

MITRE / FLUX NOTES **TREATMENT OPTIONS v5**

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Summary

Treatment
Options

Treatment Options Ductal carcinoma of the breast

Outcomes and criteria for 156,765 patients with Ductal carcinoma of the breast were collected by CancerLinQ [...more](#)

> Similar patients 156 patients

excluded criteria: race, received radiation therapy, received chemotherapy

> Outcomes overall survival rate, ECOG impact, hospitalization due to side effects

		Overall survival rates			ECOG impact	Hospitalization due to side effects		
		1 yr	2 yr	5 yr		all	leading causes	
included:								
<div><div>x</div>surgery</div>	(11)	67% <div><div></div><div></div><div></div></div>	54% <div><div></div><div></div><div></div></div>	43% <div><div></div><div></div><div></div></div>	0.2	19%	pain (9%) neuropathy (4%)	
in combination with:								
<div><div>+</div>hormonal therapy & chemotherapy</div>	(64)	87% <div><div></div><div></div><div></div><div></div></div> ▲20%	74% <div><div></div><div></div><div></div><div></div></div> ▲20%	58% <div><div></div><div></div><div></div><div></div></div> ▲15%	0.5 ▲0.3	15% ▼4%	pain (9%) dyspnoea (2%)	
<div><div>+</div>hormonal therapy</div>	(76)	77% <div><div></div><div></div><div></div><div></div></div> ▲10%	59% <div><div></div><div></div><div></div><div></div></div> ▲5%	49% <div><div></div><div></div><div></div><div></div></div> ▲6%	0.5 ▲0.3	23% ▲4%	dyspnoea (11%) blood clots (4%)	
<div><div>+</div>chemotherapy</div>	(12)	68% <div><div></div><div></div><div></div><div></div></div> ▲1%	53% <div><div></div><div></div><div></div><div></div></div> ▼1%	41% <div><div></div><div></div><div></div><div></div></div> ▼2%	0.9 ▲0.7	22% ▲3%	pain (11%) dyspnoea (7%)	
more comparisons		<div><div></div>survived with surgery alone</div> <div><div></div>additional survivors due to treatment</div> <div><div></div>cancer related deaths</div> <div><div></div>deaths due to other causes</div>					showing 3 of 5 treatments only those with 10+ patients	



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× surgery	(11)	67%	54%	43%	0.2	19%	pain (9%) neuropathy (4%)
always include these treatments							
<input checked="" type="checkbox"/> surgery > <input type="checkbox"/> hormonal therapy > <input type="checkbox"/> chemotherapy + <input checked="" type="checkbox"/> radiation <input type="checkbox"/> external beam <input type="checkbox"/> internal		87%	74%	58%	0.5 ▲0.3	15% ▼4%	pain (9%) dyspnoea (2%)
+		77%	59%	49%	0.5 ▲0.3	23% ▲4%	dyspnoea (11%) blood clots (4%)
+		68%	53%	41%	0.9 ▲0.7	22% ▲3%	pain (11%) dyspnoea (7%)

more comparisons

In combination with surgery, compare across:

- ☒ treatment types
 - ☐ surgery
 - ☒ hormonal therapy
 - ☒ chemotherapy
 - ☐ radiation
- ☐ chemotherapy regimens
- ☐ hormonal therapy regimens
- ☐ radiation therapies

survived with surgery alone
 additional survivors due to treatment
 cancer related deaths
 deaths due to other causes

showing 3 of 5 treatments
only those with 10+ patients ▼

- ☐ All treatments
- ☒ Most common treatments
 - ☒ 3
 - ☐ 5
 - ☐ 10
- ☐ all time
- ☐ past year
- ☒ include only treatments with at least 10 patients



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in combination with:							
+ hormonal therapy & chemotherapy	(64)	87% ▲20%	74% ▲20%	58%			
+ hormonal therapy	(76)	77% ▲10%	59% ▲5%	49%			
+ chemotherapy	(12)	68% ▲1%	53% ▼1%	41%			

[more comparisons](#)

survived with surgery alone
 additional survivors due to treatment
 cancer related deaths
 deaths due to other causes

