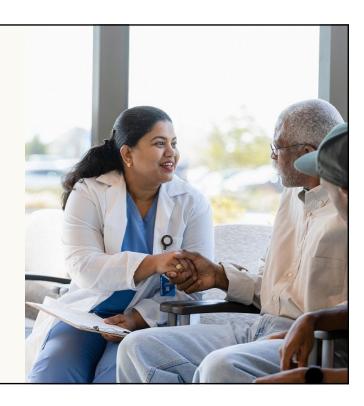
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## Racial and Ethnic Inequities in Endof-Life Pain Management

Rashmi K. Sharma, MD, MHS Associate Professor of Medicine University of Washington Seattle, WA



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## **Learning objectives**

At the end of this educational activity, participants should be able to:

- Characterize the data on racial and ethnic inequities in end-of-life pain management
- Describe the multi-level barriers that contribute to inequities in end-of-life pain management
- Identify strategies to address racial and ethnic inequities and improve care for patients at the end of life

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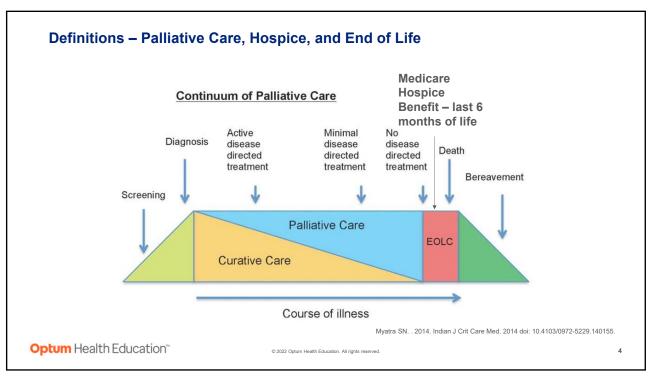
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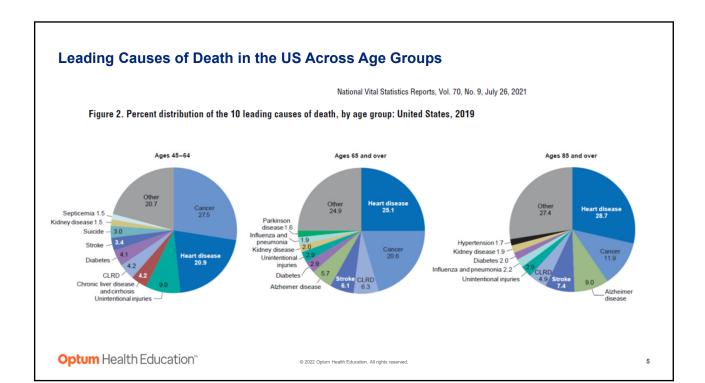
## Prevalence Of Pain At The End Of Life

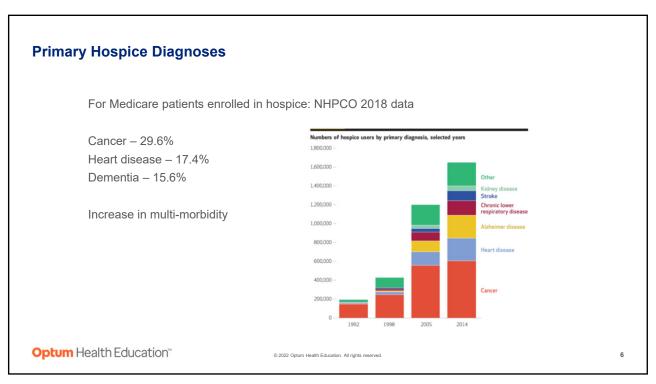
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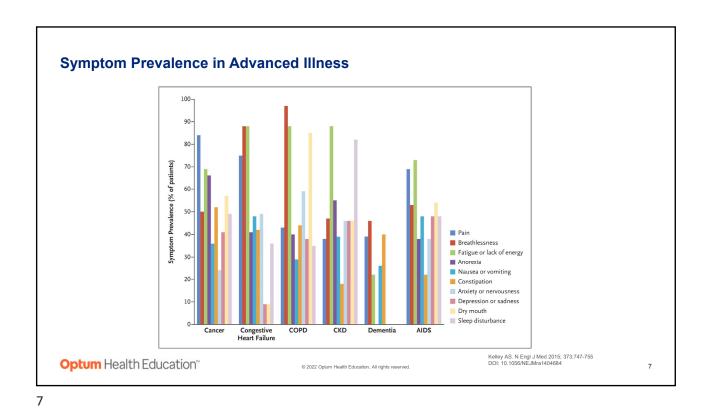
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## **Prevalence of Pain for Patients with Advanced Cancer**

