

# Objectives ➤ Understand how "Wounds" clinical grouping compares to the other PDGM Clinical Grouping during the first 12 months of PDGM ➤ Highlight the differences in visit utilization based on diagnosis and other patient attributes ➤ Understand how to best manage your wound care patients based on clinical picture of the patient ➤ Share best practices to improve patient wound outcomes and profitability

Understand how "Wounds"
clinical group compares to the
other PDGM Clinical Grouping
during the first 12 months of
PDGM

### **SHP National Benchmarking Data**

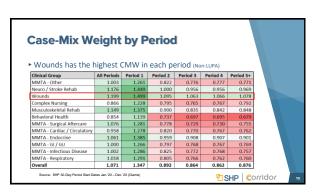
- ▶ Based on PDGM CY 2020 30-Day Periods (as of Mar 19th 2021)
- ▶ Based on SHP National Database with CY'20 Period Start Dates for Medicare Traditional patients
- ▶ Based on later of either Final Claims or OASIS
- ▶ Claims (LUPA rates and Visits) data also for Jan Dec '20
- ▶ COVID-19 is impacting some of the trends in CY 2020



### 

	2 - I4ar	ional	
oortion of "High" a	djustmen	t due with	comorbidity
leads to higher pr	oportion o	of Commu	inity-Late Periods
Comorbidity Adjustment	SHP	Wounds	
None	47.3%	27.6%	
Low	38.0%	36.4%	
High	14.8%	36.0%	
Total	100.0%	100.0%	
Source & Timing	SHP	Wounds	
Community - Early	12.1%	12.8%	
Institutional – Early	23.8%	11.0%	
Community – Late	59.1%	71.8%	
Institutional – Late	5.1%	4.4%	
Total	100.0%	100.0%	
	leads to higher pr Comorbidity Adjustment None Low High Total Source & Timing Community - Early Institutional - Early Community - Late Institutional - Late	Eads to higher proportion (   Comorbidity Adjustment   SHP     None	None

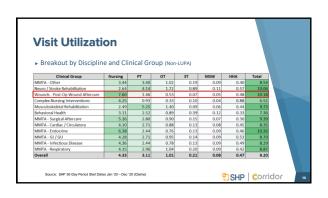
<ul><li>Wound has the</li><li>More closely m proportions wit</li></ul>	natching to	CMS			0 - 41 12 - 59 60+	
Functional Impairment	SHP	Wounds				
Low	24.0%	27.3%			Average Points	
	24 224	35.0%	Func Imp Measure	SHP	Wounds	Dif
Med	31.9%					
	52.0.0		Ambulation	12.5	13.9	1.39
High	44.1%	37.7%	Bathing	14.0	14.5	0.49
	52.0.0		Bathing Bed Trans	14.0	14.5 6.1	(0.03)
High	44.1%	37.7%	Bathing	14.0	14.5	0.49
High	44.1%	37.7%	Bed Trans Lower Dressing	14.0 6.1 5.9	14.5 6.1 6.3	0.49 (0.03) 0.38
High	44.1%	37.7%	Bething Bed Trans Lower Dressing Upper Dressing	14.0 6.1 5.9 4.2	14.5 6.1 6.3 4.1	0.49 (0.03) 0.38 (0.14)
High	44.1%	37.7%	Bathing Bed Trans Lower Dressing Upper Dressing Grooming	14.0 6.1 5.9 4.2 3.3	14.5 6.1 6.3 4.1 3.2	0.49 (0.03) 0.38 (0.14) (0.10)



