Counting people with disabilities: A comparison of estimates in Census 2000 and the Census 2000 Supplementary Survey

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Overview

- Background.
- Population characteristics.
- Deconstruction of disability rate estimates by
 - Elements included in the disability status indicator.
 - Disability rates by survey and mode.
- Conclusions and suggestions for future research.

Terminology

- Census 2000 Supplementary Survey (C2SS) a national sample of housing units administered using the American Community Survey (ACS) methodology.
- Census 2000 Sample (Census 2000) A sample of approximately 1-in-6 households with data on detailed housing and population characteristics as collected on the long form.

Population 5 years and over living in housing units.

Approximately 254.6 million people. 12.1 percent - Hispanic or Latino. 11.8 percent - Black or African American, alone. Median age was 37.

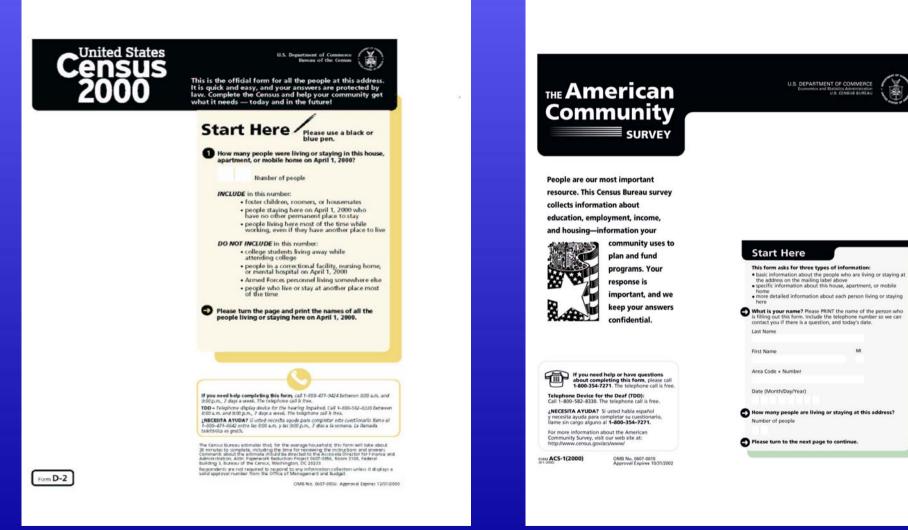
Census 2000



19.2 % with a disability. 15.6 % with a disability.

