

Supplementary Table 1: Measured and estimated distances and one-way journey times from Swindon to local Radiotherapy Centres (1 mile = 1.61 km)

| Destination Radiotherapy Centre | Number of Journeys tested | Measured mean distance driven from Swindon (miles) and range | Google Maps® estimate of one-way travel distance (miles) | Measured mean one-way journey times (minutes) and range | Google Maps® estimate of one-way journey time (minutes) |
|--|----------------------------------|---|---|--|--|
| Oxford | 8 | 36.6 (36.4 - 36.8) | 36.4 | 53 (44 - 62) | 52 |
| Bath | 4 | 39.0 (38.4 - 39.6) | 38.6 | 47 (44 - 50) | 45 |

Supplementary Table 2: UK Population living within cities or towns containing a radiotherapy centre (UK Office for National Statistics 2011) (Office for National Statistics, 2011) [28]

| City/ Town with RT Centre | Population |
|--|-------------------------|
| London | 8,600,000 |
| Newcastle | 1,650,000 |
| Birmingham | 1,085,400 |
| Leeds | 751,500 |
| Glasgow | 592,820 |
| Belfast | 579,276 |
| Sheffield | 551,800 |
| Manchester | 510,700 |
| Leicester | 509,000 |
| Edinburgh | 486,120 |
| Liverpool | 465,700 |
| Bristol | 437,500 |
| Cardiff | 346,000 |
| Coventry | 316,900 |
| Nottingham | 310,837 |
| Brighton | 273,369 |
| Hull | 256,406 |
| Plymouth | 256,400 |
| Southampton | 253,651 |
| Wolverhampton | 249,470 |
| Derby | 248,752 |
| Swansea | 239,000 |
| Romford | 237,232 |
| Aberdeen | 217,120 |
| Norwich | 213,166 |
| Northampton | 212,000 |
| Portsmouth | 209,166 |
| Peterborough | 183,600 |
| Colchester | 176,008 |
| Southend | 174,800 |
| Reading | 155,698 |
| Canterbury | 151,200 |
| Oxford | 150,200 |
| Poole | 149,000 |
| Dundee | 144,290 |
| Middlesborough | 138,400 |
| Guildford | 137,200 |
| Preston | 135,100 |
| Ipswich | 133,400 |
| Lincoln | 132,500 |
| Stafford | 130,800 |
| Cambridge | 123,867 |
| Exeter | 117,773 |
| Cheltenham | 115,700 |
| Taunton | 110,200 |
| Carlisle | 107,500 |
| Basingstoke | 107,355 |
| Shrewsbury | 102,382 |
| Londonderry | 90,736 |
| Bath | 88,859 |
| Torquay | 65,245 |
| Inverness | 56,600 |
| Truro | 20,332 |
| Population within cities or towns with RT centres | 23,258,030 (37%) |
| Total UK population | 63,182,000 |
| Population outside of cities or towns with RT centres | 39,923,970 (63%) |