

# Disabled people's Transport Behaviour: Secondary analysis of NTS 2024 Technical Appendix

**Authors:** Florence Trégan, Hannah Brearley-Bayliss, Claudia Nashef, Hannah Morgan,  
Sokratis Dinos

**August 2026**

Commissioned by the Motability Foundation and the Royal National Institute of Blind People

# Disabled people’s transport behaviour – a secondary analysis of NTS 2024: Technical Appendix

This technical appendix includes further details on the derived variables created for the purpose of this report and the full outputs generated in the multivariable analysis.

## Weighting applied<sup>1</sup>

The National Travel Survey comes with a range of weights for different purposes. The weight used for this report was the interview sample weight. This includes all households where everybody eligible to take part in an interview participated in one. This weight included the following stages:

- The interview sample weights were calculated to correct for unequal probabilities of selection in the survey design. Each sampled address was assigned an initial weight based on its chance of being selected within the multi-stage sampling framework. This ensured that households in less frequently sampled areas were appropriately represented in the data.
- **Weighting for household participation:** The aim of the household participation weights is to attempt to reduce bias caused by systematic differences between the households that participated in NTS and those that did not. To generate the non-response weights, a logistic regression model was fitted with whether or not an eligible household participated as the outcome measure and terms associated with household participation as the covariates (region, rural-urban classification, Output Area Classification supergroups 2021 and month that address was issued).
- **Weighting for the removal of households with missing individual interviews.** The aim of these weights is to reduce the bias from the removal of households that did not have a completed individual interview for all household members. This ensured that the achieved individual sample better reflected the population profile.
- **Calibration weighting** Finally, the interview weights were calibrated to external population benchmarks. The weighted totals were aligned with mid-year population estimates by key variables, including age, sex and region. This calibration ensured that the final interview sample matched known population distributions.

## Derived Variables

A number of variables were recoded for the purpose of this report and these changes are recorded below. These derived variables group answer categories from survey questions for the purpose of analysis. The table below shows the derived variable, the original name from the NTS dataset, and the final answer categories.

|                                    |
|------------------------------------|
| <b>Table A1: Derived variables</b> |
|------------------------------------|

<sup>1</sup> Full details of survey weighting can be found in the NTS 2024 technical report, chapter 5 weighting. [Chapter 5 Weighting - GOV.UK](#)

| Derived variable                                                         | Original variable name(s)                                                                                         | Changes to variable and final response categories                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chapter three</b>                                                     |                                                                                                                   |                                                                                                                                                                                                                                                                                                                                    |
| Limitation from health condition                                         | LimitAct_B01ID                                                                                                    | New variable created from one variable to identify people who experience day to day limitation from their health condition: <ul style="list-style-type: none"> <li>• Yes, limited</li> <li>• No limitation</li> </ul>                                                                                                              |
| People who are disabled according to the Equality Act definition         | Healll_B01ID=1<br>LimitAct_DV                                                                                     | New variable created from two variables to identify who qualifies to meet the equalities act definition of disability: <ul style="list-style-type: none"> <li>• Yes, disability</li> <li>• No disability</li> </ul>                                                                                                                |
| People with a visual impairment who do and do not have a driving licence | Disability_DV (derived from variable outlined above Healll_B01ID and LimitAct_DV), ImpCatVision and DrivLic_B01ID | New variable created from three variables to identify who is disabled, has a visual impairment and does and does not have a driving licence: <ul style="list-style-type: none"> <li>• Visually impaired, can drive</li> <li>• Visually impaired, no driving licence</li> <li>• Not visually impaired</li> </ul>                    |
| People with a visual impairment and other impairments                    | Disability_DV<br>ImpCatVision<br>notvision                                                                        | New variable created from three variables to identify who is disabled with a visual impairment with or without other impairments: <ul style="list-style-type: none"> <li>• Disability, vision impairment only</li> <li>• Disability, vision impairment plus other impairment</li> <li>• Disability, other impairments -</li> </ul> |

|                                                                     |                                                                                                                                                                                            |                                                                                                                                                                                                |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                     |                                                                                                                                                                                            | no vision impairment <ul style="list-style-type: none"> <li>No disability</li> </ul>                                                                                                           |
| Number of health conditions people experience                       | ImpCatVision<br>ImpCatHearing<br>ImpCatMobility<br>ImpCatDexterity<br>ImpCatLearning<br>ImpCatMemory<br>ImpCatMentalHealth<br>ImpCatStamina<br>ImpCatSocial<br>ImpCatSpeech<br>ImpCatOther | New variable created to group people according to the number of impairments they experience: <ul style="list-style-type: none"> <li>One</li> <li>Two or Three</li> <li>Four or more</li> </ul> |
| Number of health conditions people experience                       | HealCount_DV (derived variable defined above)                                                                                                                                              | New variable created from derived variable to classify different number categories: <ul style="list-style-type: none"> <li>One</li> <li>Two or more</li> </ul>                                 |
| Whether disabled and has a cognitive health condition               | Disability_DV<br>ImpCat (ImpCatMemory, ImpCatLearning, and ImpCatSocial)                                                                                                                   | New variable created from three categories to identify people with a cognitive impairment: <ul style="list-style-type: none"> <li>Cognitive</li> <li>No</li> </ul>                             |
| Whether disabled and has a health condition affecting communication | Disability_DV<br>ImpCat (ImpCatHearing and ImpCatSpeech)                                                                                                                                   | New variable created from two categories to identify people with a communication impairment: <ul style="list-style-type: none"> <li>Hearing or speech</li> <li>No</li> </ul>                   |
| Whether disabled and has a visual impairment                        | Disability_DV<br>ImpCat (ImpCatVision)                                                                                                                                                     | New variable created from one category to identify people with a visual impairment: <ul style="list-style-type: none"> <li>Vision</li> <li>No</li> </ul>                                       |
| Whether disabled and has a health condition affecting mobility      | Disability_DV<br>ImpCat (ImpCatMobility)                                                                                                                                                   | New variable created from one category to identify people with an impairment that affects mobility: <ul style="list-style-type: none"> <li>Mobility</li> <li>No</li> </ul>                     |
| Whether disabled and has another                                    | Disability_DV<br>ImpCat (ImpCatDexterity and ImpCatStamina)                                                                                                                                | New variable created from one category to identify people with                                                                                                                                 |

|                                                           |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type of physical condition                                |                                                                                         | other physical impairment(s): <ul style="list-style-type: none"> <li>• Other physical</li> <li>• No</li> </ul>                                                                                                                                                                                                                                                                                                                                               |
| Whether disabled and has a mental health condition        | Disability_DV<br>ImpCat (ImpCatMentalHealth)                                            | New variable created from one category to identify people with an impairment that affects mental health: <ul style="list-style-type: none"> <li>• Mental health</li> <li>• No</li> </ul>                                                                                                                                                                                                                                                                     |
| Whether disabled and has another type of health condition | Disability_DV<br>ImpCat (ImpCatOther)                                                   | New variable created from one variable to identify people with other impairment(s): <ul style="list-style-type: none"> <li>• Other impairment</li> <li>• No</li> </ul>                                                                                                                                                                                                                                                                                       |
| <b>Chapter four</b>                                       |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Granular frequency of bus use                             | OrdBus2Freq_B01ID<br>BusOut_B01ID                                                       | New variable created from two variables: <ul style="list-style-type: none"> <li>• At least once a day</li> <li>• 5 or more times a week, but not everyday</li> <li>• 3 or 4 times a week</li> <li>• Once or twice a week</li> <li>• Less than that but than twice a month</li> <li>• Once or twice a month</li> <li>• Less than that but more than twice a year</li> <li>• Once or twice a year</li> <li>• Less than once a year</li> <li>• Never</li> </ul> |
| Frequency of bus use                                      | BusfreqBusOut_DV (derived variable outlined above, from OrdBus2Freq_B01ID BusOut_B01ID) | New variable created from one variable: <ul style="list-style-type: none"> <li>• At least once a week</li> <li>• Less than once per week but at least once a month</li> </ul>                                                                                                                                                                                                                                                                                |

|                          |                    |                                                                                                                                                                                                                                                                                           |
|--------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |                    | <ul style="list-style-type: none"> <li>• Less than once a month but at least once a year</li> <li>• Less than once a year or never</li> </ul>                                                                                                                                             |
| Frequency of scooter use | EScooterFreq_B01ID | <p>New variable created from one variable:</p> <ul style="list-style-type: none"> <li>• At least once a week</li> <li>• Less than once per week but at least once a month</li> <li>• Less than once a month but at least once a year</li> <li>• Less than once a year or never</li> </ul> |
| Frequency of train use   | Train2Freq_B01ID   | <p>New variable created from one variable:</p> <ul style="list-style-type: none"> <li>• At least once a week</li> <li>• Less than once per week but at least once a month</li> <li>• Less than once a month but at least once a year</li> <li>• Less than once a year or never</li> </ul> |
| Frequency of coach use   | Coach2Freq_B01ID   | <p>New variable created from one variable:</p> <ul style="list-style-type: none"> <li>• At least once a week</li> <li>• Less than once per week but at least once a month</li> <li>• Less than once a month but at least once a year</li> <li>• Less than once a year or never</li> </ul> |
| Frequency of taxi use    | TaxiCab2Freq_B01ID | <p>New variable created from one variable:</p>                                                                                                                                                                                                                                            |

|                                   |                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   |                                                             | <ul style="list-style-type: none"> <li>• At least once a week</li> <li>• Less than once per week but at least once a month</li> <li>• Less than once a month but at least once a year</li> <li>• Less than once a year or never</li> </ul>                                                                                                                                                                                                                  |
| Frequency of plane use            | Plane2Freq_B01ID                                            | <p>New variable created from one variable:</p> <ul style="list-style-type: none"> <li>• At least once a week</li> <li>• Less than once per week but at least once a month</li> <li>• Less than once a month but at least once a year</li> </ul> <p>Less than once a year or never</p>                                                                                                                                                                       |
| Granular frequency of bicycle use | Bicycle3Freq_B01ID<br>Cycle12_B01ID                         | <p>New variable created from two variables:</p> <ul style="list-style-type: none"> <li>• At least once a day</li> <li>• 5 or more times a week, but not everyday</li> <li>• 3 or 4 times a week</li> <li>• Once or twice a week</li> <li>• Less than that but than twice a month</li> <li>• Once or twice a month</li> <li>• Less than that but more than twice a year</li> <li>• Once or twice a year</li> <li>• Less than once a year or never</li> </ul> |
| Frequency of bicycle use          | CyclefrequCycle12_DV (derived variable outlined above, from | New variable created from one variable:                                                                                                                                                                                                                                                                                                                                                                                                                     |

|                               |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | Bicycle3Freq_B01ID<br>Cycle12_B01ID)                                                      | <ul style="list-style-type: none"> <li>• At least once a week</li> <li>• Less than once per week but at least once a month</li> <li>• Less than once a month but at least once a year</li> <li>• Less than once a year or never</li> </ul>                                                                                                                                                                                                                  |
| Granular frequency of walking | Walk2Freq_B01ID<br>FootOut_B01ID                                                          | <p>New variable created from two variables:</p> <ul style="list-style-type: none"> <li>• At least once a day</li> <li>• 5 or more times a week, but not everyday</li> <li>• 3 or 4 times a week</li> <li>• Once or twice a week</li> <li>• Less than that but than twice a month</li> <li>• Once or twice a month</li> <li>• Less than that but more than twice a year</li> <li>• Once or twice a year</li> <li>• Less than once a year or never</li> </ul> |
| Frequency of walking          | WalkfrequFootOut_DV (derived variable outlined above, from Walk2Freq_B01ID FootOut_B01ID) | <p>New variable created from one variable:</p> <ul style="list-style-type: none"> <li>• At least once a week</li> <li>• Less than once per week but at least once a month</li> <li>• Less than once a month but at least once a year</li> <li>• Less than once a year or never</li> </ul>                                                                                                                                                                   |
| Frequency of private car use  | PrivCar2_B01ID                                                                            | <p>New variable created from one variable:</p>                                                                                                                                                                                                                                                                                                                                                                                                              |

|                              |               |                                                                                                                                                                                                                                                                                                   |
|------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              |               | <ul style="list-style-type: none"> <li>• At least once a week</li> <li>• Less than once per week but at least once a month</li> <li>• Less than once a month but at least once a year</li> <li>• Less than once a year or never</li> </ul>                                                        |
| Type of driving licence      | DrivLic_B01ID | Recoded variable to smaller number of categories: <ul style="list-style-type: none"> <li>• License (full or provisional)</li> <li>• No driving license</li> </ul>                                                                                                                                 |
| <b>Chapter five</b>          |               |                                                                                                                                                                                                                                                                                                   |
| Age categories               | Age_B01ID     | New variable created to group ages: <ul style="list-style-type: none"> <li>• 18 to 29</li> <li>• 30 to 49</li> <li>• 50 to 64</li> <li>• 65 to 74</li> <li>• 75+'</li> </ul>                                                                                                                      |
| Ethnicity categories         | EthGrp2_B01ID | New variable created to group ethnicities: <ul style="list-style-type: none"> <li>• Asian, Asian British, or Asian Welsh</li> <li>• Black, Black British, Black Welsh, Caribbean, or African</li> <li>• Mixed or Multiple ethnic groups</li> <li>• White</li> <li>• Other ethnic group</li> </ul> |
| Economic activity categories | EcoStat_B03ID | New variable created to group economic activity: <ul style="list-style-type: none"> <li>• Working full or part time</li> <li>• Economically inactive</li> </ul>                                                                                                                                   |

|                                                            |                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Household structure categories                             | HHoldStruct_B03ID                                                                                                                                                                                                                                                                                                          | <p>New variable created to group household structure:</p> <ul style="list-style-type: none"> <li>• Single adult</li> <li>• Multiple adults, no children</li> <li>• Single parent family</li> <li>• Two or more adults and children</li> </ul>                                                                                                                                                                                                                                            |
| Difficulties travelling to places other than work (binary) | Difficulties_doctors<br>Difficulties_hospital<br>Difficulties_friends<br>Difficulties_social<br>Difficulties_childschool<br>Difficulties_education<br>Difficulties_other                                                                                                                                                   | <p>New variable created from answer option variables for difficulties to places other than work to identify if someone experiences difficulties in at least one area (binary):</p> <ul style="list-style-type: none"> <li>• Difficulties travelling (non-work)</li> <li>• No difficulties travelling</li> </ul>                                                                                                                                                                          |
| Types of difficulties travelling to places other than work | YDiff1Far<br>YDiff1PublicTransportImpos<br>YDiff1PublicTransportReli<br>YDiff1PublicTransportCost<br>YDiff1PublicTransportInfo<br>YDiff1PoorConnection<br>YDiff1PublicTransportUnpleas<br>YDiff1NoLicence<br>YDiff1Petrol<br>YDiff1ParkFac<br>YDiff1ParkCost<br>YDiff1Health<br>YDiff1Safe<br>YDiff1Traffic<br>YDiff1Other | <p>New variable created with type of difficulty people experiencing difficulties travelling to places other than work:</p> <ul style="list-style-type: none"> <li>• Too far or long journey</li> <li>• Journey not possible by public transport</li> <li>• Unreliable public transport</li> <li>• Cost of using public transport or taxis</li> <li>• Poor information about public transport services</li> <li>• Poor connection</li> <li>• Finds public transport unpleasant</li> </ul> |

|                                                     |                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                     |                                                                                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>• Don't have current driving licence or can't drive</li> <li>• Cost of petrol</li> <li>• Lack of parking facilities</li> <li>• Cost of parking</li> <li>• Personal health condition or illness</li> <li>• Concerns over personal safety</li> <li>• Traffic, congestion or roadworks</li> <li>• Other</li> </ul> |
| Difficulties travelling to work by car (binary)     | CarWFar<br>CarWCarUnavail<br>CarWNoDrive<br>CarWPetrol<br>CarWParkFac<br>CarWParkCost<br>CarWTraffic<br>CarWPublicTransportBad<br>CarWPublicTransportCost<br>CarWHealth<br>CarWSafe<br>CarWOther                                                                     | New variable created from answer option variables for difficulties to work (binary): <ul style="list-style-type: none"> <li>• Difficulties with transport to work, by car</li> <li>• No difficulties with transport to work, by car</li> </ul>                                                                                                         |
| Difficulties travelling to work not by car (binary) | OthWFar<br>OthWPublicTransportImpos<br>OthWPublicTransportReli<br>OthWPublicTransportCost<br>OthWPublicTransportInfo<br>OthWPublicPoorConnection<br>OthWPublicTransportUnpleas<br>OthWHealth<br>OthWSafe<br>OthWTraffic<br>OthWNoCycLane<br>OthWWeather<br>OthWOther | New variable created from answer option variables for difficulties to work (binary): <ul style="list-style-type: none"> <li>• Difficulties with transport to work, by other modes of transport</li> <li>• No difficulties with transport to work, by other modes of transport</li> </ul>                                                               |
| <b>Chapter seven</b>                                |                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                        |
| Use of online services (binary)                     | OnlinePlanAdvance<br>OnlineJourneyInformation<br>OnlinePurchasingMainlineTickets<br>OnlinePurchasingOtherTrainTickets<br>OnlinePurchaseFerryTickets<br>OnlinePurchaseBusTickets<br>OnlinePurchaseAirTickets<br>OnlineCheckInFlight                                   | New variable created from answer option variables for use of online services (binary): <ul style="list-style-type: none"> <li>• Yes, used online services</li> </ul>                                                                                                                                                                                   |

|                                                           |                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                           | OnlineTransportAdmin<br>OnlineBookTaxi<br>OnlineCarParking<br>OnlineHireCar<br>OnlineOther                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>No, did not use online services</li> </ul>                                                                                                                                                                                                                              |
| Number of types of transport related online services used | OnlinePlanAdvance<br>OnlineJourneyInformation<br>OnlinePurchasingMainlineTickets<br>OnlinePurchasingOtherTrainTickets<br>OnlinePurchaseFerryTickets<br>OnlinePurchaseBusTickets<br>OnlinePurchaseAirTickets<br>OnlineCheckInFlight<br>OnlineTransportAdmin<br>OnlineBookTaxi<br>OnlineCarParking<br>OnlineHireCar<br>OnlineOther | New variable created from answer options for number of online services used: <ul style="list-style-type: none"> <li>Zero</li> <li>One</li> <li>Two</li> <li>Three</li> <li>Four</li> <li>Five</li> <li>Six</li> <li>Seven</li> <li>Eight</li> <li>Nine</li> <li>Ten</li> <li>Eleven</li> <li>Twelve</li> </ul> |

