

**Pre-specified objectives developed around themes of illness, the individual and environment (11).**

1	Do the UK MS PDTB patients represent the UK multiple sclerosis/Parkinson's disease population? Study will analyse sex ratio, age of death and length of disease, determine if the subject is 'progressively dwindling' or not and whether MS/PD was mentioned on the death certificate. Data will be compared to the UK MSTB as a whole and the UK population
2	Is there an increase of health interventions (community, primary and secondary care) in the last year of life? Compare the number and type of interventions in the 0-12 and 13-24 months prior to death in the groups as a whole and individually. The null hypothesis is that there is no increase in interventions in the last year of life (0-12 months).
2.1	Do health interventions influence place of death? To determine if any of the health interventions influences the place of death.
2.2	Is it recognised the person is dying? To understand if it is recognised that a person with multiple sclerosis is starting to die what happens to them and does this recognition alter where they die. Determine if the timing of the recognition of dying influences where the person dies, the care they require and receive and if it prevents or results in a hospital admission.
3	Is place of death different from usual place of care (UPC)? This study will determine if UPC has any influence on place of death.
3.1	Where is the place of death? To record the place of death and compare the results from this study with previous studies evaluating place of death for people with multiple sclerosis is
4	Is preferred place of death (PPD) recorded? To identify if there is any record in the notes that a PPD has been discussed.
4.1	Does PPD correspond with place of death? To determine the relationship between PPD and place of death.
5	What role does family play in the care of people with multiple sclerosis is at the end of life? Determine which members of the family are involved in a subject's care at the end of their life and the role they have
5.1	Does it influence patient's decisions? Does the role of the family and if it affects a patient's decision
6	Do subjects have advanced care plan (ACP) for care at the end of their lives? Determine whether subjects make any advanced care planning decisions and their timing
6.1	If subjects have an ACP does it influence or alter where they die? Determine if subjects have completed an ACP document or have had an end of life care discussion (EoLC) discussion does it help or enable them to achieve the EoLC in a place of their choosing
7	Do patients who have progressive dwindling multiple sclerosis is get support from a specialist nurse at the end of their life? To determine role of the specialist nurse at the end of their life of subjects and the timing of their intervention.
7.1	Is this an influencing factor on patient's place of death? Determine if specialist nurse influenced where a subject died and whether they were a member of the multidisciplinary team that the family will turn to when the patient is recognised to be dying and requires support for EoLC.
8	Do subjects receive specialist palliative care services at the end of life? Determine if palliative care is involved in the people with multiple sclerosis is care and what care and when was it received.
8.1	Does the support from palliative care services influence place of death? Determine if palliative care services for subjects at the end of their lives influenced their place of death.

