

## Supplementary Online Content

Braithwaite T, Subramanian A, Petzold A, et al. Trends in optic neuritis incidence and prevalence in the UK and association with systemic and neurologic disease. *JAMA Neurol*. Published online October 5, 2020. doi:10.1001/jamaneurol.2020.3502

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**eFigure 3.** Nelson-Aalen Cumulative Hazard Curves (With 95% Confidence Intervals [CI]) for Diagnosis With Incident Systemic, Neurological or Infectious IMID in Optic Neuritis Patients Compared to Controls During 15 Years of Follow-up

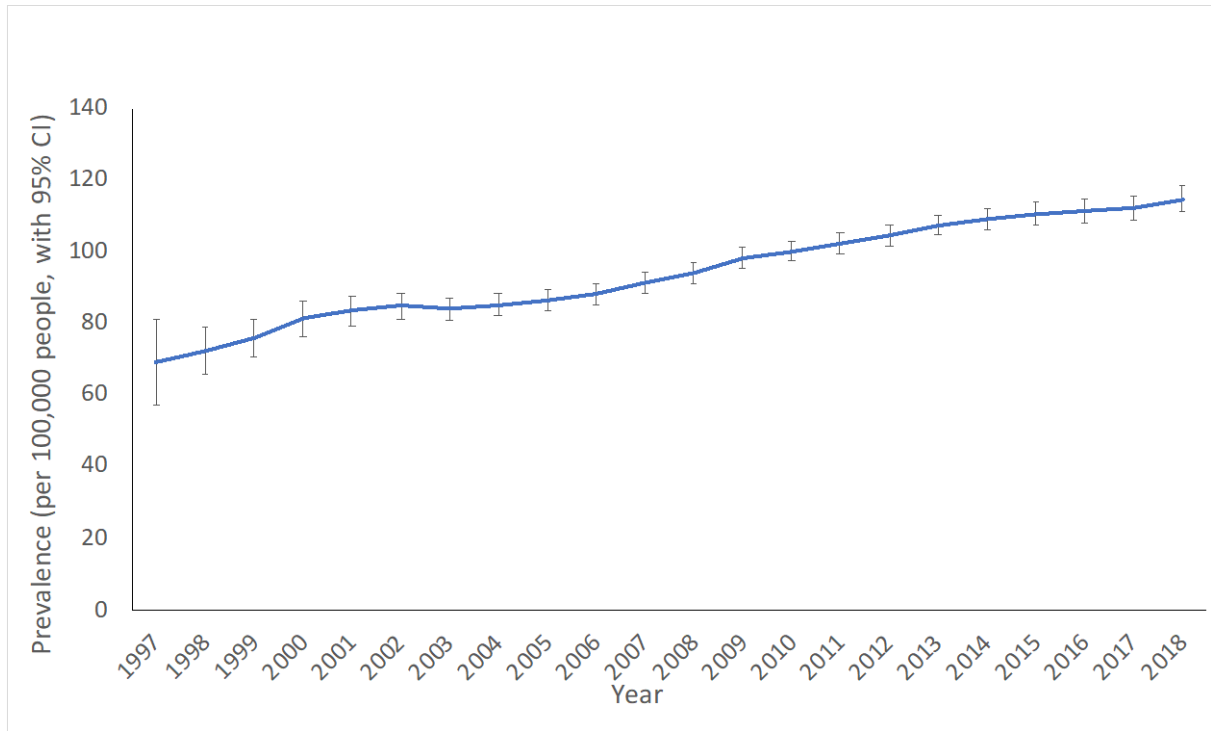
This supplementary material has been provided by the authors to give readers additional information about their work.

**eTable 1.** Read Codes Included in Case Definition of Optic Neuritis

Read code	Description	Frequency amongst cases
		% (n)
F4H3.00	Optic neuritis	76.2 (2206)
F4H3200	Acute retrobulbar neuritis	14.0 (406)
F4H3000	Unspecified optic neuritis	5.49 (159)
F4H3z00	Optic neuritis NOS	2.7 (77)
A36y000	Meningococcal optic neuritis	0.9 (27)
A94y300	Syphilitic optic atrophy	0.4 (12)
A94y400	Syphilitic retrobulbar neuritis	0.2 (5)
FyuJ100	[X]Retrobulbar neuritis in diseases classified elsewhere	0.0 (1)
F4H1200	Postinflammatory optic atrophy	0.0 (1)
FyuJ100	[X]Retrobulbar neuritis in diseases classified elsewhere	0.0 (1)
<b>Total</b>		<b>100.0 (2894)</b>

