**Supplementary online content**

Parks RM, Nunez Y, Balalian A, Gibson EA, Hansen J, Raaschou-Nielsen O, Ketzel M, Khan J, Brandt J, Vermeulen R, Peters S, Goldsmith J, Re DB, Weisskopf MG, Kioumourtzoglou MA, Long-term traffic-related air pollutant exposure and amyotrophic lateral sclerosis diagnosis in Denmark: a Bayesian hierarchical analysis.

**eFigure 1.** Sensitivity of percentage change in odds of ALS diagnosis to (B) inclusion of O3; (C) inclusion of parish-level SES; (D-F) single-pollution models; (G-N) various hyperpriors; and (O-P) more iterations per chain.

**eFigure 2**. Average concentration of included pollutants (NOx, EC, PM2.5, CO, O3) by in 1 km x 1 km resolution for year 2000 (middle of study period 1989-2013).

This supplementary material has been provided by the authors to give readers additional information about their work.

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