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Pro Bill Analysis

– Historical Analysis of Billed Charges –

Patient Name: Daenerys Targaryen

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Date: March 12, 2025

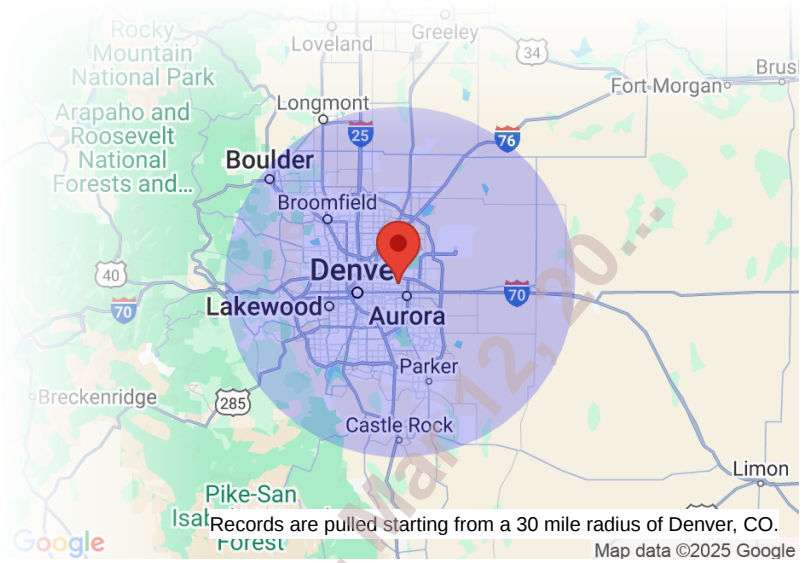
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Daenerys Targaryen

This report analyzes the patient's medical treatment from 08/17/2019 to 12/14/2020 and arrives at the reasonable value for the services in their area. In the development of this report, a total of 1,762,658 historical records of providers performing similar procedures were identified. For information on data sources and methodologies, please reference the appendices.



Bill Analysis Summary:

Denver, CO Providers	Total Billed Charges	Not Analyzed ¹	Analyzed Charges	Reasonable Value
Anesthesiology Specialists: Ros Me, MD	\$ 6,500.00	\$ -	\$ 6,500.00	\$ 7,220
Associates of Radiology	86.00	-	86.00	95
Casterly Rock Pain Management: Jon Snow, DO	2,500.00	-	2,500.00	1,331
Casterly Rock Pain Management: Khal Drogo, MD	3,525.00	-	3,525.00	3,795
Diversified Radiology of Dragonstone	370.00	-	370.00	936
Dorne Imaging Center	2,680.00	-	2,680.00	3,327
Dragonstone Medical Center	35,901.46	1.26	35,900.20	31,002
Emergency Medicine Specialists: Ed Stark, MD	1,058.00	-	1,058.00	1,152
Emergency Medicine Specialists: Sansa Stark, MD	1,091.00	-	1,091.00	1,438
King's Landing Physical Therapy	7,654.00	-	7,654.00	10,872
Riverrun Medical Center	8,454.24	212.85	8,241.39	7,142
Stepstones Orthopedic: Marg Tyrell, MD	21,550.00	-	21,550.00	23,092
Stepstones Orthopedic: Nymeria Sand, PA-C	10,000.00	-	10,000.00	12,175
Stepstones Orthopedic: Radiology	252.00	-	252.00	238
Surgery Center at Sunspear	10,020.00	-	10,020.00	15,014
Valyria Back Pain Providers: El Sand, PT	2,256.00	-	2,256.00	1,532
Winterfell Hospital 1/2/20 - 1/14/20	276,058.76	-	276,058.76	314,810
	\$ 389,956.46	\$ 214.11	\$ 389,742.35	\$ 435,171

¹ Not analyzed due to insufficient information

Patient Name: Daenerys Targaryen
 Location: Denver, CO
 Treatment Range: 08/17/19 - 12/14/20

Itemized Bill Charges

This section lists the bills that Daenerys Targaryen incurred for the treatment of her injuries. Each bill details the specific procedures and their reasonable value in the patient's area.

