

Author(s):
Question: Neoadjuvant chemotherapy compared to primary debulking surgery for women with stage III and IV epithelial ovarian cancer
Setting:
Bibliography:

Certainty assessment							N _e of patients		Effect		Certainty	Importance
N _e of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	neoadjuvant chemotherapy	primary debulking surgery	Relative (95% CI)	Absolute (95% CI)		
Overall survival (follow up: range 3 years to 6 years)												
5	randomised trials	not serious	not serious	not serious	not serious	none			HR 0.96 (0.86 to 1.07) [Overall survival]	-- per 1,000 (from -- to --)	⊕⊕⊕⊕ HIGH	CRITICAL
							-	0.0%		-- per 1,000 (from -- to --)		
Progression-free survival (follow up: range 3 years to 6 years)												
5	randomised trials	not serious	not serious	not serious	not serious	none			HR 0.98 (0.89 to 1.08) []	-- per 1,000 (from -- to --)	⊕⊕⊕⊕ HIGH	IMPORTANT
							-	0.0%		-- per 1,000 (from -- to --)		
Any grade 3 or 4 adverse event												
3	randomised trials	not serious	not serious ^a	not serious	serious ^b	none	43/423 (10.2%)	125/486 (25.7%)	RR 0.34 (0.16 to 0.72)	170 fewer per 1,000 (from 216 fewer to 72 fewer)	⊕⊕⊕⊖ MODERATE	CRITICAL
Perioperative death within 28 days												
5	randomised trials	not serious	not serious	not serious	serious ^b	none	3/786 (0.4%)	26/836 (3.1%)	RR 0.16 (0.06 to 0.46)	26 fewer per 1,000 (from 29 fewer to 17 fewer)	⊕⊕⊕⊖ MODERATE	CRITICAL
No residual disease												
4	randomised trials	not serious	serious ^c	not serious	not serious	none	370/847 (43.7%)	157/845 (18.6%)	RR 2.34 (1.48 to 3.71)	249 more per 1,000 (from 89 more to 504 more)	⊕⊕⊕⊖ MODERATE	CRITICAL
Optimal cytoreduction rates												
4	randomised trials	not serious	not serious ^e	not serious	serious ^d	none	565/847 (66.7%)	360/845 (42.6%)	RR 1.48 (0.92 to 2.38)	204 more per 1,000 (from 34 fewer to 588 more)	⊕⊕⊕⊖ MODERATE	IMPORTANT
Overall survival tumour size ≤5cm												
3	randomised trials	not serious	serious ^c	not serious	serious ^d	none			HR 1.10 (0.87 to 1.38) [Overall survival tumour size ≤5cm]	-- per 1,000 (from -- to --)	⊕⊕⊖⊖ LOW	CRITICAL
							-	0.0%		-- per 1,000 (from -- to --)		
Overall survival tumour size 5-10cm												
2	randomised trials	not serious	not serious	not serious	serious ^d	none			HR 0.86 (0.69 to 1.08) [Overall survival tumour size 5-10cm]	-- per 1,000 (from -- to --)	⊕⊕⊕⊖ MODERATE	CRITICAL
							-	0.0%		-- per 1,000 (from -- to --)		
Overall survival tumour size >10cm												
4	randomised trials	not serious	not serious	not serious	serious ^d	none			HR 0.94 (0.78 to 1.12) [Overall survival tumour size >10cm]	-- per 1,000 (from -- to --)	⊕⊕⊕⊖ MODERATE	CRITICAL
							-	0.0%		-- per 1,000 (from -- to --)		
Overall survival stage III												

4	randomised trials	not serious	not serious	not serious	serious ^d	none			HR 1.00 (0.88 to 1.14) [Overall survival stage III]	-- per 1,000 (from -- to --)	⊕⊕⊕○ MODERATE	CRITICAL
							-	0.0%		-- per 1,000 (from -- to --)		

Overall survival stage IV

4	randomised trials	not serious	not serious	not serious	serious ^d	none			HR 0.88 (0.71 to 1.09) [Overall survival stage IV]	-- per 1,000 (from -- to --)	⊕⊕⊕○ MODERATE	CRITICAL
							-	0.0%		-- per 1,000 (from -- to --)		

CI: Confidence interval; **HR:** Hazard Ratio; **RR:** Risk ratio; **MD:** Mean difference

Explanations

- a. Considerable heterogeneity was observed between the included studies, however confidence intervals were consistently lower than a maximum of RR 0.87.
- b. Due to few events (<400).
- c. Considerable statistical heterogeneity.
- d. CI overlaps no effect or minimal important difference and suggests much uncertainty about the true effect.
- e. Statistical heterogeneity exists between the SCORPION trial and the rest of the included studies. However, this can be attributed to the difference of the population recruited by the SCORPION trial, as they decided to exclude patients with unresectable disease prior to randomization.