SURVIVAL IN KIDNEY AND BLADDER CANCERS IN FOUR NORDIC COUNTRIES THROUGH A HALF CENTURY

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Supplementary Information

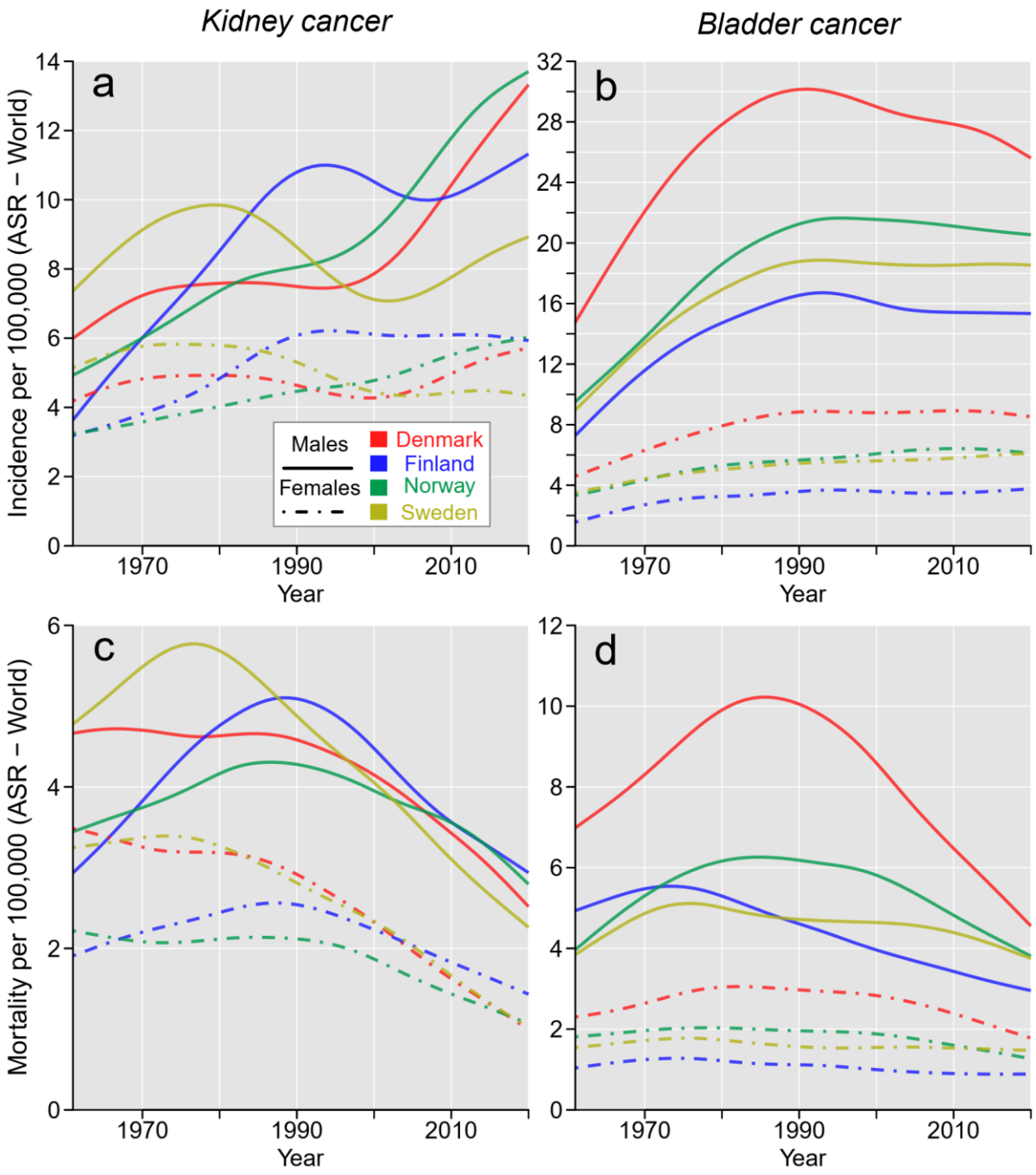


Figure S1. Incidence (a,b) and mortality (c,d) in kidney (a,c) and bladder (b,d) cancers from 1961 to 2020 in Denmark, Finland, Norway, and Sweden, separately for males and females. For a graphic presentation, the lines were smoothed by the cubic smoothing spline using the R function 'smooth.spline' with a smoothing parameter ('spar') of 0.3 and with 12 knots.

Table S1. 1-year and 5-year relative survival (95% confidence interval) in kidney and bladder cancers from 1971 to 2020. *Significant increase between the marked and the next period (nonoverlapping 95% CIs).