 ${\it Table~4}$  Pain Prevalence in Patients With Advanced, Metastatic, or Terminal Disease (Group 3)

Study							% Pain			
	Continent <sup>a</sup>	Setting <sup>b</sup>	Type of Cancer Mean Age Samp	Sample Size	No	Mild	Moderate	Severe	Total	
Bausewein, 2010 <sup>76</sup>	2	2	4	63.8	49					69.0
Black, 2011 <sup>77</sup>	1	2	1	75.7	71	21.1	26.8	21.1	31.0	78.9
Bradley, 2005 <sup>78</sup>	2	2	1	69.0	1137	22.0	28.0	32.0	17.0	78.0
Clark, 2012 <sup>79</sup>	6	2	1	70.5	3005	46.7	27.8	18.5	6.9	53.2
Elmqvist, 2009 <sup>80</sup>	2	2	1	66.0	116			$57.0^{d}$		
Gomez-Batiste, 2010 <sup>81</sup>	2	2	1	72.2	202					62.3
Hamaker, 2011 <sup>57</sup>	2	2	1	73.4	137					64.0
Imenez, 201182	2	2	1	66.0	406					80.5
Justo Roll, 200983	4	2	1	59.0	91					41.7
Kang, 201384	1	2	1	59.2	1612	8.4	20.3	31.6	39.6	91.5
Kirkova, 201285	1	2	1	65.0	941					84.0
Kwon, 2006 <sup>86</sup>	3	2	1	51.3	142	0.7	5.6	15.5	78.2	99.2
Lasheen, 200987	1	2	1	70.0	30					60.0
McPherson, 2008 <sup>88</sup>	1	2	1	68.0	66					69.7
Mercadante, 2013 <sup>89</sup>	2	2	1	61.6	385	69.1	19.1	8.6	3.1	30.8
Modonesi, 2005 <sup>90</sup>	2	2	1	67.0	162			40.0		67.0
Mystakidou, 2007 <sup>91</sup>	2	2	1	63.2	82			$68.2^{d}$		
Narducci, 2012 <sup>92</sup>	2	2	1	68.0	68	45.6		19.1	35.2	
Oi-Ling, 2005 <sup>93</sup>	3	2	1	69.0	30					57.0
Park, 200694	3	2	1	63.5	138				59.4	
Peters, 200695	6	2	1	67.7	58					74.0
Saini, 200696	2	2	1	63.0	11					55.0
Shin, 2011 <sup>97</sup>	3	2	1	60.1	102	15.0	27.0	29.0	30.0	85.0
Spichiger, 2011 <sup>98</sup>	2	2	1	63.7	103					71.2
Torvinen, 201340	2	2	6	72.2	108					24.0
van den Beuken, 2007 <sup>41</sup>	2	2	1	62.8	81			53.1		75.0
Wilberg, 201299	2	2	1	64.0	99					43.3
Wilson, 2009100	1	2	1	67.2	381	29.7	36.5	28.6	5.2	70.2

van den Beuken-van Everdingen MH. JPSM. 2016 doi: 10.1016/j.jpainsymman.2015.12.340.

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<sup>&</sup>quot;I = North America; 2 = Europe; 3 = Asia; 4 = South America; 5 = Africa; 6 = Australi, New Zealand.

"I = in-patient; 2 = out-patient; 3 = at home; 4 = hospice or palliative care unit; 5 = referred to palliative care service; 6 = all; 7 = other.

"I = all; 2 = head and neck; 3 = gastro-intestinal; 4 = lung; 5 = breast; 6 = urogenital; 7 = genecological; 8 = other.

"None or mild.