Surgery

19% All hospitalization due to side effects

9%	pain	Generalized pain
4%	neuropathy	A description of neuropathy that is ten words or less
3%	dyspnoea	A description of dyspnoea that cannot fit on this line and requires... more
2%	bleeding	Another description.
1%	other	

showing 3 of 5 treatments
only those with 10+ patients ▼



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[select all](#) [select none](#)

demographic 3/4

- ☒ age: 41-61 1
- ☒ age at diagnosis: 41-61 1
- ☐ race: white 3
- ☒ sex: female 2

genetics 2/2

- ☒ BRCA1: negative 3
- ☒ BRCA2: negative 2

pathology 5/5

- ☒ ER: negative 3
- ☒ PR: positive 2
- ☒ HER2: positive 3
- ☒ grade: 3 2
- ☒ size (mm): 10-20 2

treatment history 1/3

- ☒ had surgery: yes 3
- ☐ received radiation therapy: yes 2
- ☐ received chemotherapy: yes 3

medical history 1/1

- ☒ ECOG score: 2-3 2

Outcomes overall survival rate, ECOG impact, hospitalization due to side effects

survival rates

- ☐ Relative survival rate textual description
- ☐ Cancer specific survival rate textual description
- ☐ Disease free survival rate textual description
- ☒ Total survival rate textual description

impact on quality of life indices

- ☐ Quality of Life-Cancer Survivor textual description
- ☐ ECOG Performance Status textual description
- ☐ Karnofsky Score textual description

side effects

- ☒ Hospitalizations due to side effects textual description
- ☐ Most severe side effects textual description
- ☐ Most common side effects textual description

costs

- ☐ Days expended textual description
- ☐ Out-of-pocket cost textual description
- ☐ Hospital stays textual description

Summary

Treatment
Options

Additional visualization modes (draft ideas)

to supplement the the default tabular view

These alternative views would not have the interactive methods of changing the included list and comparing list. A pair of separate dropdowns would be necessary.

Here we present narrative and chart views.

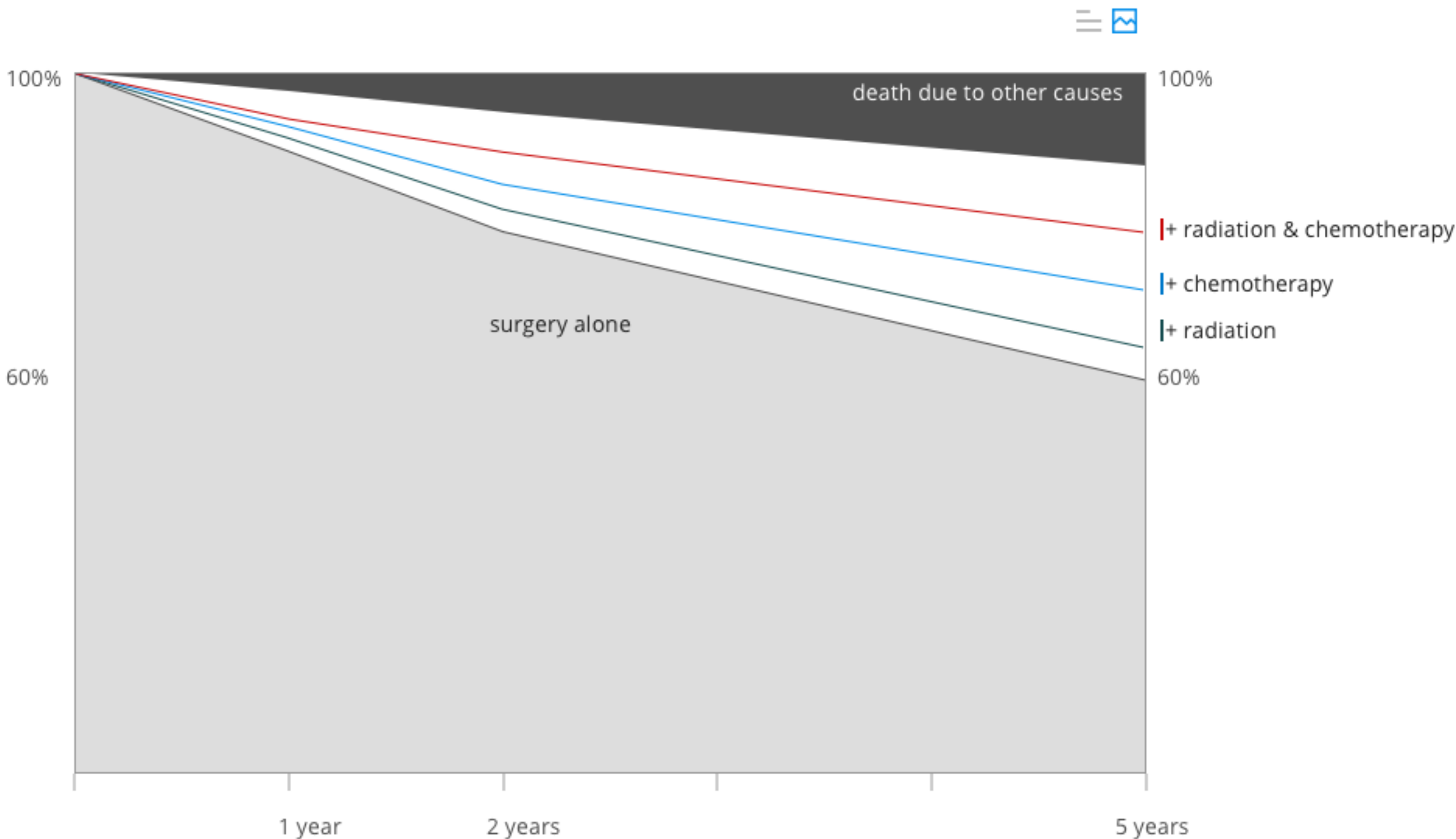
1 yr 2 yr 5 yr



With **surgery alone**, 68% of patients will survive 1 year, with 30% dying due to cancer. 10% are hospitalized due to side effects, most commonly due to **pain**.

