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Supplementary appendix

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SUPPLEMENTARY APPENDIX:

Progress in cancer survival in seven high-income countries 1995-2014

(ICBP SURVMARK-2): a population-based study

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abs change*	8.2	2.6	13.7	13.3	10.8	6.9	14.8
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* Absolute change between 1995-1999 and 2010-2014

† Australia includes New South Wales (1995-2012), Victoria and Western Australia

‡ Canada includes Alberta, British Columbia, Manitoba, New Brunswick, Nova Scotia, Ontario, Prince Edward Island and Saskatchewan

¶ Ireland (1995-2013)

Table S2. Age-standardized 1-year net survival (in %) and 95% confidence intervals by cancer site, country and period of diagnosis in patients aged <75 years

	Australia [†]	Canada [‡]	Denmark	Ireland [¶]	New Zealand	Norway	UK
Oesophagus							
1995-1999	47.5 (45.2-49.8)	42.3 (40.5-44.1)	29.7 (26.8-32.7)	35.6 (32.4-38.9)	32.5 (28.4-36.7)	30.7 (26.5-35.0)	34.6 (33.9-35.3)
2000-2004	48.1 (45.9-50.2)	44.1 (42.4-45.8)	33.2 (30.5-36.0)	42.3 (39.1-45.5)	40.4 (36.2-44.5)	37.6 (33.2-42.0)	42.0 (41.3-42.7)
2005-2009	52.4 (50.2-54.4)	44.7 (43.0-46.3)	38.7 (36.0-41.5)	49.7 (46.6-52.6)	44.9 (41.0-48.7)	46.5 (42.4-50.5)	47.1 (46.4-47.9)
2010-2014	56.5 (53.6-59.4)	48.5 (46.6-50.3)	49.2 (45.3-53.0)	57.2 (53.0-61.1)	48.9 (44.6-53.1)	53.3 (49.0-57.3)	52.4 (51.6-53.2)
abs change*	9.0	6.2	19.5	21.6	16.4	22.6	17.8
Stomach							
1995-1999	55.6 (54.0-57.1)	48.7 (47.4-50.0)	39.9 (37.4-42.4)	37.0 (34.5-39.6)	44.0 (41.0-46.8)	46.3 (43.7-48.8)	39.8 (39.2-40.4)
2000-2004	57.8 (56.2-59.3)	51.7 (50.4-52.9)	41.9 (39.4-44.4)	43.6 (40.9-46.3)	47.9 (44.9-50.8)	52.4 (49.7-55.0)	44.6 (43.9-45.3)
2005-2009	60.0 (58.4-61.5)	53.3 (52.0-54.5)	48.6 (46.2-51.0)	53.7 (51.1-56.3)	49.8 (46.8-52.7)	56.8 (54.0-59.5)	49.1 (48.3-49.8)
2010-2014	65.3 (63.3-67.3)	57.1 (55.6-58.6)	58.3 (55.3-61.0)	57.9 (54.4-61.3)	55.3 (51.8-58.6)	58.5 (55.3-61.6)	51.6 (50.6-52.5)
abs change*	9.7	8.4	18.4	20.9	11.3	12.2	11.8
Colon							
1995-1999	82.4 (81.8-83.0)	80.6 (80.1-81.1)	74.3 (73.1-75.4)	76.0 (74.6-77.4)	78.5 (77.4-79.6)	79.8 (78.6-80.9)	73.5 (73.1-73.9)
2000-2004	85.5 (84.9-86.0)	83.8 (83.3-84.2)	77.8 (76.7-78.9)	77.4 (76.1-78.7)	80.8 (79.7-81.8)	81.6 (80.5-82.6)	76.6 (76.3-76.9)
2005-2009	88.3 (87.8-88.8)	86.6 (86.2-87.0)	81.0 (80.1-82.0)	84.0 (82.9-85.1)	82.4 (81.3-83.4)	83.5 (82.5-84.5)	79.5 (79.2-79.8)
2010-2014	90.4 (89.8-91.0)	87.5 (87.1-88.0)	86.7 (85.8-87.6)	86.0 (84.5-87.3)	84.3 (83.1-85.4)	86.6 (85.6-87.5)	82.8 (82.4-83.1)
abs change*	8.0	6.9	12.4	10.0	5.8	6.8	9.3
Rectum							
1995-1999	86.3 (85.4-87.2)	86.6 (85.8-87.3)	80.1 (78.6-81.5)	77.6 (75.5-79.6)	82.6 (80.8-84.3)	84.8 (83.3-86.2)	79.2 (78.7-79.7)
2000-2004	89.8 (89.1-90.5)	88.2 (87.6-88.9)	83.7 (82.4-85.0)	83.2 (81.4-84.8)	86.1 (84.5-87.6)	87.0 (85.7-88.2)	83.2 (82.8-83.7)
2005-2009	91.8 (91.1-92.4)	90.0 (89.5-90.6)	87.8 (86.8-88.8)	88.4 (86.8-89.7)	87.6 (86.1-88.9)	91.0 (89.8-92.0)	85.9 (85.5-86.3)
2010-2014	93.0 (92.1-93.7)	90.6 (89.9-91.2)	91.2 (90.2-92.2)	90.3 (88.4-91.9)	89.7 (88.1-91.0)	92.7 (91.5-93.7)	89.2 (88.8-89.6)
abs change*	6.7	4.0	11.1	12.7	7.1	7.9	10.0
Pancreas							
1995-1999	24.7 (23.1-26.3)	23.5 (22.4-24.6)	16.6 (14.8-18.4)	15.8 (13.4-18.4)	22.8 (20.0-25.6)	19.2 (17.0-21.5)	16.3 (15.8-16.9)
2000-2004	30.7 (29.2-32.3)	27.9 (26.8-29.0)	21.5 (19.7-23.2)	20.4 (17.9-23.1)	22.2 (19.5-24.9)	22.2 (20.0-24.4)	19.8 (19.2-20.5)
2005-2009	35.5 (34.1-37.0)	31.0 (29.9-32.0)	26.0 (24.2-27.7)	27.5 (25.0-30.1)	24.6 (22.1-27.1)	31.1 (28.8-33.4)	25.7 (25.1-26.4)
2010-2014	47.5 (45.6-49.4)	37.9 (36.7-39.1)	37.0 (34.7-39.3)	37.8 (33.8-41.8)	30.6 (27.7-33.5)	37.4 (34.7-40.0)	31.6 (30.8-32.3)
abs change*	22.8	14.4	20.4	22.0	7.8	18.2	15.3
Lung							
1995-1999	42.0 (41.2-42.8)	41.5 (41.0-42.0)	31.6 (30.7-32.5)	28.8 (27.4-30.2)	32.5 (31.1-33.9)	35.2 (33.9-36.4)	27.7 (27.3-28.0)
2000-2004	44.7 (43.9-45.5)	43.5 (43.0-43.9)	38.0 (37.1-39.0)	32.5 (31.1-33.8)	34.7 (33.4-36.0)	38.0 (36.7-39.2)	31.6 (31.3-31.9)
2005-2009	48.7 (47.9-49.5)	45.9 (45.4-46.4)	41.1 (40.2-42.1)	39.3 (38.0-40.6)	36.7 (35.3-38.0)	45.6 (44.3-46.8)	35.5 (35.2-35.8)
2010-2014	53.3 (52.3-54.3)	50.9 (50.3-51.5)	50.4 (49.2-51.5)	50.9 (49.1-52.7)	44.9 (43.3-46.5)	52.0 (50.5-53.4)	42.8 (42.4-43.2)
abs change*	11.3	9.4	18.8	22.1	12.4	16.8	15.1
Ovary							
1995-1999	81.3 (79.7-82.7)	78.8 (77.7-79.8)	74.2 (72.3-76.1)	67.1 (64.1-70.0)	70.8 (67.5-73.8)	80.4 (78.3-82.3)	65.4 (64.7-66.0)
2000-2004	82.3 (80.8-83.7)	81.8 (80.7-82.8)	78.8 (76.9-80.5)	71.0 (68.2-73.6)	75.0 (71.9-77.8)	85.9 (84.0-87.6)	70.6 (69.9-71.2)
2005-2009	84.9 (83.6-86.2)	83.0 (82.0-84.0)	82.2 (80.5-83.8)	77.3 (74.8-79.7)	76.5 (73.6-79.0)	86.5 (84.7-88.2)	75.1 (74.5-75.7)

2010-2014	88.6	(87.0-90.0)	83.2	(82.1-84.3)	85.5	(83.4-87.2)	82.1	(78.7-85.1)	80.9	(77.6-83.7)	87.4	(85.3-89.2)	80.7	(80.1-81.3)
abs change*	7.3		4.4		11.3		15.0		10.1		7.0		15.3	