## **Palliative Care Quality Domains**

Domain	Key Recommendations
Structure and processes of care	Interdisciplinary team, comprehensive interdisciplinary assessment, education and training; relationship with hospice program
Physical aspects of care	Pain and other symptoms are managed with the use of best practices
Psychological and psychiatric aspects of care	Psychological and psychiatric issues are assessed and managed; grief and bereavement program is available to patients and families
Social aspects of care	Interdisciplinary social assessment with appropriate care plan; referral to appropriate services
Spiritual, religious, and existential aspects of care	Spiritual concerns are assessed and addressed; linkages to community and spiritual or religious resources are provided as appropriate
Cultural aspects of care	Culture-specific needs of patients and families are assessed and addressed; recruitment and hiring practices reflect the cultural diversity of the com- munity
Care of the imminently dying patient	Signs and symptoms of impending death are recognized and communicated, hospice referral is recommended when patient is eligible
Ethical and legal aspects of care	Patient's goals, preferences, and choices form basis for plan of care; the team is knowledgeable about relevant federal and state statutes and regulation:

<sup>\*</sup> Adapted from the National Consensus Project for Quality Palliative Care.<sup>2</sup>

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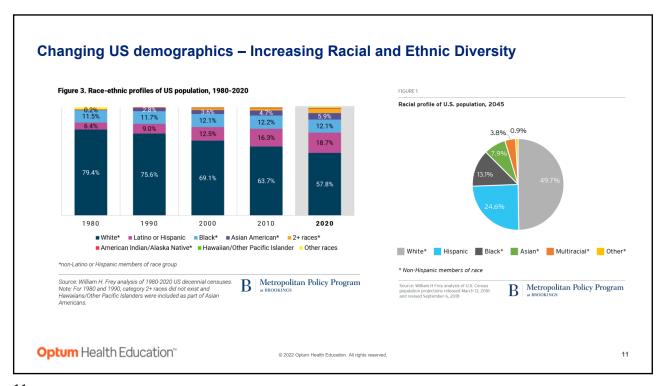
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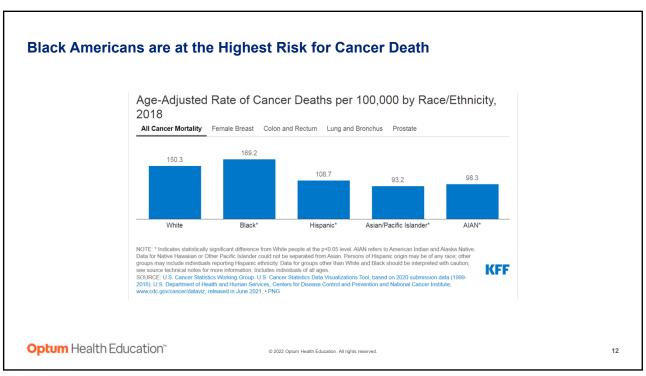
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# Racial and Ethnic Inequities in End-of-Life Care

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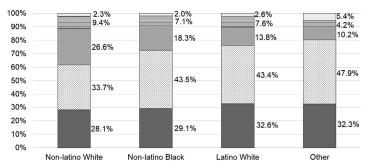
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## **Racial and Ethnic Differences in Place of Death**

Data from the Health and Retirement Study – Americans who died between 2002 and 2014



Race / Ethnicity

□ Other ■ Hospice ■ Nursing Home □ Hospital ■ Home

Orlovic M. SSM Popul Health. 2018 Nov 30;7:100331. doi: 10.1016/j.ssmph.2018.100331.

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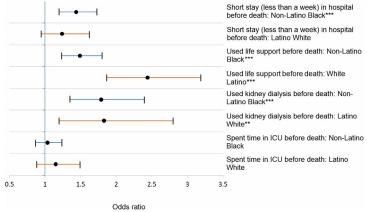
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## **Racial and Ethnic Differences in Healthcare Utilization**

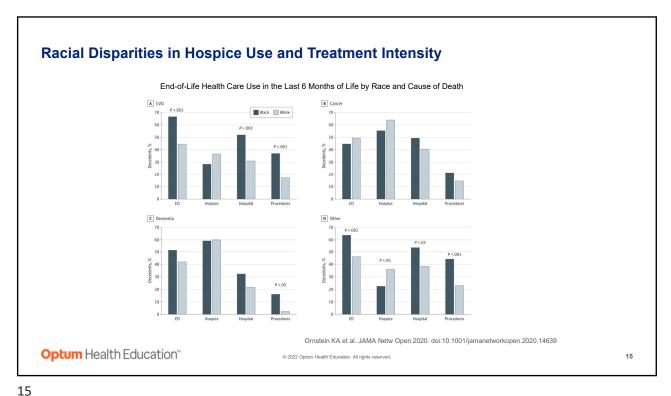
Data from the Health and Retirement Study – Americans who died between 2002 and 2014