## Sample profile

The table below shows the weighted sample profile of **the NTS 2024 across the key demographic variables used in this analysis.**

| Table B1: Sample profile for age |                 |                     |               |
|----------------------------------|-----------------|---------------------|---------------|
| Base: all respondents.           |                 |                     |               |
| Age                              | Disabled people | Non-disabled people | Total         |
| 18 to 29                         | 11%             | 20%                 | 18%           |
| 30 to 49                         | 20%             | 37%                 | 34%           |
| 50 to 64                         | 27%             | 24%                 | 25%           |
| 65 to 74                         | 18%             | 11%                 | 12%           |
| 75+                              | 24%             | 8%                  | 11%           |
| <i>Unweighted base</i>           | <i>3,189</i>    | <i>12,969</i>       | <i>16,326</i> |
| <i>Weighted base</i>             | <i>3,036</i>    | <i>13,516</i>       | <i>16,742</i> |

| Table B2: Sample profile for sex |
|----------------------------------|
| Base: all respondents.           |

| Sex                    | Disabled people | Non-disabled people | Total         |
|------------------------|-----------------|---------------------|---------------|
| Male                   | 41%             | 50%                 | 48%           |
| Female                 | 59%             | 50%                 | 52%           |
| <i>Unweighted base</i> | <i>3,186</i>    | <i>12,965</i>       | <i>16,319</i> |
| <i>Weighted base</i>   | <i>3,030</i>    | <i>13,512</i>       | <i>16,732</i> |

| Table B3: Sample profile for ethnicity                   |                 |                     |               |
|----------------------------------------------------------|-----------------|---------------------|---------------|
| Base: all respondents.                                   |                 |                     |               |
| Ethnicity                                                | Disabled people | Non-disabled people | Total         |
| Asian, Asian British, or Asian Welsh                     | 6%              | 12%                 | 11%           |
| Black, Black British, Black Welsh, Caribbean, or African | 3%              | 4%                  | 4%            |
| Mixed or Multiple ethnic groups                          | 1%              | 2%                  | 2%            |
| White                                                    | 88%             | 80%                 | 81%           |
| Other ethnic group                                       | 1%              | 2%                  | 2%            |
| <i>Unweighted base</i>                                   | <i>3,185</i>    | <i>12,961</i>       | <i>16,314</i> |
| <i>Weighted base</i>                                     | <i>3,032</i>    | <i>13,506</i>       | <i>16,728</i> |

| Table B4: Sample profile for area type |                 |                     |               |
|----------------------------------------|-----------------|---------------------|---------------|
| Base: all respondents.                 |                 |                     |               |
| Area type                              | Disabled people | Non-disabled people | Total         |
| Rural                                  | 16%             | 16%                 | 16%           |
| Urban                                  | 84%             | 84%                 | 84%           |
| <i>Unweighted base</i>                 | <i>3,189</i>    | <i>12,969</i>       | <i>16,326</i> |
| <i>Weighted base</i>                   | <i>3,036</i>    | <i>13,516</i>       | <i>16,742</i> |

| Table B5: Sample profile for economic activity |                 |                     |       |
|------------------------------------------------|-----------------|---------------------|-------|
| Base: all respondents.                         |                 |                     |       |
| Economic activity                              | Disabled people | Non-disabled people | Total |
| Working full or part time                      | 28%             | 71%                 | 63%   |

|                        |       |        |        |
|------------------------|-------|--------|--------|
| Economically inactive  | 72%   | 29%    | 37%    |
| <i>Unweighted base</i> | 3,186 | 12,956 | 16,261 |
| <i>Weighted base</i>   | 3,033 | 13,502 | 16,667 |

| Table B6: Sample profile for household structure |                 |                     |        |
|--------------------------------------------------|-----------------|---------------------|--------|
| Base: all respondents.                           |                 |                     |        |
| Household Structure                              | Disabled people | Non-disabled people | Total  |
| Single adult                                     | 31%             | 12%                 | 15%    |
| Multiple adults, no children                     | 52%             | 55%                 | 55%    |
| Single parent family                             | 3%              | 2%                  | 2%     |
| Two or more adults and children                  | 14%             | 31%                 | 28%    |
| <i>Unweighted base</i>                           | 2,956           | 12,378              | 15,497 |
| <i>Weighted base</i>                             | 2,879           | 13,122              | 16,187 |

| Table B7: Sample profile for household income |                 |                     |        |
|-----------------------------------------------|-----------------|---------------------|--------|
| Base: all respondents.                        |                 |                     |        |
| Household income                              | Disabled people | Non-disabled people | Total  |
| Less than £25,000                             | 42%             | 17%                 | 22%    |
| £25,000 to £49,999                            | 29%             | 24%                 | 25%    |
| £50,000 and over                              | 29%             | 59%                 | 54%    |
| <i>Unweighted base</i>                        | 3,189           | 12,967              | 16,296 |
| <i>Weighted base</i>                          | 3,036           | 13,513              | 16,709 |

| Table B8: Sample profile for Index of Multiple Deprivation |                 |                     |       |
|------------------------------------------------------------|-----------------|---------------------|-------|
| Base: all respondents.                                     |                 |                     |       |
| Index of Multiple Deprivation                              | Disabled people | Non-disabled people | Total |
| 1 (most deprived)                                          | 27%             | 18%                 | 20%   |
| 2                                                          | 20%             | 19%                 | 19%   |
| 3                                                          | 22%             | 21%                 | 21%   |
| 4                                                          | 17%             | 21%                 | 21%   |
| 5 (least deprived)                                         | 14%             | 21%                 | 20%   |

|                        |       |        |        |
|------------------------|-------|--------|--------|
| <i>Unweighted base</i> | 3,189 | 12,969 | 16,326 |
| <i>Weighted base</i>   | 3,036 | 13,516 | 16,742 |

## Multivariable analysis

We used a combination of logistic regression and multinomial regression models to analyse the NTS 2024 data. These multivariable methods are designed to allow relationships between a number of characteristics to be analysed simultaneously and were used to explore the relationship between travel behaviour and disability status and travel behaviour and a range of impairment types, whilst taking into account demographic characteristics.

For both the logistic and multinomial models, a range of predictor variables were regressed on key outcomes. The resulting models allow us to assess the strength and nature of the relationship between each single predictor variable and the key outcome while holding all remaining predictor variables constant. Logistic regression is used where the outcome is binary and multinomial regression is used where the key outcome had three categories.

The outcomes used in the regression models were

- Access to a car within the household (combining those who had a car in their household and were main drivers, other drivers or non-drivers vs drivers/non-drivers without a car in the household);
- Whether experienced difficulties travelling to work (yes or no);
- Whether experienced difficulties travelling for non-work reasons, such as visiting a doctor (yes or no); and
- Frequency of travel by private car, bus, train, and taxi (3 categories of at least once a week, less than once a week but more than once a year, less than once a year or never).

We ran the regression analysis in two stages. First, we modelled outcomes for the whole population, including disability status alongside with key demographic variables (gender, age, ethnicity, area type, economic activity status, household type, household income, IMD). This tested whether disability remained associated with travel outcomes once other characteristics were held constant. Second, we restricted the analysis to disabled people and replaced overall disability with individual impairment indicators (cognitive, hearing or speech, visual, mobility, mental health, other physical and other impairment). This two-stage approach avoided multicollinearity and allowed clearer interpretation of differences between impairment types. The same demographic variables were included in each model.

The tables below contain the outputs from the regression models. Results for the regression models are presented as odds ratios. These show the ratio of the odds of a specific outcome occurring when a factor is present compared to when the factor is not present. For example, if the odds of the association ratio of the association between disabled and having access to a car in the household was 0.59, it would indicate that, holding all other characteristics in the model constant, a disabled person had 41% lower odds of having access to a car in their household than a non-disabled person.

## Household car access

| <b>Table C1 Logistic regression model for household car access</b> |                                                          |          |             |             |               |                           |                           |
|--------------------------------------------------------------------|----------------------------------------------------------|----------|-------------|-------------|---------------|---------------------------|---------------------------|
| <b>Stage 1 model, all respondents</b>                              |                                                          |          |             |             |               |                           |                           |
| <b>Predictor</b>                                                   |                                                          | <b>B</b> | <b>S.E.</b> | <b>Sig.</b> | <b>Exp(B)</b> | <b>95% CI<br/>(Lower)</b> | <b>95% CI<br/>(Upper)</b> |
| Disability                                                         | Disabled                                                 | -0.525   | 0.058       | <0.001      | 0.592         | 0.528                     | 0.663                     |
| Age                                                                | 18 to 29                                                 |          |             | <0.001      |               |                           |                           |
|                                                                    | 30 to 49                                                 | 0.074    | 0.067       | 0.275       | 1.076         | 0.943                     | 1.229                     |
|                                                                    | 50 to 64                                                 | 0.975    | 0.078       | <0.001      | 2.652         | 2.278                     | 3.089                     |
|                                                                    | 65 to 74                                                 | 1.109    | 0.098       | <0.001      | 3.032         | 2.503                     | 3.672                     |
|                                                                    | 75+                                                      | 0.507    | 0.095       | <0.001      | 1.661         | 1.380                     | 1.999                     |
| Sex                                                                | Female                                                   | -0.010   | 0.048       | 0.839       | 0.990         | 0.901                     | 1.088                     |
| Ethnicity                                                          | White                                                    |          |             | <0.001      |               |                           |                           |
|                                                                    | Asian, Asian British, or Asian Welsh                     | -0.402   | 0.074       | <0.001      | 0.669         | 0.579                     | 0.773                     |
|                                                                    | Black, Black British, Black Welsh, Caribbean, or African | -1.167   | 0.098       | <0.001      | 0.311         | 0.257                     | 0.377                     |
|                                                                    | Mixed or Multiple ethnic groups                          | -0.453   | 0.158       | 0.004       | 0.636         | 0.467                     | 0.866                     |
|                                                                    | Other ethnic group                                       | -1.141   | 0.146       | <0.001      | 0.320         | 0.240                     | 0.425                     |
| Economic activity                                                  | Economically inactive                                    | -0.339   | 0.062       | <0.001      | 0.712         | 0.630                     | 0.805                     |
| Household income                                                   | Lowest ('Less than £25,000')                             |          |             | <0.001      |               |                           |                           |
|                                                                    | Medium (£25,000 to £49,999)                              | 0.706    | 0.063       | <0.001      | 2.025         | 1.791                     | 2.290                     |
|                                                                    | Highest (£50,000 and over)                               | 1.166    | 0.067       | <0.001      | 3.208         | 2.812                     | 3.659                     |
| Household structure                                                | Single adult                                             |          |             | <0.001      |               |                           |                           |
|                                                                    | Multiple adults, no children                             | 1.208    | 0.063       | <0.001      | 3.346         | 2.955                     | 3.788                     |
|                                                                    | Single parent family                                     | 1.088    | 0.149       | <0.001      | 2.969         | 2.218                     | 3.973                     |
|                                                                    | Two or more adults and children                          | 1.855    | 0.084       | <0.001      | 6.390         | 5.424                     | 7.528                     |
| Urban/rural                                                        | Rural                                                    | 0.836    | 0.088       | <0.001      | 2.308         | 1.941                     | 2.745                     |
| IMD                                                                | 1 (most deprived)                                        |          |             | <0.001      |               |                           |                           |

|  |                       |        |       |        |       |       |       |
|--|-----------------------|--------|-------|--------|-------|-------|-------|
|  | 2                     | -0.004 | 0.065 | 0.955  | 0.996 | 0.878 | 1.131 |
|  | 3                     | 0.443  | 0.070 | <0.001 | 1.558 | 1.359 | 1.786 |
|  | 4                     | 0.818  | 0.079 | <0.001 | 2.265 | 1.941 | 2.642 |
|  | 5 (least<br>deprived) | 1.070  | 0.085 | <0.001 | 2.915 | 2.466 | 3.447 |
|  | Constant              | -0.692 | 0.096 | <0.001 | 0.501 |       |       |

| <b>Table C2 Logistic regression model for household car access<br/>Stage 2 model, all disabled people</b> |                                                          |          |             |             |                                |                           |                           |
|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------|-------------|-------------|--------------------------------|---------------------------|---------------------------|
| <b>Predictor</b>                                                                                          |                                                          | <b>B</b> | <b>S.E.</b> | <b>Sig.</b> | <b>Odds ratio<br/>(Exp(B))</b> | <b>95% CI<br/>(Lower)</b> | <b>95% CI<br/>(Upper)</b> |
| Age                                                                                                       | 18 to 29                                                 |          |             | <0.001      |                                |                           |                           |
|                                                                                                           | 30 to 49                                                 | 0.245    | 0.178       | 0.168       | 1.278                          | 0.902                     | 1.811                     |
|                                                                                                           | 50 to 64                                                 | 0.734    | 0.184       | <0.001      | 2.082                          | 1.453                     | 2.984                     |
|                                                                                                           | 65 to 74                                                 | 0.920    | 0.211       | <0.001      | 2.509                          | 1.659                     | 3.795                     |
|                                                                                                           | 75+                                                      | 0.357    | 0.206       | 0.083       | 1.429                          | 0.954                     | 2.139                     |
| Sex                                                                                                       | Female                                                   | -0.155   | 0.099       | 0.116       | 0.856                          | 0.706                     | 1.039                     |
| Ethnicity                                                                                                 | White                                                    |          |             | <0.001      |                                |                           |                           |
|                                                                                                           | Asian, Asian British, or Asian Welsh                     | -0.051   | 0.219       | 0.815       | 0.950                          | 0.619                     | 1.459                     |
|                                                                                                           | Black, Black British, Black Welsh, Caribbean, or African | -1.487   | 0.252       | <0.001      | 0.226                          | 0.138                     | 0.371                     |
|                                                                                                           | Mixed or Multiple ethnic groups                          | -0.587   | 0.350       | 0.093       | 0.556                          | 0.280                     | 1.103                     |
|                                                                                                           | Other ethnic group                                       | -0.858   | 0.389       | 0.027       | 0.424                          | 0.198                     | 0.908                     |
| Economic activity                                                                                         | Economically inactive                                    | -0.648   | 0.134       | <0.001      | 0.523                          | 0.402                     | 0.681                     |
| Household income                                                                                          | Lowest ('Less than £25,000')                             |          |             | <0.001      |                                |                           |                           |
|                                                                                                           | Medium (£25,000 to £49,999)                              | 0.501    | 0.117       | <0.001      | 1.651                          | 1.311                     | 2.078                     |
|                                                                                                           | Highest (£50,000 and over)                               | 1.139    | 0.148       | <0.001      | 3.124                          | 2.338                     | 4.174                     |
| Household structure                                                                                       | Single adult                                             |          |             | <0.001      |                                |                           |                           |
|                                                                                                           | Multiple adults, no children                             | 1.568    | 0.117       | <0.001      | 4.795                          | 3.816                     | 6.026                     |
|                                                                                                           | Single parent family                                     | 1.165    | 0.260       | <0.001      | 3.206                          | 1.925                     | 5.340                     |
|                                                                                                           | Two or more adults and children                          | 1.648    | 0.186       | <0.001      | 5.197                          | 3.610                     | 7.483                     |
| Urban/rural                                                                                               | Rural                                                    | 0.455    | 0.145       | 0.002       | 1.576                          | 1.186                     | 2.095                     |
| IMD                                                                                                       | 1 (most deprived)                                        |          |             | <0.001      |                                |                           |                           |
|                                                                                                           | 2                                                        | 0.556    | 0.133       | <0.001      | 1.743                          | 1.343                     | 2.262                     |
|                                                                                                           | 3                                                        | 0.640    | 0.136       | <0.001      | 1.897                          | 1.453                     | 2.477                     |
|                                                                                                           | 4                                                        | 0.889    | 0.158       | <0.001      | 2.432                          | 1.784                     | 3.314                     |
|                                                                                                           | 5 (least deprived)                                       | 0.993    | 0.170       | <0.001      | 2.700                          | 1.934                     | 3.769                     |
| Impairment type                                                                                           | Cognitive                                                | 0.036    | 0.121       | 0.768       | 1.036                          | 0.817                     | 1.315                     |
|                                                                                                           | Communication                                            | -0.158   | 0.131       | 0.227       | 0.853                          | 0.660                     | 1.103                     |

|  |                |        |       |        |       |       |       |
|--|----------------|--------|-------|--------|-------|-------|-------|
|  | Vision         | -0.597 | 0.139 | <0.001 | 0.551 | 0.420 | 0.723 |
|  | Mobility       | 0.165  | 0.111 | 0.136  | 1.180 | 0.950 | 1.465 |
|  | Mental health  | -0.395 | 0.119 | 0.001  | 0.674 | 0.533 | 0.851 |
|  | Other physical | 0.189  | 0.102 | 0.063  | 1.208 | 0.990 | 1.474 |
|  | Other          | 0.009  | 0.222 | 0.967  | 1.009 | 0.653 | 1.559 |
|  | Constant       | -0.975 | 0.234 | <0.001 | 0.377 |       |       |

