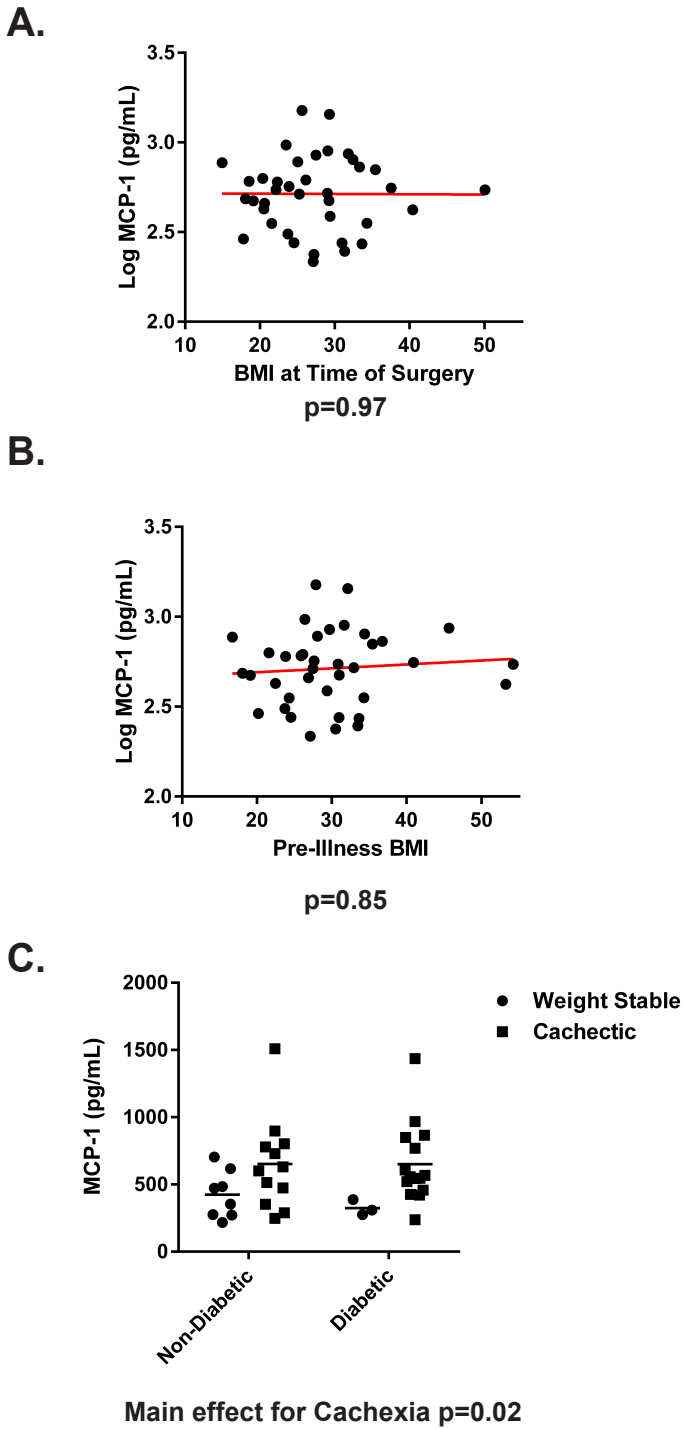


**Figure S1. Soluble Factors Analyzed as Continuous Variables in Resected Patients.** Differences between weight stable and cachectic patients were assessed using a Student's t-test on log-transformed values to eliminate skew. N=56 patients with resected pancreatic cancer. Solid line indicates mean. \* indicates  $p < 0.05$



**Figure S2. Additional Information Pertaining to MCP-1 as a Biomarker for Pancreatic Cancer-induced Cachexia.** MCP-1 levels measured by ELISA do not associate with (A) BMI at the time of surgery or (B) pre-illness BMI. (C) Diabetes does not have an effect on the elevation of MCP-1 in cachectic pancreatic cancer patients. N=38 successfully resected, treatment-naive patients. Solid line indicates mean.