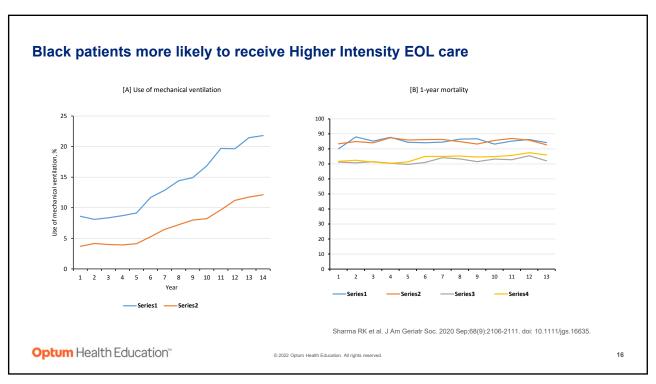
Orlovic M. SSM Popul Health. 2018 Nov 30;7:100331. doi: 10.1016/j.ssmph.2018.100331.

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## **Racial and Ethnic Inequities in Assessment** and Management of Pain

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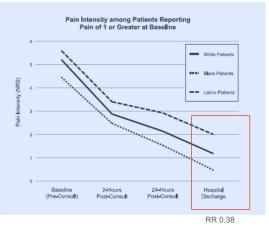
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## Pain Severity in Patients Undergoing Palliative Care Consultation

## Patients undergoing initial palliative care consultation

	African Americans (N=681)	Whites (N=100)	P value
Palliative Performance Scale 0-30 40-60 ≥70	35.6% 56.7% 7.8%	23.6% 66.2% 10.2%	0.49
Pain Any Moderate/severe	66.0% 40.0%	56.1% 34.5%	0.06 0.28

Kamal AH et al. Am J Hosp Palliat Care. 2017 doi: 10.1177/1049909116632508.



95% CI 0.15-0.97

Laguna J. et al. J Amer Geriatr Soc. 2014 doi: 10.1111/jgs.12709

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## Pain Assessment and Management in Hospice

Data from 2007 National Home Health and Hospice Care Survey - Older Adults Receiving Hospice Care

		ssment on admission	Valid pair	tool used
Race/ethnicity	AOR	95% CI	AOR	95% CI
Black, non- Hispanic	0.26	0.11-0.65	0.95	0.66-1.39
Hispanic	1.19	0.16-8.78	1.18	0.60-2.31
Other	0.58	0.07-4.66	1.14	0.27-4.90
	Opioid	ds	Non-pharr	nacologic
Race/ethnicity	AOR	95% CI	AOR	95% CI
Black, non- Hispanic	0.82	0.59-1.14	0.80	0.55-1.18
Hispanic	0.62	0.40-0.97	1.18	0.72-1.94

0.48-1.92

0.96

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Other

Cea ME et al. J Pain Symptom Manage. 2016 Nov;52(5):663-672. doi: 10.1016/j.jpainsymman.2016.05.020.

0.51-1.83

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## Receipt of Opioids for Pain in Hospice Setting

Medicare beneficiaries 65+ enrolled in hospice between 2014-2016

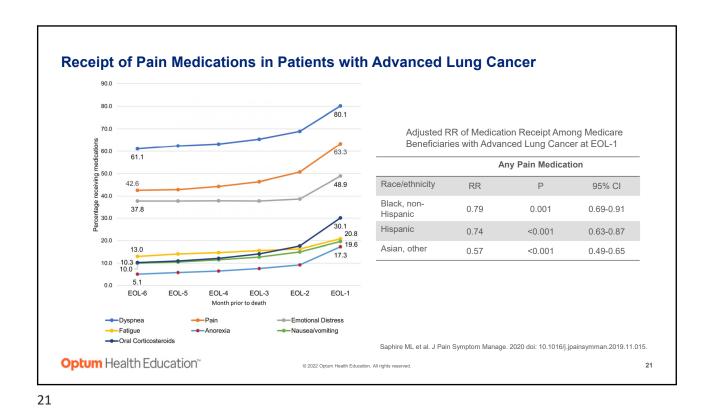
## Prevalence of opioid medication prescribing among older hospice beneficiaries

