



# Clinical Trial Search Report

*(Fictitious Example Case)*

**Patient Initials:** A.K.

**Age / Sex:** 54 / Male

**City:** Manchester

**Country:** United Kingdom

**Referring Physician:** Dr. S. Donnelly

**Primary Specialty:** Neurology

## 1. Diagnosis Summary

**Primary Diagnosis:** Amyotrophic Lateral Sclerosis (ALS)

**Subtype / Classification:** Limb-onset ALS

**Date of Diagnosis:** March 2024

**Disease Activity / Severity Scale:** ALSFRS-R: 34/48

**Current Symptoms:** Progressive weakness in right hand, mild dysarthria, fasciculations in upper limbs, exertional dyspnoea.

## 2. Medical Background & History

**Relevant Comorbidities:** Hypertension (controlled), mild asthma

**Past Medical / Surgical History:** Appendectomy (2002), knee arthroscopy (2017)

**Allergies:** Penicillin (rash)

---

Clarity Medicine

For more information, please visit our website at [www.claritymedicine.co.uk](http://www.claritymedicine.co.uk), email us at [info@claritymedicine.co.uk](mailto:info@claritymedicine.co.uk), or call us at +44 7802 782563.

Confidential – For Treating Physician Use Only

© 2025 Clarity Medicine. All rights reserved.

**Medications:** Amlodipine 5 mg OD, Riluzole 50 mg BID

**Functional Status Scale:** ECOG 1 / ALSFRS-R 34

### 3. Investigations Reviewed

#### Laboratory Tests

**Key Blood Tests:** Normal FBC, CK mildly elevated at 390 U/L

**Organ Function:** Renal and hepatic function normal

**Disease Biomarkers:** No genetic biomarkers performed prior to referral

#### Imaging

**MRI Brain/Spine (July 2024):** No structural lesion. Mild corticospinal tract hyperintensity.

**Disease Distribution / Progression Notes:** Symptoms progressing slowly over 9 months.

**Pathology / Biopsy** Not applicable (ALS is a clinical diagnosis).

#### Genetic / Molecular Testing

**Whole Exome Panel:** C9orf72 negative; SOD1 pathogenic variant p.Ala5Val identified.

**Additional variants:** None of known significance.

### 4. Treatment History

**Previous Treatments:-** Riluzole 50 mg twice daily (ongoing)

- Physiotherapy and speech therapy support

**Responses:** Slow progression; speech decline in past 3 months.

**Intolerances / Toxicities:** None reported.

**Reason for Stopping or Changing Therapy:** Not applicable; limited approved therapies available.

---

## 5. Trial Search Methodology

### Registries Searched:

ClinicalTrials.gov, EU Clinical Trials Register, ISRCTN, ANZCTR, NIHR Portfolio

### Search Filters:

ALS, Motor Neuron Disease, SOD1 mutation, antisense therapy, gene-targeted trials, Phase I–III, actively recruiting

### Eligibility Mapping Framework:-

- Symptom onset < 2 years
- ALSFRS-R 30+
- Confirmed SOD1 mutation
- FVC > 50%
- No tracheostomy or ventilatory dependence
- No severe hepatic/renal impairment

## 6. Summary of Trials Identified

**Total Trials Found:** 18

**Trials by Phase:** Phase I (4), Phase II (9), Phase III (5)

**Trials Open to International Patients:** 6

**Trials with Disease-Specific Mechanism:-** 5 antisense oligonucleotide (ASO) therapies targeting SOD1

- 2 gene-silencing viral-vector approaches
- 3 neuroinflammation modulators

## 7. Detailed Eligibility Matching

### Inclusion Criteria Status

### Key Disease Criteria Met:-

---

Clarity Medicine

For more information, please visit our website at [www.claritymedicine.co.uk](http://www.claritymedicine.co.uk), email us at [info@claritymedicine.co.uk](mailto:info@claritymedicine.co.uk), or call us at +44 7802 782563.

