

SUPPLEMENTAL DATA

Supplemental Table 1

AJCC Pancreatic Cancer Staging 7th edition

Anatomic Stage/Prognostic Groups

Stage 0	Tis	N0	M0
Stage IA	T1	N0	M0
Stage IB	T2	N0	M0
Stage IIA	T3	N0	M0
Stage IIB	T1	N1	M0
	T2	N1	M0
	T3	N1	M0
Stage III	T4	Any N	M0
Stage IV	Any T	Any N	M1

Definitions

Primary Tumor (T)

Tx	Primary tumor cannot be assessed
T0	No evidence of primary tumor
Tis	Carcinoma in situ
T1	Tumor limited to the pancreas, 2 cm or less in greatest dimension
T2	Tumor limited to the pancreas, more than 2 cm in greatest dimension
T3	Tumor extends beyond the pancreas but without involvement of the celiac axis or the superior mesenteric artery
T4	Tumor involves the celiac axis or the superior mesenteric artery (unresectable primary tumor)

Regional lymph nodes (N)

Nx	Regional lymph nodes cannot be assessed
N0	No regional lymph node metastasis
N1	Regional lymph node metastasis

Distant Metastasis (M)

M0	No distant metastasis
M1	Distant metastasis

Supplemental Table 2

Estimates from multiple linear regression models for age, adjusting for patient race, sex, tumor location and grade among patients with stage IV disease only (first column) and all stages (second column). Separate models were estimated for varying subgroups of patient stage of disease. Values given are mean differences in ages by T stage, with 95% confidence intervals.

Stage IV	Stages I to IV
63.75 [61, 66.49]	61.43 [60.23, 62.63]
-0.16 [-2.48, 2.16], P = 0.89	0.54 [-0.41, 1.49], P = 0.26
-1.74 [-4.03, 0.54], P = 0.14	0.5 [-0.38, 1.39], P = 0.26
-1.8 [-4.14, 0.54], P = 0.13	0.49 [-0.48, 1.45], P = 0.33

Supplemental Table 3: Estimates from a multiple linear regression model for age, adjusting for patient race, sex, tumor location and grade. All patients were included in the models. Values given are mean differences in ages by clinical stage and T stage, with 95% confidence intervals.

Adjusted Mean Age (years), Stage IA	61.23 [59.86, 62.61]
Age difference (years): IB v IA	-0.19 [-1.53, 1.16], P = 0.79
Age difference (years): IIA v IA	1.67 [0.46, 2.87], P = 0.007
Age difference (years): IIB, T1 v IA	-0.9 [-2.9, 1.1], P = 0.38
Age difference (years): IIB, T2 v IA	-0.37 [-1.77, 1.03], P = 0.6
Age difference (years): IIB, T3 v IA	0.28 [-0.87, 1.43], P = 0.63
Age difference (years): III v IA	0.81 [-0.45, 2.06], P = 0.21
Age difference (years): IV, T1 v IA	2.14 [-0.21, 4.5], P = 0.07
Age difference (years): IV, T2 v IA	1.93 [0.64, 3.22], P = 0.003
Age difference (years): IV, T3 v IA	0.34 [-0.89, 1.58], P = 0.59
Age difference (years): IV, T4 v IA	0.37 [-0.96, 1.7], P = 0.58
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Adjusted Mean Age (years), Stage IB	61.05 [59.87, 62.22]
Age difference (years): IA v IB	0.19 [-1.16, 1.53], P = 0.79
Age difference (years): IIA v IB	1.85 [0.91, 2.8], P = 1e-04
Age difference (years): IIB, T1 v IB	-0.71 [-2.57, 1.14], P = 0.45
Age difference (years): IIB, T2 v IB	-0.19 [-1.37, 1], P = 0.76
Age difference (years): IIB, T3 v IB	0.47 [-0.41, 1.34], P = 0.3
Age difference (years): III v IB	0.99 [-0.02, 2], P = 0.05
Age difference (years): IV, T1 v IB	2.33 [0.1, 4.56], P = 0.04
Age difference (years): IV, T2 v IB	2.12 [1.07, 3.17], P < 0.0001
Age difference (years): IV, T3 v IB	0.53 [-0.46, 1.51], P = 0.29
Age difference (years): IV, T4 v IB	0.56 [-0.54, 1.66], P = 0.32
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Adjusted Mean Age (years), Stage IIA	62.9 [61.84, 63.97]
Age difference (years): IA v IIA	-1.67 [-2.87, -0.46], P = 0.007
Age difference (years): IB v IIA	-1.85 [-2.8, -0.91], P = 1e-04
Age difference (years): IIB, T1 v IIA	-2.57 [-4.31, -0.82], P = 0.004
Age difference (years): IIB, T2 v IIA	-2.04 [-3.05, -1.03], P < 0.0001
Age difference (years): IIB, T3 v IIA	-1.39 [-1.99, -0.79], P < 0.0001
Age difference (years): III v IIA	-0.86 [-1.65, -0.07], P = 0.03
Age difference (years): IV, T1 v IIA	0.48 [-1.66, 2.62], P = 0.66
Age difference (years): IV, T2 v IIA	0.26 [-0.59, 1.11], P = 0.54
Age difference (years): IV, T3 v IIA	-1.33 [-2.09, -0.56], P = 7e-04
Age difference (years): IV, T4 v IIA	-1.3 [-2.21, -0.39], P = 0.005