Provider	Date	Code	Units	Description	Reasonable Value
#1	Anesthesiology Specialists: Ros Me, MD				
	01/02/20 - 01/02/20				
	01/02/20	zzz	1	Anesthesia for extensive spine and spinal cord procedures (eg, spinal instrumentation or vascular procedures)	\$ 7,220
	Total Bill				\$ 7,220
#2	Associates of Radiology				
	03/16/20 - 03/16/20				
	03/16/20	zzz	1	Radiologic examination, wrist; complete, minimum of 3 views	\$ 47
	03/16/20	zzz	1	Radiologic examination, ankle; complete, minimum of 3 views	48
Total Bill				\$ 95	
#3	Casterly Rock Pain Management: Jon Snow, DO				
	07/14/20 - 07/14/20				
	07/14/20	zzz	1	Injection(s), anesthetic agent and/or steroid, transforaminal epidural, with imaging guidance (fluoroscopy or CT); lumbar or sacral, single level	\$ 1,331
Total Bill				\$ 1,331	

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Casterly Rock Pain Management: Khal Drogo, MD

08/19/19 - 12/14/20

**Provider
#4**

<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
08/19/19	zzz	1	New Patient Evaluation - Level 5	\$ 763
09/16/19	zzz	1	Established Patient Evaluation - Level 3	275
09/30/19	zzz	1	Established Patient Evaluation - Level 3	275
10/31/19	zzz	1	Established Patient Evaluation - Level 3	275
12/04/19	zzz	1	Established Patient Evaluation - Level 3	275
02/12/20	zzz	1	Established Patient Evaluation - Level 3	276
03/31/20	zzz	1	Established Patient Evaluation - Level 3	276
05/15/20	zzz	1	Established Patient Evaluation - Level 3	276
06/23/20	zzz	1	Established Patient Evaluation - Level 3	276
07/21/20	zzz	1	Established Patient Evaluation - Level 3	276
09/04/20	zzz	1	Established Patient Evaluation - Level 3	276
12/14/20	zzz	1	Established Patient Evaluation - Level 3	276
Total Bill				\$ 3,795

Diversified Radiology of Dragonstone

08/17/19 - 08/17/19

**Provider
#5**

<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
08/17/19	zzz	1	Computed tomography, head or brain; without contrast material	\$ 196
08/17/19	zzz	1	Computed tomography, cervical spine; without contrast material	264
08/17/19	zzz	1	Computed tomography, thoracic spine; without contrast material	238
08/17/19	zzz	1	Computed tomography, lumbar spine; without contrast material	238
Total Bill				\$ 936

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Provider #6		Dorne Imaging Center 09/24/19 - 09/24/19			
<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>	
09/24/19	zzz	1	Magnetic resonance (eg, proton) imaging, spinal canal and contents, lumbar; without contrast material	\$ 1,585	
09/24/19	zzz	1	Magnetic resonance (eg, proton) imaging, any joint of lower extremity; without contrast material	1,742	
Total Bill				\$ 3,327	

Provider #7		Dragonstone Medical Center 08/17/19 - 08/17/19			
<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>	
08/17/19	zzz	1	Computed tomography, head or brain; without contrast material	\$ 4,525	
08/17/19	zzz	1	Computed tomography, cervical spine; without contrast material	6,088	
08/17/19	zzz	1	Computed tomography, thoracic spine; without contrast material	6,887	
08/17/19	zzz	1	Computed tomography, lumbar spine; without contrast material	6,575	
08/17/19	zzz	1	Emergency department visit for the evaluation and management of a patient, which requires a medically appropriate history and/or examination and moderate level of medical decision making	6,927	
Total Bill				\$ 31,002	

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 Location: Denver, CO
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Emergency Medicine Specialists: Ed Stark, MD					
03/16/20 - 03/16/20					
	<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
Provider #8	03/16/20	zzz	1	Application of short leg splint (calf to foot)	\$ 168
	03/16/20	zzz	1	Emergency department visit for the evaluation and management of a patient, which requires a medically appropriate history and/or examination and moderate level of medical decision making	984
	Total Bill				\$ 1,152

Emergency Medicine Specialists: Sansa Stark, MD					
08/17/19 - 08/17/19					
	<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
Provider #9	08/17/19	zzz	1	Emergency department visit, problem with significant threat to life or function	\$ 1,438
Total Bill				\$ 1,438	

King's Landing Physical Therapy					
01/17/20 - 09/28/20					
	<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
Provider #10	01/17/20	zzz	2	Therapeutic procedure, 1 or more areas, each 15 minutes; neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities	\$ 140
	01/20/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	286

Patient Name: Daenerys Targaryen
 Location: Denver, CO
 Treatment Range: 08/17/19 - 12/14/20

King's Landing Physical Therapy (Cont.)