### Difficulties travelling to work by private transport

| <b>Table C3 Logistic regression model for difficulties travelling to work by private transport</b> |                                                          |        |       |        |                     |                |                |
|----------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------|-------|--------|---------------------|----------------|----------------|
| <b>Stage 1 model, all respondents who travel to work by private transport</b>                      |                                                          |        |       |        |                     |                |                |
| Predictor                                                                                          |                                                          | B      | S.E.  | Sig.   | Odds ratio (Exp(B)) | 95% CI (Lower) | 95% CI (Upper) |
| Disability                                                                                         | Disabled                                                 | -0.167 | 0.103 | 0.104  | 0.846               | 0.691          | 1.035          |
| Age                                                                                                | 18 to 29                                                 |        |       | <0.001 |                     |                |                |
|                                                                                                    | 30 to 49                                                 | -0.212 | 0.081 | 0.009  | 0.809               | 0.691          | 0.947          |
|                                                                                                    | 50 to 64                                                 | 0.007  | 0.084 | 0.933  | 1.007               | 0.855          | 1.186          |
|                                                                                                    | 65 to 74                                                 | 0.334  | 0.163 | 0.040  | 1.397               | 1.016          | 1.922          |
|                                                                                                    | 75+                                                      | 0.605  | 0.429 | 0.159  | 1.831               | 0.790          | 4.247          |
| Sex                                                                                                | Female                                                   | 0.014  | 0.057 | 0.798  | 1.015               | 0.908          | 1.134          |
| Ethnicity                                                                                          | White                                                    |        |       | <0.001 |                     |                |                |
|                                                                                                    | Asian, Asian British, or Asian Welsh                     | 0.455  | 0.096 | <0.001 | 1.576               | 1.305          | 1.902          |
|                                                                                                    | Black, Black British, Black Welsh, Caribbean, or African | 0.042  | 0.156 | 0.790  | 1.042               | 0.767          | 1.416          |
|                                                                                                    | Mixed or Multiple ethnic groups                          | -0.359 | 0.226 | 0.112  | 0.698               | 0.448          | 1.088          |
|                                                                                                    | Other ethnic group                                       | -0.500 | 0.266 | 0.059  | 0.606               | 0.360          | 1.020          |
| Household income                                                                                   | Lowest ('Less than £25,000')                             |        |       | <0.001 |                     |                |                |
|                                                                                                    | Medium (£25,000 to £49,999)                              | -0.528 | 0.115 | <0.001 | 0.590               | 0.471          | 0.739          |

|                     |                                 |         |       |        |       |       |       |
|---------------------|---------------------------------|---------|-------|--------|-------|-------|-------|
|                     | Highest (£50,000 and over)      | - 0.458 | 0.110 | <0.001 | 0.633 | 0.510 | 0.785 |
| Household structure | Single adult                    |         |       | 0.265  |       |       |       |
|                     | Multiple adults, no children    | 0.161   | 0.112 | 0.153  | 1.174 | 0.942 | 1.464 |
|                     | Single parent family            | 0.145   | 0.226 | 0.520  | 1.156 | 0.743 | 1.799 |
|                     | Two or more adults and children | 0.231   | 0.118 | 0.051  | 1.260 | 0.999 | 1.589 |
| Urban/rural         | Rural                           | 0.268   | 0.075 | <0.001 | 1.307 | 1.128 | 1.514 |
| IMD                 | 1 (most deprived)               |         |       | 0.002  |       |       |       |
|                     | 2                               | - 0.280 | 0.094 | 0.003  | 0.756 | 0.628 | 0.910 |
|                     | 3                               | - 0.300 | 0.092 | 0.001  | 0.740 | 0.618 | 0.888 |
|                     | 4                               | - 0.353 | 0.093 | <0.001 | 0.702 | 0.585 | 0.842 |
|                     | 5 (least deprived)              | - 0.204 | 0.095 | 0.031  | 0.816 | 0.678 | 0.982 |
|                     | Constant                        | 0.819   | 0.159 | <0.001 | 2.267 |       |       |

| Table C4 Logistic regression model for Difficulties travelling to work by private transport |                                      |         |       |       |                     |                |                |
|---------------------------------------------------------------------------------------------|--------------------------------------|---------|-------|-------|---------------------|----------------|----------------|
| Stage 2 model, all disabled respondents who travel to work by private transport             |                                      |         |       |       |                     |                |                |
| Predictor                                                                                   |                                      | B       | S.E.  | Sig.  | Odds ratio (Exp(B)) | 95% CI (Lower) | 95% CI (Upper) |
| Age                                                                                         | 18 to 29                             |         |       | 0.130 |                     |                |                |
|                                                                                             | 30 to 49                             | - 0.042 | 0.354 | 0.907 | 0.959               | 0.479          | 1.921          |
|                                                                                             | 50 to 64                             | 0.315   | 0.364 | 0.386 | 1.370               | 0.672          | 2.794          |
|                                                                                             | 65 to 74                             | 0.670   | 0.505 | 0.184 | 1.955               | 0.727          | 5.255          |
|                                                                                             | 75+                                  | 3.182   | 1.529 | 0.037 | 24.098              | 1.203          | 482.608        |
| Sex                                                                                         | Female                               | - 0.047 | 0.213 | 0.826 | 0.954               | 0.629          | 1.448          |
| Ethnicity                                                                                   | White                                |         |       | 0.506 |                     |                |                |
|                                                                                             | Asian, Asian British, or Asian Welsh | 0.651   | 0.457 | 0.154 | 1.918               | 0.783          | 4.702          |
|                                                                                             | Black, Black British, Black Welsh,   | - 0.479 | 0.682 | 0.483 | 0.620               | 0.163          | 2.361          |

|                     |                                 |         |       |        |       |       |        |
|---------------------|---------------------------------|---------|-------|--------|-------|-------|--------|
|                     | Caribbean, or African           |         |       |        |       |       |        |
|                     | Mixed or Multiple ethnic groups | - 0.915 | 1.170 | 0.434  | 0.401 | 0.040 | 3.966  |
|                     | Other ethnic group              | 0.291   | 1.438 | 0.840  | 1.338 | 0.080 | 22.435 |
| Household income    | Lowest (Less than £25,000)      |         |       | 0.868  |       |       |        |
|                     | Medium (£25,000 to £49,999)     | 0.119   | 0.325 | 0.714  | 1.127 | 0.596 | 2.130  |
|                     | Highest (£50,000 and over)      | - 0.007 | 0.322 | 0.984  | 0.994 | 0.528 | 1.869  |
| Household structure | Single adult                    |         |       | 0.394  |       |       |        |
|                     | Multiple adults, no children    | 0.586   | 0.340 | 0.085  | 1.796 | 0.923 | 3.496  |
|                     | Single parent family            | 0.428   | 0.562 | 0.446  | 1.534 | 0.510 | 4.616  |
|                     | Two or more adults and children | 0.531   | 0.392 | 0.175  | 1.701 | 0.789 | 3.666  |
| Urban/rural         | Rural                           | - 0.233 | 0.280 | 0.406  | 0.792 | 0.458 | 1.372  |
| IMD                 | 1 (most deprived)               |         |       | 0.001  |       |       |        |
|                     | 2                               | - 1.085 | 0.328 | 0.001  | 0.338 | 0.178 | 0.642  |
|                     | 3                               | - 0.741 | 0.318 | 0.020  | 0.476 | 0.256 | 0.888  |
|                     | 4                               | - 1.159 | 0.313 | <0.001 | 0.314 | 0.170 | 0.580  |
|                     | 5 (least deprived)              | - 1.139 | 0.362 | 0.002  | 0.320 | 0.157 | 0.650  |
| Type of impairment  | Cognitive                       | - 0.057 | 0.285 | 0.843  | 0.945 | 0.540 | 1.653  |
|                     | Communication                   | - 0.774 | 0.436 | 0.076  | 0.461 | 0.196 | 1.085  |
|                     | Vision                          | 0.077   | 0.399 | 0.848  | 1.080 | 0.494 | 2.361  |
|                     | Mobility                        | 0.044   | 0.223 | 0.842  | 1.045 | 0.675 | 1.620  |
|                     | Mental health                   | 0.013   | 0.264 | 0.961  | 1.013 | 0.603 | 1.701  |
|                     | Other physical                  | - 0.150 | 0.222 | 0.498  | 0.860 | 0.557 | 1.330  |
|                     | Other                           | - 0.572 | 0.417 | 0.171  | 0.565 | 0.249 | 1.279  |
|                     | Constant                        | 0.471   | 0.542 | 0.385  | 1.602 |       |        |

## Difficulties travelling to work by public transport

| <b>Table C5: Logistic regression model for difficulties travelling to work by public transport</b> |                                                          |          |             |             |                            |                       |                       |
|----------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------|-------------|-------------|----------------------------|-----------------------|-----------------------|
| <b>Stage 1 model – all respondents who travel to work by public transport</b>                      |                                                          |          |             |             |                            |                       |                       |
| <b>Predictor</b>                                                                                   |                                                          | <b>B</b> | <b>S.E.</b> | <b>Sig.</b> | <b>Odds ratio (Exp(B))</b> | <b>95% CI (Lower)</b> | <b>95% CI (Upper)</b> |
| Disability                                                                                         | Disabled                                                 | 0.673    | 0.145       | <0.001      | 1.960                      | 1.474                 | 2.605                 |
| Age                                                                                                | 18 to 29                                                 |          |             | <0.001      |                            |                       |                       |
|                                                                                                    | 30 to 49                                                 | 0.100    | 0.096       | 0.300       | 1.105                      | 0.915                 | 1.335                 |
|                                                                                                    | 50 to 64                                                 | -0.379   | 0.114       | 0.001       | 0.685                      | 0.548                 | 0.856                 |
|                                                                                                    | 65 to 74                                                 | -0.643   | 0.298       | 0.031       | 0.526                      | 0.293                 | 0.943                 |
|                                                                                                    | 75+                                                      | -0.372   | 0.713       | 0.602       | 0.689                      | 0.170                 | 2.790                 |
| Sex                                                                                                | Female                                                   | 0.058    | 0.079       | 0.460       | 1.060                      | 0.908                 | 1.237                 |
| Ethnicity                                                                                          | White                                                    |          |             | <0.001      |                            |                       |                       |
|                                                                                                    | Asian, Asian British, or Asian Welsh                     | -0.047   | 0.109       | 0.668       | 0.954                      | 0.771                 | 1.181                 |
|                                                                                                    | Black, Black British, Black Welsh, Caribbean, or African | 0.681    | 0.150       | <0.001      | 1.975                      | 1.472                 | 2.650                 |
|                                                                                                    | Mixed or Multiple ethnic groups                          | 0.507    | 0.265       | 0.055       | 1.661                      | 0.989                 | 2.791                 |
|                                                                                                    | Other ethnic group                                       | 0.230    | 0.242       | 0.341       | 1.259                      | 0.784                 | 2.021                 |
| Household income                                                                                   | Lowest (Less than £25,000)                               |          |             | <0.001      |                            |                       |                       |
|                                                                                                    | Medium (£25,000 to £49,999)                              | 0.357    | 0.149       | 0.016       | 1.430                      | 1.068                 | 1.913                 |
|                                                                                                    | Highest (£50,000 and over)                               | 0.619    | 0.137       | <0.001      | 1.856                      | 1.420                 | 2.427                 |
| Household structure                                                                                | Single adult                                             |          |             | <0.001      |                            |                       |                       |
|                                                                                                    | Multiple adults, no children                             | -0.361   | 0.145       | 0.013       | 0.697                      | 0.524                 | 0.926                 |

|             |                                 |        |       |        |       |       |       |
|-------------|---------------------------------|--------|-------|--------|-------|-------|-------|
|             | Single parent family            | 0.164  | 0.311 | 0.598  | 1.178 | 0.641 | 2.166 |
|             | Two or more adults and children | -0.658 | 0.156 | <0.001 | 0.518 | 0.382 | 0.702 |
| Urban/rural | Rural                           | 0.246  | 0.170 | 0.148  | 1.278 | 0.917 | 1.782 |
| IMD         | 1 (most deprived)               |        |       | 0.001  |       |       |       |
|             | 2                               | -0.049 | 0.117 | 0.678  | 0.953 | 0.757 | 1.198 |
|             | 3                               | 0.083  | 0.123 | 0.500  | 1.086 | 0.854 | 1.382 |
|             | 4                               | -0.121 | 0.129 | 0.347  | 0.886 | 0.689 | 1.140 |
|             | 5 (least deprived)              | 0.393  | 0.130 | 0.003  | 1.481 | 1.148 | 1.911 |
|             | Constant                        | -0.758 | 0.189 | <0.001 | 0.468 |       |       |

| <b>Table C6 Logistic regression model for difficulties travelling to work by public transport</b><br><b>Stage 2 model, all disabled respondents who travel to work by public transport</b> |                                                          |        |       |       |                     |                |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------|-------|-------|---------------------|----------------|----------------|
| Predictor                                                                                                                                                                                  |                                                          | B      | S.E.  | Sig.  | Odds ratio (Exp(B)) | 95% CI (Lower) | 95% CI (Upper) |
| Age                                                                                                                                                                                        | 18 to 29                                                 |        |       | 0.003 |                     |                |                |
|                                                                                                                                                                                            | 30 to 49                                                 | -0.490 | 0.417 | 0.239 | 0.612               | 0.271          | 1.386          |
|                                                                                                                                                                                            | 50 to 64                                                 | -1.731 | 0.503 | 0.001 | 0.177               | 0.066          | 0.475          |
|                                                                                                                                                                                            | 65 to 74 <sup>2</sup>                                    | -1.915 | 0.928 | 0.039 | 0.147               | 0.024          | 0.908          |
| Sex                                                                                                                                                                                        | Female                                                   | 0.258  | 0.369 | 0.483 | 1.295               | 0.629          | 2.666          |
| Ethnicity                                                                                                                                                                                  | White                                                    |        |       | 0.323 |                     |                |                |
|                                                                                                                                                                                            | Asian, Asian British, or Asian Welsh                     | -0.190 | 0.554 | 0.732 | 0.827               | 0.279          | 2.450          |
|                                                                                                                                                                                            | Black, Black British, Black Welsh, Caribbean, or African | 1.230  | 0.737 | 0.095 | 3.420               | 0.806          | 14.512         |
|                                                                                                                                                                                            | Mixed or Multiple ethnic groups <sup>3</sup>             |        |       |       |                     |                |                |
|                                                                                                                                                                                            | Other ethnic group                                       | -1.371 | 1.114 | 0.218 | 0.254               | 0.029          | 2.251          |

<sup>2</sup> There were no disabled people aged 75+ who reported travelling to work.

<sup>3</sup> Estimate for ethnicity category 'Mixed or Multiple ethnic groups' is suppressed due to small cell counts.

|                     |                                 |        |       |       |       |       |        |
|---------------------|---------------------------------|--------|-------|-------|-------|-------|--------|
| Household income    | Lowest (Less than £25,000)      |        |       | 0.011 |       |       |        |
|                     | Medium (£25,000 to £49,999)     | 0.800  | 0.513 | 0.119 | 2.225 | 0.814 | 6.084  |
|                     | Highest (£50,000 and over)      | 1.518  | 0.520 | 0.004 | 4.564 | 1.646 | 12.655 |
| Household structure | Single adult                    |        |       | 0.047 |       |       |        |
|                     | Multiple adults, no children    | -1.500 | 0.546 | 0.006 | 0.223 | 0.077 | 0.651  |
|                     | Single parent family            | -0.301 | 0.918 | 0.743 | 0.740 | 0.122 | 4.476  |
|                     | Two or more adults and children | -1.235 | 0.606 | 0.042 | 0.291 | 0.089 | 0.954  |
| Urban/rural         | Rural                           | -0.578 | 0.694 | 0.405 | 0.561 | 0.144 | 2.185  |
| IMD                 | 1 (most deprived)               |        |       | 0.786 |       |       |        |
|                     | 2                               | 0.269  | 0.474 | 0.571 | 1.309 | 0.516 | 3.317  |
|                     | 3                               | -0.293 | 0.483 | 0.544 | 0.746 | 0.289 | 1.923  |
|                     | 4                               | 0.296  | 0.516 | 0.566 | 1.344 | 0.489 | 3.694  |
|                     | 5 (least deprived)              | -0.173 | 0.588 | 0.769 | 0.841 | 0.266 | 2.666  |
| Type of impairment  | Cognitive                       | 0.581  | 0.406 | 0.152 | 1.788 | 0.808 | 3.960  |
|                     | Communication                   | -0.231 | 0.631 | 0.714 | 0.793 | 0.230 | 2.735  |
|                     | Vision                          | -0.322 | 0.560 | 0.565 | 0.725 | 0.242 | 2.171  |
|                     | Mobility                        | 0.834  | 0.366 | 0.023 | 2.304 | 1.123 | 4.725  |
|                     | Mental health                   | 0.573  | 0.350 | 0.102 | 1.773 | 0.893 | 3.519  |
|                     | Other physical                  | 0.498  | 0.346 | 0.150 | 1.646 | 0.836 | 3.242  |
|                     | Other                           | 0.914  | 0.732 | 0.212 | 2.494 | 0.594 | 10.473 |
|                     | Constant                        | -0.180 | 0.659 | 0.785 | 0.835 |       |        |