Confidential – For Treating Physician Use Only

© 2025 Clarity Medicine. All rights reserved.

- Confirmed ALS diagnosis
- Confirmed SOD1 mutation
- Symptom onset < 24 months
- ALSFRS-R above threshold

**Key Lab/Imaging Criteria Met:-**

- Normal organ function
- No contraindicating MRI findings

**Age / Functional Criteria Met:-** Age 54 (within 18–75 range)

- ECOG 1
- FVC 63% → Meets respiratory criterion

**Exclusion Criteria Status****Contraindications:** None identified**Disallowed Medications:** None**Organ Dysfunction Exclusion:** None**Overall Eligibility Conclusion:** Strong candidate for SOD1-targeted trials, especially ASO-based therapies.**8. Trials the Patient IS Eligible For**

Trial ID / Title	Mechanism of Action	Phase	Location	Why Eligible	Key Considerations
NCT89X11234 – SOD1-ASO	Antisense oligonucleo	II	Paris, France	Confirmed	Lumbar punctures

<b>Therapy “NeuroSilence -1”</b>	<b>tidal silencing SOD1</b>			<b>SOD1 mutatio n, FVC &gt; 50%, onset &lt; 24 months</b>	<b>every 4–6 weeks</b>
<b>NCT55X00821 – AAV-SOD1 Gene Therapy “AAV-SOD1- Modulate”</b>	<b>Gene delivery viral vector</b>	<b>I/II</b>	<b>London , UK</b>	<b>Meets all genetic + functio nal criteria</b>	<b>Requires 3- day inpatient stay for infusion</b>
<b>NCT72X99102 – SOD1 ASO + neuroinflamm ation modulator</b>	<b>Combinatio n approach</b>	<b>II</b>	<b>Barcelo na, Spain</b>	<b>Accept ed for prior riluzole; mutatio n- targete d</b>	<b>Screening lumbar puncture + EMG required</b>

---

## 9. Trials the Patient is NOT Eligible For

- **NCT11X44321:** Excluded → ALSFRS-R must be  $\geq 40$
- **NCT98X22109:** Excluded → Requires FVC  $\geq 70\%$
- **NCT77X55342:** Excluded → Excludes patients taking riluzole

## 10. Operational Feasibility

### Travel Requirements:

Trips to London or Paris feasible; Barcelona more complex.

### Visit Frequency:

Every 4–6 weeks depending on protocol.

### Required Tests & Local Availability:-

- Blood tests → Local GP/hospital
- Spirometry → Local hospital
- ECG → Local hospital
- MRI and lumbar puncture → Must be done on site

### International Feasibility:

Feasible for Paris and London; moderate difficulty for Spain.

### Estimated Costs (Travel Only):-

- £150–£350 per visit (London)
- £220–£420 per visit (Paris)

## 11. Recommendations for Treating Physician

### Trials Best Aligned with Patient Pathology:

- **NCT89X11234 (Paris) – ASO targeting SOD1**
- **NCT55X00821 (London) – Viral vector gene therapy**

---

**Rationale:**

Both directly target the confirmed SOD1 mutation and accept international applicants with current functional status.

**\*\*Next Steps:\*\***

1. Contact preferred trial sites
2. Confirm slot availability
3. Provide full medical file and genetic confirmation
4. Arrange baseline tests if needed

**12. Notes for Patient and Family (Lay Summary)****Explanation of Mechanism:**

SOD1-targeted clinical trials work by turning off or blocking the faulty gene that contributes to nerve cell damage in ALS.

**Risks & Expectations:**

These are experimental treatments. They may help slow disease progression, but **cannot cure ALS** and benefits are not guaranteed.

**What to Expect Next:-** You and your neurologist choose which trial to pursue

- We help with documents, logistics, questions, and communication with trial sites
- Screening assessments will confirm eligibility