

Purposes, Challenges and Enablers for smartphone Use in persons with visual loss during the COVID-19 pandemic

Date: 10/03/2022

A. General Information of Patient

Name:	S/D/W	Age	Sex	Address (State)	*Education:
	Chattu Kushwaha	29	<input checked="" type="checkbox"/> 1) Male <input type="checkbox"/> 2) Female	Delhi	PG, Hindi Litr.
Occupation	BCVA (R/E, in certificate)	BCVA (L/E, in certificate)	Diagnosis (in Certificate):		
7	PL-	PL-	<input checked="" type="checkbox"/> pthisis <input checked="" type="checkbox"/> Atrophic bulbi		

*Occupation code: 1-Govt. Job, 2-Pvt. Job, 3-Shopkeeper, 4-Business, 5-Daily wages, 6-Homemaker, 7-Student

DISABILITY PERCENTAGE = 100%

B. Please tell for what purposes do you use smartphone during the COVID-19 pandemic?

	Yes=1, Not in my case=2	Tick/Mention	Enabling factors (Tick)
1. Use for communication	<input checked="" type="checkbox"/> 1	Friend, Family members, Teacher,	SMS, Voice call, Audio-visual call,
2. For Health consultation	<input checked="" type="checkbox"/> 1	Doctor, Pharmacist, health worker,	SMS, Voice call, Audio-visual call,
3. For getting information on COVID-19	<input checked="" type="checkbox"/> 1	About spread/protection/prevention,	Newspaper, Youtube, News channel,
4. Money transfer/payment	<input checked="" type="checkbox"/> 1	Family, Friend, Shop, mobile bill/recharge,	Gpay, Phonepe, Paytm,
5. For Online shopping/Tele shopping	<input checked="" type="checkbox"/> 1	Clothes, ration, mobile, vegetable, <u>Speaker, food</u>	Amazon, Flipkart, Blinkit, Bigbasket, <u>Zomato</u>
6. For Reading Print material	<input checked="" type="checkbox"/> 2	Medicine/tablet/sanitizer/price tag,	Special apps,
7. For Entertainment	<input checked="" type="checkbox"/> 1	Music, movie, TV shows,	Youtube, Netflix, Amazon prime, <u>Tiktok, Wyny, Hotstar</u>
8. For Color identification	<input checked="" type="checkbox"/> 1	Red, green, blue,	Special app, <u>Eye-Dpro</u>
9. For Money identification/Handling finance	<input checked="" type="checkbox"/> 1	While shopping/keeping/giving away,	Special app, <u>Mani</u>
10. Use for object identification	<input checked="" type="checkbox"/> 2	Shoe, bottle, canes, keys,	Special app,
11. Use for Local transportation/booking	<input checked="" type="checkbox"/> 1	Colleges, Market, Hospital, Bank, Railway station,	OLA, Uber, Rapido, Meru,
12. Indoor navigation (inside the building/home)	<input checked="" type="checkbox"/> 2	Bathroom, kitchen, toilet, bedroom, stair, roof,	Special app,
13. Use for taking medicine	<input checked="" type="checkbox"/> 2	Identification of medicine, Dose, expiry date,	Special app,
14. Use for Alarm/reminder	<input checked="" type="checkbox"/> 1	Getting up, meeting, birthday, <u>Alexf</u>	Special app, <u>Alarm</u>
15. Use as Online platform	<input checked="" type="checkbox"/> 1	Classes/Meeting/group discussion,	Google meet, Zoom, Microsoft,
16. Use as a Calculator	<input checked="" type="checkbox"/> 1	Subtract, addition, divide, multiply,	Special app, <u>Calculator</u>

17. Face recognition ☒ 2 Friend, peers, family member, _____ | Special app, _____
18. Social Media ☒ 1 Messaging, talking, chatting, _____ | Facebook, WhatsApp, Instagram, Telegram
19. Photography ☒ 1 Documents, Friends, Family members, _____ | Special app, Camera
20. Others if any Mail, Save Contact, Note Pad, Recorder, Call Recording