**Provider
#10**

<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
01/25/20	zzz	3	Therapeutic procedure, 1 or more areas, each 15 minutes; neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities	210
01/28/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities	280
01/30/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	286
02/10/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	286
02/15/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	286
02/23/20	zzz	2	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	143
03/01/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	286

Patient Name: Daenerys Targaryen
 Location: Denver, CO
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King's Landing Physical Therapy (Cont.)

<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
03/07/20	zzz	2	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	143
03/13/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities	280
03/21/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	286
03/28/20	zzz	3	Therapeutic procedure, 1 or more areas, each 15 minutes; neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities	210
03/30/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	286
04/05/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	286
04/12/20	zzz	2	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	143

**Provider
#10**

Patient Name: Daenerys Targaryen
 Location: Denver, CO
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King's Landing Physical Therapy (Cont.)

**Provider
#10**

<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
04/25/20	zzz	2	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	143
04/29/20	zzz	2	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	143
05/02/20	zzz	2	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	143
05/09/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	286
05/14/20	zzz	3	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	215
05/21/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities	280
05/29/20	zzz	2	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	143

Patient Name: Daenerys Targaryen
 Location: Denver, CO
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King's Landing Physical Therapy (Cont.)

<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
05/29/20	zzz	2	Therapeutic procedure, 1 or more areas, each 15 minutes; neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities	140
06/02/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	286
06/07/20	zzz	3	Therapeutic procedure, 1 or more areas, each 15 minutes; neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities	210
06/08/20	zzz	2	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	143
06/10/20	zzz	1	Therapeutic procedure, 1 or more areas, each 15 minutes; neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities	70
06/16/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	286

**Provider
#10**

Daenerys Targaryen - Mar 12, 20...

Patient Name: Daenerys Targaryen
 Location: Denver, CO
 Treatment Range: 08/17/19 - 12/14/20

King's Landing Physical Therapy (Cont.)

<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
06/19/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities	280
06/21/20	zzz	2	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	143
06/24/20	zzz	3	Therapeutic procedure, 1 or more areas, each 15 minutes; neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities	210
06/27/20	zzz	2	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	143
06/30/20	zzz	3	Therapeutic procedure, 1 or more areas, each 15 minutes; neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities	210
07/06/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	286

**Provider
#10**

Daenerys Targaryen - Mar 12, 20...

Patient Name: Daenerys Targaryen
 Location: Denver, CO
 Treatment Range: 08/17/19 - 12/14/20

King's Landing Physical Therapy (Cont.)

<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
07/07/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities	280
07/13/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	286
07/14/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities	280
07/23/20	zzz	3	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	215
07/24/20	zzz	3	Therapeutic procedure, 1 or more areas, each 15 minutes; neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities	210
07/27/20	zzz	3	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	215
08/04/20	zzz	3	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	215

**Provider
#10**

Patient Name: Daenerys Targaryen
 Location: Denver, CO
 Treatment Range: 08/17/19 - 12/14/20

King's Landing Physical Therapy (Cont.)

