

**Table S1.** Spearman Rho test - correlation of CTCs and CTC sunglasses to tdEVs in CNPC and CRPC.

CNPC patients			CRPC patients		
Correlations with tdEVs_AC- CEPT	Spearman Rho co- efficients	<i>p</i> - value	Correlations with tdEVs_AC- CEPT	Spearman Rho coeffi- cients	<i>p</i> - value
CTC_Cluster	0.56	< 0.001	CTC_Cluster	0.78	< 0.001
CTC_Pretty	0.68	< 0.001	CTC_Pretty	0.69	< 0.001
CTC_Heterogenous_CK	0.81	< 0.001	CTC_Heterogenous_CK	0.86	< 0.001
CTC_Cleaved_CK	0.67	< 0.001	CTC_Cleaved_CK	0.82	< 0.001
CTC_Fragmented_DNA	0.57	< 0.001	CTC_Fragmented_DNA	0.55	< 0.001
CTC_Cleaved_Fragmented	0.66	< 0.001	CTC_Cleaved_Fragmented	0.66	< 0.001
CTC_ACCEPT_Corrected	0.84	< 0.001	CTC_ACCEPT_Corrected	0.92	< 0.001

**Table S2.** CTC and tdEV counts from manual, ACCEPT and ACCEPT corrected analysis.

CNPC ( <i>n</i> = 104)					CRPC ( <i>n</i> = 66)		
		0 CTC	1 ≤ CTC < 5	CTC ≥ 5			
		Range (Mean, SD)	Range (Mean, SD)	Range (Mean, SD)			Range (Mean, SD)
CTC	manual	-	1–4 (1.8, 0.9)	5–1903 (163, 333)	-	1–4 (2, 1.14)	5–378 (62.6, 83.4)
tdEV	ACCEPT	0–49 (5.79, 7.40)	1–252 (30.33, 47.59)	8–3373 (657, 915)	0–12 (5, 4)	2–138 (34.31, 33.86)	28–2196 (409, 547)
							$p = 0.005$ $p = 0.937$ (CTC = 0) $p = 0.3$ (1 ≤ CTC < 5) $p = 0.806$ (> 5 CTC)
CTC	ACCEPT	-	1–4 (1.92, 0.96)	5–1046 (77, 150)	-	1–4 (2.37, 1.02)	2–252 (45.82, 56.03)
CTC	ACCEPT corrected	-	1–4 (1.92, 0.95)	5–851 (107, 178)	-	1–4 (1.93, 0.92)	5–229 (37.93, 48.93)
							$p = 0.013$ $p = 0.888$ 1 ≤ CTC < 5 $p = 0.146$ (> 5 CTC)

**Table S3.** CTC subclasses (%) in CNPC and CRPC patients. .

CNPC ( <i>n</i> = 104)			CRPC ( <i>n</i> = 66)		
		1 ≤ CTC < 5	CTC ≥ 5	1 ≤ CTC < 5	CTC ≥ 5
		% of CTC Range, mean, SD	% of CTC Range, mean, SD	% of CTC Range, mean, SD	% of CTC Range, mean, SD
CTC clusters		3.84% 0–1 (0.07, 0.26)	3.97% 0–49 (4.27, 10.09)	0	6.01% 0–8 (2.28, 2.34)
Pretty CTCs		9.61%	24.95%	9.67%	27.34%
					$p = 0.006$
					$p = 0.069$

	0–1 (0.18, 0.39)	0–201 (26.82, 48.89)	0–1 (0.18, 0.40)	0–89 (10.37, 21.84)	
Heterogenous CTC	61.53% 0–3 (1.18, 0.96)	47.22% 3–598 (50.75, 111)	67.74% 0–4 (1.31, 1.3)	40.60% 3–45 (15.40, 11.89)	$p = 0.041$
Cleaved CK	15.38% 0–2 (0.29, 0.54)	14.95% 0–160 (16.06, 34.56)	6.45% 0–1 (0.12, 0.34)	15.81% 0–60 (6, 12.81)	$p = 0.052$
Fragmented DNA/CK	1.92% 0–1 (0.03, 0.19)	1.99% 0–15 (2.14, 3.8.4)	3.22% 0–1 (0.06, 0.25)	3.29% 0–13 (1.25, 2.98)	$p = 0.349$
Cleaved CK + Fragmented DNA	7.69% 0–1 (0.14, 0.36)	6.89% 0–71 (7.41, 14.48)	12.90% 0–1 (0.25, 0.44)	6.91% 0–20 (2.62, 4.72)	$p = 0.357$