### Difficulties travelling for non-work purposes

| Table C7 Logistic regression model for difficulties travelling for non-work purposes<br>Stage 1 model, all respondents |          |        |       |        |                     |                |                |
|------------------------------------------------------------------------------------------------------------------------|----------|--------|-------|--------|---------------------|----------------|----------------|
|                                                                                                                        |          | B      | S.E.  | Sig.   | Odds ratio (Exp(B)) | 95% CI (Lower) | 95% CI (Upper) |
| Disability                                                                                                             | Disabled | 1.105  | 0.057 | <0.001 | 3.020               | 2.700          | 3.379          |
| Age                                                                                                                    | 18 to 29 |        |       | <0.001 |                     |                |                |
|                                                                                                                        | 30 to 49 | 0.062  | 0.072 | 0.390  | 1.063               | 0.924          | 1.224          |
|                                                                                                                        | 50 to 64 | -0.447 | 0.078 | <0.001 | 0.640               | 0.549          | 0.746          |
|                                                                                                                        | 65 to 74 | -0.403 | 0.099 | <0.001 | 0.668               | 0.550          | 0.812          |

|                     |                                                          |            |       |        |       |       |       |
|---------------------|----------------------------------------------------------|------------|-------|--------|-------|-------|-------|
|                     | 75+                                                      | -<br>0.174 | 0.099 | 0.080  | 0.840 | 0.691 | 1.021 |
| Sex                 | Female                                                   | 0.193      | 0.049 | <0.001 | 1.213 | 1.102 | 1.334 |
| Ethnicity           | White                                                    |            |       | <0.001 |       |       |       |
|                     | Asian, Asian British, or Asian Welsh                     | 0.129      | 0.080 | 0.107  | 1.137 | 0.973 | 1.330 |
|                     | Black, Black British, Black Welsh, Caribbean, or African | 0.387      | 0.111 | 0.001  | 1.473 | 1.184 | 1.832 |
|                     | Mixed or Multiple ethnic groups                          | 0.759      | 0.147 | <0.001 | 2.136 | 1.602 | 2.848 |
|                     | Other ethnic group                                       | 0.290      | 0.171 | 0.089  | 1.337 | 0.957 | 1.868 |
| Economic activity   | Economically inactive                                    | 0.155      | 0.065 | 0.017  | 1.167 | 1.028 | 1.326 |
| Household income    | Lowest (Less than £25,000)                               |            |       | 0.022  |       |       |       |
|                     | Medium (£25,000 to £49,999)                              | -<br>0.185 | 0.070 | 0.008  | 0.831 | 0.724 | 0.954 |
|                     | Highest (£50,000 and over)                               | -<br>0.163 | 0.072 | 0.024  | 0.850 | 0.737 | 0.979 |
| Household structure | Single adult                                             |            |       | <0.001 |       |       |       |
|                     | Multiple adults, no children                             | -<br>0.416 | 0.070 | <0.001 | 0.660 | 0.575 | 0.757 |
|                     | Single parent family                                     | 0.034      | 0.153 | 0.823  | 1.035 | 0.767 | 1.395 |
|                     | Two or more adults and children                          | -<br>0.546 | 0.086 | <0.001 | 0.579 | 0.489 | 0.686 |
| Urban/rural         | Rural                                                    | -<br>0.043 | 0.070 | 0.541  | 0.958 | 0.834 | 1.100 |
| IMD                 | 1 (most deprived)                                        |            |       | 0.982  |       |       |       |
|                     | 2                                                        | 0.010      | 0.074 | 0.892  | 1.010 | 0.873 | 1.169 |
|                     | 3                                                        | 0.039      | 0.075 | 0.598  | 1.040 | 0.898 | 1.205 |
|                     | 4                                                        | 0.025      | 0.078 | 0.747  | 1.026 | 0.880 | 1.195 |
|                     | 5 (least deprived)                                       | 0.039      | 0.079 | 0.621  | 1.040 | 0.890 | 1.215 |
|                     | Constant                                                 | -<br>1.733 | 0.106 | <0.001 | 0.177 |       |       |

| Table C8 Logistic regression model for difficulties travelling for non-work purposes<br>Stage 2 model, all disabled respondents |                                                          |         |       |        |                     |                |                |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------|-------|--------|---------------------|----------------|----------------|
| Predictor                                                                                                                       |                                                          | B       | S.E.  | Sig.   | Odds ratio (Exp(B)) | 95% CI (Lower) | 95% CI (Upper) |
| Age                                                                                                                             | 18 to 29                                                 |         |       | 0.017  |                     |                |                |
|                                                                                                                                 | 30 to 49                                                 | - 0.070 | 0.166 | 0.671  | 0.932               | 0.674          | 1.290          |
|                                                                                                                                 | 50 to 64                                                 | - 0.422 | 0.168 | 0.012  | 0.656               | 0.472          | 0.912          |
|                                                                                                                                 | 65 to 74                                                 | - 0.455 | 0.194 | 0.019  | 0.635               | 0.434          | 0.928          |
|                                                                                                                                 | 75+                                                      | - 0.206 | 0.191 | 0.281  | 0.814               | 0.559          | 1.184          |
| Sex                                                                                                                             | Female                                                   | 0.157   | 0.090 | 0.082  | 1.170               | 0.980          | 1.397          |
| Ethnicity                                                                                                                       | White                                                    |         |       | <0.001 |                     |                |                |
|                                                                                                                                 | Asian, Asian British, or Asian Welsh                     | 0.411   | 0.188 | 0.029  | 1.508               | 1.043          | 2.181          |
|                                                                                                                                 | Black, Black British, Black Welsh, Caribbean, or African | 0.580   | 0.225 | 0.010  | 1.785               | 1.150          | 2.773          |
|                                                                                                                                 | Mixed or Multiple ethnic groups                          | 1.225   | 0.329 | <0.001 | 3.403               | 1.785          | 6.490          |
|                                                                                                                                 | Other ethnic group                                       | 0.645   | 0.364 | 0.077  | 1.906               | 0.933          | 3.892          |
| Economic activity                                                                                                               | Economically inactive                                    | 0.311   | 0.120 | 0.009  | 1.365               | 1.079          | 1.728          |
| Household income                                                                                                                | Lowest (Less than £25,000)                               |         |       | 0.063  |                     |                |                |
|                                                                                                                                 | Medium (£25,000 to £49,999)                              | - 0.172 | 0.115 | 0.134  | 0.842               | 0.673          | 1.054          |
|                                                                                                                                 | Highest (£50,000 and over)                               | - 0.304 | 0.131 | 0.021  | 0.738               | 0.571          | 0.955          |
| Household structure                                                                                                             | Single adult                                             |         |       | <0.001 |                     |                |                |
|                                                                                                                                 | Multiple adults, no children                             | - 0.512 | 0.111 | <0.001 | 0.599               | 0.482          | 0.745          |
|                                                                                                                                 | Single parent family                                     | - 0.363 | 0.255 | 0.155  | 0.696               | 0.422          | 1.146          |
|                                                                                                                                 | Two or more adults and children                          | - 0.850 | 0.174 | <0.001 | 0.427               | 0.304          | 0.601          |
| Urban/rural                                                                                                                     | Rural                                                    | 0.003   | 0.125 | 0.980  | 1.003               | 0.785          | 1.282          |

|                 |                    |            |       |        |       |       |       |
|-----------------|--------------------|------------|-------|--------|-------|-------|-------|
| IMD             | 1 (most deprived)  |            |       | 0.677  |       |       |       |
|                 | 2                  | 0.004      | 0.127 | 0.974  | 1.004 | 0.783 | 1.288 |
|                 | 3                  | 0.154      | 0.127 | 0.225  | 1.167 | 0.910 | 1.497 |
|                 | 4                  | -<br>0.016 | 0.144 | 0.913  | 0.984 | 0.743 | 1.304 |
|                 | 5 (least deprived) | 0.098      | 0.150 | 0.516  | 1.102 | 0.821 | 1.480 |
| Impairment type | Cognitive          | 0.303      | 0.109 | 0.006  | 1.354 | 1.093 | 1.676 |
|                 | Communication      | -<br>0.007 | 0.122 | 0.952  | 0.993 | 0.782 | 1.260 |
|                 | Vision             | 0.543      | 0.125 | <0.001 | 1.721 | 1.347 | 2.199 |
|                 | Mobility           | 0.180      | 0.102 | 0.079  | 1.198 | 0.980 | 1.464 |
|                 | Mental health      | 0.263      | 0.110 | 0.017  | 1.301 | 1.049 | 1.615 |
|                 | Other physical     | 0.306      | 0.094 | 0.001  | 1.358 | 1.130 | 1.632 |
|                 | Other              | 0.226      | 0.199 | 0.255  | 1.254 | 0.850 | 1.850 |
|                 | Constant           | -<br>1.156 | 0.217 | <0.001 | 0.315 |       |       |

### Frequency of travel by private car

| Table C9 Multinomial regression model for frequency of private car use <sup>a</sup><br>Stage 1 model, all respondents |                                                          |                |       |        |                     |                |                |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------|-------|--------|---------------------|----------------|----------------|
| Predictor                                                                                                             |                                                          | B              | S.E.  | Sig.   | Odds ratio (Exp(B)) | 95% CI (Lower) | 95% CI (Upper) |
|                                                                                                                       | Intercept                                                | 0.686          | 0.105 | <0.001 |                     |                |                |
| At least once a week                                                                                                  |                                                          |                |       |        |                     |                |                |
| Disability status                                                                                                     | Disabled                                                 | -0.379         | 0.065 | <0.001 | 0.684               | 0.603          | 0.776          |
|                                                                                                                       | Non-disabled (reference)                                 | 0 <sup>b</sup> |       |        |                     |                |                |
| Age                                                                                                                   | 30 to 64                                                 | 0.744          | 0.062 | <0.001 | 2.105               | 1.865          | 2.377          |
|                                                                                                                       | 65 to 74                                                 | 1.168          | 0.103 | <0.001 | 3.217               | 2.629          | 3.936          |
|                                                                                                                       | 75+                                                      | 0.883          | 0.102 | <0.001 | 2.419               | 1.983          | 2.952          |
|                                                                                                                       | 18 to 29 (reference)                                     | 0 <sup>b</sup> |       |        |                     |                |                |
| Gender                                                                                                                | Female                                                   | -0.096         | 0.051 | 0.061  | 0.909               | 0.822          | 1.005          |
|                                                                                                                       | Male (reference)                                         | 0 <sup>b</sup> |       |        |                     |                |                |
| Ethnicity                                                                                                             | Asian, Asian British, or Asian Welsh                     | -0.274         | 0.079 | 0.001  | 0.761               | 0.652          | 0.887          |
|                                                                                                                       | Black, Black British, Black Welsh, Caribbean, or African | -0.867         | 0.106 | <0.001 | 0.420               | 0.342          | 0.517          |

|                                                                    |                                           |                |       |        |       |       |       |
|--------------------------------------------------------------------|-------------------------------------------|----------------|-------|--------|-------|-------|-------|
|                                                                    | Mixed or Multiple and Other ethnic groups | -0.350         | 0.130 | 0.007  | 0.704 | 0.546 | 0.909 |
|                                                                    | White (reference)                         | 0 <sup>b</sup> |       |        |       |       |       |
| Area type                                                          | Rural                                     | 0.800          | 0.094 | <0.001 | 2.225 | 1.849 | 2.677 |
|                                                                    | Urban (reference)                         | 0 <sup>b</sup> |       |        |       |       |       |
| Economic activity status                                           | Economically inactive                     | -0.420         | 0.066 | <0.001 | 0.657 | 0.577 | 0.748 |
|                                                                    | Working full or part time (reference)     | 0 <sup>b</sup> |       |        |       |       |       |
| Household type                                                     | Multiple adults no children               | 0.559          | 0.073 | <0.001 | 1.749 | 1.516 | 2.018 |
|                                                                    | Households with children                  | 1.066          | 0.088 | <0.001 | 2.902 | 2.442 | 3.449 |
|                                                                    | Single adult (reference)                  | 0 <sup>b</sup> |       |        |       |       |       |
| Household income                                                   | Medium (£25,000 to £49,999)               | 0.439          | 0.075 | <0.001 | 1.551 | 1.340 | 1.796 |
|                                                                    | Highest (£50,000 and over)                | 0.298          | 0.074 | <0.001 | 1.347 | 1.165 | 1.557 |
|                                                                    | Lowest (Less than £25,000) (reference)    | 0 <sup>b</sup> |       |        |       |       |       |
| IMD                                                                | IMD 2                                     | -0.380         | 0.073 | <0.001 | 0.684 | 0.593 | 0.789 |
|                                                                    | IMD 3                                     | 0.004          | 0.077 | 0.959  | 1.004 | 0.863 | 1.168 |
|                                                                    | IMD 4                                     | 0.357          | 0.086 | <0.001 | 1.429 | 1.207 | 1.692 |
|                                                                    | IMD 5 (least deprived)                    | 0.443          | 0.088 | <0.001 | 1.558 | 1.311 | 1.852 |
|                                                                    | IMD 1 (most deprived) (reference)         | 0 <sup>b</sup> |       |        |       |       |       |
| <b>Less than once a week but more than once a year (reference)</b> |                                           |                |       |        |       |       |       |
| <b>Less than once a year or never</b>                              |                                           |                |       |        |       |       |       |
|                                                                    | Intercept                                 | -0.381         | 0.164 | 0.021  |       |       |       |
| Disability status                                                  | Disabled                                  | -0.197         | 0.104 | 0.060  | 0.822 | 0.669 | 1.008 |
|                                                                    | Non-disabled (reference)                  | 0 <sup>b</sup> |       |        |       |       |       |
| Age                                                                | 30 to 64                                  | 0.203          | 0.102 | 0.046  | 1.225 | 1.004 | 1.495 |
|                                                                    | 65 to 74                                  | 0.103          | 0.168 | 0.540  | 1.109 | 0.797 | 1.541 |
|                                                                    | 75+                                       | -0.043         | 0.166 | 0.796  | 0.958 | 0.692 | 1.327 |

|                                |                                                                      |                |       |        |       |       |       |
|--------------------------------|----------------------------------------------------------------------|----------------|-------|--------|-------|-------|-------|
|                                | 18 to 29<br>(reference)                                              | 0 <sup>b</sup> |       |        |       |       |       |
| Gender                         | Female                                                               | -0.378         | 0.084 | <0.001 | 0.685 | 0.582 | 0.808 |
|                                | Male<br>(reference)                                                  | 0 <sup>b</sup> |       |        |       |       |       |
| Ethnicity                      | Asian, Asian<br>British, or<br>Asian Welsh                           | 0.258          | 0.122 | 0.035  | 1.294 | 1.018 | 1.645 |
|                                | Black, Black<br>British, Black<br>Welsh,<br>Caribbean,<br>or African | 0.123          | 0.154 | 0.424  | 1.131 | 0.836 | 1.529 |
|                                | Mixed or<br>Multiple and<br>Other ethnic<br>groups                   | 0.794          | 0.170 | <0.001 | 2.212 | 1.586 | 3.085 |
|                                | White<br>(reference)                                                 | 0 <sup>b</sup> |       |        |       |       |       |
| Area type                      | Rural                                                                | -0.309         | 0.193 | 0.110  | 0.734 | 0.503 | 1.073 |
|                                | Urban<br>(reference)                                                 | 0 <sup>b</sup> |       |        |       |       |       |
| Economic<br>activity<br>status | Economically<br>inactive                                             | 0.184          | 0.105 | 0.079  | 1.202 | 0.979 | 1.477 |
|                                | Working full<br>or part time<br>(reference)                          | 0 <sup>b</sup> |       |        |       |       |       |
| Household<br>type              | Multiple<br>adults no<br>children                                    | 0.064          | 0.116 | 0.577  | 1.067 | 0.850 | 1.337 |
|                                | Households<br>with children                                          | 0.388          | 0.136 | 0.004  | 1.475 | 1.130 | 1.925 |
|                                | Single adult<br>(reference)                                          | 0 <sup>b</sup> |       |        |       |       |       |
| Household<br>income            | Medium<br>(£25,000 to<br>£49,999)                                    | -0.138         | 0.115 | 0.232  | 0.871 | 0.695 | 1.092 |
|                                | Highest<br>(£50,000<br>and over)                                     | -0.590         | 0.118 | <0.001 | 0.554 | 0.440 | 0.698 |
|                                | Lowest (Less<br>than<br>£25,000)<br>(reference)                      | 0 <sup>b</sup> |       |        |       |       |       |
| IMD                            | IMD 2                                                                | -0.354         | 0.109 | 0.001  | 0.702 | 0.567 | 0.868 |
|                                | IMD 3                                                                | -0.509         | 0.125 | <0.001 | 0.601 | 0.470 | 0.768 |
|                                | IMD 4                                                                | -0.431         | 0.143 | 0.003  | 0.650 | 0.491 | 0.860 |
|                                | IMD 5 (least<br>deprived)                                            | -0.736         | 0.163 | <0.001 | 0.479 | 0.348 | 0.660 |

|                                                                           |                                      |                |  |  |  |  |  |
|---------------------------------------------------------------------------|--------------------------------------|----------------|--|--|--|--|--|
|                                                                           | IMD 1 (most deprived)<br>(reference) | 0 <sup>b</sup> |  |  |  |  |  |
| a. The reference category is: Less than once a week, once a year or more. |                                      |                |  |  |  |  |  |
| b. This parameter is set to zero because it is redundant.                 |                                      |                |  |  |  |  |  |