**Provider
#10**

<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
08/10/20	zzz	3	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	215
08/17/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	286
08/27/20	zzz	2	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	143
08/31/20	zzz	3	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	215
09/14/20	zzz	2	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	143
09/22/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	286
09/28/20	zzz	4	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	286
Total Bill				\$ 10,872

Patient Name: Daenerys Targaryen
 Location: Denver, CO
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Riverrun Medical Center					
03/16/20 - 03/16/20					
	<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
Provider #11	03/16/20	zzz	1	Application of short leg splint (calf to foot)	\$ 546
	03/16/20	zzz	1	Radiologic examination, wrist; complete, minimum of 3 views	1,032
	03/16/20	zzz	1	Radiologic examination, ankle; complete, minimum of 3 views	1,124
	03/16/20	zzz	1	Emergency department visit for the evaluation and management of a patient, which requires a medically appropriate history and/or examination and low level of medical decision making	4,355
	03/16/20	zzz	1	Injection, ketorolac tromethamine, per 15 mg	85
				Total Bill	\$ 7,142

Stepstones Orthopedic: Marg Tyrell, MD					
11/10/19 - 01/02/20					
	<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
Provider #12	11/10/19	zzz	1	Established Patient Evaluation - Level 3	\$ 204
	12/16/19	zzz	1	Established Patient Evaluation - Level 3	204
	12/29/19	zzz	1	Established Patient Evaluation - Level 3	204
	01/02/20	zzz	1	Autograft for spine surgery only (includes harvesting the graft); morselized (through separate skin or fascial incision) (List separately in addition to code for primary procedure)	1,300

Patient Name: Daenerys Targaryen
 Location: Denver, CO
 Treatment Range: 08/17/19 - 12/14/20

Stepstones Orthopedic: Marg Tyrell, MD (Cont.)

	<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
Provider #12	01/02/20	zzz	1	Arthrodesis, posterior interbody technique, including laminectomy and/or discectomy to prepare interspace (other than for decompression), single interspace; lumbar	8,041
	01/02/20	zzz	2	Arthrodesis, posterior interbody technique, including laminectomy and/or discectomy to prepare interspace (other than for decompression), single interspace; each additional interspace	4,790
	01/02/20	zzz	1	Posterior segmental instrumentation (eg, pedicle fixation, dual rods with multiple hooks and sublaminar wires); 3 to 6 vertebral segments (List separately in addition to code for primary procedure)	4,528
	01/02/20	zzz	3	Insertion of interbody biomechanical device(s) (eg, synthetic cage, mesh) with integral anterior instrumentation for device anchoring (eg, screws, flanges), when performed, to intervertebral disc space in conjunction with interbody arthrodesis, each interspace (List separately in addition to code for primary procedure)	3,821
	Total Bill				\$ 23,092

Stepstones Orthopedic: Nymeria Sand, PA-C

01/02/20 - 01/02/20

	<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
Provider #13	01/02/20	zzz	1	Arthrodesis, posterior interbody technique, including laminectomy and/or discectomy to prepare interspace (other than for decompression), single interspace; lumbar	\$ 4,863

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Stepstones Orthopedic: Nymeria Sand, PA-C (Cont.)

**Provider
#13**

<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
01/02/20	zzz	2	Arthrodesis, posterior interbody technique, including laminectomy and/or discectomy to prepare interspace (other than for decompression), single interspace; each additional interspace	2,201
01/02/20	zzz	1	Posterior segmental instrumentation (eg, pedicle fixation, dual rods with multiple hooks and sublaminar wires); 3 to 6 vertebral segments (List separately in addition to code for primary procedure)	2,334
01/02/20	zzz	3	Insertion of interbody biomechanical device(s) (eg, synthetic cage, mesh) with integral anterior instrumentation for device anchoring (eg, screws, flanges), when performed, to intervertebral disc space in conjunction with interbody arthrodesis, each interspace (List separately in addition to code for primary procedure)	2,777
Total Bill				\$ 12,175

Stepstones Orthopedic: Radiology

11/24/19 - 11/24/19

**Provider
#14**

<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
11/24/19	zzz	1	Radiologic examination, spine, lumbosacral; complete, including bending views, minimum of 6 views	\$ 238
Total Bill				\$ 238

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Surgery Center at Sunspear					
07/14/20 - 07/14/20					
	<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
Provider #15	07/14/20	zzz	1	Injection(s), anesthetic agent and/or steroid, transforaminal epidural, with imaging guidance (fluoroscopy or CT); lumbar or sacral, single level	\$ 7,507
	07/14/20	zzz	1	Injection(s), anesthetic agent and/or steroid, transforaminal epidural, with imaging guidance (fluoroscopy or CT); lumbar or sacral, single level	7,507
Total Bill					\$ 15,014