* Absolute change between 1995-1999 and 2010-2014

† Australia includes New South Wales (1995-2012), Victoria and Western Australia

‡ Canada includes Alberta, British Columbia, Manitoba, New Brunswick, Nova Scotia, Ontario, Prince Edward Island and Saskatchewan

¶ Ireland (1995-2013)

2010-2014	54	(49.7-57.7)	47	(44.6-49.7)	58	(52.8-62.1)	38	(32.0-44.8)	48	(41.5-53.9)	54	(48.7-59.1)	45	(43.5-45.9)
abs change*	10.4		-1.3		19.5		8.9		11.5		7.3		13.3	

* Absolute change between 1995-1999 and 2010-2014

† Australia includes New South Wales (1995-2012), Victoria and Western Australia

‡ Canada includes Alberta, British Columbia, Manitoba, New Brunswick, Nova Scotia, Ontario, Prince Edward Island and Saskatchewan

¶ Ireland (1995-2013)

Table S4 (cont.). Age-standardized 1-year net survival (in %) and 95% confidence intervals by cancer site, jurisdiction and period of diagnosis

	UK							
	England		Northern Ireland		Scotland		Wales	
Oesophagus								
1995-1999	29.6	(28.9-30.2)	35.2	(31.6-38.8)	31.4	(29.8-32.9)	29.2	(26.9-31.5)
2000-2004	36.4	(35.8-37.0)	33.3	(29.7-37.0)	37.2	(35.5-38.8)	38.0	(35.7-40.3)
2005-2009	41.5	(40.9-42.1)	41.6	(38.1-45.0)	40.3	(38.5-42.0)	41.2	(38.8-43.5)
2010-2014	46.6	(45.9-47.3)	48.5	(44.5-52.4)	44.9	(42.9-46.8)	46.4	(43.4-49.2)
abs change*	17.0		13.3		13.5		17.2	
Stomach								
1995-1999	34.5	(34.0-35.0)	36.6	(33.8-39.4)	35.9	(34.3-37.4)	34.9	(33.0-36.8)
2000-2004	39.4	(38.8-39.9)	39.7	(36.6-42.7)	38.2	(36.5-39.8)	40.1	(38.0-42.3)
2005-2009	44.0	(43.4-44.6)	43.1	(39.8-46.3)	41.2	(39.4-42.9)	41.3	(38.9-43.5)
2010-2014	47.4	(46.6-48.2)	45.0	(41.1-48.9)	45.0	(42.8-47.2)	43.6	(40.7-46.5)
abs change*	12.9		8.4		9.1		8.7	
Colon								
1995-1999	67.1	(66.8-67.5)	73.1	(71.5-74.7)	70.9	(70.0-71.8)	66.9	(65.7-68.1)
2000-2004	70.6	(70.3-70.9)	74.7	(73.1-76.2)	73.3	(72.4-74.2)	71.0	(69.8-72.1)
2005-2009	74.0	(73.7-74.3)	75.1	(73.7-76.5)	75.2	(74.4-76.0)	71.7	(70.6-72.8)
2010-2014	77.0	(76.7-77.3)	80.0	(78.4-81.5)	77.4	(76.5-78.3)	74.7	(73.5-75.9)
abs change*	9.9		6.9		6.5		7.8	
Rectum								
1995-1999	72.7	(72.2-73.1)	77.7	(75.0-80.0)	74.5	(73.0-75.9)	73.6	(71.7-75.4)
2000-2004	77.1	(76.7-77.6)	77.6	(75.0-79.9)	79.6	(78.3-80.8)	76.6	(74.8-78.2)
2005-2009	80.4	(80.0-80.8)	82.6	(80.4-84.6)	81.2	(80.0-82.4)	81.0	(79.5-82.5)
2010-2014	84.9	(84.4-85.3)	84.6	(82.1-86.8)	84.6	(83.2-85.9)	84.9	(83.3-86.4)
abs change*	12.2		6.9		10.1		11.3	
Pancreas								
1995-1999	13.5	(13.0-14.0)	12.1	(9.5-15.1)	15.6	(14.2-17.1)	14.7	(12.8-16.6)
2000-2004	16.7	(16.2-17.2)	12.4	(9.9-15.0)	16.4	(15.0-17.9)	16.7	(14.8-18.6)
2005-2009	21.7	(21.2-22.2)	17.1	(14.6-19.9)	18.9	(17.4-20.4)	19.8	(17.9-21.8)
2010-2014	26.7	(26.1-27.3)	20.9	(17.6-24.4)	24.4	(22.5-26.3)	25.6	(23.4-28.0)
abs change*	13.2		8.8		8.8		10.9	
Lung								
1995-1999	23.8	(23.5-24.1)	27.2	(25.6-28.7)	26.5	(25.8-27.2)	23.9	(22.9-24.9)
2000-2004	27.9	(27.6-28.2)	28.8	(27.3-30.3)	29.1	(28.3-29.8)	27.0	(26.0-28.0)
2005-2009	31.5	(31.3-31.8)	31.5	(30.0-32.9)	32.3	(31.6-33.1)	29.9	(28.9-31.0)
2010-2014	39.2	(38.9-39.6)	36.9	(35.2-38.7)	38.5	(37.6-39.4)	36.8	(35.5-38.2)
abs change*	15.4		9.7		12.0		12.9	
Ovary								
1995-1999	55.1	(54.4-55.7)	58.7	(54.6-62.5)	58.7	(56.8-60.5)	55.5	(53.1-57.8)
2000-2004	59.9	(59.3-60.6)	61.1	(57.3-64.6)	60.9	(59.0-62.7)	58.7	(56.3-61.0)
2005-2009	64.7	(64.1-65.3)	63.5	(60.0-66.8)	63.5	(61.6-65.3)	61.2	(58.8-63.5)
2010-2014	70.8	(70.1-71.5)	66.2	(62.2-69.9)	68.5	(66.3-70.6)	68.6	(65.9-71.2)
abs change*	15.7		7.5		9.8		13.1	

* Absolute change between 1995-1999 and 2010-2014, † New South Wales (1995-2012), ‡ Ireland (1995-2013)

Table S5 (cont.). Age-standardized 5-year net survival (in %) and 95% confidence intervals by cancer site, jurisdiction and period of diagnosis

	UK							
	England		Northern Ireland		Scotland		Wales	
Oesophagus								
1995-1999	8.2	(7.8-8.6)	11.2	(8.7-14.1)	9.5	(8.4-10.7)	11.4	(9.7-13.1)
2000-2004	11.5	(11.0-11.9)	12.5	(9.9-15.5)	10.1	(8.9-11.3)	12.6	(11.0-14.4)
2005-2009	14.0	(13.5-14.5)	17.3	(14.5-20.2)	12.2	(11.0-13.5)	12.2	(10.6-13.8)
2010-2014	16.5	(15.9-17.0)	19.1	(15.7-22.7)	13.7	(12.1-15.3)	14.9	(12.7-17.2)
abs change*	8.3		7.9		4.2		3.5	
Stomach								
1995-1999	13.9	(13.4-14.3)	18.0	(15.6-20.5)	14.2	(13.0-15.5)	14.3	(12.8-15.9)
2000-2004	16.0	(15.6-16.5)	16.8	(14.4-19.4)	15.6	(14.3-17.0)	16.7	(15.0-18.5)
2005-2009	19.3	(18.7-19.8)	19.8	(17.0-22.7)	17.2	(15.8-18.7)	18.2	(16.2-20.2)
2010-2014	21.2	(20.5-21.8)	21.2	(18.1-24.5)	19.9	(18.0-21.8)	17.4	(15.2-19.8)
abs change*	7.3		3.2		5.7		3.1	
Colon								
1995-1999	46.5	(46.1-46.9)	52.9	(50.7-55.0)	50.0	(48.9-51.2)	46.3	(44.8-47.7)
2000-2004	50.7	(50.3-51.0)	53.9	(51.8-56.0)	53.0	(51.8-54.1)	51.0	(49.5-52.5)
2005-2009	55.4	(55.0-55.7)	56.9	(55.0-58.8)	56.1	(55.0-57.2)	52.6	(51.2-54.0)
2010-2014	58.9	(58.5-59.3)	62.5	(60.4-64.5)	59.7	(58.5-60.9)	56.7	(55.2-58.3)
abs change*	12.4		9.6		9.7		10.4	
Rectum								
1995-1999	47.6	(47.0-48.2)	47.4	(43.9-50.8)	49.7	(47.8-51.6)	49.0	(46.5-51.4)
2000-2004	53.0	(52.4-53.5)	50.8	(47.5-54.1)	55.4	(53.6-57.2)	51.2	(48.9-53.5)
2005-2009	56.9	(56.4-57.5)	55.8	(52.6-58.9)	58.3	(56.5-60.0)	57.4	(55.2-59.6)
2010-2014	62.2	(61.5-62.8)	60.6	(57.1-63.9)	62.9	(60.9-64.8)	60.8	(58.4-63.1)
abs change*	14.6		13.2		13.2		11.8	
Pancreas								
1995-1999	3.2	(2.9-3.5)	2.8	(1.5-4.7)	3.5	(2.8-4.4)	4.2	(3.2-5.4)
2000-2004	4.1	(3.8-4.4)	2.5	(1.4-4.3)	3.4	(2.7-4.3)	4.8	(3.7-6.0)
2005-2009	5.7	(5.4-6.0)	5.7	(4.1-7.7)	4.0	(3.2-4.9)	4.8	(3.8-6.0)
2010-2014	8.1	(7.7-8.5)	6.7	(4.8-9.1)	7.1	(5.9-8.4)	7.4	(5.9-9.2)
abs change*	4.9		3.9		3.6		3.2	
Lung								
1995-1999	7.0	(6.9-7.2)	9.4	(8.4-10.5)	7.4	(7.0-7.8)	8.3	(7.6-9.1)
2000-2004	8.3	(8.1-8.5)	10.2	(9.1-11.3)	8.1	(7.6-8.5)	8.3	(7.6-9.0)
2005-2009	10.0	(9.8-10.2)	10.9	(9.9-12.0)	10.1	(9.6-10.6)	9.1	(8.4-9.8)
2010-2014	15.0	(14.7-15.2)	13.5	(12.2-14.8)	14.1	(13.5-14.8)	14.0	(12.9-15.0)
abs change*	8.0		4.1		6.7		5.7	
Ovary								
1995-1999	26.8	(26.2-27.4)	32.8	(28.9-36.7)	30.1	(28.2-31.9)	29.1	(26.8-31.4)
2000-2004	29.1	(28.5-29.7)	29.6	(26.2-33.1)	27.0	(25.3-28.8)	30.7	(28.4-33.1)
2005-2009	32.5	(31.9-33.1)	32.1	(28.7-35.6)	29.9	(28.1-31.8)	30.7	(28.3-33.1)
2010-2014	37.8	(37.0-38.5)	34.9	(30.9-38.9)	33.5	(31.3-35.7)	34.9	(32.2-37.7)
abs change*	11.0		2.1		3.4		5.8	