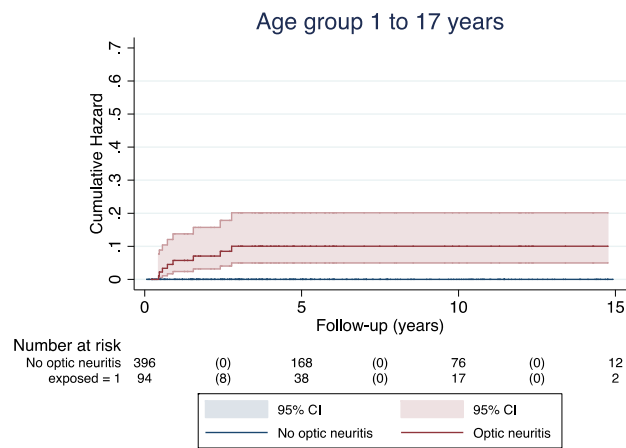
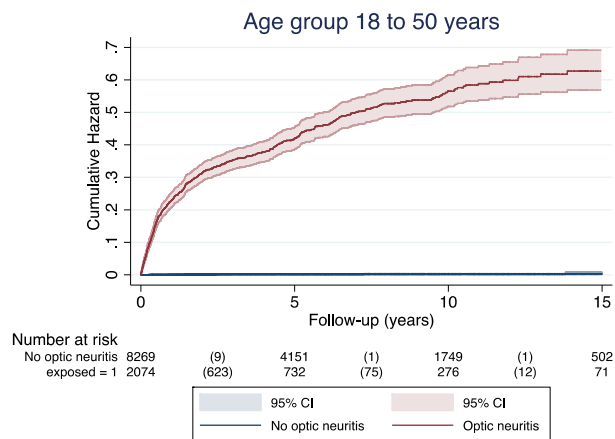
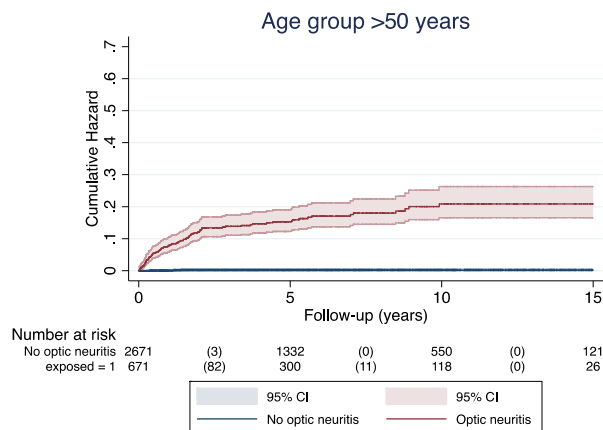
**eTable 2.** Time Trend Analysis of the Point Prevalence and Annual Incidence of Optic Neuritis (per 100,000 People) in the UK Between 1997 and 2018

Year	Prevalent Optic Neuritis	Total patients	Prevalence (95% Confidence Interval)	Incident Optic Neuritis	Person-years at risk	Incidence (100,000 person-years)
1997	127	183385	69.25 (57.21-81.29)	14	377852	3.71 (1.76-5.65)
1998	485	670096	72.38 (65.94-78.82)	29	824828	3.52 (2.24-4.80)
1999	810	1065766	76.00 (70.77-81.23)	50	1163113	4.30 (3.11-5.49)
2000	1084	1333621	81.28 (76.45-86.12)	66	1499486	4.40 (3.34-5.46)
2001	1705	2040725	83.55 (79.59-87.51)	94	2184168	4.30 (3.43-5.17)
2002	2106	2479272	84.94 (81.32-88.57)	118	2750238	4.29 (3.52-5.06)
2003	2611	3107019	84.04 (80.81-87.26)	149	3306972	4.51 (3.78-5.23)
2004	2959	3471125	85.25 (82.18-88.32)	141	3561914	3.96 (3.31-4.61)
2005	3223	3724667	86.53 (83.55-89.52)	173	3900966	4.43 (3.77-5.10)
2006	3610	4091387	88.23 (85.36-91.11)	171	4129366	4.14 (3.52-4.76)
2007	3890	4258181	91.35 (88.48-94.22)	173	4289268	4.03 (3.43-4.63)
2008	4165	4423710	94.15 (91.29-97.01)	167	4543261	3.68 (3.12-4.23)
2009	4667	4744400	98.37 (95.55-101.19)	162	4770143	3.40 (2.87-3.92)
2010	4825	4813391	100.24 (97.41-103.07)	162	4754025	3.41 (2.88-3.93)
2011	4906	4795047	102.31 (99.45-105.18)	181	4798433	3.77 (3.22-4.32)
2012	5111	4887926	104.56 (101.70-107.43)	202	4960408	4.07 (3.51-4.63)
2013	5385	5008807	107.51 (104.64-110.38)	164	4869128	3.37 (2.85-3.88)
2014	5170	4727089	109.37 (106.39-112.35)	151	4590272	3.29 (2.76-3.81)
2015	4901	4428419	110.67 (107.58-113.77)	139	4092658	3.40 (2.83-3.96)
2016	4165	3738221	111.42 (108.04-114.80)	127	3534502	3.59 (2.97-4.22)
2017	3806	3387683	112.35 (108.78-115.91)	85	3170565	2.68 (2.11-3.25)
2018	3472	3023960	114.82 (111.00-118.63)	103	2937674	3.51 (2.83-4.18)