Valyria Back Pain Providers: El Sand, PT					
06/17/20 - 08/05/20					
	<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
Provider #16	06/17/20	zzz	1	Manual therapy techniques (eg, mobilization/ manipulation, manual lymphatic drainage, manual traction), 1 or more regions, each 15 minutes	\$ 70
	06/17/20	zzz	1	Physical therapy evaluation: high complexity	150
	06/21/20	zzz	1	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	72
	06/21/20	zzz	2	Manual therapy techniques (eg, mobilization/ manipulation, manual lymphatic drainage, manual traction), 1 or more regions, each 15 minutes	140

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Valyria Back Pain Providers: El Sand, PT (Cont.)

**Provider
#16**

<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
06/28/20	zzz	1	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	72
06/28/20	zzz	2	Manual therapy techniques (eg, mobilization/ manipulation, manual lymphatic drainage, manual traction), 1 or more regions, each 15 minutes	140
07/08/20	zzz	3	Manual therapy techniques (eg, mobilization/ manipulation, manual lymphatic drainage, manual traction), 1 or more regions, each 15 minutes	210
07/12/20	zzz	3	Manual therapy techniques (eg, mobilization/ manipulation, manual lymphatic drainage, manual traction), 1 or more regions, each 15 minutes	210
07/20/20	zzz	1	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	72
07/20/20	zzz	1	Manual therapy techniques (eg, mobilization/ manipulation, manual lymphatic drainage, manual traction), 1 or more regions, each 15 minutes	70
07/20/20	zzz	1	Re-evaluation of physical therapy established plan of care	113
08/05/20	zzz	2	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	143

Patient Name: Daenerys Targaryen
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Valyria Back Pain Providers: El Sand, PT (Cont.)					
Provider #16	<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
	08/05/20	zzz	1	Manual therapy techniques (eg, mobilization/ manipulation, manual lymphatic drainage, manual traction), 1 or more regions, each 15 minutes	70
Total Bill					\$ 1,532

Winterfell Hospital 1/2/20 - 1/14/20					
<i>01/02/20 - 01/14/20</i>					
Provider #17	<u>Date</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>	<u>Reasonable Value</u>
	01/14/20	zzz	1	Spinal fusion except cervical w/o mcc	\$ 314,810
Procedure Codes: 0SG10AJ					
Total Bill					\$ 314,810

Daenerys Targaryen - SAMPLE - Mar 12, 20...

Patient Name: Daenerys Targaryen
Location: Denver, CO
Treatment Range: 08/17/19 - 12/14/20

The following procedures were excluded from the report due to insufficient data:

<u>Bill Title</u>	<u>Code</u>	<u>Units</u>	<u>Description</u>
Dragonstone Medical Center	zzz	1	Self-Administrable Drug
Riverrun Medical Center	zzz	3	Pharmacy

Daenerys Targaryen - SAMPLE - Mar 12, 20...

Patient Name: Daenerys Targaryen
Location: Denver, CO
Treatment Range: 08/17/19 - 12/14/20

Appendix A – References & Data Sources

Current Procedural Terminology (CPT)

"CPT" is a registered trademark of the American Medical Association. CPT codes and descriptions are copyrighted by the American Medical Association and used herein for explanatory purposes only.

Professional, Device and Center Data

The data contained in this report related to professional providers, durable medical equipment, ambulatory surgery centers, and diagnostic testing facilities is based on providers' fee schedules; representing the full billed charges for specific services.

The report also leverages the American Medical Association's CPT® codebook, Optum360's National Fee Analyzer, the American Society of Anesthesiologists ("ASA") Crosswalk book, EncoderPro, and www.findacode.com.

Hospital & Emergency Department Data

The data contained in this report related to hospitals is sourced from the Nationwide Inpatient Sample of the Healthcare Cost and Utilization Project (the "HCUP NIS") and the Nationwide Emergency Department Sample (the "HCUP NEDS"), which are sponsored by the Agency for Healthcare Research and Quality (an Agency in the US Department of Health and Human Services), bills already reviewed, or the American Hospital Directory.