C. Additional enabling factors that made possible or help you to use smartphones during lockdown/pandemic?

		(How frequently do you face/feel it)			
		1. Very Important	2. Moderately Important	3. Important	4. Not Important at all
Yes=1, Not in my case=2	Tick/Mention	Tick/Mention			
1. Familiarity/user friendly of smartphones	<input checked="" type="checkbox"/> 1 Samsung, Xiaomi, Apple, Vivo, Motorola, _____	1	2	<input checked="" type="checkbox"/> 3	4
2. Use of screen reader	<input checked="" type="checkbox"/> 1 Talkback, Voiceover, _____	<input checked="" type="checkbox"/> 1	2	3	4
3. Available Wi-Fi/Data internet at home	<input checked="" type="checkbox"/> 1 Airtel, Idea, Vodafone, Excitel, hotspot	<input checked="" type="checkbox"/> 1	2	3	4
4. Regular power supplies/Power source at home	<input checked="" type="checkbox"/> 1 Inverter, power bank, _____	1	2	3	<input checked="" type="checkbox"/> 4 - without net phone will (sani) Box
5. Apps that can read bilingual/multiple language	<input checked="" type="checkbox"/> 1 Vocalizer, Eloquence Text to Speech app, _____	<input checked="" type="checkbox"/> 1	2	3	4
6. Understanding English	<input checked="" type="checkbox"/> 1 _____	1	2	3	<input checked="" type="checkbox"/> 4
7. Getting help from on the use of smartphone	<input checked="" type="checkbox"/> 1 Healthcare, Family, Peers, _____	1	2	3	<input checked="" type="checkbox"/> 4
8. Financial supports from any other agency/NGO	<input checked="" type="checkbox"/> 2 Govt. NGO, Pvt. NGO, Semi-govt. NGO, Intl. NGO, Family, Donor	1	2	3	4
9. Using headphone	<input checked="" type="checkbox"/> 1 For calling, education, talkback, voiceover, _____	<input checked="" type="checkbox"/> 1	2	3	4
10. Others if any _____					

During COVID-19 Pandemic

D. Challenges that you encountered, while using smartphone?

(How frequently do you face/feel it)

- | | Yes=1, No/Never=2 | Tick/Mention |
|--|---------------------------------------|---|
| 1. At the begging, have you ever felt hesitation or reluctant for smartphone | <input checked="" type="checkbox"/> 2 | Not applicable / Rarely / Sometimes / very often / always |
| 2. Unlocking the smartphones | <input checked="" type="checkbox"/> 2 | Not applicable / Rarely / Sometimes / very often / always |
| 3. My screen reader is slow | <input checked="" type="checkbox"/> 1 | Not applicable / Rarely / Sometimes / very often / always |

- | | | | |
|---|---------------------------------------|---|------------------|
| 4. My special app is unresponsive | <input checked="" type="checkbox"/> 2 | Not applicable / Rarely / Sometimes / very often / always | |
| 5. Not understanding the meaning of a specific sound | <input checked="" type="checkbox"/> 2 | Not applicable / Rarely / Sometimes / very often / always | |
| 6. Frequent unintentional selection of icons | <input checked="" type="checkbox"/> 1 | Not applicable / Rarely / Sometimes / very often / always | |
| 7. Getting lost when using a specific app/icon | <input checked="" type="checkbox"/> 1 | Not applicable / Rarely / Sometimes / very often / always | |
| 8. Unable to find a specific website | <input checked="" type="checkbox"/> 1 | Not applicable / Rarely / Sometimes / very often / always | |
| 9. Facing problem for safe keeping (at home/office) | <input checked="" type="checkbox"/> 1 | Not applicable / Rarely / Sometimes / very often / always | |
| 10. Feeling difficulty in carrying around mobile phone | <input checked="" type="checkbox"/> 2 | Not applicable / Rarely / Sometimes / very often / always | |
| 11. Shortage of money to repair damaged phone | <input checked="" type="checkbox"/> 1 | Not applicable / Rarely / Sometimes / very often / always | |
| 12. Facing problem for poor battery backup | <input checked="" type="checkbox"/> 1 | Not applicable / Rarely / Sometimes / very often / always | |
| 13. Facing problem with the design (not user friendly) | <input checked="" type="checkbox"/> 1 | Not applicable / Rarely / Sometimes / very often / always | - Long Journey |
| 14. Facing problem with my touch screen function | <input checked="" type="checkbox"/> 2 | Not applicable / Rarely / Sometimes / very often / always | - speaker below |
| 15. Facing problem with microphone function | <input checked="" type="checkbox"/> 1 | Not applicable / Rarely / Sometimes / very often / always | |
| 16. Facing problem with speaker/loudspeaker function | <input checked="" type="checkbox"/> 1 | Not applicable / Rarely / Sometimes / very often / always | |
| 17. Difficult to text entry with aloud voice | <input checked="" type="checkbox"/> 1 | Not applicable / Rarely / Sometimes / very often / always | |
| 18. Feeling general apps not working properly | <input checked="" type="checkbox"/> 1 | Not applicable / Rarely / Sometimes / very often / always | |
| 19. Feeling verbose (many voices output) from mobile | <input checked="" type="checkbox"/> 1 | Not applicable / Rarely / Sometimes / very often / always | |
| 20. Facing unwanted add/advertisement when using app | <input checked="" type="checkbox"/> 2 | Not applicable / Rarely / Sometimes / very often / always | - Ad Guard |
| 21. Content or labels not readable with a screen reader/special app | <input checked="" type="checkbox"/> 1 | Not applicable / Rarely / Sometimes / very often / always | - captcha, Image |
| 22. Others if any <u>Emoji Reader</u> | | | |