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Questionnaires



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Mailback Questionnaires

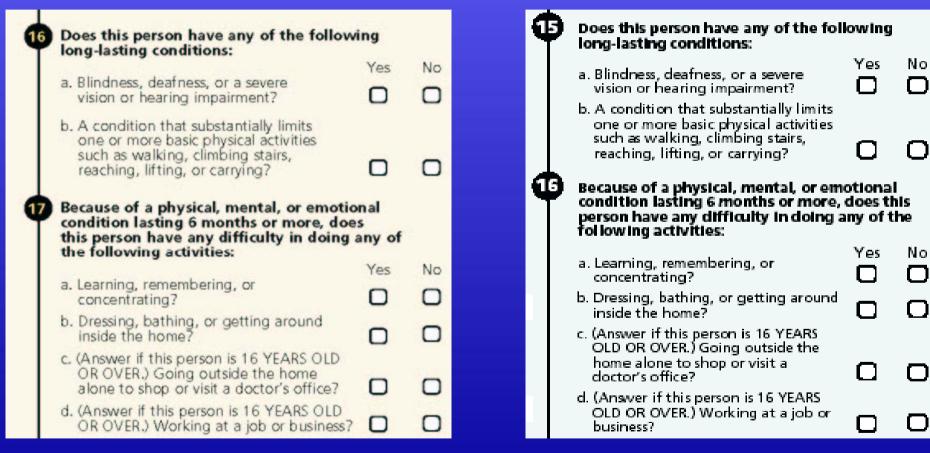
Census 2000	this person have any of his/her own jildren under the age of 18 living in this	C2SS
 b. A condition that substantially limits one or more basic physical activities such as walking, climbing stains, reaching, lifting, or carrying? Because of a physical, mental, or emotional condition lasting 6 months or more, does this person have any difficulty in doing any of 	 House drapartment? Yes: No → Skip to 20a b. Is this grandparent currently responsible for most of the basic needs of any grandchild(ren) under the age of 18 who live(s) in this house or apartment? Yes: No → Skip to 20a c. How long has this grandparent been responsible for the(se) grandchild(ren)? If the granoparent is franchold(ren)? If the granoparent has been responsible for the log and child for whom the granoparent has been responsible for the log standchild for whom the granoparent has been responsible for the log standchild for whom the granoparent has been responsible for the log standchild for whom the granoparent has been responsible for the log standchild for whom the granoparent has been responsible for the log standchild for whom the granoparent has been responsible for the log standchild for whom the granoparent has been responsible for the log standchild for the log standchi	 Person 1 Pieses copy the name of Person 1 from the statistication on page 2, then continue. Pieses copy the name of Person 1 from the statistication on page 2, then continue. Pieses copy the name of Person 1 from the statistication on page 2, then continue. Pieses copy the name of Person 1 from the statistication on page 2, then continue. Pieses copy the name of Person 1 from the statistication on page 2, then continue. Pieses copy the name of Person 1 from the statistication on page 2, then continue. Pieses copy the name of Person 1 from the statistication on page 2, then continue. Pieses copy the name of Person 1 from the statistication on page 2, then continue of statistication on page 2, then continue on the statistication on page 2, then continue of statistication on page 2, then continue on the statistication on page 2, then continue on the statistication on page 2, then continue on the statistication on page 2, then continue of statistication on page 2, then continue on the statistication on the s
the following activities: Yes No a. Learning, remembering, or concentrating? □ b. Dressing, bathing, or getting around inside the home? □ c. (Answer if this person is 16 YEARS OLD OR OVER, Going outside the home alone to shop or visit a doctor's office? □ d. (Answer if this person is 16 YEARS OLD OR OVER, Working at a job or business? □ Was this person under 15 years of age on April 1, 2000? □ Yes → Skip to 33 No	b. When did this person serve on active duty in the U.S. Armed Forces? Mark ② a box for EACH period in which this person served. □ April 1995 or later □ August 1990 to March 1995 (including Persian Gulf War) □ September 1980 to July 1990 □ May 1975 to August 1980	 No. not a disen of the United State: When did this person come to live in the United State: Year. We will do share in boxes. Year A trany time in Thie LAST 3 MONTHS, has this person standard regular school of collego? Mode on for one or or person attended for least 3 to grade the state of the state of

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Mailback Questionnaires – Disability Items

C2SS

Census 2000



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Census 2000 Enumerator Questionnaire