Male cancers					**Female cancers**			
Kidney 1-y	Denmark	Finland	Norway	Sweden	Denmark	Finland	Norway	Sweden
1971–1975	47.9 (44.4–51.7)	55.8 (51.0–61.1)	53.5 (49.4–58.0)	49.5 (47.4–51.7)*	49.4 (45.6–53.5)	56.9 (52.3–62.0)	60.7 (56.1–65.6)	54.9 (52.5–57.3)*
1976–1980	51.4 (48.2–54.9)	53.7 (49.4–58.3)	58.1 (54.5–62.1)	58.8 (56.6–61.2)	47.6 (44.3–51.1)	59.3 (55.3–63.7)	59.2 (55.2–63.5)	60.9 (58.4–63.5)
1981–1985	51.5 (48.5–54.6)	56.7 (53.4–60.2)*	58.0 (54.9–61.4)	62.5 (60.3–64.7)	53.5 (50.3–57.0)	63.7 (60.6–67.0)*	63.0 (59.4–66.9)	64.0 (61.7–66.4)
1986–1990	55.7 (52.7–58.8)	66.0 (63.1–69.1)*	61.3 (58.4–64.4)*	66.2 (64.2–68.3)*	52.8 (49.7–56.1)	70.6 (67.9–73.3)	66.4 (63.1–69.8)	66.4 (64.1–68.6)*
1991–1995	57.4 (54.5–60.4)*	72.6 (70.1–75.2)	67.5 (64.7–70.4)	71.8 (69.9–73.8)	56.7 (53.6–60.1)	71.7 (69.3–74.2)*	70.4 (67.3–73.6)	73.7 (71.7–75.9)
1996–2000	63.9 (61.2–66.8)	73.2 (70.9–75.6)	67.5 (64.9–70.3)*	71.9 (69.9–73.9)*	59.3 (56.2–62.5)	77.5 (75.3–79.9)	71.1 (68.1–74.3)*	74.8 (72.7–77.0)
2001–2005	64.8 (62.3–67.4)*	75.7 (73.5–78.0)	75.4 (73.2–77.7)*	77.7 (75.9–79.6)*	63.3 (60.2–66.5)*	77.2 (75.1–79.4)*	77.3 (74.6–79.9)*	77.3 (75.2–79.4)*
2006–2010	73.8 (71.8–76.0)*	76.7 (74.7–78.8)	80.6 (78.7–82.5)*	84.3 (82.8–85.8)*	74.5 (72.0–77.1)*	81.5 (79.6–83.4)	83.8 (81.6–86.1)	86.0 (84.4–87.8)
2011–2015	83.6 (82.0–85.3)*	79.8 (78.0–81.5)*	85.5 (83.8–87.2)*	89.7 (88.5–90.9)	83.2 (81.1–85.2)*	83.2 (81.5–85.0)	86.6 (84.6–88.7)*	89.2 (87.7–90.6)
2016–2020	88.1 (86.8–89.5)	85.7 (84.3–87.1)	90.2 (88.9–91.5)	91.3 (90.2–92.3)	88.2 (86.5–90.0)	84.6 (82.9–86.3)	90.9 (89.1–92.7)	90.9 (89.6–92.3)
Bladder 1-y								
1971–1975	76.3 (74.8–77.8)*	77.4 (74.7–80.0)	78.9 (77.0–80.9)*	79.0 (77.7–80.4)*	71.3 (68.8–74.0)	74.7 (70.7–78.9)	71.8 (68.7–75.1)	77.7 (75.8–79.7)
1976–1980	79.9 (78.6–81.2)	81.7 (79.7–83.7)	83.9 (82.4–85.5)	83.1 (82.0–84.3)*	72.0 (69.8–74.3)	76.7 (73.5–80.0)	74.8 (72.0–77.6)	78.5 (76.5–80.5)
1981–1985	81.8 (80.7–83.0)	84.8 (83.0–86.5)	85.5 (84.1–86.9)	86.0 (85.0–87.0)	72.8 (70.7–74.9)	81.2 (78.3–84.3)	78.9 (76.4–81.5)	82.2 (80.5–83.9)
1986–1990	83.2 (82.1–84.3)	86.6 (85.0–88.1)	86.4 (85.2–87.7)*	87.3 (86.4–88.2)	76.5 (74.7–78.4)	82.3 (79.6–85.0)	80.3 (77.9–82.8)	81.5 (79.9–83.1)*
1991–1995	85.3 (84.3–86.3)	87.9 (86.6–89.3)	89.3 (88.1–90.4)	88.5 (87.6–89.3)	78.1 (76.4–80.0)	81.7 (79.3–84.2)	81.0 (78.8–83.3)	84.7 (83.2–86.2)
1996–2000	86.0 (85.1–87.0)	89.1 (87.8–90.4)	87.9 (86.8–89.1)	88.4 (87.6–89.2)	78.0 (76.2–79.8)	85.9 (83.6–88.1)	81.5 (79.3–83.8)	84.2 (82.7–85.6)
2001–2005	87.1 (86.1–88.0)	89.6 (88.4–90.9)	88.9 (87.9–89.9)	88.5 (87.7–89.3)	79.0 (77.3–80.7)	83.8 (81.4–86.3)	81.1 (79.0–83.3)	83.5 (82.0–84.9)
2006–2010	88.1 (87.2–88.9)*	89.0 (87.9–90.1)	89.2 (88.1–90.2)	88.4 (87.6–89.2)*	80.5 (78.8–82.2)*	87.1 (85.1–89.1)	84.1 (82.2–86.1)	85.4 (84.0–86.8)
2011–2015	90.3 (89.5–91.0)	90.2 (89.3–91.2)	90.9 (90.0–91.8)	90.9 (90.2–91.5)*	85.3 (84.0–86.7)	83.9 (81.6–86.2)	85.4 (83.7–87.2)	85.1 (83.7–86.5)
2016–2020	91.1 (90.4–91.8)	90.6 (89.7–91.5)	91.5 (90.6–92.3)	92.4 (91.8–92.9)	86.2 (84.8–87.6)	85.8 (84.0–87.6)	87.5 (85.9–89.1)	86.9 (85.7–88.1)