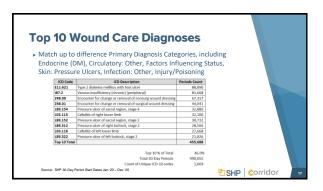
						1	
UPA Ra	ites						
Rates based	on Perio	nd Segue	ence				
Wounds hav	ve one of	f the low	est LUPA	\ rates			
Clinical Group	All Periods	Period 1	Period 2	Period 3	Period 4	Period 5+	
Behavioral Health	8.4%	9.2%	9.7%	4.7%	6.7%	8.3%	
Complex Nursing	20.6%	11.4%	12.8%	21.0%	14.3%	24.2%	
MMTA - Cardiac	7.5%	9.7%	9.7%	3.9%	6.7%	4.0%	
MMTA - Endocrine	9.5%	9.8%	15.0%	6.7%	10.7%	6.2%	
MMTA - GI / GU	9.6%	9.2%	10.5%	6.7%	8.2%	11.1%	
MMTA - Infectious	9.9%	8.8%	10.4%	6.6%	8.4%	13.6%	N.
MMTA - Other	8.5%	9.3%	10.1%	4.1%	6.6%	6.4%	
MMTA - Respiratory	8.6%	9.9%	10.4%	3.9%	6.9%	3.9%	,
MMTA - Surg After	10.8%	10.5%	13.9%	4.2%	8.6%	4.1%	
MS Rehab	8.9%	10.2%	9.8%	2.6%	7.1%	3.4%	
Neuro Rehab	8.6%	10.5%	9.4%	3.6%	7.0%	5.6%	
	8.1%	9.3%	12.7%	5.6%	9.1%	5.1%	
Wounds			10.7%	5.0%	8.0%	7.8%	
Neuro Rehab			12.7%	5.6%	9.1%	5.1%	

1		Vis	it Threshold			
Clinical Group	2	3	4	5	6	
MMTA - Other	7.4%	8.3%	9.5%	13.1%		
leuro / Stroke Rehab	5.9%	10.7%	8.5%	11.1%	12.2%	
Vounds	4.8%	7.6%	8.5%	10.7%		\
Complex Nursing	21.1%	12.9%	10.3%			1
Musculoskeletal Rehab	6.7%	9.5%	7.0%	10.3%	11.5%	1
ehavioral Health	7.6%	10.0%	10.0%			
MMTA - Surgical Aftercare	10.9%	8.7%	9.9%	12.1%		
MMTA - Cardiac / Circulatory	5.5%	9.1%	9.4%	12.2%		
MMTA - Endocrine	5.3%	10.0%	9.2%	12.2%		
MMTA - GI / GU	9.8%	8.3%	10.1%			
MMTA - Infectious Disease	10.6%	8.8%	10.5%			
MMTA - Respiratory	6.8%	8.5%	10.5%	12.8%		
Overall	8.1%	8.6%	9.6%	11.1%	11.6%	
Percent of HIPPS Codes	21.8%	29.6%	31.7%	14.6%	2.3%	
ercent of LUPA Period Count	37.5%	21.3%	14.9%	20.0%	6.3%	
ercent of Wound Period Count	3.2%	62.7%	8.1%	26.0%	0.0%	

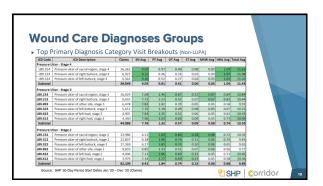
Highlight the differences in visit utilization based on diagnosis and other patient attributes