* Absolute change between 1995-1999 and 2010-2014, † New South Wales (1995-2012), ‡ Ireland (1995-2013)

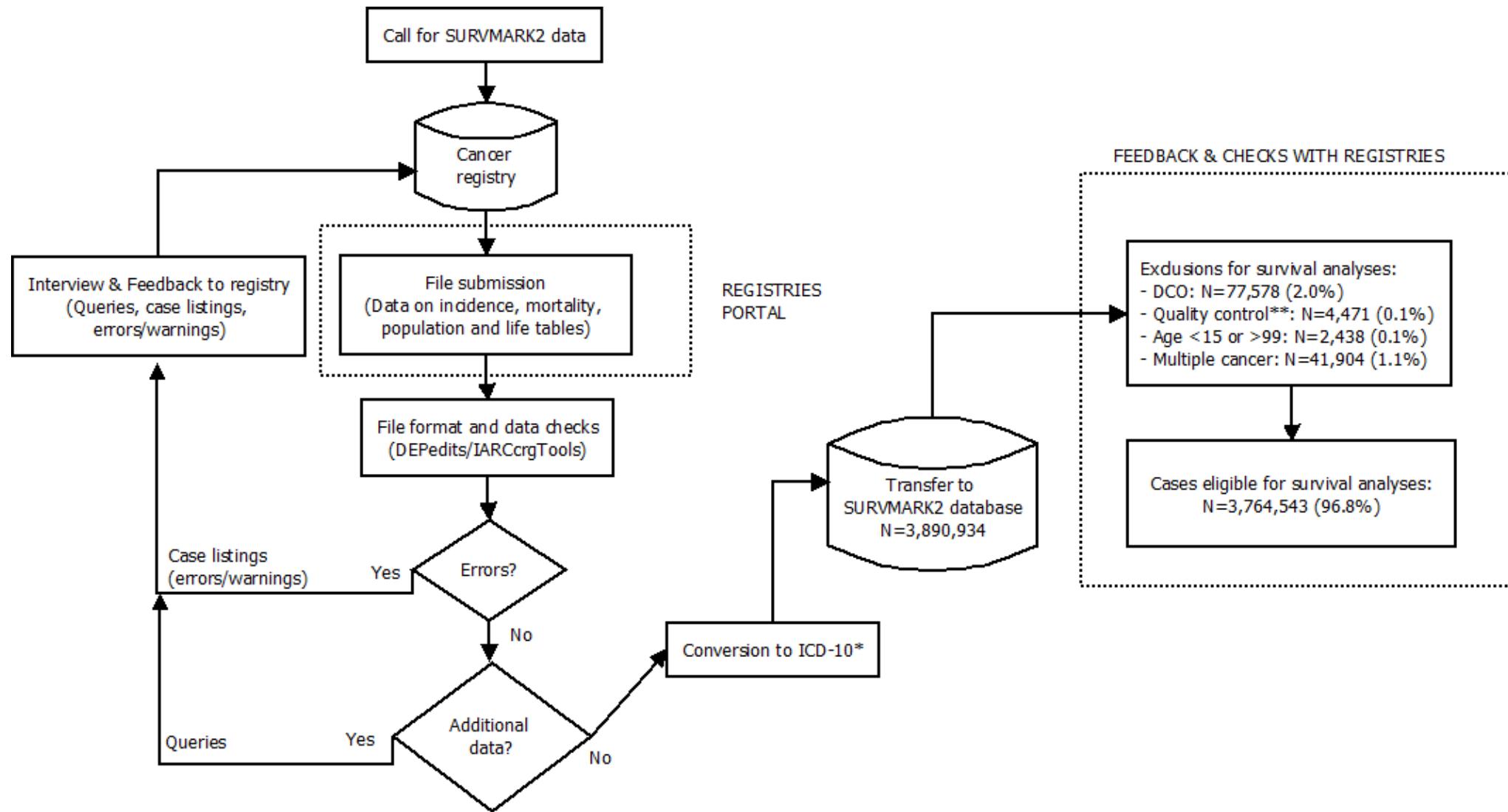


Figure S1. Overall flow of data, processing steps and exclusions in SURVMARK-2

*where applicable