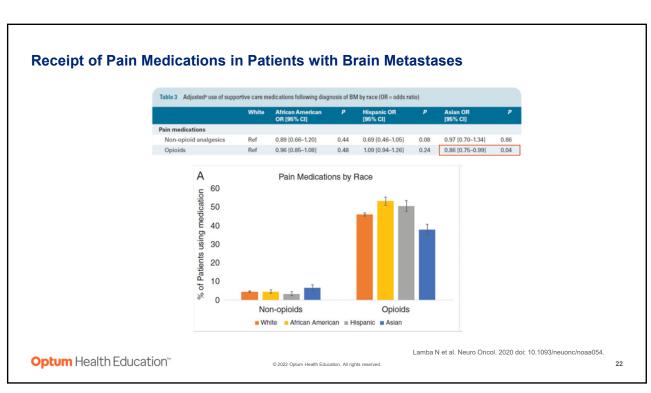
Race/ethnicity	N	% prescribe opioid	d AOR	95% CI
White, non- Hispanic (ref)	484,557	64.1	ref	ref
Black, non- Hispanic	42,656	57.9	0.75	0.72-0.77
Hispanic	10,694	54.3	0.74	0.70-0.78
Other	16,115	60.6	0.84	0.80-0.87

Gerlach LB et al. J Am Geriatr Soc. 2021 Jun;69(6):1479-1489. doi: 10.1111/jgs.17085.

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## Drivers of Racial and Ethnic Inequities in End-of-Life Care

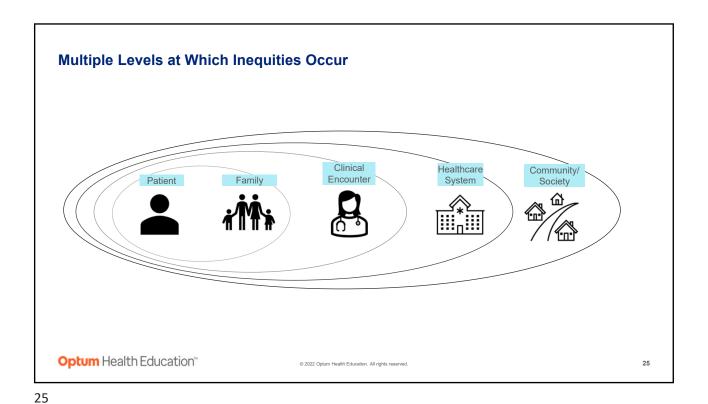
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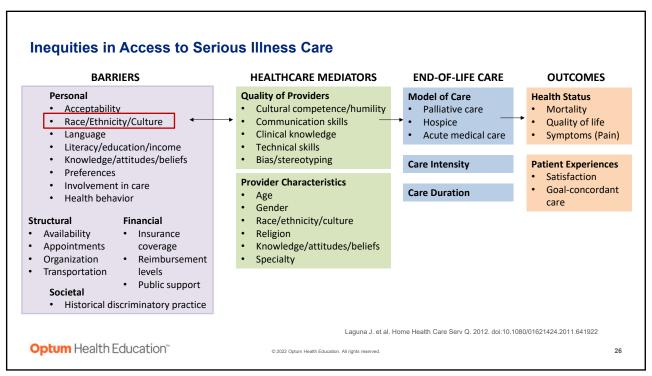
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#### **What Causes Health Inequities?** Structural inequities Cultural traditions Dislocation Geographic Social determinants of health Discrimination Gender Living conditions Poor access to health care Factors contributing to health inequities Social isolation Healthcare disparities Unemployment Occupation Clinician behavior System-level factors level of education social policies https://erol.side.wa.edu.au/ RWJF Report - Communities in Action: Pathways to Health Equity Optum Health Education © 2022 Optum Health Education. All rights reserved. 24





## Patient-Level Barriers – Perceptions of Black Patients with Cancer

Barrier	% agreeing with stateme	Mean, ent SD
People get addicted to pain medication easily	85.6	3.5 ± 1.8
I do not like taking pills	81.0	$3.4 \pm 2.0$
Constipation from pain medicine is really upsetting	76.0	$3.4 \pm 2.1$
If you take pain medicine when you have some pain, then it might not work as well if the pain becomes worse	63.5	2.4 ± 2.1
It is more important for the doctor to focus on curing illness than to put time into controlling pain	60.2	2.4 ± 2.2
Drowsiness from pain medication is really a bother	59.0	$2.2 \pm 2.1$
Nausea from pain medicine is really distressing	53.8	$2.0 \pm 2.1$

