Patient Profile - Diagnostic Schema

```json
{
    "name": "brain_health_clinic_patient_data",
    "description": "Schema containing patient information from the Brain Health Clinic assessment",
    "parameters": {
        "type": "object",
        "properties": {
            "diagnosis": {
                "type": "string",
                "description": "Current medical diagnosis status of the patient",
                "enum": [
                    "Mild Cognitive Impairment (MCI)"
                ]
            },
            "assessment_info": {
                "type": "object",
                "description": "Information about the assessment session",
                "properties": {
                    "date": {
                        "type": "string",
                        "format": "date",
                        "description": "Date when assessment was conducted"
                    },
                    "clinicians": {
                        "type": "array",
                        "description": "Clinicians who conducted the assessment",
                        "items": {
                            "type": "object",
                            "properties": {
                                "name": {
                                    "type": "string"
                                },
                                "role": {
                                    "type": "string"
                                }
                            }
                        }
                    }
                }
            },
            "patient_background": {
                "type": "object",
```

```json
      "description": "Patient's historical and contextual information",
      "properties": {
        "symptom_duration": {
          "type": "string",
          "description": "Duration of cognitive symptoms"
        },
        "employment_status": {
          "type": "string",
          "description": "Current employment status and reason for retirement if applicable"
        },
        "previous_occupation": {
          "type": "string",
          "description": "Details about previous work history and responsibilities"
        },
        "family_history": {
          "type": "object",
          "description": "Family history of relevant conditions",
          "properties": {
            "father": {
              "type": "string"
            },
            "mother": {
              "type": "string"
            }
          }
        },
        "caregiving_history": {
          "type": "string",
          "description": "History of being a caregiver and associated impacts"
        }
      }
    },
    "current_symptoms": {
      "type": "object",
      "description": "Current symptoms and functional challenges",
      "properties": {
        "cognitive_challenges": {
          "type": "array",
          "description": "List of cognitive difficulties experienced",
          "items": {
            "type": "string"
          }
        },
        "physical_symptoms": {
```

```json
                "type": "array",
                "description": "Physical symptoms and conditions",
                "items": {
                    "type": "string"
                }
            },
            "sleep_patterns": {
                "type": "array",
                "description": "Sleep-related patterns and issues",
                "items": {
                    "type": "string"
                }
            }
        }
    }
},
"assessment_results": {
    "type": "object",
    "description": "Results from clinical assessments",
    "properties": {
        "SMMSE": {
            "type": "string",
            "description": "Standardized Mini Mental State Examination score"
        },
        "ACE_III": {
            "type": "object",
            "description": "Addenbrooke's Cognitive Examination III scores",
            "properties": {
                "total": {
                    "type": "string"
                },
                "domain_performance": {
                    "type": "string"
                }
            }
        },
        "HADS": {
            "type": "object",
            "description": "Hospital Anxiety and Depression Scale scores",
            "properties": {
                "anxiety": {
                    "type": "string"
                },
                "depression": {
                    "type": "string"
```

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            },
            "interpretation": {
                "type": "string"
            }
        }
    },
    "AIADL": {
        "type": "string",
        "description": "Amsterdam Instrumental Activities of Daily Living score"
    },
    "neuropsychiatric_inventory": {
        "type": "object",
        "description": "Neuropsychiatric Inventory scores",
        "properties": {
            "depression": {
                "type": "object",
                "properties": {
                    "score": {
                        "type": "number"
                    },
                    "caregiver_distress": {
                        "type": "number"
                    }
                }
            },
            "anxiety": {
                "type": "object",
                "properties": {
                    "score": {
                        "type": "number"
                    },
                    "caregiver_distress": {
                        "type": "number"
                    }
                }
            },
            "apathy": {
                "type": "object",
                "properties": {
                    "score": {
                        "type": "number"
                    },
                    "caregiver_distress": {
                        "type": "number"
```

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                    }
                  }
                }
              }
            },
            "IQCODE": {
              "type": "number",
              "description": "Informant Questionnaire on Cognitive Decline in the Elderly score"
            },
            "imaging": {
              "type": "string",
              "description": "Results from brain imaging"
            }
          }
        },
        "treatment_plan": {
          "type": "array",
          "description": "Planned next steps for patient care",
          "items": {
            "type": "string"
          }
        },
        "clinical_observations": {
          "type": "array",
          "description": "Clinical observations from the assessment",
          "items": {
            "type": "string"
          }
        },
        "support_resources": {
          "type": "array",
          "description": "Support resources provided to the patient",
          "items": {
            "type": "string"
          }
        }
      },
      "required": [
        "diagnosis",
        "assessment_info",
        "patient_background",
        "current_symptoms",
        "assessment_results",
        "treatment_plan",
```

```
            "clinical_observations"
        ]
    }
}
```