**includes invalid and missing dates, invalid age and tumours of non-malignant behaviour

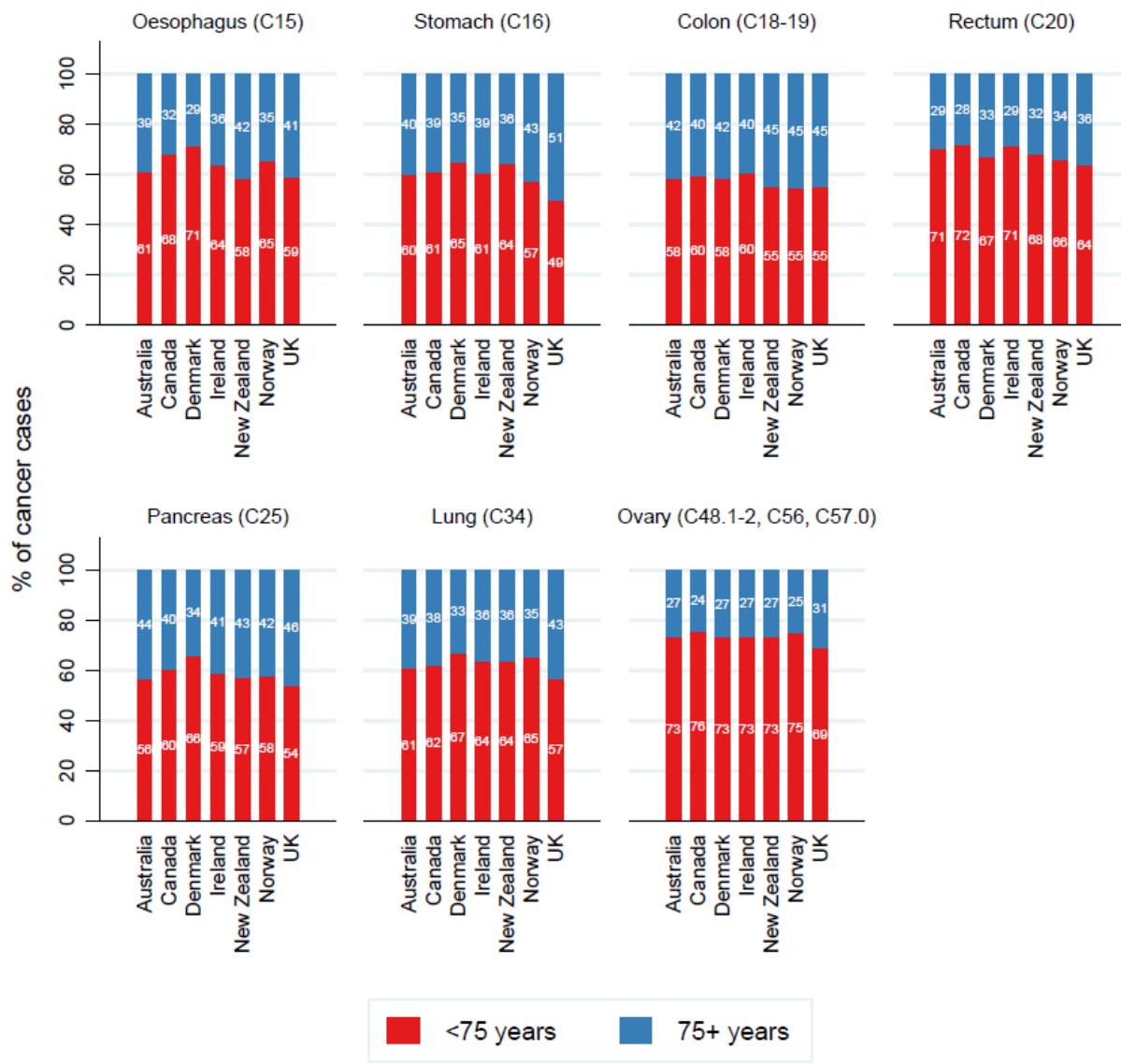
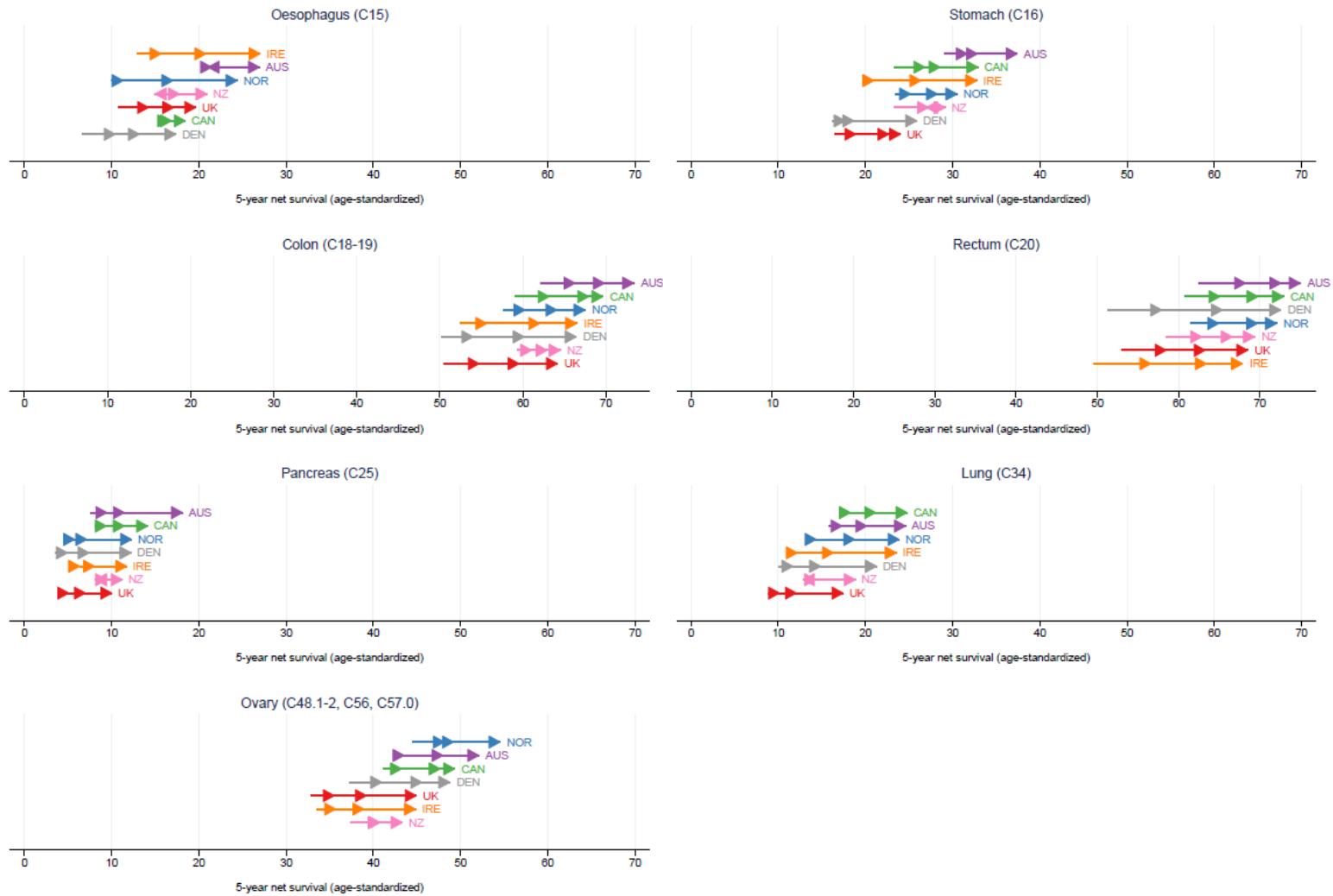


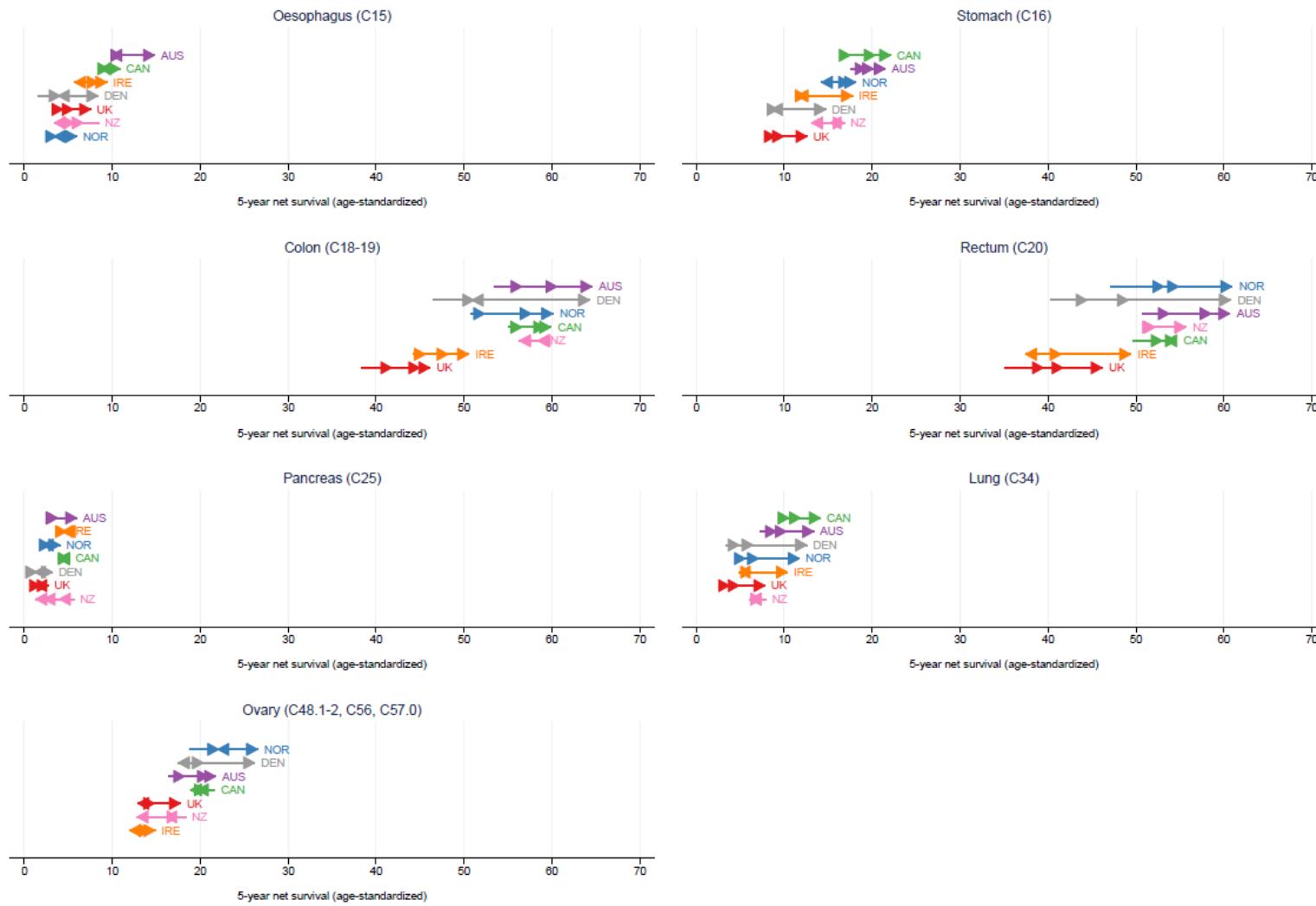
Figure S2. Case distribution by cancer site, age group and country in patients diagnosed 2010-2014



