**
(1) no (2) yes
11. How frequent do you use diabetes app to record diet?
(1) everyday (2) 3-6 days a week (3) 1-2 days a week (4) less than one time a week
(5) less than one time a month (6) I hardly use it to record
12. Does your app have a function of recording exercise ? **(if no, jump to question 14)**
(1) no (2) yes
13. How frequent do you use diabetes app to record exercise?
(1) everyday (2) 3-6 days a week (3) 1-2 days a week (4) less than one time a week
(5) less than one time a month (6) I hardly use it to record
14. Does your app have a function of consulting health care professionals ? **(if no, jump to question 19)**
(1) no (2) yes
15. Have you ever consulted health care professionals using diabetes app ? **(if no, jump to question 19)**
(1) no (2) yes
16. Do you have to pay if you consult health care professionals using your app ?
(1) no (2) yes
17. Do you think consulting health care professionals on app is helpful for you ?
(1) Not helpful at all (2) a little helpful (3) helpful (4) very helpful
18. Why do you think consulting the health care professionals on app is helpless for you ?
(1) Responses are not in time (2) They lack expertise (3) Communication time is too short (4) Others (please specify) _____
19. Does your app have diabetes education knowledge ? **(if no, jump to question 21)**
(1) no (2) yes
20. Do you think diabetes education knowledge on your app is helpful for you ?
(1) not helpful at all (2) a little helpful (3) helpful (4) very helpful
21. Does your app have an insulin dose calculator ? **(if no, jump to question 23)**
(1) no (2) yes
22. Do you think insulin dose calculator on your app is accurate ?
(1) inaccurate (2) accurate (3) I don't know
23. Does your app have the function of abnormal blood sugar reminder ?

(1) no (2) yes

24 Does your app have the function of blood sugar test reminder ?

(1) no (2) yes

25.Which function do you think is most important for you if we design a diabetes app ? (Single choice)

(1) diabetes diary (blood sugar, diet, exercise and medication record)

(2) consulting HCPs

(3) diabetes education knowledge

(4) peer support

(5) insulin dose calculator

(6) abnormal blood sugar reminder

(7) blood sugar test reminder

(8) others (please specify) _____

26.Do you think diabetes diary (blood sugar, diet, exercise and medication records) on diabetes app is important for you ?

(1) not important at all (2) a little important (3) important (4) very important

27. Do you think the function of consulting HCPs on diabetes app is important for you ?

(1) not important at all (2) a little important (3) important (4) very important

28. Do you think diabetes education knowledge on diabetes app is important for you ?

(1) not important at all (2) a little important (3) important (4) very important

29. Do you think the function of peer support on diabetes app is important for you ?

(1) not important at all (2) a little important (3) important (4) very important

30. Do you think the function of insulin dose calculator on diabetes app is important for you ?

(1) not important at all (2) a little important (3) important (4) very important

31. Do you think the function of blood sugar test reminder on diabetes app is important for you ?

(1) not important at all (2) a little important (3) important (4) very important

32. Do you think the function of abnormal blood sugar reminder on diabetes app is important for you ?

(1) not important at all (2) a little important (3) important (4) very important

33. Do you think you have to pay if you consult medical staffs using apps ?

(1) no (2) yes

34.If you have to pay for your diabetes app, will you continue to use it ?

(1) no (2) If effect is good, I will (3) yes, certainly

35.Do you want to have a good diabetes app to help you to manage your blood sugar ?

(1) no (2) yes, I need (3) yes, I'm in great need of it