HCUP databases contain information from a sample of approximately 20% of all inpatient discharges from HCUP-participating hospitals. The information contained in the database includes, among other data elements, primary and secondary diagnosis codes, procedural ("PCS") codes, Diagnosis Related Group ("DRG") codes, and total hospital charges for each patient.

Additional information on HCUP's data and methodologies can be found here:

<https://www.hcup-us.ahrq.gov/nisoverview.jsp>, <https://www.hcup-us.ahrq.gov/nedsoverview.jsp>

Information on HCUP's data partners that contributed to the database can be found here:

<http://www.hcup-us.ahrq.gov/db/hcupdatapartners.jsp>

Information on the American Hospital Directory can be found here: www.ahd.com

Inflation Data

When necessary, the billed charges in the databases are inflated to represent present day costs or, for historical analyses, the year the service occurred. These inflation rates are sourced from the Bureau of Labor Statistics' ("BLS") monthly CPI Reports for Medical Care.

Professional providers' billed charges are inflated according to BLS' Medical Care: Professional Services rates. Facilities' billed charges are inflated according Medical Care: Hospital and Related Services rates.

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The following table summarizes these rates:

	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>
Facility	3.90%	4.50%	4.00%	4.30%	5.10%	3.70%	3.00%	3.00%	3.30%	4.40%	5.50%	3.50%
Professional	2.10%	1.70%	1.90%	3.10%	-1.80%	0.60%	1.40%	1.70%	4.30%	1.70%	-0.60%	2.60%

Information on BLS' monthly reports can be found here: <https://www.bls.gov/cpi/tables/supplemental-files/home.htm>

Daenerys Targaryen - SAMPLE - Mar 12, 20...

Patient Name:	Daenerys Targaryen
Location:	Denver, CO
Treatment Range:	08/17/19 - 12/14/20

Appendix B - Methodologies

Overview

This report is built with the mission of providing transparency into the billed charges of treatment for a patient receiving care in a specific geographic region and at a specific point in time. This mission guides all decisions in assembling each report.

There are no independent assumptions or opinions on a patient's current state of health, diagnosis, or prognosis. This relies on notes provided by the patients' doctors and the codes on their medical bills for these assessments. There is no review of patients' financial or other resources available to obtain medical care. Reports only analyze billed charge amounts, representing the total charges of the procedures before any third-party contracted rates would apply.

Analysis

The reasonable value is set at the 80th percentile; a broadly accepted metric for determining usual, customary, and reasonable ("UCR") in the healthcare industry. Percentiles of billed charges for professional providers, durable medical equipment, ambulatory surgery centers, and diagnostic testing facilities are determined by searching historical databases for each occurrence of a HCPCS code billed by the same or similar provider the patient received treatment from (e.g. physical therapy from a physical therapist). The data is then filtered to include only providers within a preset radius around a designated location. If there are no occurrences of that code in the selected radius, the radius is enlarged for that code and noted in the report. In circumstances where a national sample is pulled, a geographic adjustment factor is applied to make the values geographically relevant. Percentiles are calculated using the resulting relevant data. Determining the value of hospital charges is done in a similar manner except the hospital database is filtered based on DRG codes and PCS codes instead of HCPCS codes.

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Appendix C – Supporting Code Detail

Bill #	Code	Description	Data Source	Radius (miles)	Total Patients	Value / Unit
1	zzz	Anesthesia for extensive spine and spinal cord procedures (eg, spinal instrumentation or vascular procedures)	Physician and Other Supplier, PUF 2020	30	710	\$ 7,220
2	zzz	Radiologic examination, wrist; complete, minimum of 3 views	Physician and Other Supplier, PUF 2020	30	3,136	\$ 47
2	zzz	Radiologic examination, ankle; complete, minimum of 3 views	Physician and Other Supplier, PUF 2020	30	3,282	\$ 48
3	zzz	Injection(s), anesthetic agent and/or steroid, transforaminal epidural, with imaging guidance (fluoroscopy or CT); lumbar or sacral, single level	Physician and Other Supplier, PUF 2020	30	3,624	\$ 1,331
4	zzz	New Patient Evaluation - Level 5	Physician and Other Supplier, PUF 2019	30	632	\$ 763
4	zzz	Established Patient Evaluation - Level 3	Physician and Other Supplier, PUF 2019	30	5,128	\$ 275
4	zzz	Established Patient Evaluation - Level 3	Physician and Other Supplier, PUF 2020	30	4,581	\$ 276
5	zzz	Computed tomography, head or brain; without contrast material	Physician and Other Supplier, PUF 2019	30	45,964	\$ 196
5	zzz	Computed tomography, cervical spine; without contrast material	Physician and Other Supplier, PUF 2019	30	12,724	\$ 264
5	zzz	Computed tomography, thoracic spine; without contrast material	Physician and Other Supplier, PUF 2019	30	1,163	\$ 238
5	zzz	Computed tomography, lumbar spine; without contrast material	Physician and Other Supplier, PUF 2019	30	3,328	\$ 238
6	zzz	Magnetic resonance (eg, proton) imaging, spinal canal and contents, lumbar; without contrast material	Physician and Other Supplier, PUF 2019	30	8,073	\$ 1,585
6	zzz	Magnetic resonance (eg, proton) imaging, any joint of lower extremity; without contrast material	Physician and Other Supplier, PUF 2019	30	5,563	\$ 1,742