Beginning of arrow denotes estimates for 1995-1999, arrow heads from left to right refer to 2000-2004, 2005-2009 and 2010-2014 estimates

Figure S3. Age-standardized 5-year net survival by site, country* and period of diagnosis in patients aged below 75 years diagnosed 1995-2014

*Australia includes New South Wales (1995-2012), Victoria and Western Australia; Canada includes Alberta, British Columbia, Manitoba, New Brunswick, Nova Scotia, Ontario, Prince Edward Island and Saskatchewan; Ireland (1995-2013); all other countries with national data (1995-2014)



Beginning of arrow denotes estimates for 1995-1999, arrow heads from left to right refer to 2000-2004, 2005-2009 and 2010-2014 estimates

Figure S4. 5-year net survival by site, country* and period of diagnosis in patients aged 75 years and above diagnosed 1995-2014

*Australia includes New South Wales (1995-2012), Victoria and Western Australia; Canada includes Alberta, British Columbia, Manitoba, New Brunswick, Nova Scotia, Ontario, Prince Edward Island and Saskatchewan; Ireland (1995-2013); all other countries with national data (1995-2014)

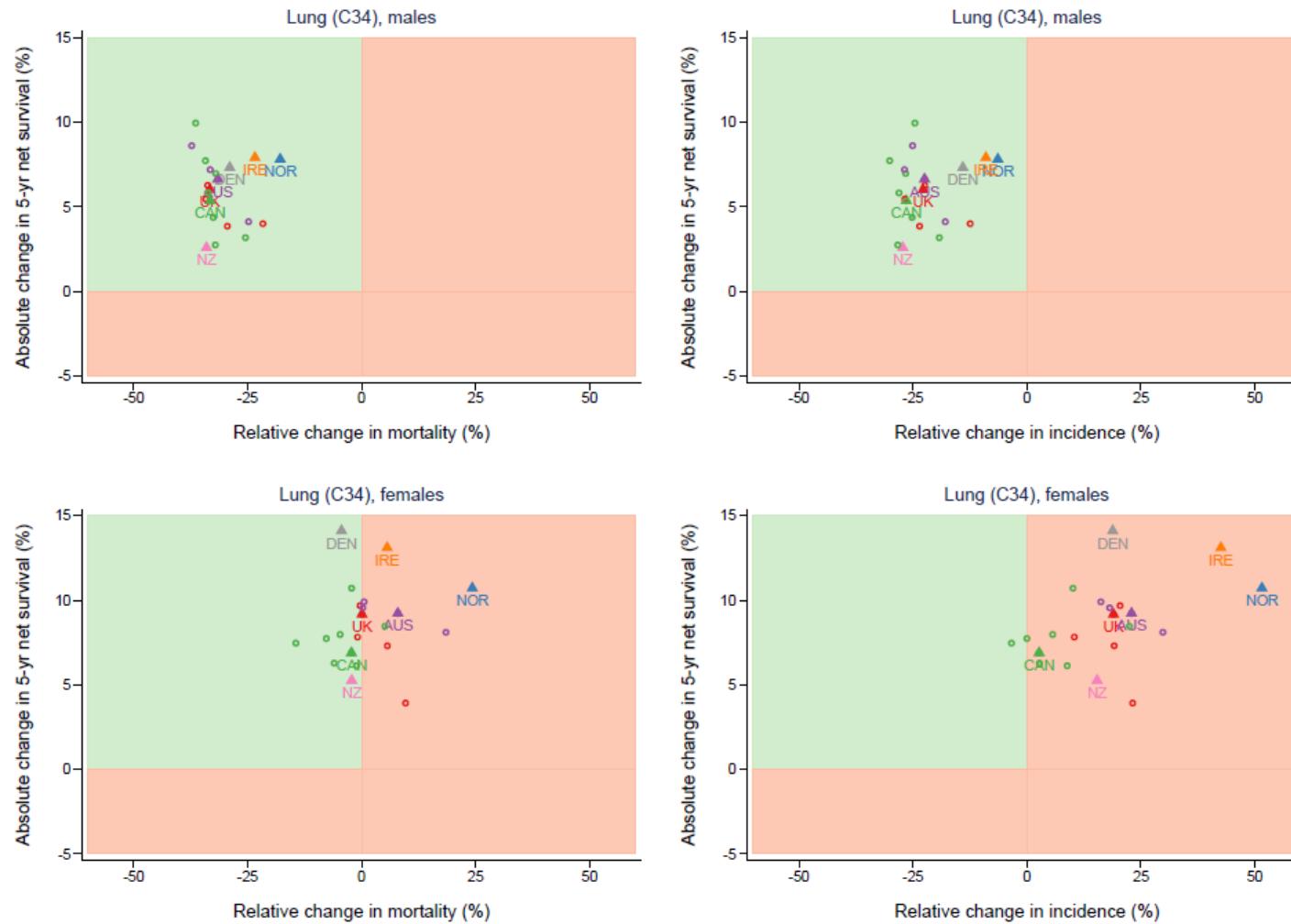


Figure S5. Changes in age-standardised 5-year net survival, mortality and incidence for lung cancer, by sex (comparing 2010-2014 to 1995-1999) (circles=jurisdictions; triangles=countries)

Mortality data includes cancers of the trachea and lung (C33-34)

Australia includes New South Wales (1995-2012), Victoria and Western Australia; Canada includes Alberta, British Columbia, Manitoba, New Brunswick, Nova Scotia, Ontario, Prince Edward Island and Saskatchewan; Ireland (1995-2013); all other countries with national data (1995-2014)

Estimates for Prince Edward Island (Canada) are not shown.

Age-standardised net survival is for ages 15-99; age-standardized incidence and mortality rates are for ages 25+