Barrier	% agreeing with statement	Mean, nt SD
Having pain means the disease is getting worse	53.3	1.8 ± 1.9
Confusion from pain medication is really a bother	48.6	1.7 ± 2.0
It is important to be strong by not talking about pain	43.8	1.4 ± 2.0
Pain medication cannot really control pain	42.9	1.5 ± 1.9
It is easier to put up with pain than with the side effects that come from pain medicine	39.0	1.3 ± 1.9
Pain medicine often makes you say or do embarrassing things.	10.5	0.7 ± 1.5

Yeager KA et al. JPSM. 2019 doi: 10.1016/j.jpainsymman.2018.10.491.

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## **Concerns about Pain Medications Among Black and Hispanic Patients with Metastatic Cancer**

TABLE 4 Percentage of African-American and Hispanic Patients with Disease-Related Pain Expressing Concerns about Opiold Analgesics

	African-American patients (%)		Hispanic patients (%)	
Concerns about pain medicines <sup>a</sup>	A lot	A little	A lot	A little
Be strong and not lean on pain				
medications	36	57	41	35
Concerns about tolerance	43	36	29	29
Worry about addiction	36	21	53	18
Worry that pain medicine will not				
work	38	31	12	59
Reluctance to complain about pain	29	43	29	29
Family concerned about pain				
medications	29	7	41	24
Concerns about side effects of				
analgesics	43	14	12	35
Wonder why doctor does not know.				
about pain	31	46	18	18
Taking strong analgesic means				
death is near	43	0	18	18
Distract physician from treating				
the disease	21	21	12	41

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Anderson KO et al. Cancer, 2002 doi: 10.1002/cncr.10414.

## **Disparities in Opioid Analgesic Availability**

SOCIODEMOGRAPHIC CHARACTERISTICS	N	PHARMACIES IN MINORITY ZIP CODES (N = 93)	PHARMACIES IN WHITE ZIP CODES (N = 95)	P VALUE*
Median zip code age (mean yrs ± SE)	188	$32.3 \pm 0.9$	36.5 ± 0.5	<.01
Median zip code household income (mean \$ ± SE)	188	\$32,034 ± \$2,076	\$49,434 ± \$2,160	<.01
Proportion of residents ≥65 yrs within each zip code (mean proportion ± SE)	188	.109 ± .008	.129 ± .005	<.05
Rural zip code (% yes)†	132	0.0	13.2	.28
Pharmacy type (% corporate)	188	64.3	59.9	.61
Hospital in the zip code (% yes)	188	31.7	43.2	.42

### Table 3. Results From the Multivariate Models for Sufficient Supply

		INCOME	GROUP*		
PREDICTOR	≥ MEAN ZII	CODE INCOME	< MEAN ZIP CODE INCOME		
	ODDS RATIO	95% CI	ODDS RATIO	95% CI	
White	13.36	(1.09-164.17)	54.42	(6.27-472.02)	
Noncorporate	24.92	(3.03-205.18)	3.61	(1.11-11.77)	
Median age	.77	(.60-1.00)	1.06	(.99-1.14)	
Hospital in the zip code	.63	(.12-3.44)	2.01	(.62-6.52)	

Green CR, et al. J Pain. 2005 doi: 10.1016/j.jpain.2005.06.002.

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## Patient/Family-Level Barriers to Pain Management



- Fears/concerns:
  - side effects (common across racial/ethnic groups)
  - tolerance/dependency (possibly greater among minorities)
- Wanting to be self-reliant, not having to depend on meds to cope with pain
- · Misconceptions; needing more information
- Hesitancy to report pain unless it's severe (stoicism)
- Wanting more individualized approach to pain management (not just guideline-based)

Clarke G et al. BMC Palliat Care. 2022 Apr 6;21(1):46. doi: 10.1186/s12904-022-00923-6.

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## Clinician/Healthcare System-Level Barriers to Pain Management



- · Clinical encounter level
  - · Role of communication barriers: limited-English proficiency, low literacy
  - · Inconsistent or limited use of pain assessment scales
  - · Implicit bias hesitancy to prescribe opioids, waiting until near end of life



- · Healthcare system
  - · Lack of system-level interventions to routinely assess pain
  - · Barriers to navigating healthcare system (e.g., getting refills, etc.)