Kidney 5-y								
1971–1975	27.0 (23.6–30.9)	28.4 (23.5–34.3)	33.1 (29.0–37.7)	31.5 (29.4–33.8)*	29.7 (26.0–33.9)	34.6 (30.0–40.0)	38.9 (34.1–44.5)	38.0 (35.5–40.5)
1976–1980	30.2 (26.8–34.0)	29.8 (25.9–34.3)	36.9 (32.7–41.7)	38.1 (35.4–41.0)	29.3 (26.0–32.9)	34.3 (30.3–38.8)*	38.5 (34.2–43.3)	40.9 (38.2–43.8)
1981–1985	30.4 (27.3–33.9)	34.3 (30.7–38.4)*	39.3 (35.7–43.2)	41.3 (38.7–44.1)	34.8 (31.5–38.5)	43.2 (39.7–46.9)*	42.6 (38.6–47.0)	44.2 (41.6–46.9)
1986–1990	34.9 (31.6–38.5)	44.9 (41.3–48.9)*	40.9 (37.5–44.6)*	45.0 (42.5–47.6)	35.4 (32.2–39.1)	51.8 (48.5–55.3)	49.8 (46.0–53.8)	45.2 (42.7–47.9)*
1991–1995	37.9 (34.7–41.5)	54.1 (50.7–57.7)	49.1 (45.6–52.8)	49.6 (47.1–52.3)	38.2 (34.8–41.8)	57.2 (54.2–60.3)	54.5 (50.8–58.5)	55.3 (52.7–58.0)
1996–2000	39.9 (36.5–43.5)	58.0 (54.7–61.4)	47.9 (44.8–51.4)*	51.9 (49.4–54.6)*	40.2 (36.9–43.8)	61.4 (58.5–64.5)	52.7 (49.1–56.6)*	56.9 (54.3–59.8)
2001–2005	45.9 (42.9–49.2)*	58.4 (55.5–61.5)	59.0 (56.0–62.1)	59.7 (57.1–62.3)*	45.0 (41.6–48.8)*	63.5 (60.7–66.3)	62.5 (59.1–66.0)*	61.2 (58.5–64.0)*
2006–2010	58.1 (55.4–61.0)*	61.2 (58.6–63.9)	64.0 (61.3–66.8)*	68.7 (66.4–71.1)*	58.5 (55.3–61.8)*	67.0 (64.4–69.6)	71.3 (68.2–74.5)	70.9 (68.4–73.5)*
2011–2015	68.7 (66.2–71.3)*	64.8 (62.4–67.2)*	74.7 (72.2–77.3)	74.7 (72.7–76.8)*	68.7 (65.8–71.7)	71.1 (68.8–73.6)	77.2 (74.3–80.2)	76.6 (74.4–78.9)
2016–2020	74.5 (72.2–76.8)	71.2 (69.0–73.5)	78.9 (76.6–81.2)	79.0 (77.1–81.0)	74.0 (71.3–76.9)	74.0 (71.7–76.3)	80.0 (77.1–83.1)	78.6 (76.4–80.8)
Bladder 5-y								
1971–1975	54.9 (52.8–57.1)*	50.2 (46.7–54.0)	58.9 (56.1–61.8)*	62.3 (60.3–64.3)*	49.7 (46.5–53.1)	48.6 (43.6–54.0)*	51.2 (47.2–55.5)	62.1 (59.5–64.9)
1976–1980	59.7 (57.8–61.6)	55.8 (52.8–58.9)*	64.5 (62.1–67.0)	68.9 (67.1–70.7)	53.7 (50.9–56.7)	58.4 (54.4–62.7)	57.4 (53.9–61.1)	63.7 (61.1–66.5)
1981–1985	62.9 (61.1–64.7)	66.5 (63.7–69.4)	67.0 (64.7–69.4)	69.5 (67.8–71.1)*	54.2 (51.6–56.9)*	64.2 (60.1–68.6)	60.9 (57.7–64.4)	65.6 (63.3–68.1)
1986–1990	64.9 (63.2–66.7)*	70.0 (67.4–72.7)	70.5 (68.3–72.7)	73.0 (71.5–74.5)	60.0 (57.5–62.5)	64.0 (60.2–68.0)	64.5 (61.3–67.9)	67.6 (65.4–69.9)
1991–1995	68.7 (67.0–70.4)	74.5 (72.1–76.9)	73.5 (71.5–75.5)	73.8 (72.4–75.2)	63.2 (60.8–65.7)	66.4 (63.0–69.9)	64.7 (61.6–67.9)	68.9 (66.7–71.0)
1996–2000	71.0 (69.4–72.6)	74.8 (72.6–77.1)	72.9 (70.9–74.8)	74.3 (72.9–75.7)	61.6 (59.2–64.0)	72.9 (69.6–76.4)	68.8 (65.8–71.9)	70.2 (68.1–72.2)
2001–2005	73.4 (71.8–74.9)	75.7 (73.6–77.9)	75.4 (73.6–77.2)	76.0 (74.7–77.3)	64.5 (62.2–66.8)	71.4 (68.2–74.8)	67.1 (64.3–70.0)	69.8 (67.8–71.9)
2006–2010	75.5 (74.0–76.9)*	77.5 (75.7–79.4)	76.3 (74.6–78.1)	75.4 (74.2–76.7)*	66.5 (64.3–68.8)*	75.4 (72.3–78.6)	70.5 (67.8–73.4)	72.1 (70.1–74.1)
2011–2015	78.6 (77.3–79.9)	78.6 (76.9–80.3)	79.5 (78.0–81.1)	79.3 (78.2–80.5)*	72.1 (70.1–74.2)	72.5 (69.4–75.8)	71.8 (69.1–74.6)	72.6 (70.7–74.5)
2016–2020	81.0 (79.7–82.2)	78.9 (77.3–80.5)	81.1 (79.7–82.6)	81.6 (80.6–82.6)	74.0 (72.0–76.1)	74.8 (72.1–77.7)	75.6 (73.2–78.1)	76.1 (74.4–77.9)