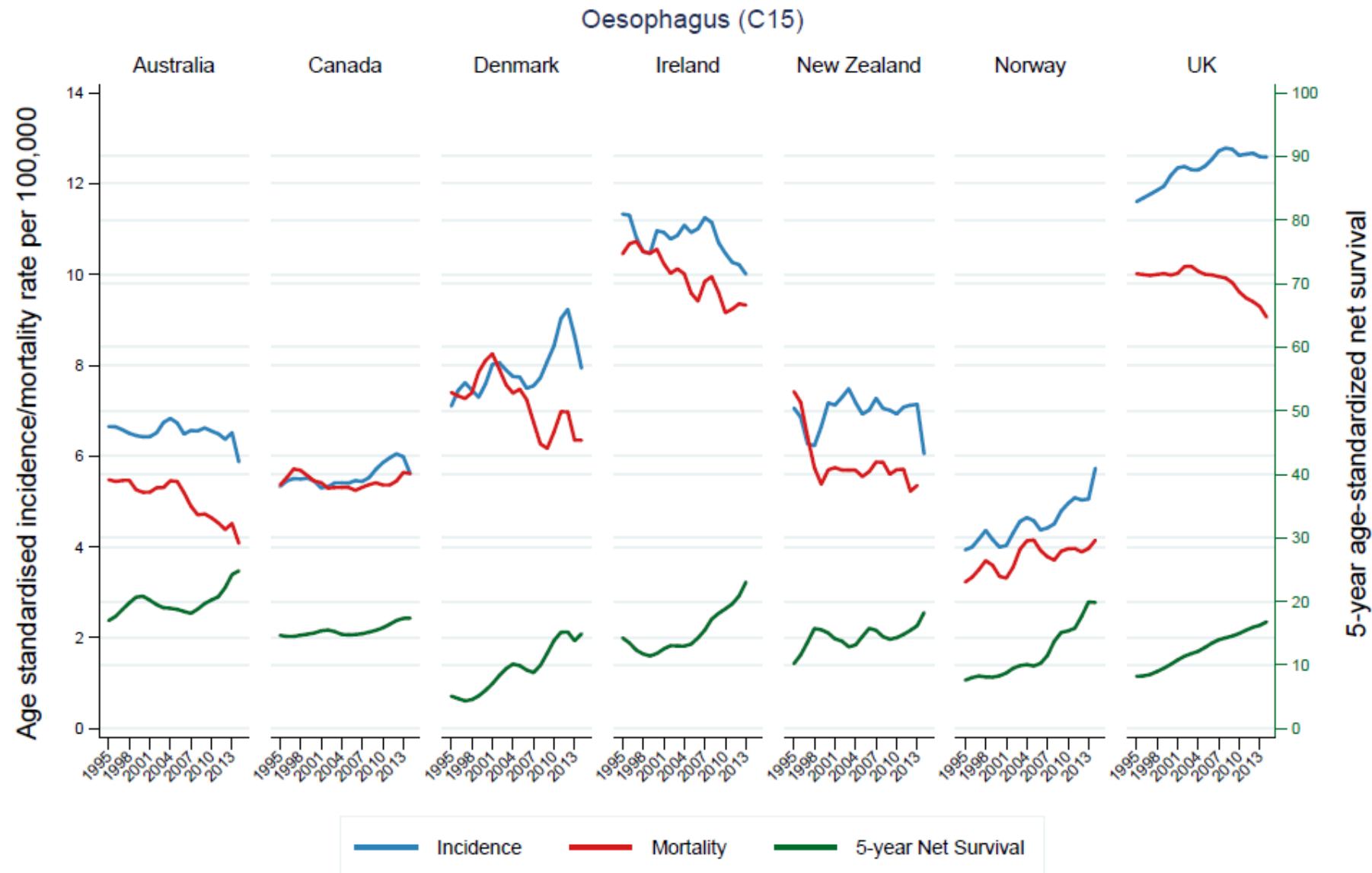


Figure S6A. Annual trends in age-standardised incidence and mortality rates and in 5-year age-standardized net survival from oesophageal cancer by country 1995-2014

Age-standardised net survival is for ages 15-99; age-standardized incidence and mortality rates are for ages 25+

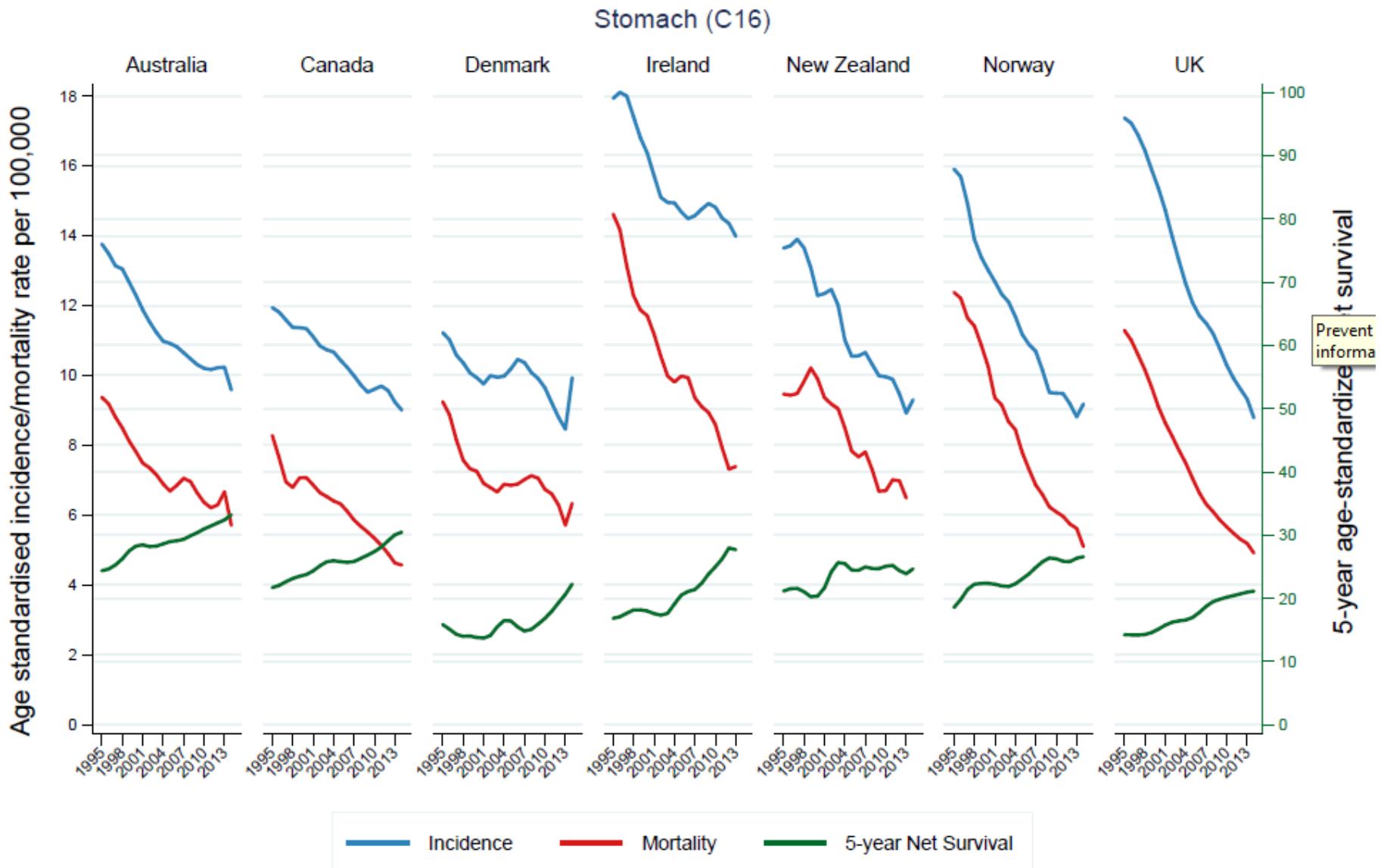


Figure S6B. Annual trends in age-standardised incidence and mortality rates and in 5-year age-standardized net survival from stomach cancer by country 1995-2014

Age-standardised net survival is for ages 15-99; age-standardized incidence and mortality rates are for ages 25+

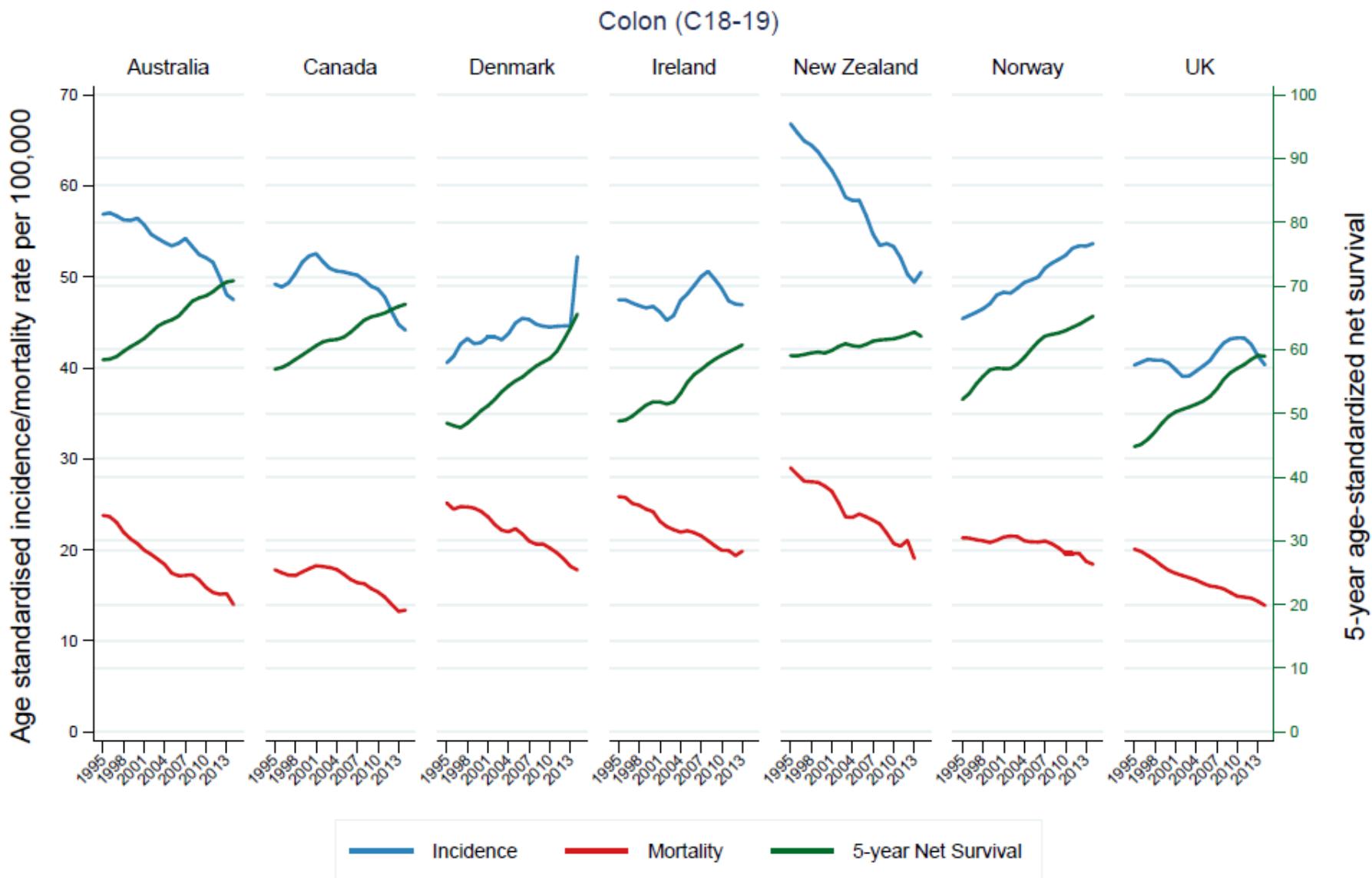


Figure S6C. Annual trends in age-standardised incidence and mortality rates and in 5-year age-standardized net survival from colon cancer by country 1995-2014