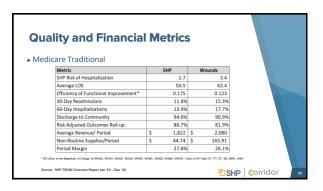


/isit Utilization						
rioit otilization						
Breakout by Period Sequen	co (No. 111	D 4 1				
	Period 1	Period 2	Period 3	Period 4	Period 5 +	
Clinical Group	T CITO U X	1 011001	1 0110 0			
MMTA - Other	10.76	6.60	7.40	6.42	6.80	
Neuro / Stroke Rehabilitation	13.05	7.79	8.64	7.20	7.98	
Wounds - Post-Op Wound Aftercare	12.23	9.05	9.52	8.91	9.63	
Complex Nursing Interventions	9.71	6.49	6.44	5.65	5.65	
Musculoskeletal Rehabilitation	11.76	7.03	8.16	6.72	7.52	
Behavioral Health	10.28	6.10	6.45	5.54	5.39	\
MMTA - Surgical Aftercare	11.02	6.55	7.87	6.92	8.22	
MMTA - Cardiac / Circulatory	11.58	6.89	7.04	6.08	6.30	\ \
MMTA - Endocrine	11.59	7.85	8.24	7.68	11.84	\
MMTA - GI / GU	11.00	6.89	7.29	6.50	6.59	
MMTA - Infectious Disease	10.41	6.87	7.13	6,45	6.39	\ \
MMTA - Respiratory	11.31	6,88	7.29	6,27	6,50	
Overall	11.62	7.28	7.98	6.98	7.79	'



ICD Code										
Endocrine	ICD Description	Claims	SN Avg	PT Avg	OT Avg	ST Avg	MSW Avg	HHA Avg	Total Avg	
£11.621	Type 2 diabetes mellitus with foot ulcer	70.238	8.01	1.00	0.35	0.03	0.05	0.34	9.77	
E11.622	Type 2 diabetes mellitus with other skin ulcer	11,481	8.11	0.99	0.35	0.04	0.05	0.37	9.90	
Subtotal	Endocrine (DM)	81,719	8.02	0.99	0.35	0.03	0.05	0.34	9.79	
Circulatory	Other									
187.2	Venous insufficiency (chronic) (peripheral)	66,667	7.81	1.16	0.41	0.03	0.05	0.41	9.88	
Subtotal	Circulatory: Other	66,668	7.81	1.16	0.41	0.03	0.05	0.41	9.88	
Factors Inf	luencing Status									
248.00	Encounter for change or removal of nonsurg wound dressing	52,722	7.97	1.16	0.41	0.04	0.05	0.45	10.09	
248.01	Encounter for change or removal of surgical wound dressing	33,777	7.16	2.09	0.61	0.06	0.05	0.26	10.22	
Subtotal	Factors Influencing Status	86,499	7.66	1.52	0.49	0.05	0.05	0.37	10.14	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \





ounc	l Car	e St	ays v	s Out	com	es		
s SHP ris	k for hos	oitalizat	tion predi	ctions inc	rease so	does LO	S, Visits	
nd Hospi	talization	ıs						
					et - I- 7010	et - I - TILO		
SHP Hosp Risk	Stays	LOS	SN Visit Avg	Tot Visit Avg	Mobility	Chg in TNC Self Care	Hospitalizations	
1	7,672	40.9	11.0	15.9	0.73	2.03	6.8%	
2	44,754	57.3	15.0	20.9	0.71	1.97	16.0%	\ \
3	45,513	67.3	17.1	24.4	0.71	1.95	27.0%	\ \
4	30,703	73.6	19.1	27.4	0.73	1.96	38.8%	1
5	17,538	76.7	19.9	29.4	0.73	1.89	50.6%	'
6	8,985	76.6	20.6	31.2	0.71	1.81	65.1%	
7	4,109	78.4	22.0	34.0	0.60	1.49	78.7%	
8	1,657	74.1	22.6	34.4	0.47	1.15	90.8%	
9	406	73.0	24.7	35.3	0.34	0.91	99.8%	
Overall	161,337	66.4	17.3	24.9	0.72	1.94	32.1%	

						amp				
Stay benchi	mark co	mparin	g All W	ounds t	o Press	ure Ulo	er - Sac	ral		
Region Stag	ge 3 (ICI	D-10 Co	de - L89	.153)					\ \	
Length of S									,	
Total Visits	are high	her by 1	.8.9%							
		Periods/	SN Visit Avg	PT Visit	OT Visit	ST Visit	MSW	HHA Visit		
Grouping	LOS			Avg	Avg	Avg	Visit Avg	Avg	Visits Avg	
		Stay 2.82		4.6	1.7	0.2	0.2	0.9	24.9	
Grouping All Wounds L89.153	66.4 69.8	2.82 3.23	17.3 18.6	4.6 5.5	1.7 2.7	0.2	0.2			
All Wounds	66.4	2.82	17.3							
All Wounds	66.4	2.82	17.3						2	