14. (Ar 15. Wh Ye 16a. Dic Sy 0	here (were youlwas) born? In the United States – Print name of state. Outside the United States – Print name of foreign country, or Puerto Rico, Guam, etc. Preyouls) a CITIZEN of the United States? Yes, born in the United States – Skip to 76a Yes, born in Puerto Rico, Guam, the U.S. Vigin Islands, or Northern Marianas Yes, U.S. citizen by naturalization No, not a citizen of the United States at year did (youl) come to live in the United States? at d (youl) live in this (house/apartment) rears ago (on April 1, 1993)? Person is under 5 years old – Skip to 34 Yes, this house – Skip to 17 No, outside the United Rises. – Print name of foreign country, or Puerto Rico, Guam, etc. below; then skip to 17.	18. 18a. 18b. 18c.	A condition that substantially limits one or more basic physical activities such as walking, dimbing stairs, reaching, lifting, or carrying? Yes
14. (Ar 15. Wh Yes 16a. Dia Sy	country, or Puerto Rico, Guam, etc. Tey outls) a CTIZEN of the United States? Yes, born in the United States — Sicjo to T6a Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas Yes, U.S. citizen by naturalization No, not a Citizen of the United States hat year did (you/) come to live in the United States? ar d (you/) live in this (house/apartment) rears ago (on April 1, 1995)? Person is under 5 years old — Skip to 34 Yes, this house — Skip to 17 No, outside the United States. – Print name of foreign	18a. 18b. 18c. 18d.	Because of a physical, mental, or emotional condition lasting 6 months or more, (do youldoes) have any difficulty in doing any of the following activities: Learning, remembering, or concentrating? Yes No Dressing, bathing, or getting around inside the home? Yes No ASK if this person is 16 YEARS OLD OR OVER. Going outside the home alone to shop or visit a doctor's office? Yes No ASK if this person is 16 YEARS OLD OR OVER. Working at a job or business? Yes No INTERVIEWER INSTRUCTION - Refer to question 4 on page 3 to mark a response bax below.
14. (Ar 15. Wh Yes 16a. Dia Sy	country, or Puerto Rico, Guam, etc. Tey outls) a CTIZEN of the United States? Yes, born in the United States — Sicjo to T6a Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas Yes, U.S. citizen by naturalization No, not a Citizen of the United States hat year did (you/) come to live in the United States? ar d (you/) live in this (house/apartment) rears ago (on April 1, 1995)? Person is under 5 years old — Skip to 34 Yes, this house — Skip to 17 No, outside the United States. – Print name of foreign	18a. 18b. 18c. 18d.	lasting 6 months or more, (do youldoes,) have any difficulty in doing any of the following activities: Learning, remembering, or concentrating? Y8 N0 Dressing, bathing, or getting around inside the home? Y8 N0 ASX if this person is 16 YEARS OLD OR OVER. Going outside the home alone to shop or visit a doctr's office? Yes N0 ASX if this person is 16 YEARS OLD OR OVER. Working at a job or business? Yes N0 NITERVIEWER INSTRUCTION - Refer to question 4 on mark a response bax below.
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15. wh Yes 16a. pic 5 y	Yes, U.S. citizen by naturalization Yes, U.S. citizen by naturalization No, not a citizen of the United States hat year did (you/) come to live in the United States? ar d (you/) live in this (house/apartment) rears ago (on April 1, 1995)? Person is under 5 years old → Skip to 34 Yes, this house → Skip to 17 No, outside the United States - Print name of foreign	18d.	ASK If this person is 16 YEARS OLD OR OVER. Going outside the home alone to shop or visit a doctor's office? □ Yes □ No ASK If this person is 16 YEARS OLD OR OVER. Working at a job or business? □ Yes □ No INTERVIEWER INSTRUCTION - Refer to question 4 on page 3 to mark a response box below.
15. wh Yes 16a. pic 5 y	No, not a citizen of the United States hat year did (you/) come to live in the United States? ar d (you/) live in this (house/apartment) ears ago (on April 1, 1995)? Person is under 5 years old → Skip to 34 Yes, this house → Skip to 17 No, outside the United States - Print name of foreign	18d.	Going outside the home alone to shop or visit a doctor's office?
16a. pic 5 y	ar d (you',) live in this (house/apartment) rears ago (on April 1, 1995)? Person is under 5 years old → Skip to 34 Yes, this house → Skip to 17 No, outside the United States – Print name of foreign		ASK if this person is 16 YEARS OLD OR OVER. Working at a job or business? I yes No INTERVIEWER INSTRUCTION - Refer to question 4 on page 3 to mark a response box below.
16a. pic 5 y	d (you!) live in this (house/apartment) rears ago (on April 1, 1995)? Person & under 5 years old → <i>Skip to 34</i> Yes, this house → <i>Skip to 17</i> No, outside the United States – <i>Print name of foreign</i>		Working at a job or business? Yes No INTERVIEWER INSTRUCTION – Refer to question 4 on page 3 to mark a response box below.
5 y	ears ago (on April 1, 1995)? Person is under 5 years old → Skip to 34 Yes, this house → Skip to 17 No, outside the United States - Print name of foreign	19.	INTERVIEWER INSTRUCTION – Refer to question 4 on page 3 to mark a response box below.
5 y	ears ago (on April 1, 1995)? Person is under 5 years old → Skip to 34 Yes, this house → Skip to 17 No, outside the United States - Print name of foreign	19.	page 3 to mark a response box below.
	Yes, this house → Skip to 17 No, outside the United States – Print name of foreign		Rom on or before April 1, 1985 or at least age 15 by
	country, or Puerto Rico, Guam, etc. below; then skip to 17.		April 1, 2000 - Ask 20a
			□ Born after April 1, 1985 → Sk/p to 34
	No. different house in the United States		If question 4 is blank. ASK – (Were you/Was) under 15 years of age on April 1, 2000?
			Yes → Skip to 34 No - Ask 20a
	here did (you/) live 5 years ago? ame of city, town, or post office?	20a.	(Do you/Does) have any of (your/his/her) own grandchildren under the age of 18 living in this (house/apartment)?
			(nouse/apartment)/
	d (you/) live inside the limits of that city or town?	70b	(Are youls) currently responsible for most of the
_	Yes No, outside the city/town limits ame of county?	200.	who live(s) in this (house/apartment)?
			Yes No \Rightarrow Skip to 21a
Na	ame of state?	20c.	How long (have you/has) been responsible for the(se) grandchild(ren)? If more than one grandchild lives with (you/), answer the question for the
			grandchild for whom (you have/ has) been financially
w	hat was the ZIP Code?		responsible for the longest period of time.
			6 to 11 months
17. (0)	o you/Does) have any of the following		1 or 2 years
	o you/Does) have any of the following ng-lasting conditions:		3 or 4 years
im	indness, deafness, or a severe vision or hearing pairment?		S years or more
U	Yes No		
			Terrar Concernant Anna A