| Table C10 Multinomial regression model for frequency of private car use <sup>a</sup><br>Stage 2 model, all disabled respondents |                                                          |                |       |        |                        |                   |                   |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------|-------|--------|------------------------|-------------------|-------------------|
| Predictor                                                                                                                       |                                                          | B              | S.E.  | Sig.   | Odds ratio<br>(Exp(B)) | 95% CI<br>(Lower) | 95% CI<br>(Upper) |
| <b>At least once a week</b>                                                                                                     |                                                          |                |       |        |                        |                   |                   |
|                                                                                                                                 | Intercept                                                | 0.914          | 0.245 | <0.001 |                        |                   |                   |
| Gender                                                                                                                          | Female                                                   | -0.030         | 0.105 | 0.773  | 0.970                  | 0.790             | 1.191             |
|                                                                                                                                 | Male<br>(reference)                                      | 0 <sup>b</sup> |       |        |                        |                   |                   |
| Age                                                                                                                             | 30 to 64                                                 | 0.606          | 0.167 | <0.001 | 1.833                  | 1.323             | 2.541             |
|                                                                                                                                 | 65 to 74                                                 | 0.826          | 0.217 | <0.001 | 2.285                  | 1.493             | 3.496             |
|                                                                                                                                 | 75+                                                      | 0.565          | 0.209 | 0.007  | 1.759                  | 1.167             | 2.650             |
|                                                                                                                                 | 18 to 29<br>(reference)                                  | 0 <sup>b</sup> |       |        |                        |                   |                   |
| Ethnicity                                                                                                                       | Asian, Asian British, or Asian Welsh                     | -0.015         | 0.230 | 0.947  | 0.985                  | 0.627             | 1.546             |
|                                                                                                                                 | Black, Black British, Black Welsh, Caribbean, or African | -0.966         | 0.242 | <0.001 | 0.381                  | 0.237             | 0.612             |
|                                                                                                                                 | Mixed or Multiple and Other ethnic groups                | -0.231         | 0.322 | 0.474  | 0.794                  | 0.422             | 1.493             |
|                                                                                                                                 | White<br>(reference)                                     | 0 <sup>b</sup> |       |        |                        |                   |                   |
| Area type                                                                                                                       | Rural                                                    | 0.256          | 0.151 | 0.090  | 1.292                  | 0.960             | 1.738             |
|                                                                                                                                 | Urban<br>(reference)                                     | 0 <sup>b</sup> |       |        |                        |                   |                   |
| Economic Activity                                                                                                               | Economically inactive                                    | -0.740         | 0.142 | <0.001 | 0.477                  | 0.361             | 0.631             |
|                                                                                                                                 | In work - part time or full time                         | 0 <sup>b</sup> |       |        |                        |                   |                   |
| Household type                                                                                                                  | Multiple adults no children                              | 0.632          | 0.129 | <0.001 | 1.881                  | 1.460             | 2.424             |
|                                                                                                                                 | Households with children                                 | 0.499          | 0.171 | 0.004  | 1.647                  | 1.178             | 2.301             |

|                  |                                                     |                |       |       |       |       |       |
|------------------|-----------------------------------------------------|----------------|-------|-------|-------|-------|-------|
|                  | Single adult (reference)                            | 0 <sup>b</sup> |       |       |       |       |       |
| Household income | Medium (£25,000 to £49,999)                         | 0.247          | 0.135 | 0.067 | 1.280 | 0.983 | 1.666 |
|                  | Highest (£50,000 and over)                          | 0.159          | 0.149 | 0.285 | 1.173 | 0.876 | 1.570 |
|                  | Lowest (Less than £25,000) (reference)              | 0 <sup>b</sup> |       |       |       |       |       |
| IMD              | IMD 2                                               | 0.045          | 0.146 | 0.757 | 1.046 | 0.786 | 1.392 |
|                  | IMD 3                                               | 0.042          | 0.146 | 0.773 | 1.043 | 0.784 | 1.388 |
|                  | IMD 4                                               | 0.141          | 0.166 | 0.395 | 1.152 | 0.832 | 1.596 |
|                  | IMD 5 (least deprived)                              | 0.331          | 0.180 | 0.066 | 1.393 | 0.978 | 1.983 |
|                  | IMD 1 (most deprived) (reference)                   | 0 <sup>b</sup> |       |       |       |       |       |
| Impairment type  | Cognitive impairment                                | -0.282         | 0.126 | 0.025 | 0.754 | 0.589 | 0.965 |
|                  | No cognitive impairment (reference)                 | 0 <sup>b</sup> |       |       |       |       |       |
|                  | Hearing or speech impairment                        | 0.162          | 0.145 | 0.263 | 1.176 | 0.886 | 1.561 |
|                  | No hearing or speech impairment (reference)         | 0 <sup>b</sup> |       |       |       |       |       |
|                  | Vision impairment                                   | -0.205         | 0.148 | 0.167 | 0.814 | 0.609 | 1.090 |
|                  | No vision impairment (reference)                    | 0 <sup>b</sup> |       |       |       |       |       |
|                  | Mobility impairment                                 | 0.049          | 0.118 | 0.676 | 1.050 | 0.834 | 1.322 |
|                  | No mobility impairment (reference)                  | 0 <sup>b</sup> |       |       |       |       |       |
|                  | Impairment relating to mental health                | -0.153         | 0.127 | 0.227 | 0.858 | 0.669 | 1.100 |
|                  | No Impairment relating to mental health (reference) | 0 <sup>b</sup> |       |       |       |       |       |
|                  | Other physical Impairment                           | 0.041          | 0.109 | 0.709 | 1.041 | 0.842 | 1.289 |

|                                                                    |                                                          |                |       |        |       |       |       |
|--------------------------------------------------------------------|----------------------------------------------------------|----------------|-------|--------|-------|-------|-------|
|                                                                    | No other physical Impairment (reference)                 | 0 <sup>b</sup> |       |        |       |       |       |
|                                                                    | Other impairment                                         | -0.143         | 0.233 | 0.541  | 0.867 | 0.549 | 1.370 |
|                                                                    | No other impairment (reference)                          | 0 <sup>b</sup> |       |        |       |       |       |
| <b>Less than once a week but more than once a year (reference)</b> |                                                          |                |       |        |       |       |       |
| <b>Less than once a year or never</b>                              |                                                          |                |       |        |       |       |       |
|                                                                    | Intercept                                                | -1.282         | 0.418 | 0.002  |       |       |       |
| Gender                                                             | Female                                                   | -0.162         | 0.168 | 0.334  | 0.850 | 0.612 | 1.182 |
|                                                                    | Male (reference)                                         | 0 <sup>b</sup> |       |        |       |       |       |
| Age                                                                | 30 to 64                                                 | 0.220          | 0.269 | 0.414  | 1.246 | 0.735 | 2.110 |
|                                                                    | 65 to 74                                                 | 0.449          | 0.338 | 0.185  | 1.566 | 0.807 | 3.038 |
|                                                                    | 75+                                                      | 0.096          | 0.337 | 0.776  | 1.101 | 0.568 | 2.132 |
|                                                                    | 18 to 29 (reference)                                     | 0 <sup>b</sup> |       |        |       |       |       |
| Ethnicity                                                          | Asian, Asian British, or Asian Welsh                     | 0.312          | 0.362 | 0.388  | 1.366 | 0.672 | 2.778 |
|                                                                    | Black, Black British, Black Welsh, Caribbean, or African | -0.055         | 0.356 | 0.876  | 0.946 | 0.470 | 1.902 |
|                                                                    | Mixed or Multiple and Other ethnic groups                | 1.510          | 0.363 | <0.001 | 4.526 | 2.224 | 9.210 |
|                                                                    | White (reference)                                        | 0 <sup>b</sup> |       |        |       |       |       |
| Area type                                                          | Rural                                                    | -0.199         | 0.291 | 0.493  | 0.819 | 0.463 | 1.450 |
|                                                                    | Urban (reference)                                        | 0 <sup>b</sup> |       |        |       |       |       |
| Economic Activity                                                  | Economically inactive                                    | 0.507          | 0.267 | 0.058  | 1.661 | 0.984 | 2.805 |
|                                                                    | In work - part time or full time                         | 0 <sup>b</sup> |       |        |       |       |       |
| Household type                                                     | Multiple adults no children                              | 0.344          | 0.206 | 0.095  | 1.410 | 0.942 | 2.110 |
|                                                                    | Households with children                                 | -0.244         | 0.288 | 0.396  | 0.783 | 0.445 | 1.378 |
|                                                                    | Single adult (reference)                                 | 0 <sup>b</sup> |       |        |       |       |       |
| Household income                                                   | Medium (£25,000 to £49,999)                              | -0.045         | 0.218 | 0.837  | 0.956 | 0.624 | 1.466 |

|                 |                                                     |                |       |       |       |       |       |
|-----------------|-----------------------------------------------------|----------------|-------|-------|-------|-------|-------|
|                 | Highest (£50,000 and over)                          | -0.401         | 0.257 | 0.118 | 0.670 | 0.405 | 1.107 |
|                 | Lowest (Less than £25,000) (reference)              | 0 <sup>b</sup> |       |       |       |       |       |
| IMD             | IMD 2                                               | -0.294         | 0.216 | 0.174 | 0.745 | 0.488 | 1.138 |
|                 | IMD 3                                               | -0.648         | 0.240 | 0.007 | 0.523 | 0.327 | 0.837 |
|                 | IMD 4                                               | -0.709         | 0.292 | 0.015 | 0.492 | 0.278 | 0.872 |
|                 | IMD 5 (least deprived)                              | -0.977         | 0.353 | 0.006 | 0.377 | 0.189 | 0.752 |
|                 | IMD 1 (most deprived) (reference)                   | 0 <sup>b</sup> |       |       |       |       |       |
| Impairment type | Cognitive impairment                                | 0.079          | 0.199 | 0.691 | 1.082 | 0.732 | 1.599 |
|                 | No cognitive impairment (reference)                 | 0 <sup>b</sup> |       |       |       |       |       |
|                 | Hearing or speech impairment                        | -0.043         | 0.237 | 0.857 | 0.958 | 0.602 | 1.525 |
|                 | No hearing or speech impairment (reference)         | 0 <sup>b</sup> |       |       |       |       |       |
|                 | Vision impairment                                   | 0.054          | 0.234 | 0.816 | 1.056 | 0.668 | 1.669 |
|                 | No vision impairment (reference)                    | 0 <sup>b</sup> |       |       |       |       |       |
|                 | Mobility impairment                                 | 0.221          | 0.196 | 0.259 | 1.248 | 0.849 | 1.834 |
|                 | No mobility impairment (reference)                  | 0 <sup>b</sup> |       |       |       |       |       |
|                 | Impairment relating to mental health                | 0.299          | 0.202 | 0.138 | 1.349 | 0.908 | 2.004 |
|                 | No Impairment relating to mental health (reference) | 0 <sup>b</sup> |       |       |       |       |       |
|                 | Other physical Impairment                           | -0.386         | 0.180 | 0.033 | 0.680 | 0.477 | 0.968 |
|                 | No other physical Impairment (reference)            | 0 <sup>b</sup> |       |       |       |       |       |
|                 | Other impairment                                    | 0.772          | 0.321 | 0.016 | 2.164 | 1.153 | 4.062 |

|                                                                           |                                       |                |  |  |  |  |  |
|---------------------------------------------------------------------------|---------------------------------------|----------------|--|--|--|--|--|
|                                                                           | No other<br>impairment<br>(reference) | 0 <sup>b</sup> |  |  |  |  |  |
| a. The reference category is: Less than once a week, once a year or more. |                                       |                |  |  |  |  |  |
| b. This parameter is set to zero because it is redundant.                 |                                       |                |  |  |  |  |  |

| Table C11 Multinomial regression model for frequency of bus use <sup>a</sup><br>Stage 1 model, all respondents |                                                          |                |       |        |                     |                 |                |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------|-------|--------|---------------------|-----------------|----------------|
| Predictor                                                                                                      |                                                          | B              | S.E.  | Sig.   | Odds ratio (Exp(B)) | 95% CI (Lower ) | 95% CI (Upper) |
| <b>At least once a week</b>                                                                                    |                                                          |                |       |        |                     |                 |                |
|                                                                                                                | Intercept                                                | 0.518          | 0.101 | <0.001 |                     |                 |                |
| Disability status                                                                                              | Disabled                                                 | 0.016          | 0.067 | 0.809  | 1.016               | 0.891           | 1.159          |
|                                                                                                                | Non-disabled (reference)                                 | 0 <sup>b</sup> |       |        |                     |                 |                |
| Age                                                                                                            | 30 to 64                                                 | -0.672         | 0.059 | <0.001 | 0.510               | 0.454           | 0.573          |
|                                                                                                                | 65 to 74                                                 | -0.476         | 0.091 | <0.001 | 0.621               | 0.520           | 0.743          |
|                                                                                                                | 75+                                                      | -0.315         | 0.100 | 0.002  | 0.729               | 0.600           | 0.887          |
|                                                                                                                | 18 to 29 (reference)                                     | 0 <sup>b</sup> |       |        |                     |                 |                |
| Gender                                                                                                         | Female                                                   | 0.105          | 0.047 | 0.025  | 1.110               | 1.013           | 1.216          |
|                                                                                                                | Male (reference)                                         | 0 <sup>b</sup> |       |        |                     |                 |                |
| Ethnicity                                                                                                      | Asian, Asian British, or Asian Welsh                     | 0.471          | 0.070 | <0.001 | 1.602               | 1.395           | 1.839          |
|                                                                                                                | Black, Black British, Black Welsh, Caribbean, or African | 0.944          | 0.101 | <0.001 | 2.570               | 2.110           | 3.129          |
|                                                                                                                | Mixed or Multiple and Other ethnic groups                | 0.563          | 0.113 | <0.001 | 1.757               | 1.409           | 2.190          |
|                                                                                                                | White (reference)                                        | 0 <sup>b</sup> |       |        |                     |                 |                |
| Area type                                                                                                      | Rural                                                    | -0.675         | 0.089 | <0.001 | 0.509               | 0.428           | 0.606          |
|                                                                                                                | Urban (reference)                                        | 0 <sup>b</sup> |       |        |                     |                 |                |
| Economic activity status                                                                                       | Economically inactive                                    | 0.236          | 0.062 | <0.001 | 1.266               | 1.121           | 1.429          |
|                                                                                                                | Working full or part time (reference)                    | 0 <sup>b</sup> |       |        |                     |                 |                |
| Household type                                                                                                 | Multiple adults no children                              | -0.072         | 0.071 | 0.309  | 0.930               | 0.809           | 1.069          |

|                                                                    |                                                          |                |       |        |       |       |       |
|--------------------------------------------------------------------|----------------------------------------------------------|----------------|-------|--------|-------|-------|-------|
|                                                                    | Households with children                                 | -0.194         | 0.081 | 0.017  | 0.823 | 0.702 | 0.965 |
|                                                                    | Single adult (reference)                                 | 0 <sup>b</sup> |       |        |       |       |       |
| Household income                                                   | Medium (£25,000 to £49,999)                              | -0.262         | 0.069 | <0.001 | 0.769 | 0.672 | 0.881 |
|                                                                    | Highest (£50,000 and over)                               | -0.270         | 0.069 | <0.001 | 0.764 | 0.667 | 0.875 |
|                                                                    | Lowest (Less than £25,000) (reference)                   | 0 <sup>b</sup> |       |        |       |       |       |
| IMD                                                                | IMD 2                                                    | 0.035          | 0.069 | 0.616  | 1.035 | 0.904 | 1.185 |
|                                                                    | IMD 3                                                    | -0.259         | 0.072 | <0.001 | 0.772 | 0.670 | 0.889 |
|                                                                    | IMD 4                                                    | -0.388         | 0.076 | <0.001 | 0.678 | 0.584 | 0.788 |
|                                                                    | IMD 5 (least deprived)                                   | -0.541         | 0.077 | <0.001 | 0.582 | 0.501 | 0.677 |
|                                                                    | IMD 1 (most deprived) (reference)                        | 0 <sup>b</sup> |       |        |       |       |       |
| <b>Less than once a week but more than once a year (reference)</b> |                                                          |                |       |        |       |       |       |
| <b>Less than once a year or never</b>                              |                                                          |                |       |        |       |       |       |
|                                                                    | Intercept                                                | 0.246          | 0.091 | 0.007  |       |       |       |
| Disability status                                                  | Disabled                                                 | 0.504          | 0.056 | <0.001 | 1.656 | 1.484 | 1.848 |
|                                                                    | Non-disabled (reference)                                 | 0 <sup>b</sup> |       |        |       |       |       |
| Age                                                                | 30 to 64                                                 | 0.134          | 0.054 | 0.012  | 1.143 | 1.030 | 1.270 |
|                                                                    | 65 to 74                                                 | -0.027         | 0.081 | 0.734  | 0.973 | 0.830 | 1.140 |
|                                                                    | 75+                                                      | 0.231          | 0.089 | 0.010  | 1.260 | 1.058 | 1.501 |
|                                                                    | 18 to 29 (reference)                                     | 0 <sup>b</sup> |       |        |       |       |       |
| Gender                                                             | Female                                                   | -0.203         | 0.038 | <0.001 | 0.817 | 0.757 | 0.880 |
|                                                                    | Male (reference)                                         | 0 <sup>b</sup> |       |        |       |       |       |
| Ethnicity                                                          | Asian, Asian British, or Asian Welsh                     | -0.083         | 0.064 | 0.193  | 0.920 | 0.812 | 1.043 |
|                                                                    | Black, Black British, Black Welsh, Caribbean, or African | -0.711         | 0.115 | <0.001 | 0.491 | 0.392 | 0.616 |
|                                                                    | Mixed or Multiple and                                    | -0.316         | 0.109 | 0.004  | 0.729 | 0.588 | 0.903 |

|                                                                           |                                        |                |       |        |       |       |       |
|---------------------------------------------------------------------------|----------------------------------------|----------------|-------|--------|-------|-------|-------|
|                                                                           | Other ethnic groups                    |                |       |        |       |       |       |
|                                                                           | White (reference)                      | 0 <sup>b</sup> |       |        |       |       |       |
| Area type                                                                 | Rural                                  | 0.628          | 0.055 | <0.001 | 1.874 | 1.683 | 2.088 |
|                                                                           | Urban (reference)                      | 0 <sup>b</sup> |       |        |       |       |       |
| Economic activity status                                                  | Economically inactive                  | -0.161         | 0.054 | 0.003  | 0.851 | 0.766 | 0.946 |
|                                                                           | Working full or part time (reference)  | 0 <sup>b</sup> |       |        |       |       |       |
| Household type                                                            | multiple adults no children            | 0.252          | 0.062 | <0.001 | 1.287 | 1.139 | 1.454 |
|                                                                           | households with children               | 0.282          | 0.069 | <0.001 | 1.325 | 1.157 | 1.518 |
|                                                                           | Single adult (reference)               | 0 <sup>b</sup> |       |        |       |       |       |
| Household income                                                          | Medium (£25,000 to £49,999)            | -0.015         | 0.061 | 0.807  | 0.985 | 0.874 | 1.110 |
|                                                                           | Highest (£50,000 and over)             | 0.077          | 0.060 | 0.204  | 1.080 | 0.959 | 1.216 |
|                                                                           | Lowest (Less than £25,000) (reference) | 0 <sup>b</sup> |       |        |       |       |       |
| IMD                                                                       | IMD 2                                  | -0.149         | 0.063 | 0.019  | 0.862 | 0.761 | 0.976 |
|                                                                           | IMD 3                                  | -0.026         | 0.062 | 0.671  | 0.974 | 0.862 | 1.100 |
|                                                                           | IMD 4                                  | 0.095          | 0.063 | 0.135  | 1.099 | 0.971 | 1.245 |
|                                                                           | IMD 5 (least deprived)                 | -0.052         | 0.063 | 0.404  | 0.949 | 0.839 | 1.073 |
|                                                                           | IMD 1 (most deprived) (reference)      | 0 <sup>b</sup> |       |        |       |       |       |
| a. The reference category is: Less than once a week, once a year or more. |                                        |                |       |        |       |       |       |
| b. This parameter is set to zero because it is redundant.                 |                                        |                |       |        |       |       |       |