Patient Name: Daenerys Targaryen
 Location: Denver, CO
 Treatment Range: 08/17/19 - 12/14/20

Bill #	Code	Description	Data Source	Radius (miles)	Total Patients	Value / Unit
7	zzz	Computed tomography, head or brain; without contrast material	American Hospital Directory - National Outpatient CPT Data 2019	30	13,315	\$ 4,525
7	zzz	Computed tomography, cervical spine; without contrast material	American Hospital Directory - National Outpatient CPT Data 2019	30	5,224	\$ 6,088
7	zzz	Computed tomography, thoracic spine; without contrast material	American Hospital Directory - National Outpatient CPT Data 2019	30	441	\$ 6,887
7	zzz	Computed tomography, lumbar spine; without contrast material	American Hospital Directory - National Outpatient CPT Data 2019	30	1,126	\$ 6,575
7	zzz	Emergency department visit for the evaluation and management of a patient, which requires a medically appropriate history and/or examination and moderate level of medical decision making	American Hospital Directory - National Outpatient CPT Data 2019	30	31,474	\$ 6,927
8	zzz	Application of short leg splint (calf to foot)	Physician and Other Supplier, PUF 2017	National w/ GAF	148	\$ 168
8	zzz	Emergency department visit for the evaluation and management of a patient, which requires a medically appropriate history and/or examination and moderate level of medical decision making	Physician and Other Supplier, PUF 2020	30	17,942	\$ 984
9	zzz	Emergency department visit, problem with significant threat to life or function	Physician and Other Supplier, PUF 2019	30	69,468	\$ 1,438
10	zzz	Therapeutic procedure, 1 or more areas, each 15 minutes; neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities	Physician and Other Supplier, PUF 2020	30	15,853	\$ 70
10	zzz	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	Physician and Other Supplier, PUF 2020	30	24,171	\$ 72

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Bill #	Code	Description	Data Source	Radius (miles)	Total Patients	Value / Unit
11	zzz	Application of short leg splint (calf to foot)	American Hospital Directory - National Outpatient CPT Data 2020	100	160	\$ 546
11	zzz	Radiologic examination, wrist; complete, minimum of 3 views	American Hospital Directory - National Outpatient CPT Data 2020	30	1,819	\$ 1,032
11	zzz	Radiologic examination, ankle; complete, minimum of 3 views	American Hospital Directory - National Outpatient CPT Data 2020	30	1,873	\$ 1,124
11	zzz	Emergency department visit for the evaluation and management of a patient, which requires a medically appropriate history and/or examination and low level of medical decision making	American Hospital Directory - National Outpatient CPT Data 2020	30	13,683	\$ 4,355
11	zzz	Injection, ketorolac tromethamine, per 15 mg	American Hospital Directory - National Outpatient CPT Data 2020	30	6,736	\$ 85
12	zzz	Established Patient Evaluation - Level 3	Physician and Other Supplier, PUF 2019	30	38,546	\$ 204
12	zzz	Autograft for spine surgery only (includes harvesting the graft); morselized (through separate skin or fascial incision) (List separately in addition to code for primary procedure)	Physician and Other Supplier, PUF 2020	National w/ GAF	4,313	\$ 1,300
12	zzz	Arthrodesis, posterior interbody technique, including laminectomy and/or discectomy to prepare interspace (other than for decompression), single interspace; lumbar	Physician and Other Supplier, PUF 2020	National w/ GAF	2,199	\$ 8,041
12	zzz	Arthrodesis, posterior interbody technique, including laminectomy and/or discectomy to prepare interspace (other than for decompression), single interspace; each additional interspace	Physician and Other Supplier, PUF 2020	National w/ GAF	324	\$ 2,395