Supplemental Table 4:

Estimates from a multiple linear regression model for age, adjusting for patient race, sex, tumor location and grade, among patients with stage I, II or III disease only. Values given are mean differences in ages by tumor size and stage of disease, with 95% confidence intervals.

<u>Adjusted Mean Age (years), Stage IB</u>	<u>60.63 [59.32, 61.94]</u>
Age difference (years): IA v IB	0.15 [-1.17, 1.46], P = 0.83
Age difference (years): IIA, <= 2cm v IB	1.65 [0.25, 3.05], P = 0.02
Age difference (years): IIA, 2-4 cm v IB	2.23 [1.21, 3.26], P < 0.0001
Age difference (years): IIA, > 4cm v IB	1.24 [-0.03, 2.5], P = 0.05
Age difference (years): IIB, <= 2cm v IB	-0.32 [-1.45, 0.8], P = 0.58
Age difference (years): IIB, 2-4 cm v IB	0.7 [-0.19, 1.59], P = 0.12
Age difference (years): IIB, > 4cm v IB	0.06 [-0.92, 1.05], P = 0.9
Age difference (years): III, <= 2cm v IB	1.54 [-0.82, 3.89], P = 0.2
Age difference (years): III, 2-4 cm v IB	0.92 [-0.27, 2.1], P = 0.13
Age difference (years): III, > 4cm v IB	1.15 [-0.02, 2.32], P = 0.05
<u>Adjusted Mean Age (years), Stage IIB, <= 2cm</u>	<u>60.31 [58.91, 61.71]</u>
Age difference (years): IA v IIB, <= 2cm	0.47 [-0.87, 1.81], P = 0.49
Age difference (years): IB v IIB, <= 2cm	0.32 [-0.8, 1.45], P = 0.58
Age difference (years): IIA, <= 2cm v IIB, <= 2cm	1.98 [0.58, 3.37], P = 0.006
Age difference (years): IIA, 2-4 cm v IIB, <= 2cm	2.56 [1.53, 3.58], P < 0.0001
Age difference (years): IIA, > 4cm v IIB, <= 2cm	1.56 [0.28, 2.84], P = 0.02
Age difference (years): IIB, 2-4 cm v IIB, <= 2cm	1.02 [0.14, 1.9], P = 0.02
Age difference (years): IIB, > 4cm v IIB, <= 2cm	0.39 [-0.61, 1.38], P = 0.45
Age difference (years): III, <= 2cm v IIB, <= 2cm	1.86 [-0.5, 4.21], P = 0.12
Age difference (years): III, 2-4 cm v IIB, <= 2cm	1.24 [0.05, 2.42], P = 0.04
Age difference (years): III, > 4cm v IIB, <= 2cm	1.47 [0.29, 2.65], P = 0.01