

**Supplementary Table 1 Average age-standardized type 1 diabetes incidence (*per* 100000 *per* year) in children from 19 European countries in different time periods, according to available evidence**

Country	Time period	Age range (years)	Type 1 diabetes incidence	Ref.
Austria	1990-1994	0-14	9.6	[1]
	1994-1998	0-15	9.9	[2]
	1999-2003	0-15	13.3	[2]
	2004-2008	0-15	17.5	[2]
	2009-2013	0-14	19.7	[3]
Croatia	1995-2003	0-15	9.1	[4]
	2004-2012	0-14	17.2	[5]
Cyprus	1990-1994	0-15	10.5	[6]
	1995-1999	0-15	10.5	[6]
	1999-2004	0-15	14.9	[6]
	2001-2016	0-16	17.2	[7]
Czech Republic	1994-1998	0-15	11.5	[2]
	1999-2003	0-15	17	[2]
	2004-2008	0-15	19.3	[2]
	2009-2013	0-14	21,8	[3]
Denmark	1999-2003	0-15	22.6	[2]
	2004-2008	0-15	25.1	[2]
	2009-2013	0-14	27	[3]
Estonia	1990-1994	0-14	10.5	[1]
	1991-1998	0-14	12.3	[8]
	1999-2006	0-15	17.2	[9]
	2006-2011	0-14	17.1	[10]
Finland	1990-1994	0-14	36.5	[1]
	1991-1998	0-14	40.8	[8]
	2003-2006	0-14	57.9	[11]
	2009-2013	0-14	60.9	[3]
	2015-2018	0-14	52.2	[11]

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Germany	1999-2003	0-14	19.4	[12]
	2004-2008	0-14	22.9	[12]
	2006-2011	0-14	18	[10]
Ireland	2004-2008	0-14	27.5	[3]
	2009-2013	0-14	27.5	[3]
	2011-2016	0-14	31.7	[13]
Latvia	1990-1992	0-14	5.9	[1]
	1991-1998	0-14	7.4	[8]
	2006-2011	0-14	7.5	[10]
Lithuania	1990-1994	0-14	7.4	[1]
	1991-1998	0-14	7.8	[8]
	1994-1998	0-15	8.2	[2]
	1999-2003	0-15	10.3	[2]
	2004-2008	0-15	14.2	[2]
	2006-2011	0-14	7.8	[10]
	2009-2013	0-14	19.9	[3]
Luxembourg	1989-1993	0-14	11.4	[3]
	1994-1998	0-14	12.3	[3]
	1999-2003	0-14	15.7	[3]
	2004-2008	0-14	18.4	[3]
	2009-2013	0-14	18.6	[3]
Malta	2006-2010	0-14	21.86	[14]
Norway	1996-2004	0-15	28.4	[15]
	2004-2008	0-15	32.8	[2]
	2009-2013	0-14	33.6	[3]
Slovakia	1990-1994	0-14	8.5	[1]
Slovenia	1990-1994	0-14	7.9	[1]
	1994-1998	0-15	9.2	[2]
	1999-2003	0-15	11.1	[2]
	2004-2008	0-15	14.6	[2]
	2009-2013	0-14	16.3	[3]

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Sweden	1990-1994	0-14	27.5	[1]
	1993-1995	0-14,9	29.9	[16]
	1996-1998	0-14,9	32.7	[16]
	1999-2001	0-14,9	35.4	[16]
	2002-2004	0-14,9	42.5	[16]
	2005-2007	0-14,9	43.9	[16]
	2006-2011	0-14	44.1	[10]
Switzerland	1994-1998	0-15	8.3	[2]
	1999-2003	0-15	11	[2]
	2004-2008	0-15	13.1	[2]
	2009-2013	0-14	13.4	[3]
The Netherlands	1996-1999	0-14	18.6	[17]
	2010-2011	0-14	21.4	[18]

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**Supplementary Table 2 List of the 19 European countries considered in the analysis, and time periods considered for assessing the incidence of type 1 diabetes in pediatric age in each country**

	<b>First year</b>	<b>Last year</b>	<b>Total period (years)</b>
<b>Austria</b>	1990	2013	23
<b>Croatia</b>	1995	2012	17
<b>Cyprus</b>	1990	2016	26
<b>Czech Republic</b>	1994	2013	19
<b>Denmark</b>	1999	2013	14
<b>Estonia</b>	1990	2011	21
<b>Finland</b>	1990	2018	28
<b>Germany</b>	1999	2011	12
<b>Ireland</b>	2004	2016	12
<b>Latvia</b>	1990	2011	21
<b>Lithuania</b>	1990	2013	23
<b>Luxembourg</b>	1994	2013	19
<b>Malta</b>	2006	2010	4
<b>Norway</b>	1996	2013	17
<b>Slovakia</b>	1990	1994	4
<b>Slovenia</b>	1990	2013	23
<b>Sweden</b>	1990	2011	21
<b>Switzerland</b>	1994	2013	19
<b>The Netherlands</b>	1996	2011	15

**Supplementary Table 3 List of the 19 European countries considered in the analysis, with corresponding categorization according to tertiles of particulates < 10 µm, nitrogen oxides and volatile compounds emissions (total sector of emissions for each pollutant in each country), and range of type 1 diabetes incidences recorded in the same time period, in each country**

	PM10	NO	VOCs	Type 1 diabetes incidence range
Austria	II	II	II	9.6-19.7
Croatia	II	II	II	9.1-17.2
Cyprus	I	I	I	10.5-17.2
Czech Republic	III	III	II	11.5-21.8
Denmark	II	II	I	22.6-27
Estonia	II	I	I	10.5-17.1
Finland	II	II	II	36.5-60.9
Germany	III	III	III	18-19.4
Ireland	I	II	III	27.5-31.7
Latvia	II	I	I	5.9-7.5
Lithuania	I	II	I	7.4-19.9
Luxembourg	I	I	I	11.4-18.6
Malta	I	I	I	21.8
Norway	III	II	II	28.4-33.6
Slovakia	III	II	II	8.5
Slovenia	I	I	I	7.9-16.3
Sweden	III	III	II	27.5-44.1
Switzerland	II	II	I	8.3-13.4
The Netherlands	II	I	II	18.6-21.4

PM10: Particulates < 10 µm; NO: nitrogen oxides; VOCs: Volatile compounds.

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