Patient Name: Daenerys Targaryen
 Location: Denver, CO
 Treatment Range: 08/17/19 - 12/14/20

Bill #	Code	Description	Data Source	Radius (miles)	Total Patients	Value / Unit
12	zzz	Posterior segmental instrumentation (eg, pedicle fixation, dual rods with multiple hooks and sublaminar wires); 3 to 6 vertebral segments (List separately in addition to code for primary procedure)	Physician and Other Supplier, PUF 2020	30	592	\$ 4,528
12	zzz	Insertion of interbody biomechanical device(s) (eg, synthetic cage, mesh) with integral anterior instrumentation for device anchoring (eg, screws, flanges), when performed, to intervertebral disc space in conjunction with interbody arthrodesis, each interspace (List separately in addition to code for primary procedure)	Physician and Other Supplier, PUF 2020	30	1,118	\$ 1,274
13	zzz	Arthrodesis, posterior interbody technique, including laminectomy and/or discectomy to prepare interspace (other than for decompression), single interspace; lumbar	Physician and Other Supplier, PUF 2020	National w/ GAF	979	\$ 4,863
13	zzz	Arthrodesis, posterior interbody technique, including laminectomy and/or discectomy to prepare interspace (other than for decompression), single interspace; each additional interspace	Physician and Other Supplier, PUF 2017	National w/ GAF	141	\$ 1,100
13	zzz	Posterior segmental instrumentation (eg, pedicle fixation, dual rods with multiple hooks and sublaminar wires); 3 to 6 vertebral segments (List separately in addition to code for primary procedure)	Physician and Other Supplier, PUF 2020	30	359	\$ 2,334
13	zzz	Insertion of interbody biomechanical device(s) (eg, synthetic cage, mesh) with integral anterior instrumentation for device anchoring (eg, screws, flanges), when performed, to intervertebral disc space in conjunction with interbody arthrodesis, each interspace (List separately in addition to code for primary procedure)	Physician and Other Supplier, PUF 2020	30	659	\$ 926
14	zzz	Radiologic examination, spine, lumbosacral; complete, including bending views, minimum of 6 views	Physician and Other Supplier, PUF 2019	30	340	\$ 238

Patient Name: Daenerys Targaryen
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Bill #	Code	Description	Data Source	Radius (miles)	Total Patients	Value / Unit
15	zzz	Injection(s), anesthetic agent and/or steroid, transforaminal epidural, with imaging guidance (fluoroscopy or CT); lumbar or sacral, single level	Physician and Other Supplier, PUF 2020	30	2,640	\$ 7,507
15	zzz	Injection(s), anesthetic agent and/or steroid, transforaminal epidural, with imaging guidance (fluoroscopy or CT); lumbar or sacral, single level	Physician and Other Supplier, PUF 2020	30	2,640	\$ 7,507
16	zzz	Manual therapy techniques (eg, mobilization/manipulation, manual lymphatic drainage, manual traction), 1 or more regions, each 15 minutes	Physician and Other Supplier, PUF 2020	30	23,440	\$ 70
16	zzz	Physical therapy evaluation: high complexity	Physician and Other Supplier, PUF 2020	30	1,267	\$ 150
16	zzz	Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility	Physician and Other Supplier, PUF 2020	30	24,171	\$ 72
16	zzz	Re-evaluation of physical therapy established plan of care	Physician and Other Supplier, PUF 2020	30	2,356	\$ 113
17	zzz	Spinal fusion except cervical w/o mcc	National (Nationwide) Inpatient Sample (NIS) 2016	National w/ GAF	2,533	\$ 314,810

Procedure Codes: 0SG10AJ