With **chemotherapy** in addition to surgery, 5% additional patients will survive 1 year. 2% more are hospitalized due to side effects, most commonly due to **neuropathy**.

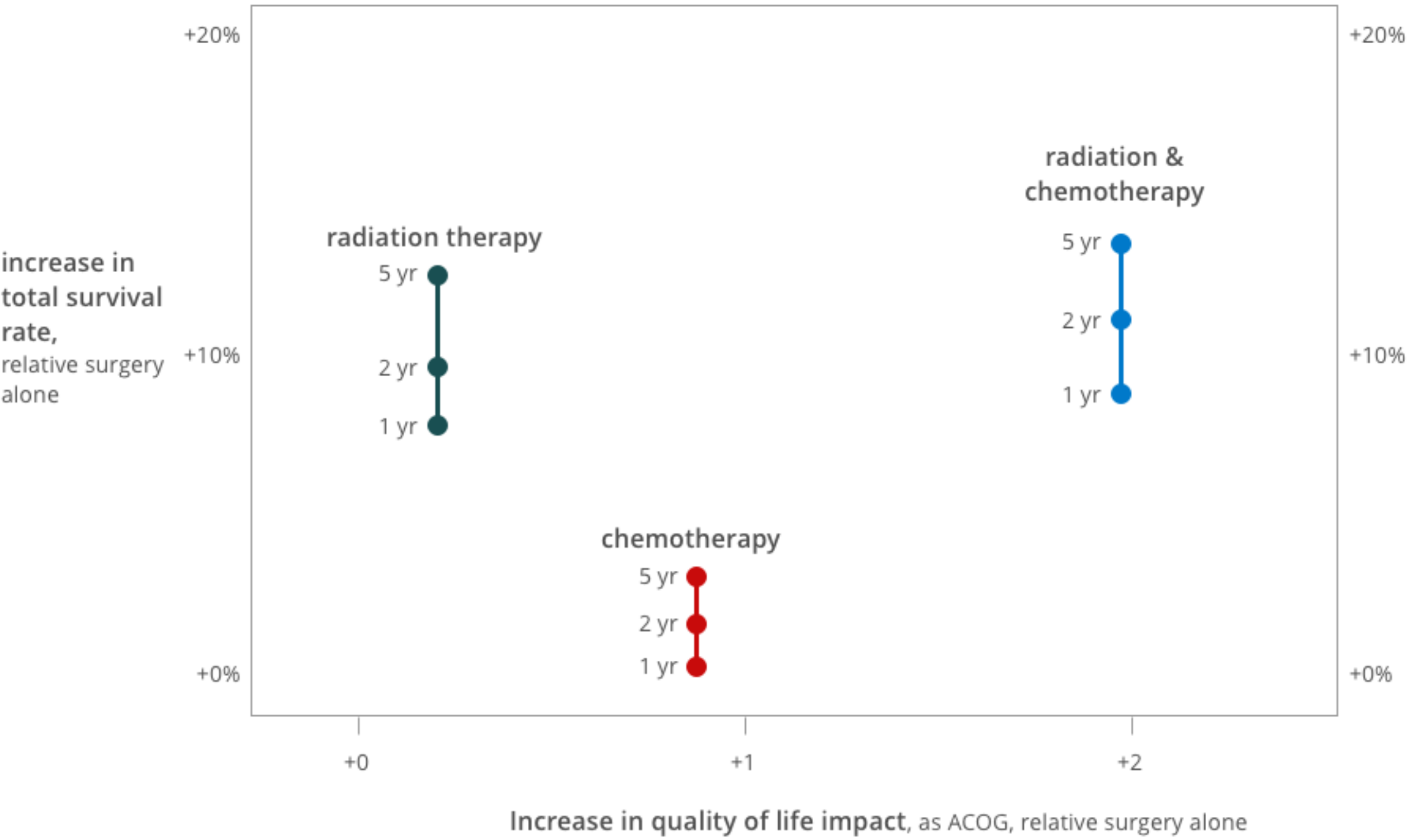
With **chemotherapy & radiation** in addition to surgery, 12% additional patients will survive 1 year. 4% more are hospitalized due to side effects, most commonly due to **blood clots**.