E. How much smartphones help in doing daily living activities without support from others (In percentage %)

.....80%..... % (0-100)

F. How much do you think smartphones is important for your life?

☒ 1. Very Important 2. Moderately Important 3. Important 4. Not Important at all

Name of Interviewer:

VIKA/ Dr. Suraj Singh Senjam

Signature of Interviewer:

(Signature)

Purposes, Challenges and Enablers for smartphone Use in persons with visual loss during the COVID-19 pandemic

A. General Information of Patient

Date: 10/03/2022

Name:	S/D/W <u>Netra Pal</u>	Age <u>27</u>	Sex <input checked="" type="checkbox"/> 1 Male <input type="checkbox"/> 2 Female	Address (State) <u>Delhi</u> Contact no:	*Education: <u>Graduate</u> Marital status: <input checked="" type="checkbox"/> 2 Yes=1 No=2
Occupation <u>Banking</u>	BCVA (R/E, in certificate) <u>PL-</u>	BCVA (L/E, in certificate) <u>2/60</u>	Diagnosis (in Certificate): <u>R Anophthalmia</u> <u>L Pseudophakia c Corneal opacity</u>		

*Occupation code: 1-Govt. Job, 2-Pvt. Job, 3-Shopkeeper, 4-Business, 5-Daily wages, 6-Homemaker, 7-Student

DISABILITY PERCENTAGE = 90%
(A/HMS)

B. Please tell for what purposes do you use smartphone during the COVID-19 pandemic?

	Yes=1, Not in my case=2	Tick/Mention	Enabling factors (Tick)
1. Use for communication	<input checked="" type="checkbox"/> 1	Friend, Family members, Teacher,	SMS, Voice call, Audio-visual call,
2. For Health consultation	<input checked="" type="checkbox"/> 1	Doctor, Pharmacist, health worker,	SMS, Voice call, Audio-visual call,
3. For getting information on COVID-19	<input checked="" type="checkbox"/> 1	About spread/protection/prevention,	Newspaper, Youtube, News channel, <u>Twitter</u>
4. Money transfer/payment	<input checked="" type="checkbox"/> 1	Family, Friend, Shop, mobile bill/recharge, <u>Cab</u>	Gpay, Phonepe, Paytm,
5. For Online shopping/Tele shopping	<input checked="" type="checkbox"/> 1	Clothes, ration, mobile, vegetable,	Amazon, Flipkart, Blinkit, Bigbasket, <u>Swiggy, Meesho</u>
6. For Reading Print material	<input checked="" type="checkbox"/> 1	Medicine/tablet/sanitizer/price tag,	Special apps, <u>Envision AI</u>
7. For Entertainment	<input checked="" type="checkbox"/> 1	Music, movie, TV shows,	Youtube, Netflix, Amazon prime,
8. For Color identification	<input checked="" type="checkbox"/> 2	Red, green, blue,	Special app,
9. For Money identification/Handling finance	<input checked="" type="checkbox"/> 1	While shopping/keeping/giving away,	Special app, <u>Kitna Mami</u>
10. Use for object identification	<input checked="" type="checkbox"/> 2	Shoe, bottle, canes, keys,	Special app,
11. Use for Local transportation/booking	<input checked="" type="checkbox"/> 1	Colleges, Market, Hospital, Bank, Railway station,	OLA, Uber, Rapido, Meru,
12. Indoor navigation (inside the building/home)	<input checked="" type="checkbox"/> 2	Bathroom, kitchen, toilet, bedroom, stair, roof,	Special app,
13. Use for taking medicine	<input checked="" type="checkbox"/> 1	Identification of medicine, Dose, expiry date,	Special app, <u>Envision AI</u>
14. Use for Alarm/reminder	<input checked="" type="checkbox"/> 1	Getting up, meeting, birthday, <u>Alert, Duty</u>	Special app, <u>Alarm</u>
15. Use as Online platform	<input checked="" type="checkbox"/> 1	Classes/Meeting/group discussion,	Google meet, Zoom, Microsoft, <u>cisco</u>
16. Use as a Calculator	<input checked="" type="checkbox"/> 1	Subtract, addition, divide, multiply,	Special app, <u>calculator with Talkback</u>