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Enumerator Questionnaire – Person 1

17b. A condition that substantially limits one or more basic physical activities such as walking, climbing stairs, reaching, lifting, or carrying? T Yes No. 18. Because of a physical, mental, or emotional condition lasting 6 months or more. (do you/does . . .) have any difficulty in doing any of the following activities: 17. (Do you/Does . . .) have any of the following 18a. Learning, remembering, or concentrating? long-lasting conditions: T Yes D No 17a. Blindness, deafness, or a severe vision or hearing impairment? 18b. Dressing, bathing, or getting around inside the home? 1 Yes No No. 1 Yes 18c. ASK if this person is 16 YEARS OLD OR OVER. Going outside the home alone to shop or visit a doctor's office? T No Yes 1 18d. ASK if this person is 16 YEARS OLD OR OVER. Working at a job or business? Yes D No

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Enumerator Questionnaire – Person 2

- 17. (Do you/Does . . .) have any of the following long-lasting conditions:
- 17a. Blindness, deafness, or a severe vision or hearing impairment?

	Yes
٦	No

17b. A condition that substantially limits one or more basic physical activities such as walking, climbing stairs, reaching, lifting, or carrying?

Yes
No

- 18. Because of a physical, mental, or emotional condition lasting 6 months or more, (do you/does . . .) have any difficulty in doing any of the following activities:
- 18a. Learning, remembering, or concentrating?

Yes
No

- 18b. Dressing, bathing, or getting around inside the home?
 - Ves No

18c. ASK if this person is 16 YEARS OLD OR OVER. Going outside the home alone to shop or visit a doctor's office?

Yes
No

18d. ASK if this person is 16 YEARS OLD OR OVER. Working at a job or business?