**Table C12 Multinomial regression model for frequency of bus use<sup>a</sup>  
Stage 2 model, all disabled respondents**

|                             |           | B     | S.E.  | Sig.  | Odds ratio (Exp(B)) | 95% CI (Lower ) | 95% CI (Upper) |
|-----------------------------|-----------|-------|-------|-------|---------------------|-----------------|----------------|
| <b>At least once a week</b> |           |       |       |       |                     |                 |                |
|                             | Intercept | 0.928 | 0.269 | 0.001 |                     |                 |                |

|                         |                                                                      |                |       |        |       |       |       |
|-------------------------|----------------------------------------------------------------------|----------------|-------|--------|-------|-------|-------|
| Gender                  | Female                                                               | 0.072          | 0.118 | 0.542  | 1.075 | 0.852 | 1.355 |
|                         | Male<br>(reference)                                                  | 0 <sup>b</sup> |       |        |       |       |       |
| Age                     | 30 to 64                                                             | -0.757         | 0.181 | <0.001 | 0.469 | 0.329 | 0.669 |
|                         | 65 to 74                                                             | -0.346         | 0.232 | 0.135  | 0.707 | 0.449 | 1.114 |
|                         | 75+                                                                  | -0.540         | 0.242 | 0.026  | 0.583 | 0.362 | 0.937 |
|                         | 18 to 29<br>(reference)                                              | 0 <sup>b</sup> |       |        |       |       |       |
| Ethnicity               | Asian, Asian<br>British, or<br>Asian Welsh                           | 0.236          | 0.240 | 0.327  | 1.266 | 0.790 | 2.028 |
|                         | Black, Black<br>British, Black<br>Welsh,<br>Caribbean, or<br>African | 1.103          | 0.275 | <0.001 | 3.014 | 1.759 | 5.164 |
|                         | Mixed or<br>Multiple and<br>Other ethnic<br>groups                   | 0.779          | 0.319 | 0.015  | 2.179 | 1.166 | 4.070 |
|                         | White<br>(reference)                                                 | 0 <sup>b</sup> |       |        |       |       |       |
| Area<br>type            | Rural                                                                | -0.313         | 0.209 | 0.134  | 0.731 | 0.486 | 1.101 |
|                         | Urban<br>(reference)                                                 | 0 <sup>b</sup> |       |        |       |       |       |
| Economi<br>c Activity   | Economically<br>inactive                                             | -0.248         | 0.147 | 0.093  | 0.781 | 0.585 | 1.042 |
|                         | In work - part<br>time or full<br>time                               | 0 <sup>b</sup> |       |        |       |       |       |
| Houshol<br>d type       | Multiple adults<br>no children                                       | -0.215         | 0.149 | 0.148  | 0.806 | 0.603 | 1.079 |
|                         | Households<br>with children                                          | -0.200         | 0.192 | 0.298  | 0.819 | 0.562 | 1.193 |
|                         | Single adult<br>(reference)                                          | 0 <sup>b</sup> |       |        |       |       |       |
| Househo<br>ld<br>income | Medium<br>(£25,000 to<br>£49,999)                                    | -0.044         | 0.152 | 0.775  | 0.957 | 0.710 | 1.291 |
|                         | Highest<br>(£50,000 and<br>over)                                     | -0.205         | 0.168 | 0.222  | 0.814 | 0.586 | 1.132 |
|                         | Lowest (Less<br>than £25,000)<br>(reference)                         | 0 <sup>b</sup> |       |        |       |       |       |
| IMD                     | IMD 2                                                                | -0.186         | 0.160 | 0.244  | 0.830 | 0.606 | 1.136 |
|                         | IMD 3                                                                | -0.152         | 0.166 | 0.359  | 0.859 | 0.621 | 1.188 |
|                         | IMD 4                                                                | -0.597         | 0.196 | 0.002  | 0.551 | 0.375 | 0.808 |
|                         | IMD 5 (least<br>deprived)                                            | -0.026         | 0.197 | 0.893  | 0.974 | 0.663 | 1.432 |

|                                                                    |                                                        |                |       |       |       |       |       |
|--------------------------------------------------------------------|--------------------------------------------------------|----------------|-------|-------|-------|-------|-------|
|                                                                    | IMD 1 (most deprived)<br>(reference)                   | 0 <sup>b</sup> |       |       |       |       |       |
| Impairment type                                                    | Cognitive impairment                                   | -0.273         | 0.147 | 0.062 | 0.761 | 0.571 | 1.014 |
|                                                                    | No cognitive impairment<br>(reference)                 | 0 <sup>b</sup> |       |       |       |       |       |
|                                                                    | Hearing or speech impairment                           | 0.043          | 0.172 | 0.802 | 1.044 | 0.745 | 1.464 |
|                                                                    | No hearing or speech impairment<br>(reference)         | 0 <sup>b</sup> |       |       |       |       |       |
|                                                                    | Vision impairment                                      | 0.491          | 0.176 | 0.005 | 1.634 | 1.158 | 2.305 |
|                                                                    | No vision impairment<br>(reference)                    | 0 <sup>b</sup> |       |       |       |       |       |
|                                                                    | Mobility impairment                                    | 0.078          | 0.128 | 0.541 | 1.082 | 0.841 | 1.391 |
|                                                                    | No mobility impairment<br>(reference)                  | 0 <sup>b</sup> |       |       |       |       |       |
|                                                                    | Impairment relating to mental health                   | 0.266          | 0.142 | 0.062 | 1.304 | 0.987 | 1.723 |
|                                                                    | No Impairment relating to mental health<br>(reference) | 0 <sup>b</sup> |       |       |       |       |       |
|                                                                    | Other physical Impairment                              | -0.250         | 0.121 | 0.039 | 0.779 | 0.614 | 0.988 |
|                                                                    | No other physical Impairment<br>(reference)            | 0 <sup>b</sup> |       |       |       |       |       |
|                                                                    | Other impairment                                       | -0.053         | 0.262 | 0.841 | 0.949 | 0.567 | 1.586 |
|                                                                    | No other impairment<br>(reference)                     | 0 <sup>b</sup> |       |       |       |       |       |
| <b>Less than once a week but more than once a year (reference)</b> |                                                        |                |       |       |       |       |       |
| <b>Less than once a year or never</b>                              |                                                        |                |       |       |       |       |       |
|                                                                    | Intercept                                              | -0.231         | 0.246 | 0.348 |       |       |       |
| Gender                                                             | Female                                                 | -0.150         | 0.099 | 0.128 | 0.861 | 0.710 | 1.044 |
|                                                                    | Male<br>(reference)                                    | 0 <sup>b</sup> |       |       |       |       |       |
| Age                                                                | 30 to 64                                               | 0.294          | 0.172 | 0.088 | 1.342 | 0.957 | 1.881 |
|                                                                    | 65 to 74                                               | 0.155          | 0.214 | 0.470 | 1.167 | 0.767 | 1.777 |

|                   |                                                          |                |       |        |       |       |       |
|-------------------|----------------------------------------------------------|----------------|-------|--------|-------|-------|-------|
|                   | 75+                                                      | 0.577          | 0.215 | 0.007  | 1.781 | 1.168 | 2.715 |
|                   | 18 to 29<br>(reference)                                  | 0 <sup>b</sup> |       |        |       |       |       |
| Ethnicity         | Asian, Asian British, or Asian Welsh                     | -0.058         | 0.207 | 0.779  | 0.944 | 0.629 | 1.416 |
|                   | Black, Black British, Black Welsh, Caribbean, or African | -0.612         | 0.315 | 0.052  | 0.542 | 0.292 | 1.006 |
|                   | Mixed or Multiple and Other ethnic groups                | -0.141         | 0.314 | 0.653  | 0.868 | 0.469 | 1.608 |
|                   | White<br>(reference)                                     | 0 <sup>b</sup> |       |        |       |       |       |
| Area type         | Rural                                                    | 0.825          | 0.148 | <0.001 | 2.281 | 1.706 | 3.049 |
|                   | Urban<br>(reference)                                     | 0 <sup>b</sup> |       |        |       |       |       |
| Economic Activity | Economically inactive                                    | 0.064          | 0.126 | 0.612  | 1.066 | 0.833 | 1.364 |
|                   | In work - part time or full time                         | 0 <sup>b</sup> |       |        |       |       |       |
| Household type    | Multiple adults no children                              | 0.304          | 0.126 | 0.016  | 1.355 | 1.058 | 1.735 |
|                   | Households with children                                 | 0.330          | 0.165 | 0.046  | 1.392 | 1.006 | 1.924 |
|                   | Single adult<br>(reference)                              | 0 <sup>b</sup> |       |        |       |       |       |
| Household income  | Medium (£25,000 to £49,999)                              | 0.127          | 0.128 | 0.321  | 1.136 | 0.883 | 1.461 |
|                   | Highest (£50,000 and over)                               | 0.095          | 0.140 | 0.499  | 1.099 | 0.835 | 1.447 |
|                   | Lowest (Less than £25,000)<br>(reference)                | 0 <sup>b</sup> |       |        |       |       |       |
| IMD               | IMD 2                                                    | -0.220         | 0.140 | 0.116  | 0.803 | 0.610 | 1.056 |
|                   | IMD 3                                                    | -0.093         | 0.142 | 0.511  | 0.911 | 0.690 | 1.203 |
|                   | IMD 4                                                    | -0.030         | 0.153 | 0.845  | 0.970 | 0.719 | 1.310 |
|                   | IMD 5 (least deprived)                                   | 0.029          | 0.167 | 0.862  | 1.030 | 0.742 | 1.429 |
|                   | IMD 1 (most deprived)<br>(reference)                     | 0 <sup>b</sup> |       |        |       |       |       |
| Impairment type   | Cognitive impairment                                     | -0.069         | 0.123 | 0.573  | 0.933 | 0.734 | 1.187 |

|                                                                           |                                                     |                |       |        |       |       |       |
|---------------------------------------------------------------------------|-----------------------------------------------------|----------------|-------|--------|-------|-------|-------|
|                                                                           | No cognitive impairment (reference)                 | 0 <sup>b</sup> |       |        |       |       |       |
|                                                                           | Hearing or speech impairment                        | 0.144          | 0.142 | 0.311  | 1.155 | 0.874 | 1.527 |
|                                                                           | No hearing or speech impairment (reference)         | 0 <sup>b</sup> |       |        |       |       |       |
|                                                                           | Vision impairment                                   | 0.098          | 0.156 | 0.532  | 1.102 | 0.812 | 1.497 |
|                                                                           | No vision impairment (reference)                    | 0 <sup>b</sup> |       |        |       |       |       |
|                                                                           | Mobility impairment                                 | 0.666          | 0.108 | <0.001 | 1.947 | 1.574 | 2.408 |
|                                                                           | No mobility impairment (reference)                  | 0 <sup>b</sup> |       |        |       |       |       |
|                                                                           | Impairment relating to mental health                | 0.175          | 0.121 | 0.149  | 1.191 | 0.939 | 1.512 |
|                                                                           | No Impairment relating to mental health (reference) | 0 <sup>b</sup> |       |        |       |       |       |
|                                                                           | Other physical Impairment                           | 0.055          | 0.102 | 0.589  | 1.056 | 0.866 | 1.289 |
|                                                                           | No other physical Impairment (reference)            | 0 <sup>b</sup> |       |        |       |       |       |
|                                                                           | Other impairment                                    | 0.436          | 0.219 | 0.047  | 1.546 | 1.006 | 2.376 |
|                                                                           | No other impairment (reference)                     | 0 <sup>b</sup> |       |        |       |       |       |
| a. The reference category is: Less than once a week, once a year or more. |                                                     |                |       |        |       |       |       |
| b. This parameter is set to zero because it is redundant.                 |                                                     |                |       |        |       |       |       |

### Frequency of travelling by train

| Table C13 Multinomial regression model for frequency of train use <sup>a</sup><br>Stage 1 model, all respondents |           |            |       |        |                     |                |                |
|------------------------------------------------------------------------------------------------------------------|-----------|------------|-------|--------|---------------------|----------------|----------------|
| Predictor                                                                                                        |           | B          | S.E.  | Sig.   | Odds ratio (Exp(B)) | 95% CI (Lower) | 95% CI (Upper) |
| At least once a week                                                                                             |           |            |       |        |                     |                |                |
|                                                                                                                  | Intercept | -<br>1.015 | 0.130 | <0.001 |                     |                |                |

|                          |                                                          |                |       |        |       |       |       |
|--------------------------|----------------------------------------------------------|----------------|-------|--------|-------|-------|-------|
| Disability status        | Disabled                                                 | -<br>0.300     | 0.101 | 0.003  | 0.741 | 0.608 | 0.903 |
|                          | Non-disabled (reference)                                 | 0 <sup>b</sup> |       |        |       |       |       |
| Age                      | 30 to 64                                                 | -<br>0.419     | 0.063 | <0.001 | 0.658 | 0.581 | 0.745 |
|                          | 65 to 74                                                 | -<br>0.627     | 0.123 | <0.001 | 0.534 | 0.419 | 0.680 |
|                          | 75+                                                      | -<br>1.017     | 0.182 | <0.001 | 0.362 | 0.253 | 0.517 |
|                          | 18 to 29 (reference)                                     | 0 <sup>b</sup> |       |        |       |       |       |
| Gender                   | Female                                                   | -<br>0.285     | 0.054 | <0.001 | 0.752 | 0.677 | 0.836 |
|                          | Male (reference)                                         | 0 <sup>b</sup> |       |        |       |       |       |
| Ethnicity                | Asian, Asian British, or Asian Welsh                     | 0.389          | 0.081 | <0.001 | 1.475 | 1.257 | 1.730 |
|                          | Black, Black British, Black Welsh, Caribbean, or African | 0.749          | 0.109 | <0.001 | 2.115 | 1.708 | 2.620 |
|                          | Mixed or Multiple and Other ethnic groups                | 0.704          | 0.118 | <0.001 | 2.021 | 1.605 | 2.545 |
|                          | White (reference)                                        | 0 <sup>b</sup> |       |        |       |       |       |
| Area type                | Rural                                                    | -<br>0.705     | 0.097 | <0.001 | 0.494 | 0.408 | 0.597 |
|                          | Urban (reference)                                        | 0 <sup>b</sup> |       |        |       |       |       |
| Economic activity status | Economically inactive                                    | -<br>0.087     | 0.079 | 0.270  | 0.917 | 0.786 | 1.070 |
|                          | Working full or part time (reference)                    | 0 <sup>b</sup> |       |        |       |       |       |
| Household type           | multiple adults no children                              | -<br>0.232     | 0.094 | 0.013  | 0.793 | 0.660 | 0.953 |
|                          | households with children                                 | -<br>0.321     | 0.100 | 0.001  | 0.725 | 0.596 | 0.883 |
|                          | Single adult (reference)                                 | 0 <sup>b</sup> |       |        |       |       |       |
| Household income         | Medium (£25,000 to £49,999)                              | -<br>0.366     | 0.100 | <0.001 | 0.693 | 0.570 | 0.843 |

|                                                                    |                                                          |                |       |        |       |       |       |
|--------------------------------------------------------------------|----------------------------------------------------------|----------------|-------|--------|-------|-------|-------|
|                                                                    | Highest (£50,000 and over)                               | 0.104          | 0.090 | 0.251  | 1.109 | 0.929 | 1.324 |
|                                                                    | Lowest (Less than £25,000) (reference)                   | 0 <sup>b</sup> |       |        |       |       |       |
| IMD                                                                | IMD 2                                                    | 0.103          | 0.093 | 0.270  | 1.108 | 0.923 | 1.331 |
|                                                                    | IMD 3                                                    | 0.237          | 0.092 | 0.010  | 1.267 | 1.058 | 1.517 |
|                                                                    | IMD 4                                                    | 0.327          | 0.092 | <0.001 | 1.387 | 1.158 | 1.663 |
|                                                                    | IMD 5 (least deprived)                                   | 0.308          | 0.092 | 0.001  | 1.360 | 1.136 | 1.630 |
|                                                                    | IMD 1 (most deprived) (reference)                        | 0 <sup>b</sup> |       |        |       |       |       |
| <b>Less than once a week but more than once a year (reference)</b> |                                                          |                |       |        |       |       |       |
| <b>Less than once a year or never</b>                              |                                                          |                |       |        |       |       |       |
|                                                                    | Intercept                                                | - 0.385        | 0.084 | <0.001 |       |       |       |
| Disability status                                                  | Disabled                                                 | 0.751          | 0.050 | <0.001 | 2.120 | 1.923 | 2.337 |
|                                                                    | Non-disabled (reference)                                 | 0 <sup>b</sup> |       |        |       |       |       |
| Age                                                                | 30 to 64                                                 | 0.188          | 0.051 | <0.001 | 1.207 | 1.091 | 1.334 |
|                                                                    | 65 to 74                                                 | 0.457          | 0.074 | <0.001 | 1.580 | 1.367 | 1.826 |
|                                                                    | 75+                                                      | 1.255          | 0.083 | <0.001 | 3.509 | 2.984 | 4.126 |
|                                                                    | 18 to 29 (reference)                                     | 0 <sup>b</sup> |       |        |       |       |       |
| Gender                                                             | Female                                                   | - 0.122        | 0.037 | 0.001  | 0.885 | 0.823 | 0.951 |
|                                                                    | Male (reference)                                         | 0 <sup>b</sup> |       |        |       |       |       |
| Ethnicity                                                          | Asian, Asian British, or Asian Welsh                     | 0.474          | 0.059 | <0.001 | 1.607 | 1.433 | 1.803 |
|                                                                    | Black, Black British, Black Welsh, Caribbean, or African | - 0.361        | 0.101 | <0.001 | 0.697 | 0.573 | 0.849 |
|                                                                    | Mixed or Multiple and Other ethnic groups                | - 0.077        | 0.105 | 0.462  | 0.926 | 0.754 | 1.137 |
|                                                                    | White (reference)                                        | 0 <sup>b</sup> |       |        |       |       |       |
| Area type                                                          | Rural                                                    | 0.341          | 0.051 | <0.001 | 1.407 | 1.273 | 1.554 |
|                                                                    | Urban (reference)                                        | 0 <sup>b</sup> |       |        |       |       |       |