Understand how to best manage your wound care patients based on clinical picture of the patient



### Agency Pain Points in the Management of Wounds Inaccurate identification of patients' wound Not addressing etiology behind wound Challenges in co-managing wounds with others (wound clinics, hospital partners, etc)

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# Pain Point: Inaccurate identification of wounds Can affect patient wound healing Can affect wound patient length of stay Can affect supply costs Can affect agency profitability

### Pain Point: not addressing etiology of wound

- Addressing wound but not addressing causal factors leading to wound and/or delayed healing of wound:
- ▶ Re-positioning
- Addressing pressure Points
- ▶ Nutrition Deficits ie: Lack of protein
- ▶ Off Loading



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### Options to improve wound identification and alleviating etiology:

- ► Education of clinicians on wound types
- ► Clinician Wound identification competency
- ► Utilization of wound care nurses to identify wounds
- ► Outsourcing of centralized wound care model (Corstrata)
- ▶ What is needed to reverse wound etiology
- ▶ Addressing pressure points
- ▶ Improving nutritional intake

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### Pain Point: Co-managing Wounds

- ► May be co-managing wound patients with Wound Clinic
- ► Incentives may differ
- ► Regulations may differ
- ► Mixed messages for patient
- ► Divisive relationship between home health and wound clinic

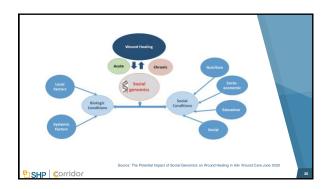


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# Options when Co-managing Wounds Clinician Visits with the patient to Wound Clinic Relationship of wound certified nurses with wound clinic Understanding new product wear time ordered by wound clinics Determining impact on visit utilization Clinic visits may improve patient feelings of isolation







# Effect on Wound Healing Altered production of cytokines Change in macrophage and/or neutrophil phenotype Reduction of growth factors Increase of glucocorticoids

Addressing Social Determinants	
Ensuring SDOH are captured and addressed as possible     OASIS E on horizon will assist with capturing at admission     Addressing social isolation	
Family or Friend Interaction Virtual visits Clinic visits	
<ul> <li>Utilizing RD to assist with improving nutritional intake of protein, calories</li> </ul>	
<ul> <li>Addressing tobacco and alcohol consumption</li> <li>Request Social Worker order to address stressors and coping skills</li> </ul>	
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:	Share best practices to improve patient wound outcomes and	
	profitability	
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### Draws edges of wound together Removes infectious material Reduces Edema Promotes perfusion Stretches cells so granulation tissue can form

### Standard NPWT & Impact on Cost of Care

- ► Provider cost relates to gauze
- ► HME pays for pump
- ► Visit Utilization is higher initially due to 3x week visits
- ► Need reliable caregiver
- ► Shaves off weeks getting wound bed ready for advanced wound product

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## Are you being penny wise but pound foolish? Advanced Wound Products with longer wear times- 7 to 14 day Undisturbed healing (Molnlycke- Mepilex Border Flex Dressing) Burn Dressings Product: Debrisoft 1-2 times: shaves off time so get wound bed to better place for granulation

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## Resources to assist patient in wound management Pressure Relief Devices Wheelchair cushions Low Air Loss Mattresses Registered Dietician Consult Meals on Wheels/Food Banks Nutritional Supplements

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# Resources to assist provider in wound population Automated dashboard of key indicators Ownership of dashboard management/response Wound Specialists Clinician education and support Dynamic Formulary Centralized oversight of wound population Team that wakes up every day thinking about wound population Internal or external



