

## Appendix 1. Coding of Procedures, Treatments, and Complications Analyzed

	CPT	ICD9
<b>Procedures</b>		
Oophorectomy and/or hysterectomy and/or cytoreduction	49203, 49204, 49205, 58150, 58152, 58180, 58200, 58210, 58240, 58260, 58262, 58263, 58267, 58270, 58275, 58280, 58285, 58290, 58291, 58292, 58293, 58294, 56303, 56307, 56308, 58541, 58542, 58543, 58544, 58548, 58550, 58552, 58553, 58554, 58570, 58571, 58572, 58573, 58661, 58720, 58920, 58925, 58940, 58943, 58950, 58951, 58952, 58953, 58954, 58956, 58957, 58958, 58960, 58594	65.22, 65.24, 65.25, 65.29, 65.3, 65.31, 65.39, 65.4, 65.41, 65.49, 65.5, 65.51, 65.52, 65.53, 65.6, 65.61, 65.62, 65.63, 65.64, 68.3, 68.31, 68.39, 68.4, 68.41, 68.49, 68.5, 68.51, 68.59, 68.6, 68.61, 68.69, 68.7, 68.71, 68.79, 68.8, 68.9, 70.32
<b>Chemotherapy</b>		
Intraperitoneal chemotherapy	96445, 96446	54.97
<b>Toxicity</b>		
<i>Electrolyte disorders</i>		
Hyponatremia		276.1
Hypokalemia		276.8
Electrolyte disorder NOS		276.9
Infusion of electrolytes		99.18
Dehydration/hypovolemia		276.5, 276.50, 276.51, 276.52
Hypomagnesemia		275.2
<i>Constitutional Symptoms</i>		
Malaise/fatigue/failure to thrive		780.79, 783.41,
Syncope		780.2
Dizziness		780.4
Dysequilibrium		
Adverse effects of systemic treatment		E933.1
Complications of treatment		

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Signs or symptoms with or without chief complaint	
<i>Gastrointestinal Disorders</i>	
Nausea and emesis	787, 787.0, 787.01, 787.02, 787.03, 536.2, 578.0
Diarrhea	009.2, 009.3, 564.5, 787.91
Constipation	564.0, 564.00, 564.01, 564.02, 564.09
Gastroenteritis/enteritis	009.0, 009.1, 558, 558.2, 558.9
<i>Malnutrition</i>	
Failure to thrive	783.7
Abnormal weight loss/underweight	783.2, 783.21, 783.22
Cachexia/Anorexia	799.4, 783.0
Malnutrition	263, 263.0, 263.1, 263.8, 263.9
Parenteral nutrition/TPN/PPN	99.15
Nutritional/metabolic disorder	
<i>Anemia and Red Cell Transfusion</i>	
Iron Deficiency anemia	280, 280.0, 280.1, 280.8, 280.9
Other deficiency anemia	281, 281.0, 281.1, 281.2, 281.3, 281.4, 281.8, 281.9
Aplastic anemia	284, 284.1 284.2, 284.8, 284.81, 284.89,
Other and unspecified anemia	285, 285.0, 285.1, 285.2, 285.21, 285.22, 285.29, 285.8, 285.9
Transfusion Anemia	V58.2, 99.03, 99.04
<i>Neutropenia</i>	
Neutropenia and white blood cell disorders	288.0 288.00, 288.03, 288.09, 288.8 288.9
<i>Thrombocytopenia</i>	
Thrombocytopenia	287.4, 287.5
Platelet transfusion	99.05
<i>Venous Thromboembolism</i>	
DVT	453.4, 453.40, 453.41, 453.42, 453.89, 453.9, 453.8
PE	415.1, 415.11, 415.12, 415.13 415.19, v12.51
Thrombophlebitis-deep veins	451.1, 451.11, 451.19, 451.2, 451.8, 451.81, 451.83, 451.84, 451.89, 451.9

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*Infection*

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Bacteremia/sepsis	0.38.x, 790.7
Pneumonia	480.x, 481.x, 482.x, 483.x, 485, 486, 478. 997.31
Shock	785.50, 785.51, 785.59, 458.0, 458.9, 958.4
Abscess	566, 567.22, 567.31, 567.38, 569.5, 682.9, 998.59
Urinary tract infection/pyelonephritis	590.x, 590.8x, 590.9, 595.0, 595.4, 595.889, 595.9, 599.0
Bronchitis	490
Influenza	487, 487.0, 487.1, 487.8
Cellulitis	681.x, 682.x
Empyema	510, 510.0, 510.9
Lung abscess	513, 513.0, 513.1
Fever	780.6

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## Appendix 2. Number of Infusions of Intraperitoneally Administered Chemotherapy

Intraperitoneal infusions	N	(%)
1	111	(12.9)
2	76	(8.9)
3	57	(6.6)
4	82	(9.6)
5	85	(9.9)
6	94	(10.9)
7	37	(4.3)
8	47	(5.5)
9	39	(4.5)
10	67	(7.8)
11	55	(6.4)
12	100	(11.6)
13	5	(0.6)
14	2	(0.2)
15	1	(0.1)
16	1	(0.1)

Each infusion represents a single drug administration; for commonly used IP regimens, 1 cycle of IP chemotherapy includes 2 infusions of intraperitoneal chemotherapy (1 each of cisplatin and paclitaxel).