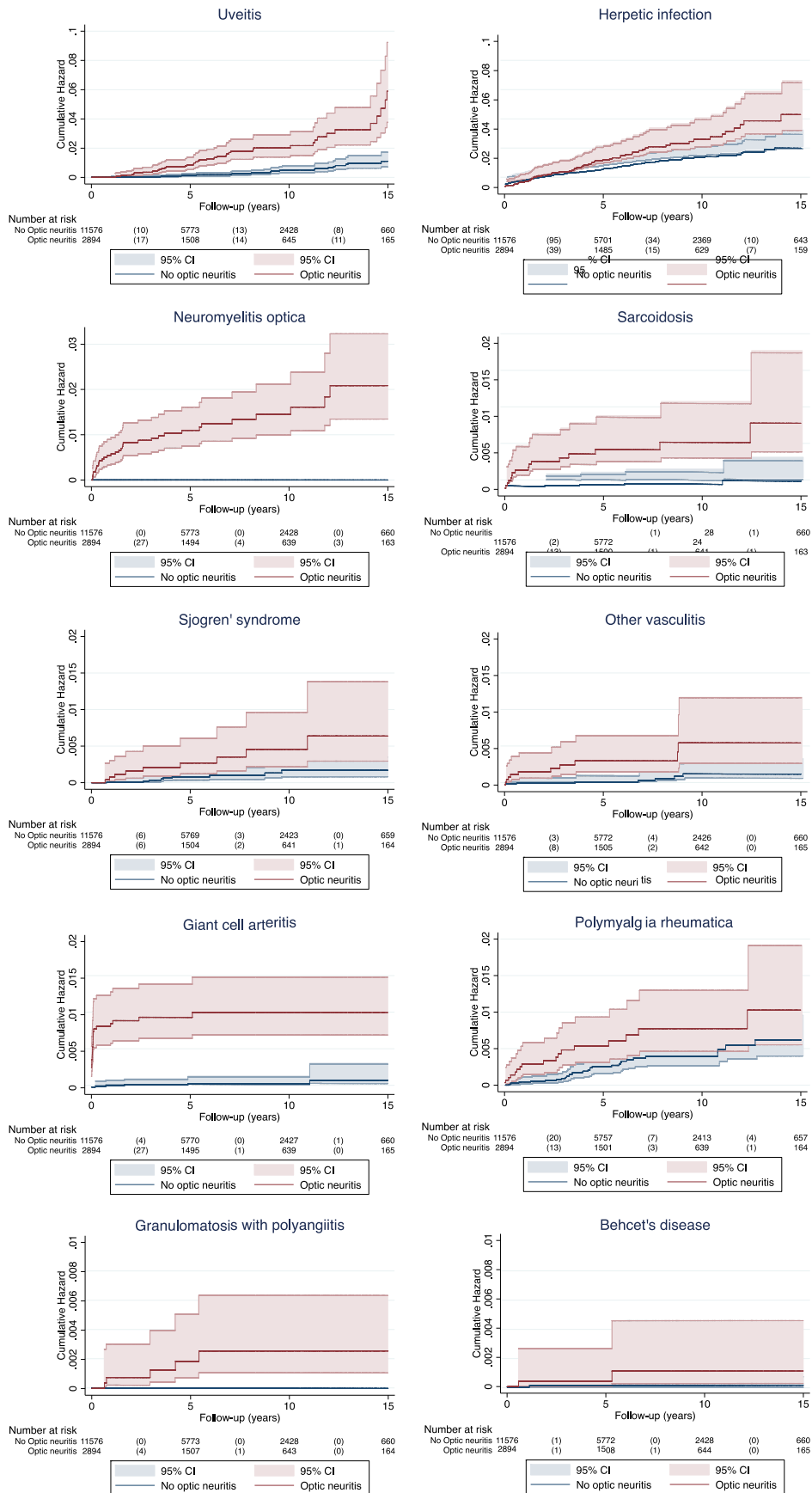


**Figure 1.** Annual Point Prevalence of Optic Neuritis in the UK Population (per 100,000 People, With 95% Confidence Intervals) Between 1997 and 2018



**A****B****C**

**eFigure 2.** Nelson-Aalen Cumulative Hazard Curves (With 95% Confidence Intervals [CI]) for Diagnosis of Incident Multiple Sclerosis During 15 Years of Follow-up, Comparing Patients Diagnosed With Incident Optic Neuritis A) Aged <17 Years, B) Aged 18-50 Years, and C) Aged >50 Years. Example interpretation: By 10 years follow-up, an estimated 8.5% (n=8/94) with optic neuritis onset aged 1-17 years, 33.7% (n=623+75/2074) with optic neuritis onset aged 18-50 years and 14.8% (n=88+11/671) with optic neuritis onset aged >50 years were diagnosed with multiple sclerosis



**eFigure 3.** Nelson-Aalen Cumulative Hazard Curves (With 95% Confidence Intervals [CI]) for Diagnosis With Incident Systemic, Neurological or Infectious IMID in Optic Neuritis Patients Compared to Controls During 15 Years of Follow-up. Note differing ranges on y-axes.