Age-standardised net survival is for ages 15-99; age-standardized incidence and mortality rates are for ages 25+

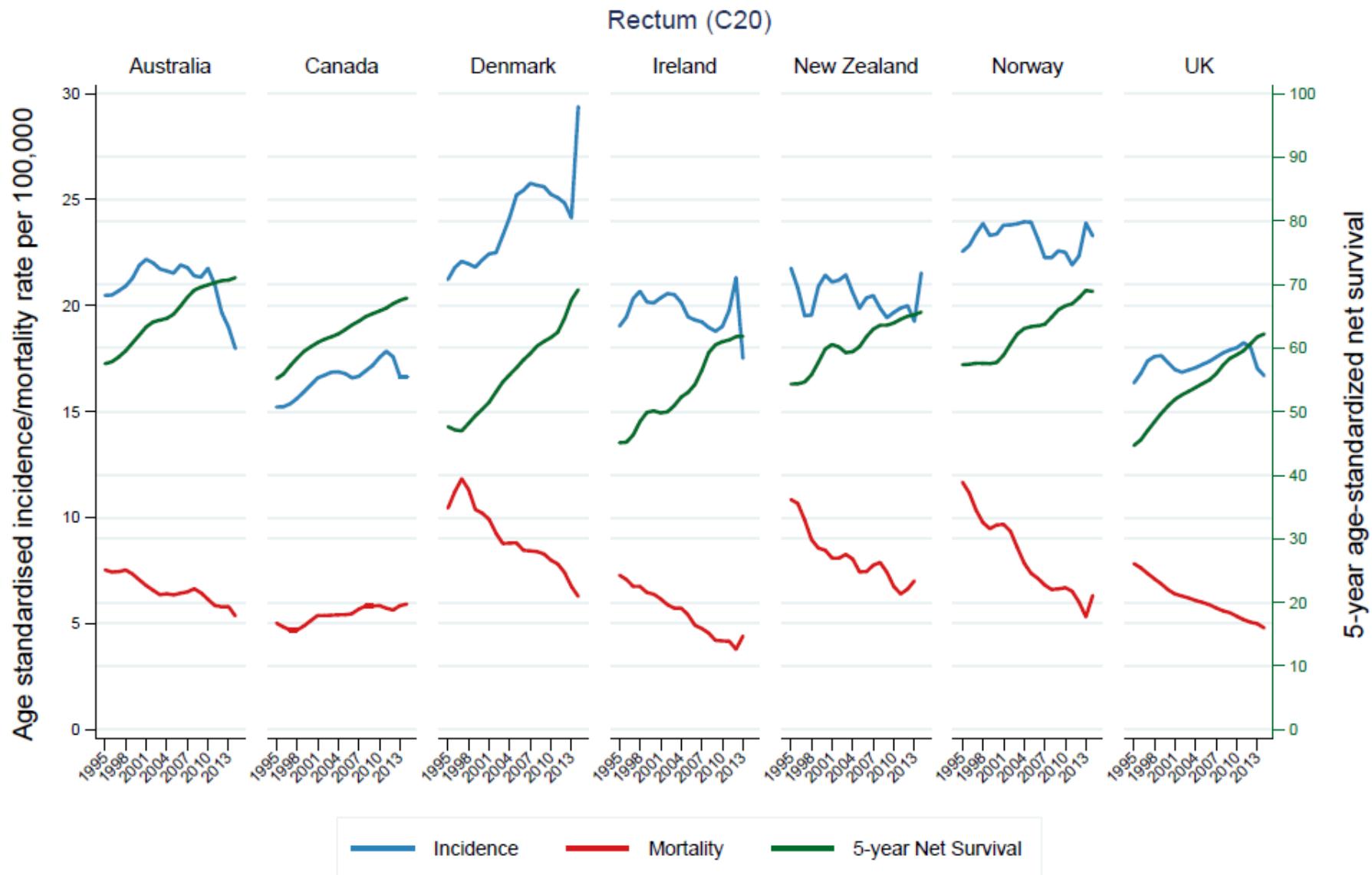


Figure S6D. Annual trends in age-standardised incidence and mortality rates and in 5-year age-standardized net survival from rectal cancer by country 1995-2014

Age-standardised net survival is for ages 15-99; age-standardized incidence and mortality rates are for ages 25+

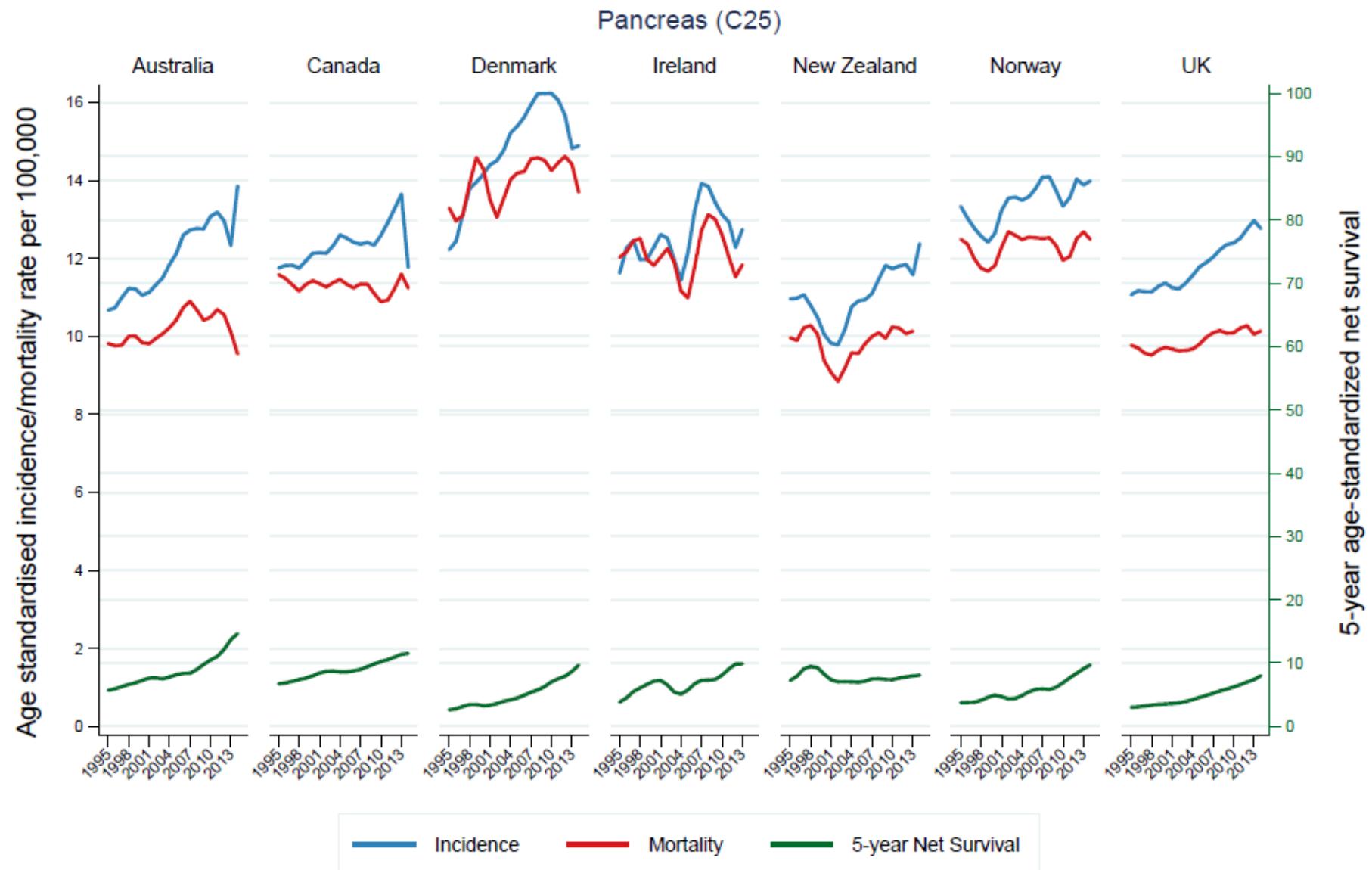


Figure S6E. Annual trends in age-standardised incidence and mortality rates and in 5-year age-standardized net survival from pancreatic cancer by country 1995-2014