|                                                                           |                                        |                |       |        |       |       |       |
|---------------------------------------------------------------------------|----------------------------------------|----------------|-------|--------|-------|-------|-------|
| Economic activity status                                                  | Economically inactive                  | 0.403          | 0.049 | <0.001 | 1.496 | 1.360 | 1.646 |
|                                                                           | Working full or part time (reference)  | 0 <sup>b</sup> |       |        |       |       |       |
| Household type                                                            | Multiple adults no children            | 0.431          | 0.059 | <0.001 | 1.539 | 1.371 | 1.728 |
|                                                                           | Households with children               | 0.567          | 0.067 | <0.001 | 1.764 | 1.548 | 2.009 |
|                                                                           | Single adult (reference)               | 0 <sup>b</sup> |       |        |       |       |       |
| Household income                                                          | Medium (£25,000 to £49,999)            | - 0.300        | 0.055 | <0.001 | 0.741 | 0.665 | 0.825 |
|                                                                           | Highest (£50,000 and over)             | - 0.656        | 0.055 | <0.001 | 0.519 | 0.466 | 0.578 |
|                                                                           | Lowest (Less than £25,000) (reference) | 0 <sup>b</sup> |       |        |       |       |       |
| IMD                                                                       | IMD 2                                  | - 0.510        | 0.057 | <0.001 | 0.601 | 0.537 | 0.672 |
|                                                                           | IMD 3                                  | - 0.631        | 0.058 | <0.001 | 0.532 | 0.475 | 0.596 |
|                                                                           | IMD 4                                  | - 0.697        | 0.059 | <0.001 | 0.498 | 0.443 | 0.559 |
|                                                                           | IMD 5 (least deprived)                 | - 0.985        | 0.061 | <0.001 | 0.373 | 0.331 | 0.421 |
|                                                                           | IMD 1 (most deprived) (reference)      | 0 <sup>b</sup> |       |        |       |       |       |
| a. The reference category is: Less than once a week, once a year or more. |                                        |                |       |        |       |       |       |
| b. This parameter is set to zero because it is redundant.                 |                                        |                |       |        |       |       |       |

| Table C14 Multinomial regression model for frequency of train use <sup>a</sup><br>Stage 2 model, all disabled respondents |                  |                |       |        |                     |                 |                |
|---------------------------------------------------------------------------------------------------------------------------|------------------|----------------|-------|--------|---------------------|-----------------|----------------|
| Predictor                                                                                                                 |                  | B              | S.E.  | Sig.   | Odds ratio (Exp(B)) | 95% CI (Lower ) | 95% CI (Upper) |
| <b>At least once a week</b>                                                                                               |                  |                |       |        |                     |                 |                |
|                                                                                                                           | Intercept        | -0.369         | 0.415 | 0.374  |                     |                 |                |
| Gender                                                                                                                    | Female           | -0.289         | 0.195 | 0.139  | 0.749               | 0.511           | 1.098          |
|                                                                                                                           | Male (reference) | 0 <sup>b</sup> |       |        |                     |                 |                |
| Age                                                                                                                       | 30 to 64         | -0.931         | 0.249 | <0.001 | 0.394               | 0.242           | 0.642          |
|                                                                                                                           | 65 to 74         | -0.976         | 0.397 | 0.014  | 0.377               | 0.173           | 0.820          |

|                      |                                                                      |                |       |        |       |       |       |
|----------------------|----------------------------------------------------------------------|----------------|-------|--------|-------|-------|-------|
|                      | 75+                                                                  | -0.945         | 0.474 | 0.046  | 0.389 | 0.153 | 0.985 |
|                      | 18 to 29<br>(reference)                                              | 0 <sup>b</sup> |       |        |       |       |       |
| Ethnicity            | Asian, Asian<br>British, or<br>Asian Welsh                           | 0.345          | 0.393 | 0.381  | 1.411 | 0.653 | 3.049 |
|                      | Black, Black<br>British, Black<br>Welsh,<br>Caribbean,<br>or African | 1.199          | 0.334 | <0.001 | 3.316 | 1.722 | 6.385 |
|                      | Mixed or<br>Multiple and<br>Other ethnic<br>groups                   | 0.756          | 0.453 | 0.095  | 2.130 | 0.876 | 5.179 |
|                      | White<br>(reference)                                                 | 0 <sup>b</sup> |       |        |       |       |       |
| Area type            | Rural                                                                | -0.971         | 0.397 | 0.014  | 0.379 | 0.174 | 0.824 |
|                      | Urban<br>(reference)                                                 | 0 <sup>b</sup> |       |        |       |       |       |
| Economic<br>Activity | Economically<br>inactive                                             | -0.705         | 0.234 | 0.003  | 0.494 | 0.313 | 0.782 |
|                      | In work - part<br>time or full<br>time                               | 0 <sup>b</sup> |       |        |       |       |       |
| Houshold<br>type     | Multiple<br>adults no<br>children                                    | -0.710         | 0.272 | 0.009  | 0.492 | 0.289 | 0.837 |
|                      | Households<br>with children                                          | -0.487         | 0.308 | 0.114  | 0.615 | 0.336 | 1.124 |
|                      | Single adult<br>(reference)                                          | 0 <sup>b</sup> |       |        |       |       |       |
| Househol<br>d income | Medium<br>(£25,000 to<br>£49,999)                                    | -0.099         | 0.285 | 0.727  | 0.905 | 0.518 | 1.583 |
|                      | Highest<br>(£50,000 and<br>over)                                     | 0.287          | 0.282 | 0.309  | 1.332 | 0.767 | 2.315 |
|                      | Lowest (Less<br>than<br>£25,000)<br>(reference)                      | 0 <sup>b</sup> |       |        |       |       |       |
| IMD                  | IMD 2                                                                | -0.005         | 0.288 | 0.986  | 0.995 | 0.566 | 1.749 |
|                      | IMD 3                                                                | 0.106          | 0.287 | 0.712  | 1.112 | 0.633 | 1.952 |
|                      | IMD 4                                                                | 0.098          | 0.321 | 0.760  | 1.103 | 0.587 | 2.071 |
|                      | IMD 5 (least<br>deprived)                                            | 0.257          | 0.317 | 0.418  | 1.293 | 0.694 | 2.406 |
|                      | IMD 1 (most<br>deprived)<br>(reference)                              | 0 <sup>b</sup> |       |        |       |       |       |

|                                                                             |                                                     |                |       |        |       |       |       |
|-----------------------------------------------------------------------------|-----------------------------------------------------|----------------|-------|--------|-------|-------|-------|
| Impairment type                                                             | Cognitive impairment                                | 0.227          | 0.232 | 0.329  | 1.255 | 0.796 | 1.978 |
|                                                                             | No cognitive impairment (reference)                 | 0 <sup>b</sup> |       |        |       |       |       |
|                                                                             | Hearing or speech impairment                        | -0.468         | 0.367 | 0.203  | 0.626 | 0.305 | 1.287 |
|                                                                             | No hearing or speech impairment (reference)         | 0 <sup>b</sup> |       |        |       |       |       |
|                                                                             | Vision impairment                                   | -0.237         | 0.337 | 0.482  | 0.789 | 0.408 | 1.528 |
|                                                                             | No vision impairment (reference)                    | 0 <sup>b</sup> |       |        |       |       |       |
|                                                                             | Mobility impairment                                 | -0.073         | 0.214 | 0.734  | 0.930 | 0.612 | 1.414 |
|                                                                             | No mobility impairment (reference)                  | 0 <sup>b</sup> |       |        |       |       |       |
|                                                                             | Impairment relating to mental health                | -0.075         | 0.227 | 0.741  | 0.928 | 0.594 | 1.448 |
|                                                                             | No Impairment relating to mental health (reference) | 0 <sup>b</sup> |       |        |       |       |       |
|                                                                             | Other physical Impairment                           | -0.110         | 0.202 | 0.586  | 0.896 | 0.603 | 1.332 |
|                                                                             | No other physical Impairment (reference)            | 0 <sup>b</sup> |       |        |       |       |       |
|                                                                             | Other impairment                                    | -1.072         | 0.559 | 0.055  | 0.342 | 0.114 | 1.025 |
|                                                                             | No other impairment (reference)                     | 0 <sup>b</sup> |       |        |       |       |       |
| <b>Less than once a week but more than once a year (reference category)</b> |                                                     |                |       |        |       |       |       |
| <b>Less than once a year or never</b>                                       |                                                     |                |       |        |       |       |       |
|                                                                             | Intercept                                           | -0.305         | 0.214 | 0.154  |       |       |       |
| Gender                                                                      | Female                                              | -0.020         | 0.089 | 0.822  | 0.980 | 0.824 | 1.166 |
|                                                                             | Male (reference)                                    | 0 <sup>b</sup> |       |        |       |       |       |
| Age                                                                         | 30 to 64                                            | 0.226          | 0.147 | 0.126  | 1.253 | 0.939 | 1.673 |
|                                                                             | 65 to 74                                            | 0.321          | 0.184 | 0.082  | 1.378 | 0.960 | 1.979 |
|                                                                             | 75+                                                 | 1.105          | 0.193 | <0.001 | 3.020 | 2.069 | 4.407 |

|                   |                                                          |                |       |        |       |       |       |
|-------------------|----------------------------------------------------------|----------------|-------|--------|-------|-------|-------|
|                   | 18 to 29<br>(reference)                                  | 0 <sup>b</sup> |       |        |       |       |       |
| Ethnicity         | Asian, Asian British, or Asian Welsh                     | 0.352          | 0.188 | 0.061  | 1.422 | 0.984 | 2.057 |
|                   | Black, Black British, Black Welsh, Caribbean, or African | -0.532         | 0.242 | 0.028  | 0.587 | 0.365 | 0.944 |
|                   | Mixed or Multiple and Other ethnic groups                | -0.253         | 0.262 | 0.336  | 0.777 | 0.464 | 1.299 |
|                   | White<br>(reference)                                     | 0 <sup>b</sup> |       |        |       |       |       |
| Area type         | Rural                                                    | 0.226          | 0.123 | 0.067  | 1.253 | 0.985 | 1.595 |
|                   | Urban<br>(reference)                                     | 0 <sup>b</sup> |       |        |       |       |       |
| Economic Activity | Economically inactive                                    | 0.762          | 0.108 | <0.001 | 2.143 | 1.736 | 2.646 |
|                   | In work - part time or full time                         | 0 <sup>b</sup> |       |        |       |       |       |
| Houshold type     | Multiple adults no children                              | 0.379          | 0.117 | 0.001  | 1.461 | 1.163 | 1.837 |
|                   | Households with children                                 | 0.353          | 0.147 | 0.017  | 1.423 | 1.066 | 1.900 |
|                   | Single adult<br>(reference)                              | 0 <sup>b</sup> |       |        |       |       |       |
| Household income  | Medium (£25,000 to £49,999)                              | -0.271         | 0.116 | 0.020  | 0.762 | 0.607 | 0.958 |
|                   | Highest (£50,000 and over)                               | -0.594         | 0.125 | <0.001 | 0.552 | 0.432 | 0.706 |
|                   | Lowest (Less than £25,000)<br>(reference)                | 0 <sup>b</sup> |       |        |       |       |       |
| IMD               | IMD 2                                                    | -0.572         | 0.127 | <0.001 | 0.564 | 0.440 | 0.724 |
|                   | IMD 3                                                    | -0.548         | 0.129 | <0.001 | 0.578 | 0.449 | 0.744 |
|                   | IMD 4                                                    | -0.456         | 0.141 | 0.001  | 0.634 | 0.481 | 0.835 |
|                   | IMD 5 (least deprived)                                   | -0.730         | 0.148 | <0.001 | 0.482 | 0.360 | 0.645 |
|                   | IMD 1 (most deprived)<br>(reference)                     | 0 <sup>b</sup> |       |        |       |       |       |
| Impairment type   | Cognitive impairment                                     | -0.005         | 0.110 | 0.962  | 0.995 | 0.801 | 1.235 |

|                                                                           |                                                     |                |       |        |       |       |       |
|---------------------------------------------------------------------------|-----------------------------------------------------|----------------|-------|--------|-------|-------|-------|
|                                                                           | No cognitive impairment (reference)                 | 0 <sup>b</sup> |       |        |       |       |       |
|                                                                           | Hearing or speech impairment                        | 0.166          | 0.130 | 0.201  | 1.181 | 0.915 | 1.524 |
|                                                                           | No hearing or speech impairment (reference)         | 0 <sup>b</sup> |       |        |       |       |       |
|                                                                           | Vision impairment                                   | -0.033         | 0.136 | 0.809  | 0.968 | 0.741 | 1.263 |
|                                                                           | No vision impairment (reference)                    | 0 <sup>b</sup> |       |        |       |       |       |
|                                                                           | Mobility impairment                                 | 0.453          | 0.096 | <0.001 | 1.573 | 1.302 | 1.900 |
|                                                                           | No mobility impairment (reference)                  | 0 <sup>b</sup> |       |        |       |       |       |
|                                                                           | Impairment relating to mental health                | 0.043          | 0.107 | 0.690  | 1.044 | 0.846 | 1.287 |
|                                                                           | No Impairment relating to mental health (reference) | 0 <sup>b</sup> |       |        |       |       |       |
|                                                                           | Other physical Impairment                           | 0.117          | 0.091 | 0.200  | 1.125 | 0.940 | 1.345 |
|                                                                           | No other physical Impairment (reference)            | 0 <sup>b</sup> |       |        |       |       |       |
|                                                                           | Other impairment                                    | 0.285          | 0.190 | 0.133  | 1.330 | 0.916 | 1.930 |
|                                                                           | No other impairment (reference)                     | 0 <sup>b</sup> |       |        |       |       |       |
| a. The reference category is: Less than once a week, once a year or more. |                                                     |                |       |        |       |       |       |
| b. This parameter is set to zero because it is redundant.                 |                                                     |                |       |        |       |       |       |