17. Face recognition ☒ 2 Friend, peers, family member, _____ Special app, _____
18. Social Media ☒ 1 Messaging, talking, chatting, _____ Facebook, WhatsApp, Instagram, _____
19. Photography ☒ 1 Documents, Friends, Family members, _____ Special app, Camera, Scanner
20. Others if any _____

C. Additional enabling factors that made possible or help you to use smartphones during lockdown/pandemic?

	Yes=1, Not in my case=2	Tick/Mention	(How frequently do you face/feel it)			
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1. Familiarity/user friendly of smartphones	<input checked="checked" type="checkbox"/> 1	Samsung, Xiaomi, Apple, Vivo, Motorola, _____	1	<input checked="checked" type="checkbox"/> 2	3	4
2. Use of screen reader	<input checked="checked" type="checkbox"/> 1	Talkback, Voiceover, _____	<input checked="checked" type="checkbox"/> 1	2	3	4
3. Available Wi-Fi/Data internet at home	<input checked="checked" type="checkbox"/> 1	Airtel, Idea, Vodafone, Excitel, hotspot <u>Jio</u>	<input checked="checked" type="checkbox"/> 1	2	3	4
4. Regular power supplies/Power source at home	<input checked="checked" type="checkbox"/> 1	Inverter, power bank, _____	1	2	<input checked="checked" type="checkbox"/> 3	4
5. Apps that can read bilingual/multiple language	<input checked="checked" type="checkbox"/> 1	Vocalizer, Eloquence Text to Speech app, _____	<input checked="checked" type="checkbox"/> 1	2	3	4
6. Understanding English	<input checked="checked" type="checkbox"/> 1	_____	1	<input checked="checked" type="checkbox"/> 2	3	4
7. Getting help from on the use of smartphone	<input checked="checked" type="checkbox"/> 1	Healthcare, Family, Peers, _____	<input checked="checked" type="checkbox"/> 1	2	3	4
8. Financial supports from any other agency/NGO	<input checked="checked" type="checkbox"/> 1	Govt. NGO, Pvt. NGO, Semi-govt. NGO, Intl. NGO, Family, Donor	<input checked="checked" type="checkbox"/> 1	2	3	4 - Laptop
9. Using headphone	<input checked="checked" type="checkbox"/> 1	For calling, education, talkback, voiceover, _____	1	<input checked="checked" type="checkbox"/> 2	3	4
10. Others if any		_____				

During COVID-19 Pandemic

D. Challenges that you encountered, while using smartphone?

(How frequently do you face/feel it)

- | | Yes=1, No/Never=2 | Tick/Mention |
|--|--|---|
| 1. At the begging, have you ever felt hesitation or reluctant for smartphone | <input checked="checked" type="checkbox"/> 1 | Not applicable / Rarely / Sometimes / very often / always |
| 2. Unlocking the smartphones | <input checked="checked" type="checkbox"/> 2 | Not applicable / Rarely / Sometimes / very often / always |
| 3. My screen reader is slow | <input checked="checked" type="checkbox"/> 1 | Not applicable / Rarely / Sometimes / very often / always |

- | | |
|---|---|
| 4. My special app is unresponsive | <input checked="" type="checkbox"/> 1 Not applicable / Rarely / Sometimes / very often / always |
| 5. Not understanding the meaning of a specific sound | <input checked="" type="checkbox"/> 2 Not applicable / Rarely / Sometimes / very often / always |
| 6. Frequent unintentional selection of icons | <input checked="" type="checkbox"/> 1 Not applicable / Rarely / Sometimes / very often / always |
| 7. Getting lost when using a specific app/icon | <input checked="" type="checkbox"/> 1 Not applicable / Rarely / Sometimes / very often / always |
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| 11. Shortage of money to repair damaged phone | <input checked="" type="checkbox"/> 2 Not applicable / Rarely / Sometimes / very often / always |
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| 20. Facing unwanted add/advertisement when using app | <input checked="" type="checkbox"/> 1 Not applicable / Rarely / Sometimes / very often / always |
| 21. Content or labels not readable with a screen reader/special app | <input checked="" type="checkbox"/> 1 Not applicable / Rarely / Sometimes / very often / always |
| 22. Others if any _____ | |

E. How much smartphones help in doing daily living activities without support from others (In percentage %)

75-80 % (0-100)

F. How much do you think smartphones is important for your life?

☒ 1. Very Important 2. Moderately Important 3. Important 4. Not Important at all

Name of Interviewer: VIKAS

Signature of Interviewer: 