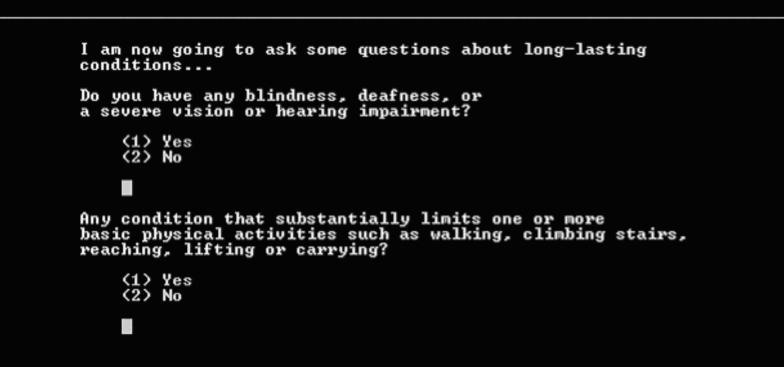
Yes
No

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C2SS CATI/CAPI - Screen 1

C:\WINNT\System32\cmd.exe

Caseid: 00000031 Item: P150a

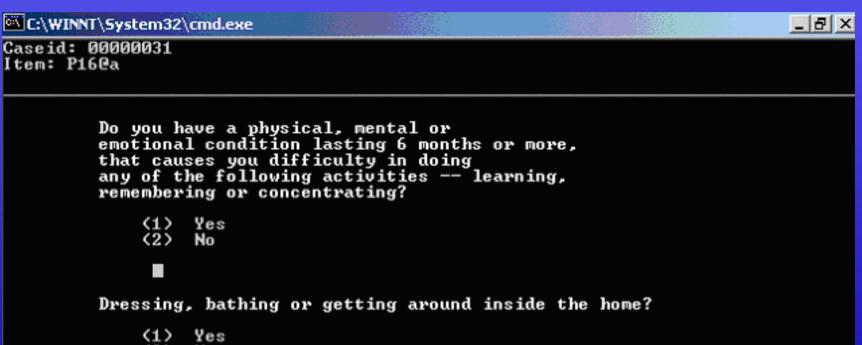


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C2SS CATI/CAPI - Screen 2

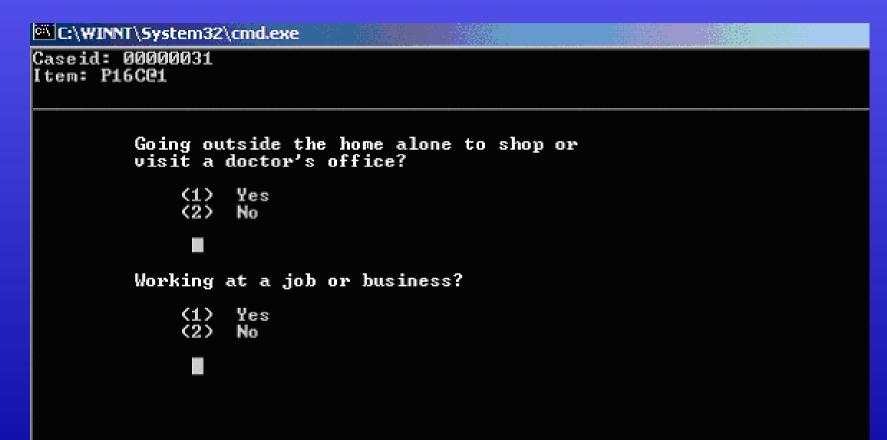


(2) No

1

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C2SS CATI/CAPI - Screen 3

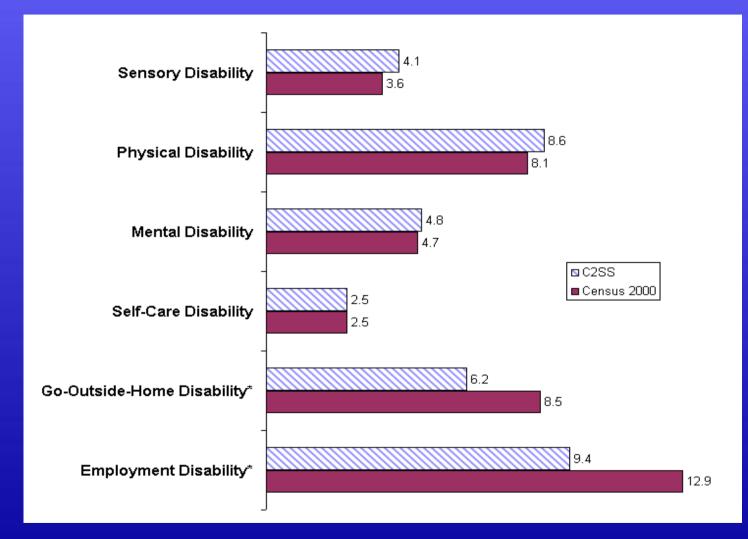


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Possible effects of question presentation

- Respondents forget the context.
- Long lead-ins include too many complicated elements.
- Respondents misunderstand the skip instructions.
- Enumerators/interviewers misplace the emphasis when asking the questions.