### Frequency travelling by taxi

| Table C15 Multinomial regression model for frequency of taxi use <sup>a</sup><br>Stage 1 model, all respondents |  |   |      |      |                     |                 |                |
|-----------------------------------------------------------------------------------------------------------------|--|---|------|------|---------------------|-----------------|----------------|
| Predictor                                                                                                       |  | B | S.E. | Sig. | Odds ratio (Exp(B)) | 95% CI (Lower ) | 95% CI (Upper) |
| At least once a week                                                                                            |  |   |      |      |                     |                 |                |

|                          |                                                          |                |       |        |       |       |       |
|--------------------------|----------------------------------------------------------|----------------|-------|--------|-------|-------|-------|
|                          | Intercept                                                | -0.727         | 0.132 | <0.001 |       |       |       |
| Disability status        | Disabled                                                 | 0.528          | 0.083 | <0.001 | 1.695 | 1.442 | 1.993 |
|                          | Non-disabled (reference)                                 | 0 <sup>b</sup> |       |        |       |       |       |
| Age                      | 30 to 64                                                 | -0.671         | 0.075 | <0.001 | 0.511 | 0.441 | 0.592 |
|                          | 65 to 74                                                 | -0.654         | 0.132 | <0.001 | 0.520 | 0.402 | 0.673 |
|                          | 75+                                                      | -0.557         | 0.140 | <0.001 | 0.573 | 0.435 | 0.755 |
|                          | 18 to 29 (reference)                                     | 0 <sup>b</sup> |       |        |       |       |       |
| Gender                   | Female                                                   | 0.092          | 0.064 | 0.148  | 1.096 | 0.968 | 1.242 |
|                          | Male (reference)                                         | 0 <sup>b</sup> |       |        |       |       |       |
| Ethnicity                | Asian, Asian British, or Asian Welsh                     | 0.145          | 0.105 | 0.166  | 1.156 | 0.942 | 1.420 |
|                          | Black, Black British, Black Welsh, Caribbean, or African | 0.887          | 0.117 | <0.001 | 2.429 | 1.930 | 3.057 |
|                          | Mixed or Multiple and Other ethnic groups                | 0.608          | 0.131 | <0.001 | 1.838 | 1.420 | 2.378 |
|                          | White (reference)                                        | 0 <sup>b</sup> |       |        |       |       |       |
| Area type                | Rural                                                    | -0.818         | 0.140 | <0.001 | 0.441 | 0.335 | 0.581 |
|                          | Urban (reference)                                        | 0 <sup>b</sup> |       |        |       |       |       |
| Economic activity status | Economically inactive                                    | 0.020          | 0.084 | 0.811  | 1.020 | 0.865 | 1.204 |
|                          | Working full or part time (reference)                    | 0 <sup>b</sup> |       |        |       |       |       |
| Household type           | Multiple adults no children                              | 0.028          | 0.099 | 0.779  | 1.028 | 0.847 | 1.247 |

|                                                        |                                        |                |       |        |       |       |       |
|--------------------------------------------------------|----------------------------------------|----------------|-------|--------|-------|-------|-------|
|                                                        | Households with children               | 0.018          | 0.109 | 0.868  | 1.018 | 0.822 | 1.261 |
|                                                        | Single adult (reference)               | 0 <sup>b</sup> |       |        |       |       |       |
| Household income                                       | Medium (£25,000 to £49,999)            | -0.526         | 0.096 | <0.001 | 0.591 | 0.489 | 0.713 |
|                                                        | Highest (£50,000 and over)             | -0.583         | 0.092 | <0.001 | 0.558 | 0.466 | 0.668 |
|                                                        | Lowest (Less than £25,000) (reference) | 0 <sup>b</sup> |       |        |       |       |       |
| IMD                                                    | IMD 2                                  | -0.408         | 0.090 | <0.001 | 0.665 | 0.557 | 0.793 |
|                                                        | IMD 3                                  | -0.577         | 0.097 | <0.001 | 0.562 | 0.465 | 0.679 |
|                                                        | IMD 4                                  | -0.590         | 0.099 | <0.001 | 0.554 | 0.456 | 0.674 |
|                                                        | IMD 5 (least deprived)                 | -0.763         | 0.104 | <0.001 | 0.466 | 0.380 | 0.572 |
|                                                        | IMD 1 (most deprived) (reference)      | 0 <sup>b</sup> |       |        |       |       |       |
| <b>Less than once a week but more than once a year</b> |                                        |                |       |        |       |       |       |
| <b>Less than once a year or never</b>                  |                                        |                |       |        |       |       |       |
|                                                        | Intercept                              | -0.382         | 0.080 | <0.001 |       |       |       |
| Disability status                                      | Disabled                               | 0.145          | 0.048 | 0.003  | 1.156 | 1.052 | 1.271 |
|                                                        | Non-disabled (reference)               | 0 <sup>b</sup> |       |        |       |       |       |
| Age                                                    | 30 to 64                               | 0.099          | 0.047 | 0.036  | 1.104 | 1.007 | 1.210 |
|                                                        | 65 to 74                               | 0.384          | 0.071 | <0.001 | 1.468 | 1.278 | 1.686 |
|                                                        | 75+                                    | 0.531          | 0.077 | <0.001 | 1.700 | 1.462 | 1.977 |
|                                                        | 18 to 29 (reference)                   | 0 <sup>b</sup> |       |        |       |       |       |
| Gender                                                 | Female                                 | -0.150         | 0.034 | <0.001 | 0.861 | 0.805 | 0.921 |
|                                                        | Male (reference)                       | 0 <sup>b</sup> |       |        |       |       |       |
| Ethnicity                                              | Asian, Asian British, or               | 0.586          | 0.055 | <0.001 | 1.797 | 1.614 | 2.002 |

|                          |                                                          |                |       |        |       |       |       |
|--------------------------|----------------------------------------------------------|----------------|-------|--------|-------|-------|-------|
|                          | Asian Welsh                                              |                |       |        |       |       |       |
|                          | Black, Black British, Black Welsh, Caribbean, or African | -0.005         | 0.092 | 0.955  | 0.995 | 0.831 | 1.191 |
|                          | Mixed or Multiple and Other ethnic groups                | -0.224         | 0.099 | 0.023  | 0.799 | 0.659 | 0.969 |
|                          | White (reference)                                        | 0 <sup>b</sup> |       |        |       |       |       |
| Area type                | Rural                                                    | 0.534          | 0.048 | <0.001 | 1.707 | 1.555 | 1.873 |
|                          | Urban (reference)                                        | 0 <sup>b</sup> |       |        |       |       |       |
| Economic activity status | Economically inactive                                    | 0.265          | 0.047 | <0.001 | 1.303 | 1.189 | 1.429 |
|                          | Working full or part time (reference)                    | 0 <sup>b</sup> |       |        |       |       |       |
| Household type           | Multiple adults no children                              | 0.351          | 0.055 | <0.001 | 1.420 | 1.274 | 1.582 |
|                          | Households with children                                 | 0.366          | 0.062 | <0.001 | 1.442 | 1.277 | 1.628 |
|                          | Single adult (reference)                                 | 0 <sup>b</sup> |       |        |       |       |       |
| Household income         | Medium (£25,000 to £49,999)                              | -0.062         | 0.053 | 0.247  | 0.940 | 0.847 | 1.044 |
|                          | Highest (£50,000 and over)                               | -0.474         | 0.053 | <0.001 | 0.622 | 0.561 | 0.690 |
|                          | Lowest (Less than £25,000) (reference)                   | 0 <sup>b</sup> |       |        |       |       |       |
| IMD                      | IMD 2                                                    | -0.130         | 0.055 | 0.018  | 0.878 | 0.788 | 0.978 |
|                          | IMD 3                                                    | -0.057         | 0.055 | 0.300  | 0.945 | 0.848 | 1.052 |
|                          | IMD 4                                                    | -0.242         | 0.056 | <0.001 | 0.785 | 0.703 | 0.876 |
|                          | IMD 5 (least deprived)                                   | -0.344         | 0.057 | <0.001 | 0.709 | 0.635 | 0.792 |

|                                                                               |                                            |                |  |  |  |  |  |
|-------------------------------------------------------------------------------|--------------------------------------------|----------------|--|--|--|--|--|
|                                                                               | IMD 1<br>(most<br>deprived)<br>(reference) | 0 <sup>b</sup> |  |  |  |  |  |
| a. The reference category is: Less than once a week but at least once a year. |                                            |                |  |  |  |  |  |
| b. This parameter is set to zero because it is redundant.                     |                                            |                |  |  |  |  |  |

| Table C16 Multinomial regression model for frequency of taxi use <sup>a</sup><br>Stage 2 model, all disabled respondents |                                                                            |                |       |       |                           |                       |                          |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------|-------|-------|---------------------------|-----------------------|--------------------------|
| Predictor                                                                                                                |                                                                            | B              | S.E.  | Sig.  | Odds<br>ratio<br>(Exp(B)) | 95% CI<br>(Lower<br>) | 95%<br>CI<br>(Up<br>per) |
| <b>At least once a week</b>                                                                                              |                                                                            |                |       |       |                           |                       |                          |
|                                                                                                                          | Intercept                                                                  | -0.884         | 0.306 | 0.004 |                           |                       |                          |
| Gender                                                                                                                   | Female                                                                     | 0.405          | 0.142 | 0.004 | 1.499                     | 1.134                 | 1.981                    |
|                                                                                                                          | Male<br>(reference)                                                        | 0 <sup>b</sup> |       |       |                           |                       |                          |
| Age                                                                                                                      | 30 to 64                                                                   | -0.553         | 0.203 | 0.006 | 0.575                     | 0.387                 | 0.856                    |
|                                                                                                                          | 65 to 74                                                                   | -0.505         | 0.275 | 0.066 | 0.604                     | 0.352                 | 1.034                    |
|                                                                                                                          | 75+                                                                        | -0.524         | 0.275 | 0.056 | 0.592                     | 0.345                 | 1.014                    |
|                                                                                                                          | 18 to 29<br>(reference)                                                    | 0 <sup>b</sup> |       |       |                           |                       |                          |
| Ethnicity                                                                                                                | Asian,<br>Asian<br>British, or<br>Asian<br>Welsh                           | 0.258          | 0.286 | 0.368 | 1.294                     | 0.738                 | 2.268                    |
|                                                                                                                          | Black,<br>Black<br>British,<br>Black<br>Welsh,<br>Caribbean,<br>or African | 0.823          | 0.279 | 0.003 | 2.277                     | 1.319                 | 3.930                    |
|                                                                                                                          | Mixed or<br>Multiple<br>and Other<br>ethnic<br>groups                      | 0.968          | 0.315 | 0.002 | 2.632                     | 1.420                 | 4.878                    |
|                                                                                                                          | White<br>(reference)                                                       | 0 <sup>b</sup> |       |       |                           |                       |                          |
| Area type                                                                                                                | Rural                                                                      | -1.029         | 0.312 | 0.001 | 0.357                     | 0.194                 | 0.659                    |
|                                                                                                                          | Urban<br>(reference)                                                       | 0 <sup>b</sup> |       |       |                           |                       |                          |

|                   |                                             |                |       |        |       |       |       |
|-------------------|---------------------------------------------|----------------|-------|--------|-------|-------|-------|
| Economic Activity | Economically inactive                       | 0.161          | 0.173 | 0.352  | 1.175 | 0.837 | 1.650 |
|                   | In work - part time or full time            | 0 <sup>b</sup> |       |        |       |       |       |
| Household type    | Multiple adults no children                 | -0.058         | 0.174 | 0.738  | 0.944 | 0.671 | 1.326 |
|                   | Households with children                    | 0.221          | 0.215 | 0.304  | 1.248 | 0.818 | 1.903 |
|                   | Single adult (reference)                    | 0 <sup>b</sup> |       |        |       |       |       |
| Household income  | Medium (£25,000 to £49,999)                 | -0.543         | 0.186 | 0.003  | 0.581 | 0.404 | 0.836 |
|                   | Highest (£50,000 and over)                  | -0.460         | 0.191 | 0.016  | 0.631 | 0.434 | 0.918 |
|                   | Lowest (Less than £25,000) (reference)      | 0 <sup>b</sup> |       |        |       |       |       |
| IMD               | IMD 2                                       | -0.391         | 0.183 | 0.033  | 0.676 | 0.473 | 0.968 |
|                   | IMD 3                                       | -0.341         | 0.189 | 0.071  | 0.711 | 0.491 | 1.029 |
|                   | IMD 4                                       | -0.880         | 0.239 | <0.001 | 0.415 | 0.260 | 0.663 |
|                   | IMD 5 (least deprived)                      | -0.622         | 0.233 | 0.008  | 0.537 | 0.340 | 0.848 |
|                   | IMD 1 (most deprived) (reference)           | 0 <sup>b</sup> |       |        |       |       |       |
| Impairment type   | Cognitive impairment                        | -0.136         | 0.167 | 0.414  | 0.873 | 0.630 | 1.210 |
|                   | No cognitive impairment (reference)         | 0 <sup>b</sup> |       |        |       |       |       |
|                   | Hearing or speech impairment                | 0.305          | 0.184 | 0.097  | 1.357 | 0.946 | 1.947 |
|                   | No hearing or speech impairment (reference) | 0 <sup>b</sup> |       |        |       |       |       |
|                   | Vision impairment                           | 0.523          | 0.177 | 0.003  | 1.687 | 1.192 | 2.389 |

|                                                                    |                                                     |                |       |       |       |       |       |
|--------------------------------------------------------------------|-----------------------------------------------------|----------------|-------|-------|-------|-------|-------|
|                                                                    | No vision impairment (reference)                    | 0 <sup>b</sup> |       |       |       |       |       |
|                                                                    | Mobility impairment                                 | 0.207          | 0.155 | 0.181 | 1.230 | 0.908 | 1.666 |
|                                                                    | No mobility impairment (reference)                  | 0 <sup>b</sup> |       |       |       |       |       |
|                                                                    | Impairment relating to mental health                | 0.264          | 0.160 | 0.099 | 1.302 | 0.951 | 1.782 |
|                                                                    | No Impairment relating to mental health (reference) | 0 <sup>b</sup> |       |       |       |       |       |
|                                                                    | Other physical Impairment                           | -0.202         | 0.143 | 0.159 | 0.817 | 0.618 | 1.082 |
|                                                                    | No other physical Impairment (reference)            | 0 <sup>b</sup> |       |       |       |       |       |
|                                                                    | Other impairment                                    | -0.228         | 0.358 | 0.524 | 0.796 | 0.395 | 1.605 |
|                                                                    | No other impairment (reference)                     | 0 <sup>b</sup> |       |       |       |       |       |
| <b>Less than once a week but more than once a year (reference)</b> |                                                     |                |       |       |       |       |       |
| <b>Less than once a year or never</b>                              |                                                     |                |       |       |       |       |       |
|                                                                    | Intercept                                           | -0.625         | 0.207 | 0.003 |       |       |       |
| Gender                                                             | Female                                              | -0.083         | 0.084 | 0.320 | 0.920 | 0.781 | 1.084 |
|                                                                    | Male (reference)                                    | 0 <sup>b</sup> |       |       |       |       |       |
| Age                                                                | 30 to 64                                            | 0.233          | 0.147 | 0.113 | 1.263 | 0.946 | 1.685 |
|                                                                    | 65 to 74                                            | 0.314          | 0.182 | 0.085 | 1.369 | 0.958 | 1.957 |
|                                                                    | 75+                                                 | 0.314          | 0.181 | 0.084 | 1.368 | 0.959 | 1.953 |
|                                                                    | 18 to 29 (reference)                                | 0 <sup>b</sup> |       |       |       |       |       |
| Ethnicity                                                          | Asian, Asian British, or Asian Welsh                | 0.382          | 0.181 | 0.035 | 1.465 | 1.027 | 2.088 |

|                   |                                                          |                |       |        |       |       |       |
|-------------------|----------------------------------------------------------|----------------|-------|--------|-------|-------|-------|
|                   | Black, Black British, Black Welsh, Caribbean, or African | -0.301         | 0.245 | 0.220  | 0.740 | 0.458 | 1.198 |
|                   | Mixed or Multiple and Other ethnic groups                | -0.091         | 0.270 | 0.737  | 0.913 | 0.538 | 1.551 |
|                   | White (reference)                                        | 0 <sup>b</sup> |       |        |       |       |       |
| Area type         | Rural                                                    | 0.596          | 0.116 | <0.001 | 1.814 | 1.445 | 2.277 |
|                   | Urban (reference)                                        | 0 <sup>b</sup> |       |        |       |       |       |
| Economic Activity | Economically inactive                                    | 0.525          | 0.107 | <0.001 | 1.690 | 1.370 | 2.086 |
|                   | In work - part time or full time                         | 0 <sup>b</sup> |       |        |       |       |       |
| Household type    | Multiple adults no children                              | 0.315          | 0.107 | 0.003  | 1.371 | 1.110 | 1.692 |
|                   | Households with children                                 | 0.462          | 0.142 | 0.001  | 1.588 | 1.201 | 2.099 |
|                   | Single adult (reference)                                 | 0 <sup>b</sup> |       |        |       |       |       |
| Household income  | Medium (£25,000 to £49,999)                              | 0.096          | 0.109 | 0.378  | 1.101 | 0.889 | 1.362 |
|                   | Highest (£50,000 and over)                               | -0.272         | 0.120 | 0.023  | 0.762 | 0.603 | 0.964 |
|                   | Lowest (Less than £25,000) (reference)                   | 0 <sup>b</sup> |       |        |       |       |       |
| IMD               | IMD 2                                                    | -0.028         | 0.121 | 0.818  | 0.973 | 0.767 | 1.233 |
|                   | IMD 3                                                    | 0.040          | 0.122 | 0.745  | 1.040 | 0.820 | 1.321 |
|                   | IMD 4                                                    | -0.119         | 0.131 | 0.366  | 0.888 | 0.687 | 1.149 |
|                   | IMD 5 (least deprived)                                   | -0.336         | 0.140 | 0.016  | 0.715 | 0.544 | 0.940 |
|                   | IMD 1 (most                                              | 0 <sup>b</sup> |       |        |       |       |       |

|                    |                                                                    |                |       |       |       |       |           |
|--------------------|--------------------------------------------------------------------|----------------|-------|-------|-------|-------|-----------|
|                    | deprived)<br>(reference)                                           |                |       |       |       |       |           |
| Impairment<br>type | Cognitive<br>impairment                                            | -0.018         | 0.105 | 0.863 | 0.982 | 0.799 | 1.20<br>7 |
|                    | No<br>cognitive<br>impairment<br>(reference)                       | 0 <sup>b</sup> |       |       |       |       |           |
|                    | Hearing or<br>speech<br>impairment                                 | 0.066          | 0.120 | 0.584 | 1.068 | 0.844 | 1.35<br>1 |
|                    | No hearing<br>or speech<br>impairment<br>(reference)               | 0 <sup>b</sup> |       |       |       |       |           |
|                    | Vision<br>impairment                                               | -0.263         | 0.130 | 0.043 | 0.769 | 0.596 | 0.99<br>1 |
|                    | No vision<br>impairment<br>(reference)                             | 0 <sup>b</sup> |       |       |       |       |           |
|                    | Mobility<br>impairment                                             | 0.131          | 0.093 | 0.161 | 1.140 | 0.949 | 1.36<br>9 |
|                    | No mobility<br>impairment<br>(reference)                           | 0 <sup>b</sup> |       |       |       |       |           |
|                    | Impairment<br>relating to<br>mental<br>health                      | -0.118         | 0.104 | 0.258 | 0.889 | 0.725 | 1.09<br>0 |
|                    | No<br>Impairment<br>relating to<br>mental<br>health<br>(reference) | 0 <sup>b</sup> |       |       |       |       |           |
|                    | Other<br>physical<br>Impairment                                    | -0.080         | 0.087 | 0.359 | 0.923 | 0.779 | 1.09<br>5 |
|                    | No other<br>physical<br>Impairment<br>(reference)                  | 0 <sup>b</sup> |       |       |       |       |           |
|                    | Other<br>impairment                                                | 0.367          | 0.185 | 0.047 | 1.444 | 1.006 | 2.07<br>3 |
|                    | No other<br>impairment<br>(reference)                              | 0 <sup>b</sup> |       |       |       |       |           |

a. The reference category is: Less than once a week but at least once a year.

b. This parameter is set to zero because it is redundant.