- Policy/Societal level
  - · Barriers to access to healthcare (insurance, etc), cost of treatment
  - · Disparities in opioid stock at local pharmacies

Clarke G et al. BMC Palliat Care. 2022 Apr 6:21(1):46. doi: 10.1186/s12904-022-00923-6.

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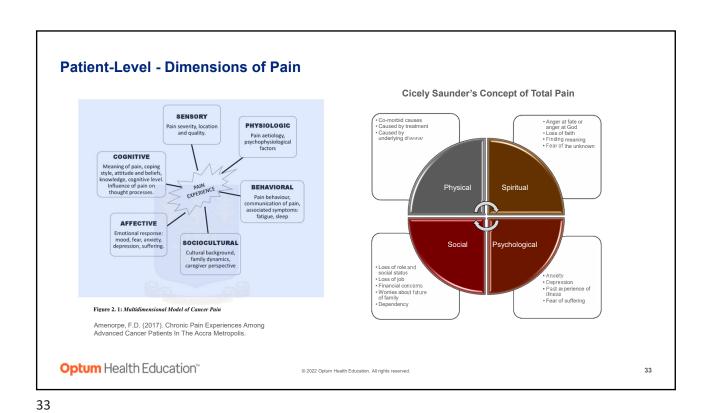
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# Addressing Racial and Ethnic Inequities in EOL Pain Management

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## **Approaches to Equitable Pain Management**

- · Conduct comprehensive assessment of all dimensions of pain
  - Use standardized tools to assess physical pain (Numeric rating scale, visual analog scale, behavioral scales for patients who can't rate their pain)
  - Use cultural humility approach to explore sociocultural, psychological, and spiritual aspects
  - Explore ways in which structural racism, past healthcare experiences, lack of trust may be contributing to dimensions of pain
- Individualize pain management and consider pharmacologic and non-pharmacologic treatments
- Explore and address patient and family caregiver fears/concerns (e.g., side effects, dependency), misconceptions about pain management, gaps in understanding

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## **Approaches to Clinical and System-Level Barriers**

- · Use of standardized pain assessments for physical pain, assess routinely
- · Clinician education about role of palliative care, moving palliative care upstream
- Implicit bias training, clinician education to address misconceptions about racial differences in pain and suffering
- Leading clinical interactions with respect (e.g., addressing patients by their surname, asking permission to engage and to touch, etc.)

Rosa WE et al. Health Affairs 2022. doi 10.1377/forefront.20220207.574426

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## **Approaches to Clinical and System-Level Barriers**

- · Good patient- and family-centered communication practices
  - · Explain information clearly, repeat as often as needed to ensure understanding
  - Use trauma-informed care approaches
  - · Clarify values/goals

"No one decision is right for everyone, as you think about your options, what's important to you?"

Rosa WE et al. Health Affairs 2022. doi 10.1377/forefront.20220207.574426

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#### **Approaches to Community/Societal Barriers**

- · Policy/Payment reform
  - · Improving health insurance coverage, Medicaid expansion
  - · Decreasing cost-sharing for high value services such as palliative care
- · Addressing structural racism and its role in:
  - · Inequitable distribution of opioids to local pharmacies
  - · Financial toxicity for patients with serious illness
    - Consider screening tools like the Comprehensive Score for Financial Toxicity, PRAPARE, Health Leads' Social Needs Screening Toolkit
- · Diversification of the healthcare workforce
- Support research that engages minoritized communities, increase systematic collection of race and ethnicity data for people with serious illness

Rosa WE et al. Health Affairs 2022. doi 10.1377/forefront.20220207.574426

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### **Summary Points**

- Pain is one of the most common symptoms for patients with serious illness and at the end of life; many patients experience moderate to severe pain
- Assessment and management of pain is an essential component of high quality palliative and end-of-life care
- Racial and ethnic differences occur in multiple domains of end-of-life care; these differences likely reflect inequities that occur at the patient/family, clinical encounter, healthcare system, and community/societal levels
- There is mixed data about the extent of racial and ethnic inequities in assessment and treatment of endof-life pain; certain populations experience inequitable care
- Multi-level interventions are needed to address drivers of racial and ethnic inequities key strategies include: standardized pain assessment, patient- and family-centered communication, addressing clinician implicit bias, and policy reform to address structural racism and improve access to healthcare

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