Disability Rates by Survey



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Proportion of the population by mode

<u>Census 2000</u>

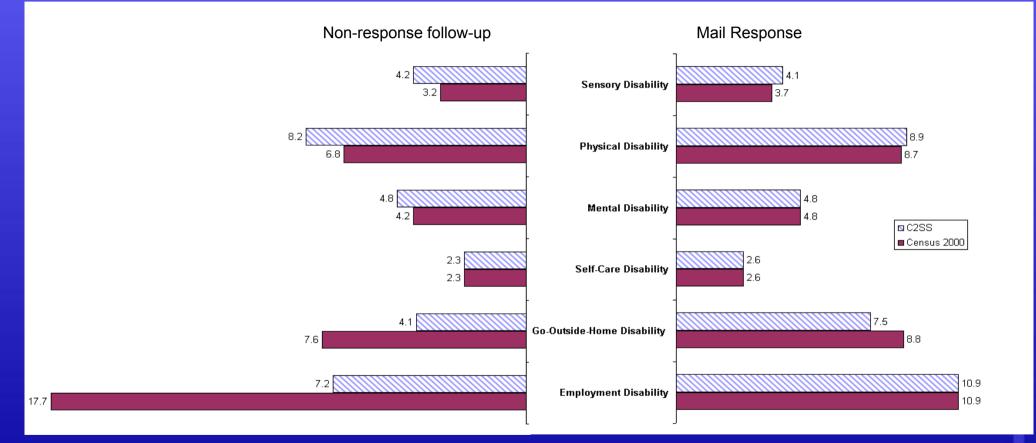
- Mail-response = 71%
- Enumerator response
 = 29%

<u>C2SS</u>

- Mail-response = 59%
- Interviewer response
 = 41%

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Disability Rates by Survey and Mode



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Employment Rates by Type of Disability by Survey and Mode (People 21-64 Years Old)



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Conclusions

- Divergent disability rates demonstrate sensitivity in measurement.
- Sensory, physical, mental, and self-care disability has similar prevalence.
- People may have misunderstood the skip instructions on the paper forms.
- High employment disability and employment rates for people with an employment disability suggest possible problem with Census 2000 enumerator interview and instrument.
- More research needed.

Future Research

- Analysis of data available now.
 - ACS sites.
 - ACS 2001, 2002.
- Testing and validating of new questions optimized for the data collection mode.
- ACS 2003

ACS 2003 Questionnaire

Answer questions 15 and 16 ONLY IF this person is 5 years old or over. Otherwise, SKIP to the questions for PERSON 2 on page 10.

Does this person have any of the following long-lasting conditions:

- a. Blindness, deafness, or a severe vision or hearing impairment?
- b. A condition that substantially limits one or more basic physical activities such as walking, climbing stairs, reaching, lifting, or carrying?
- Because of a physical, mental, or emotional condition lasting 6 months or more, does this person have any difficulty in doing any of the following activities:
- a. Learning, remembering, or concentrating?
- b. Dressing, bathing, or getting around inside the home?

Answer question 17 ONLY IF this person is 15 years old or over. Otherwise, SKIP to the questions for PERSON 2 on page 10.



Yes

П

Yes

п

No

П

No

П

Because of a physical, mental, or emotional condition lasting 6 months or more, does this person have any difficulty in doing any of the following activities:

a. Going outside the home alone to shop or visit a doctor's office?

es	No

b. Working at a job or business?

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Thank you

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