# Top Wound Diagnoses -Home Health Type 2 Diabetic Foot Ulcer Venous Ulcer, Lower Extremities Encounter for change or removal of non-surgical or surgical wound dressing Cellulitis of lower limbs Pressure Ulcers Sources: SHP Data 2020, Corridor Data Q4 2020







### Elsie Rufo-73 year old ▶ 73 year old female with ► Income source: social COPD, osteoarthritis and security check ► Depression/Social ► Husband died a year ago Isolation ► Niece lives with her, works ► Pain remotely except two ► Stage III Sacral days/week Pressure Injury: ► Inactive-spending majority ► Current measurement: of time in recliner 5 x 3.5 x 1.2 cm watching TV SHP Corridor

### **Elsie Rufo-PDGM Background**

- ▶ Patient Primary Diagnosis: Stage III Pressure Injury Sacrum
- ▶ Admission Source/Timing: 1st 30 days community/early; 2nd 30 days community late; 3<sup>rd</sup> 30 days community late;
- ► Clinical Grouping: Wound
- Functional Score: Grooming-1, Dress Upper-1, Dress Lower-2, Bathing-2, Toilet Transferring-1, Transferring-1, Ambulation-2=Low Functional
- ► Comorbidities: COPD, Type 2 DM with complications, Depression, Chronic Pain, Osteoarthritis, Athersclerosis=0 comorbidity adjustment

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### **Elsie Rufo-PDGM Stats**

**HIPPS:** 1CA11 (1<sup>st</sup> 30 days) 3CA11 (2<sup>nd</sup> 30 days) 3CA11 (3<sup>rd</sup> 30 days)

CMW: 1.2468 (1st 30 days) .8408 (2nd and 3rd 30 days)

LUPA Visit Threshold: 5 (1st 30 days) 2 (2<sup>nd</sup> and 3<sup>rd</sup> 30 days)

Revenue: \$2,324 (1st 30 days) \$1,567 (2<sup>nd</sup> and 3<sup>rd</sup> 30 days)

### Addressing Elsie's Social issues

- ► Pain, shortness of breath, depression -
- Leading to inactivity
- ► Decreased appetite ⇒ Lack of protein and fresh fruits/vegetables

- ▶ Unless etiology of PU addressed,

- ► Inactivity ⇒
- ► Social isolation ⇒
- ▶ Not interested in eating
- ▶ Difficulty making meals
- ► Could affect wound healing
- ► Inconsistent caregiver oversight 🔿
- ▶ Niece works remotely
- ▶ Niece to work 2x week ▶ Health issues not being
- addressed timely

### Elsie's Interventions—not just about the wound

- ► Address functional issues
- Pain Management
- Address shortness of breathPT Order-Get patient moving
- OT-to work on equipment needed and assist with improving ability to bathing/dress
- Assess Elsie's ability to manage her diabetes and COPD
- ▶ Needs nutritional evaluation
- Meals on Wheels possibly
- Address social genomics impact
- ► Social Work Referral ► Increase socialization
- Address inconsistent caregiving

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### Elsie's Wound management interventions ► Wound Management ► Address underlying cause of pressure ▶ NPWT 3 visits per week until ▶ Low air loss mattress wound bed ready for advanced products ▶ Step down to advanced ▶ Wheelchair with advanced cushion wound product that can be applied 2x week ▶ Repositioning off pressure ► Teach niece how to troubleshoot NPWT and apply advanced wound products

