

## Objective

To assess Artificial Intelligence Literacy (AIL) and Quality of Life (QoL) in people with Multiple Sclerosis (pwMS).

## Materials

PwMS were recruited at multiple sclerosis (MS) centres in Northern, Central, and Southern Italy during routine neurological follow-up visits or on infusion days. Data were collected via an online survey including:

- (I) sociodemographic and clinical variables;
- (II) the *Artificial Intelligence Literacy Scale (AILS)* (range 12–84, higher scores = greater AIL);
- (III) the *EuroQoL-5 Dimension (EQ-5D)* (index 0–1, 1 = perfect health).

## Methods

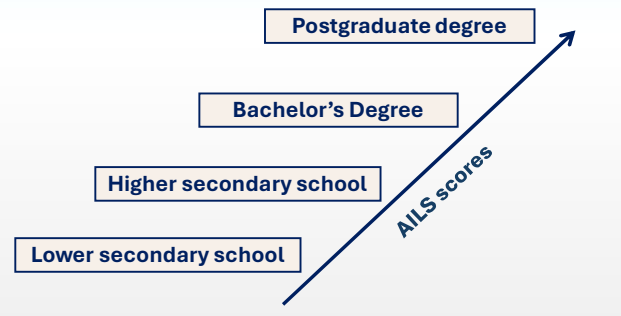
- It was employed a cross-sectional design (September 2024–January 2025).
- Statistical analyses were performed using the SPSS software (version 2.6).

## Results

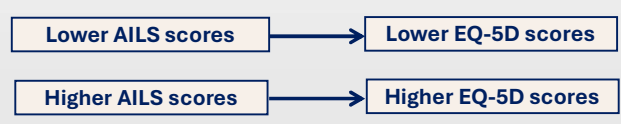
Among 300 participants, 78.7 % (n=236) were female; the mean age was 34.25 (±7.02); regarding education levels, 43.7% (n=131) achieved a higher secondary school (**Tab. 1**). The median scores of the AILS and EQ-5D questionnaires were 56.91 (±12.64) and 0.83 (±0.13), respectively. A statistically significant differences was found in AILS scores according to educational level (H=16.4, p=0.001) (**Fig. 1**) and in EQ-5D scores according to AILS score (U=4144, Z=-3.91, p=0.000) (**Fig. 2**).

Variables	
<b>Overall sample, N (%)</b>	300 (100.0)
<b>Gender, n (%)</b>	
Male	64 (21.3)
Female	236 (78.7)
<b>Mean age (years) ± standard deviation</b>	34.25 ±7.02
<b>Education, n (%)</b>	
Lower secondary school	20 (6.7)
Higher secondary school	131 (43.7)
Bachelor's degree	128 (42.6)
Postgraduate degree	21 (7.0)

**Table 1.** Sociodemographic characteristics of the sample



**Figure 1.** AILS scores by educational level



**Figure 2.** EQ-5D scores by AILS scores

## Discussion

Participants with higher education reported higher AIL, highlighting education's positive role in understanding and evaluating AI-based technologies. Higher AILS scores were associated with better QoL, suggesting that pwMS who can understand, apply, and critically appraise AI-derived information tend to perceive their health more positively.

## Conclusion

Targeted educational strategies integrating AI-related content into health education may foster informed and competent AI use among pwMS, thereby supporting improvements in QoL.