**Supplementary Table 1. Complete Table of Analyzed Soluble Factors**

<b>Soluble Factor</b>	<b>LLOQ (pg/mL)</b>	<b>% Above LLOQ</b>	<b>% Above Lowest Standard</b>
IFN- $\gamma$	11	0.00	
M-CSF	28	0.00	
PDGF-BB	7.57	5.71	
IL-4	11	7.14	
IL-1 $\beta$	2.09	8.57	
IL-17A	2.27	10.00	
IL-6	11	10.00	
LIF	5.35	11.43	
G-CSF	7.76	14.29	
RANKL	14	14.29	
IL-15	4.79	15.71	
TGF $\alpha$	4.1	20.00	
IL-10	2.49	22.86	
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IL-8	2.71	30.00	30.00
FGF-2	3.03	38.57	55.71
MMP-13	4.93	34.29	65.71
TRAIL	8.57	61.43	71.43
<hr/>			
TNF	6.98	28.57	78.57
GM-CSF	18	65.71	85.71
HGF	8.79	84.29	90.00
CD40L	40	28.57	98.57
Leptin	44	100.00	100
MCP-1	1.29	100.00	100
SDF-1 $\alpha$	18	100.00	100
VEGF-A	5.62	100.00	100

**Supplementary Table 2. Soluble Factors Analyzed as Categorical Variables (Resected Patients)**

<b>Proportion of Patients Reaching Lowest Standard (%)</b>			
<b>Soluble Factor</b>	<b>Weight Stable</b>	<b>Cachectic</b>	<b>Fisher's Exact Test</b>
TRAIL	17/19 (89)	26/37 (70)	p=0.18
MMP-13	11/19 (58)	27/37 (73)	p=0.54
FGF-2	10/19 (53)	26/37 (70)	p=0.54
IL-8	4/19 (21)	14/37 (38)	p=0.24

**Supplementary Table 3. Soluble Factors in Resected Chemotherapy Naïve Patients**

<b>Soluble Factor</b>	<b>Mean Plasma Concentration +/- SEM</b>		<b>Student's t-test</b>
	<b>Weight Stable</b>	<b>Cachectic</b>	
HGF	746.3 ± 447.1	456.0 ± 89.30	p=0.45
sCD40L	605.0 ± 103.9	503.4 ± 61.65	p=0.35
SDF-1 $\alpha$	388.0 ± 65.19	384.4 ± 82.39	p=0.51
TNF	11.55 ± 1.148	13.41 ± 1.915	p=0.97
VEGF-A	356.7 ± 59.49	289.3 ± 42.37	p=0.25

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<b>Proportion of Patients Reaching Lowest Standard (%)</b>			
<b>Soluble Factor</b>	<b>Weight Stable</b>	<b>Cachectic</b>	<b>Fisher's Exact Test</b>
TRAIL	9/11 (82)	19/27 (70)	p=0.69
MMP-13	6/11 (55)	19/27 (70)	p=0.46
FGF-2	7/11 (64)	19/27 (70)	p=0.71
IL-8	4/11 (36)	12/27 (44)	p=0.73

**Supplementary Table 4. High-sensitivity Bioplex In Resected, Chemotherapy-naïve patients  
Mean Plasma Concentration +/- SEM**

<b>Soluble Factor</b>	<b>LLOQ (pg/mL)</b>	<b>Weight Stable</b>	<b>Cachectic</b>	<b>Student's t-test</b>
IL-4	4.4	15.68 ± 8.881	7.826 ± 1.599	p=0.56
IL-6	1	11.78 ± 8.565	26.28 ± 11.45	p=0.36
IL-10	0.2	2.580 ± 0.9599	5.837 ± 2.226	p=0.18
TNF	2.7	3.377 ± 1.293	2.833 ± 0.5346	p=0.92

**Proportion of Patients Reaching Lowest Standard (%)**

<b>Soluble Factor</b>	<b>LLOQ (pg/mL)</b>	<b>Weight Stable</b>	<b>Cachectic</b>	<b>Fisher's Exact Test</b>
IL-1β	0.2	3/11 (27)	12/27 (44)	p=0.47
IL-2	0.4	6/11 (55)	15/27 (56)	p=1.00
IL-12p70	2.6	4/11 (36)	13/27 (48)	p=0.72
IL-17α	0.9	6/11 (55)	16/27 (59)	p=1.00
IFN-γ	1	2/11 (18)	10/27 (37)	p=0.44