### 

	Sum		IS I Rate:	s a	nd C	osts f	or CY	2020	nor 3									
				s a	nd C	osts f	or CY	2020	nor 2									
ÞU	sing Na	ationa	l Rate:	s a	nd C	osts f	or CY	2020	nor 2									
									hei 3	30-	day	perio	od					
► To	elehea	th co	t base	hd	on 2	5% of	nursi	ng vi	it						- 1			
				_											- 1			
	Reve	nues						Expe	nte	_					Vet			
Period	HHRG	CMW	Sub-total	Н	SN	PT	OT	HHA	MSW		PV.	NRS	Sub-total		- Exp	-\		
		1.2468	5 2,324	ş	1.452	\$ 502	\$ 818	\$ -	\$ 239	П		\$ 100	\$ 3,112	5	(788)	- \		
1	1CA11																	
1 2	1CA11 3CA11	0.8408	\$ 1,567	\$		\$ 502				\$	36	\$ 200	\$ 1,319	\$	248	- 1		
			\$ 1,567 \$ 1,567	5	581 290	\$ 167				5	73		\$ 730	5	837	1	\\ \	
2	3CA11	0.8408	\$ 1,567	5	581 290	\$ 167	\$ 818	\$ -	\$ 239							1		
2	3CA11	0.8408	\$ 1,567 \$ 1,567	5	581 290	\$ 167	\$ 818	\$ -	\$ 239	5	73	\$ 200	\$ 730 \$ 5,161		837	,		
2	3CA11	0.8408	\$ 1,567 \$ 1,567	5	581 290	\$ 167	\$ 818	\$ -	\$ 239	5	73	\$ 200	\$ 730		837 <b>297</b>	,	V	
2	3CA11	0.8408	\$ 1,567 \$ 1,567	5	581 290	\$ 167	\$ 818	\$ -	\$ 239	5	73	\$ 200	\$ 730 \$ 5,161		837 <b>297</b>	,		
2	3CA11	0.8408	\$ 1,567 \$ 1,567	5	581 290	\$ 167	\$ 818	\$ -	\$ 239	5	73	\$ 200	\$ 730 \$ 5,161		837 <b>297</b>			

### **Discharge Planning for Elsie**

- ► Starts at admission
- Discuss ways to continue with increased socialization ie: church friends have schedule of visiting
- ► Talk through pressure points and need for re-positioning
- ➤ Discuss how to continue buying right foods to have on hand
- ► Continue with meals on wheels
- Discuss how to get Elsie to physician more routinely
- Plan for Elsie moving using techniques learned from PT visits



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### What if there is not a consistent caregiver for Elsie?

- ► Should Elsie be cared for at home?
- ► Will NPWT be safe to utilize at home?
- ► SN would need to come at least 2x week to perform wound care with advanced wound product
- ► HHA would be recommended first 30 days to work with OT as Elsie works on self-care
- ► Would continue with in home SN Visits vs use of telephonic visits

### **Alternative Visit Utilization for Elsie**

- ► SN visits would increase to at least 20 over 90 day period
- ► Visits in first 30 days would increase due to addition of HHA visits
- ► Total visits over 90 day period would increase to at least 40
- ► Overall impact to margin would be loss over 90 day period

### **Summary of Best Practice Tips for Wound Patients**

- ► Ensure wounds are identified accurately
- ► Address etiology of the
- ► Don't underestimate impact of social determinants of health on healing
- ▶ Who owns wound patient population oversight?
- ► Wound dashboard with key performance indicators
- ► Assign ownership to oversight of dashboard daily
- ► Address outliers from dashboard

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### References

- ► <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7155927/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7155927/</a>
- ► Social Determinants of Health Healogics Wound Science Initiative White Paper
- http://online.fliphtml5.com/zxoes/mtyv/#p=12
   Factors Affecting Wound Healing in Individuals With Pressure Ulcers: A Retrospective Study by <u>Azize Karahan, Aysel Abbasoğülu</u>, <u>Sevcan Avcı Işık</u>, <u>Banu</u> <u>Çevik</u>, <u>Ciğdem Saltan</u>, <u>Nalan Özhan Elbaş</u>, <u>Ayşe Yalılı</u>
- ► https://cdn.ymaws.com/npiap.com/resource/resmgr/online\_store/posters/npia p pip tips - proning 202.pdf
- https://www.o-wm.com/content/early-versus-late-initiation-negative-pressurewound-therapy-examining-impact-home-care-leng
- ► Covid Skin Manifestations presented by AMT 4/21/21