### Appendix 3. Distribution of Individual Complications Stratified by Type of Chemotherapy Received

	Standard		Intraperitoneal		Dose Dense		<i>P</i> -value
	N	%	N	%	N	%	
<i>Individual complications</i>							
<i>Electrolyte disorders</i>	478	(11.6)	195	(22.7)	116	(12.9)	<0.001
Hyponatremia	104	(2.5)	36	(4.2)	26	(2.9)	0.03
Hypokalemia	189	(4.6)	101	(11.8)	52	(5.8)	<0.001
Electrolyte disorder NOS	16	(0.4)	9	(1.1)	6	(0.7)	0.04
Infusion of electrolytes	10	(0.2)	7	(0.8)	1	(0.1)	0.01
Dehydration/hypovolemia	293	(7.1)	119	(13.9)	67	(7.5)	<0.001
Hypomagnesemia	75	(1.8)	59	(6.9)	30	(3.3)	<0.001
<i>Constitutional symptoms</i>	349	(8.4)	100	(11.6)	79	(8.8)	0.01
Malaise/fatigue/failure to thrive	155	(3.8)	41	(4.8)	40	(4.5)	0.29
Syncope	115	(2.8)	45	(5.2)	23	(2.6)	<0.001
Dizziness	72	(1.7)	17	(2.0)	13	(1.5)	0.69
Dysequilibrium	3	(0.1)	0	(0.0)	0	(0.0)	0.53
Adverse effects of systemic treatment	29	(0.7)	11	(1.3)	8	(0.9)	0.22
Complications of treatment	32	(0.8)	7	(0.8)	6	(0.7)	0.93
Signs or symptoms with or without chief complaint	13	(0.3)	4	(0.5)	2	(0.2)	0.66
<i>Gastrointestinal disorders</i>	548	(13.3)	212	(24.7)	123	(13.7)	<0.001
Nausea & emesis	381	(9.2)	160	(18.6)	82	(9.1)	<0.001
Diarrhea	135	(3.3)	51	(5.9)	23	(2.6)	<0.001
Constipation	152	(3.7)	50	(5.8)	35	(3.9)	0.01
Gastroenteritis/enteritis	53	(1.3)	9	(1.1)	14	(1.6)	0.63
<i>Malnutrition</i>	180	(4.4)	56	(6.5)	53	(5.9)	0.01
Failure to thrive	16	(0.4)	3	(0.4)	4	(0.5)	0.95

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Abnormal weight loss/underweight	11	(0.3)	2	(0.2)	1	(0.1)	0.69
Cachexia/Anorexia	25	(0.6)	6	(0.7)	6	(0.7)	0.94
Malnutrition	67	(1.6)	15	(1.8)	27	(3.0)	0.02
Parenteral nutrition/TPN/PPN	52	(1.3)	8	(0.9)	18	(2.0)	0.11
Nutritional/metabolic disorder	61	(1.5)	30	(3.5)	13	(1.5)	<0.001
<i>Anemia &amp; red cell transfusion</i>	448	(10.8)	133	(15.5)	126	(14.0)	<0.001
Iron Deficiency anemia	33	(0.8)	8	(0.9)	8	(0.9)	0.91
Other deficiency anemia	11	(0.3)	2	(0.2)	4	(0.5)	0.63
Aplastic anemia	41	(1.0)	5	(0.6)	5	(0.6)	0.28
Other & unspecified anemia	336	(8.1)	97	(11.3)	96	(10.7)	0.002
Transfusion	199	(4.8)	65	(7.6)	58	(6.5)	0.002
<i>Neutropenia</i>	205	(5.0)	67	(7.8)	43	(4.8)	0.002
<i>Thrombocytopenia</i>	82	(2.0)	18	(2.1)	16	(1.8)	0.89
Thrombocytopenia	75	(1.8)	15	(1.8)	15	(1.7)	0.95
Platelet transfusion	18	(0.4)	3	(0.4)	5	(0.6)	0.80
<i>Venous thromboembolism</i>	208	(5.0)	72	(8.4)	51	(5.7)	<0.001
Deep vein thrombosis	108	(2.6)	31	(3.6)	29	(3.2)	0.21
Pulmonary embolism	131	(3.2)	50	(5.8)	30	(3.3)	<0.001
Thrombophlebitis-deep veins	24	(0.6)	9	(1.1)	5	(0.6)	0.28
<i>Infection</i>	636	(15.4)	162	(18.9)	138	(15.4)	0.04
Bacteremia/sepsis	132	(3.2)	36	(4.2)	30	(3.3)	0.34
Pneumonia	93	(2.3)	20	(2.3)	25	(2.8)	0.63
Shock	84	(2.0)	24	(2.8)	19	(2.1)	0.37
Abscess	231	(5.6)	46	(5.4)	40	(4.5)	0.39
Urinary tract infection/pyelonephritis	254	(6.1)	65	(7.6)	57	(6.4)	0.30
Bronchitis	11	(0.3)	3	(0.4)	3	(0.3)	0.88

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Influenza	7	(0.2)	1	(0.1)	1	(0.1)	0.88
Cellulitis	159	(3.9)	35	(4.1)	24	(2.7)	0.20
Empyema	4	(0.1)	1	(0.1)	1	(0.1)	0.98
Lung abscess	1	(0.0)	0	(0.0)	0	(0.0)	0.81
Fever	12	(0.3)	2	(0.2)	4	(0.5)	0.68

Outcomes were compared using  $\chi^2$  tests.