Additional visualization modes (draft ideas)

to supplement the the default tabular view

This chart compares treatments across two variables, relative to surgery alone. We compare impact on survival rate for 3 time points and quality of life.

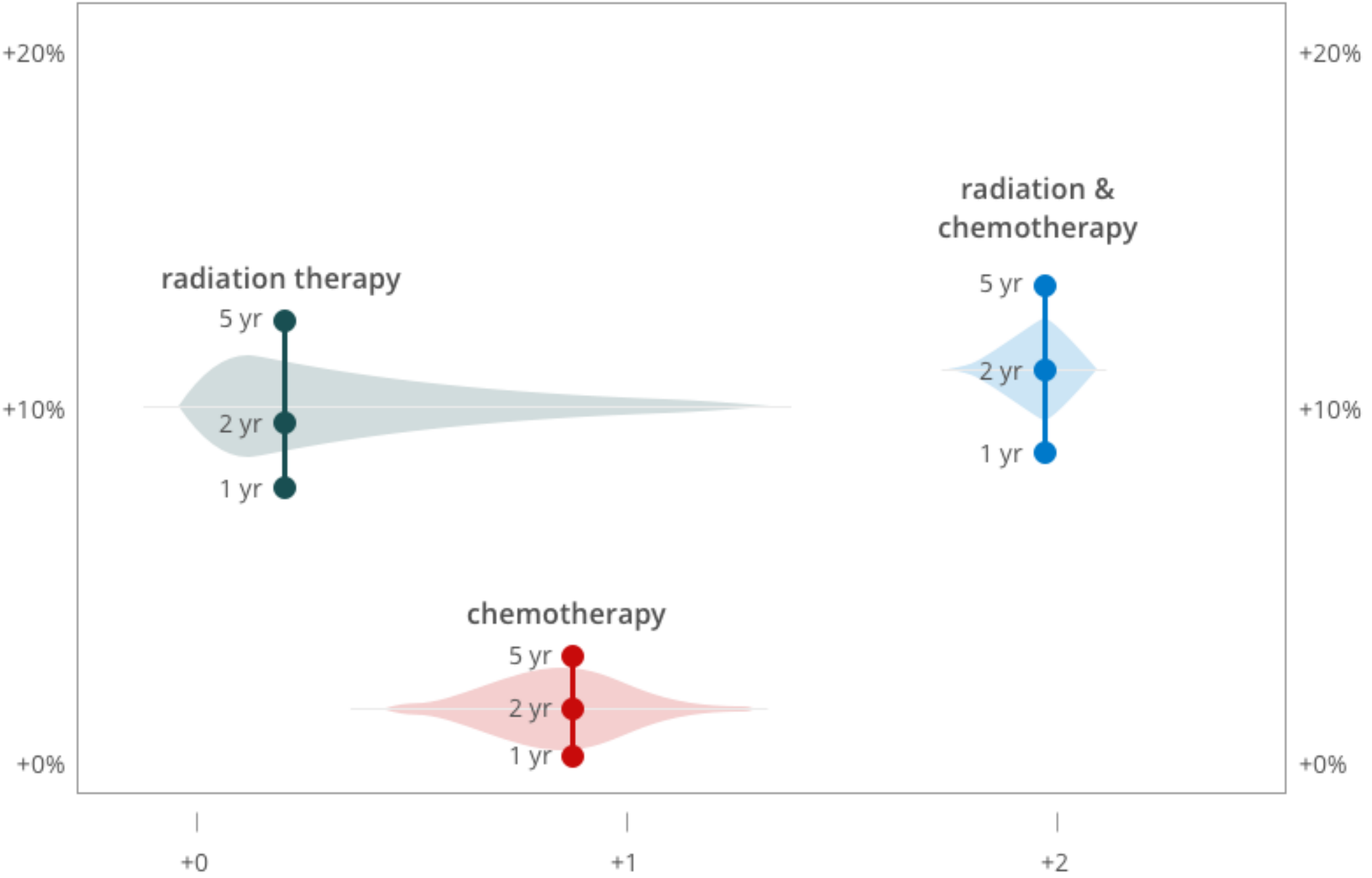


Additional visualization modes (draft ideas)

to supplement the the default tabular view
This includes distribution data for one of the variables.



increase in
total survival
rate,
relative surgery
alone



Increase in quality of life impact, as ACOG, relative surgery alone

Additional visualization modes (draft ideas)

to supplement the the default tabular view

This visual shows expected outcomes for a statistical 100 patients. It graphically shows how many patients who would die without additional treatment survive with various treatments.

The user can tap on a treatment regimen to focus on that treatment and reveal additional data, such as hospitalization rates.