Table S2. 5/1-year conditional survival in kidney and bladder cancers from 1971 to 2020.

Male cancers					Female cancers			
Kidney	Denmark	Finland	Norway	Sweden	Denmark	Finland	Norway	Sweden
1971–1975	56.4	50.9	61.9	63.6	60.1	60.8	64.1	69.2
1976–1980	58.8	55.5	63.5	64.8	61.6	57.8	65.0	67.2
1981–1985	59.0	60.5	67.8	66.1	65.0	67.8	67.6	69.1
1986–1990	62.7	68.0	66.7	68.0	67.0	73.4	75.0	68.1
1991–1995	66.0	74.5	72.7	69.1	67.4	79.8	77.4	75.0
1996–2000	62.4	79.2	71.0	72.2	67.8	79.2	74.1	76.1
2001–2005	70.8	77.1	78.2	76.8	71.1	82.3	80.9	79.2
2006–2010	78.7	79.8	79.4	81.5	78.5	82.2	85.1	82.4
2011–2015	82.2	81.2	87.4	83.3	82.6	85.5	89.1	85.9
2016–2020	84.6	83.1	87.5	86.5	83.9	87.5	88.0	86.5
Bladder								
1971–1975	72.0	64.9	74.7	78.9	69.7	65.1	71.3	79.9
1976–1980	74.7	68.3	76.9	82.9	74.6	76.1	76.7	81.1
1981–1985	76.9	78.4	78.4	80.8	74.5	79.1	77.2	79.8
1986–1990	78.0	80.8	81.6	83.6	78.4	77.8	80.3	82.9
1991–1995	80.5	84.8	82.3	83.4	80.9	81.3	79.9	81.3
1996–2000	82.6	84.0	82.9	84.0	79.0	84.9	84.4	83.4
2001–2005	84.3	84.5	84.8	85.9	81.6	85.2	82.7	83.6
2006–2010	85.7	87.1	85.5	85.3	82.6	86.6	83.8	84.4
2011–2015	87.0	87.1	87.5	87.2	84.5	86.4	84.1	85.3
2016–2020	88.9	87.1	88.6	88.3	85.8	87.2	86.4	87.6