Age-standardised net survival is for ages 15-99; age-standardized incidence and mortality rates are for ages 25+

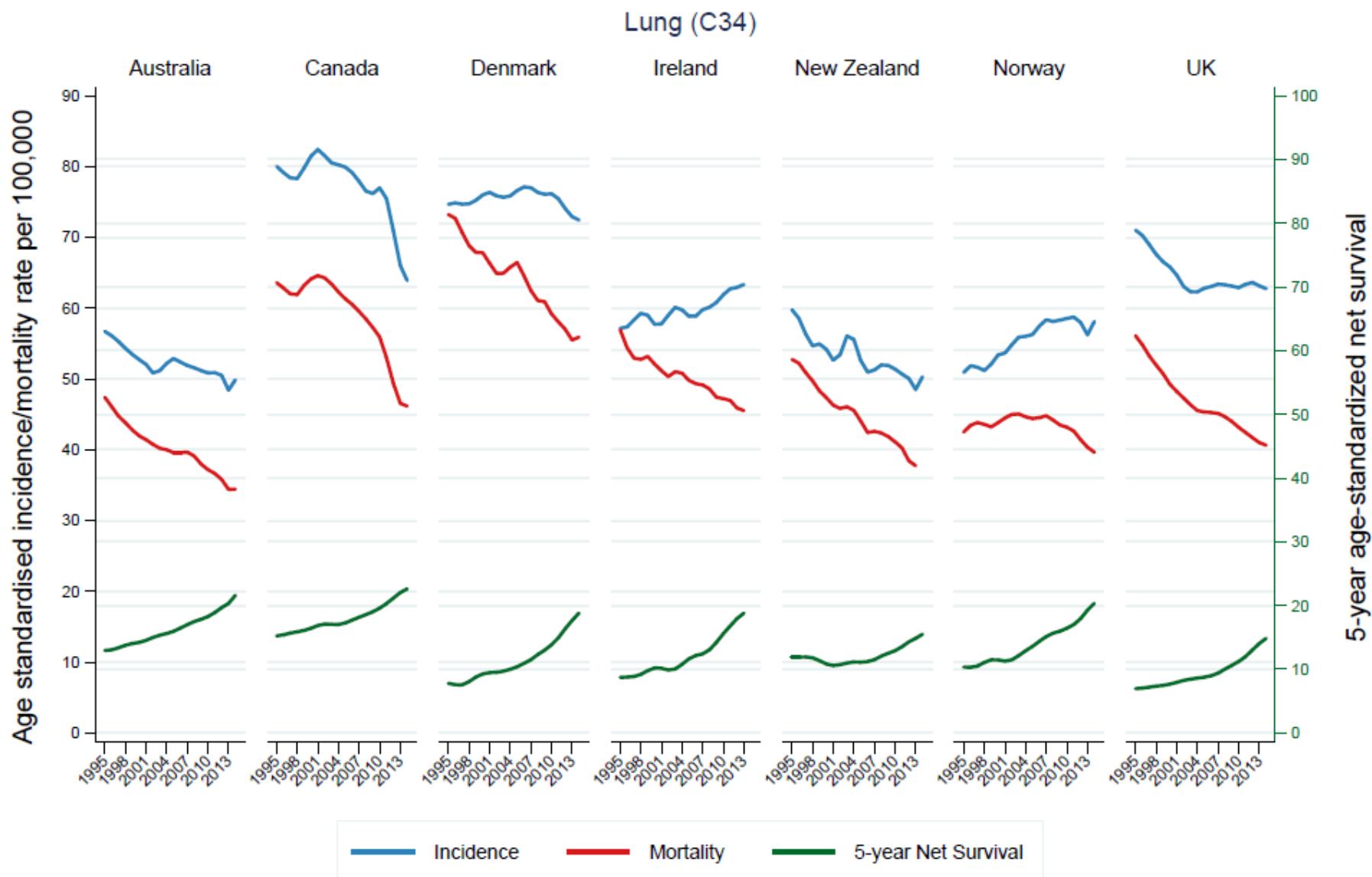


Figure S6F. Annual trends in age-standardised incidence and mortality rates and in 5-year age-standardized net survival from lung cancer by country 1995-2014

*Mortality data includes cancers of the trachea and lung (C33-34)

Age-standardised net survival is for ages 15-99; age-standardized incidence and mortality rates are for ages 25+

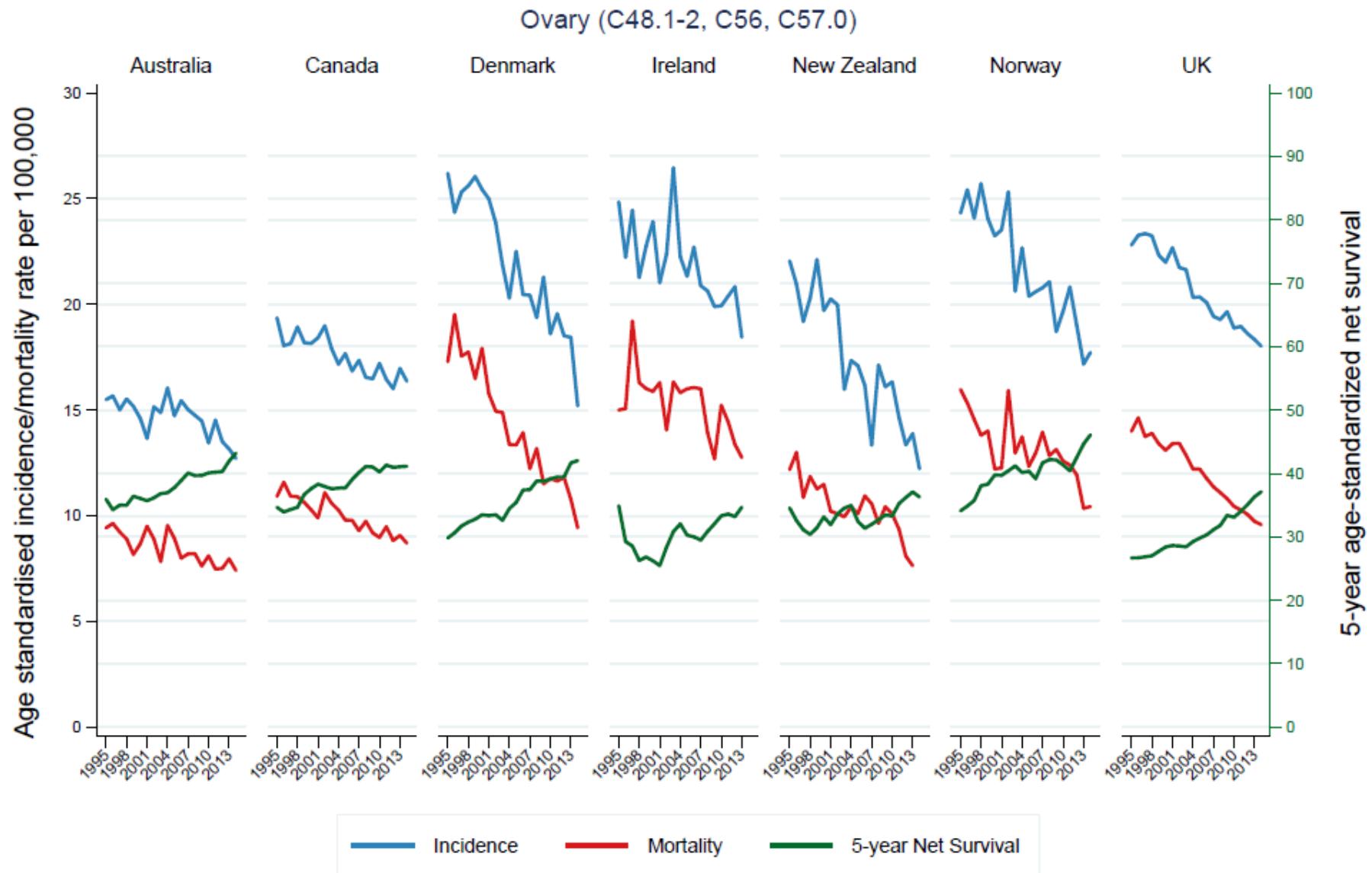


Figure S6G. Annual trends in age-standardised incidence and mortality rates and in 5-year age-standardized net survival from ovarian cancer by country 1995-2014

*Incidence and mortality data include only C56

Age-standardised net survival is for ages 15-99; age-standardized incidence and mortality rates are for ages 25+