

Documenting Social Needs on Medical Claims

Utilization of Z Codes, 2021-2023

April 2025

This is a data supplement to the *Hospital Spotlight: Integrating Social Needs Data into Electronic Health Records* (January 2025). The hospital spotlight discusses patient screening and use of social needs data to support patient and population health; included are findings from an analysis conducted by the Maryland Health Care Commission (“MHCC”) using responses to the annual Hospital Health Information Technology Survey. For information on federally qualified health centers’ (“FQHC”) use of electronic health records to identify and address social needs, refer to MHCC’s *FQHC Spotlight: Leveraging Data and Technology to Identify and Address Individual Social Needs* (March 2023).



OVERVIEW

Z codes are in the ICD-10-CM (International Classification of Diseases, Tenth Edition, Clinical Modification) coding manual and may be assigned, as appropriate, to further explain (other) reasons for health care encounters.¹ Social needs-related codes identify non-medical factors related to socioeconomic and psychosocial circumstances (e.g., housing, food insecurity, social support) that impact health and health-related outcomes.² Z codes can be documented in a variety of clinical settings. The integration of these data into electronic health record systems informs decision-making, advances research, and promotes health equity;³ however, utilization of Z codes is hampered by limited infrastructure and resources.⁴

Z codes are infrequently reported on medical claims (<1 percent⁵) making the data an inadequate source to measure and address social, economic, and environmental determinants. Underutilization can be attributed to policies that generally do not require Z codes to be documented on claims for payment purposes. In addition, some determinants may not be captured in the Z codes currently available, and providers may feel limited in their ability to address social needs and/or need guidance on how best to

¹ Centers for Medicare and Medicaid Services. *ICD-10-CM Official Guidelines for Coding and Reporting FY 2024 -- UPDATED April 1, 2024*, April 2024. Available at: www.cms.gov/files/document/fy-2024-icd-10-cm-coding-guidelines-updated-02/01/2024.pdf.

² Centers for Medicare and Medicaid Services. *Using Z Codes: The Social Determinants of Health (SDoH) Data Journey to Better Outcomes*, June 2023. Available at: www.cms.gov/files/document/zcodes-infographic.pdf.

³ Li C, Mowery DL, Ma X, Yang R, Vurgun U, Hwang S, Donnelly HK, Bandhey H, Akhtar Z, Senathirajah Y, Sadhu EM, Getzen E, Freda PJ, Long Q, Becich MJ. *Realizing the Potential of Social Determinants Data: A Scoping Review of Approaches for Screening, Linkage, Extraction, Analysis and Interventions*. medRxiv [Preprint]. 2024 Feb 6:2024.02.04.24302242. doi: 10.1101/2024.02.04.24302242. Update in: J Clin Transl Sci. 2024 Oct 10;8(1):e147. doi: 10.1017/cts.2024.571. PMID: 38370703; PMCID: PMC10871446.

⁴ Elena Byhoff, Amy M LeClair, Cara N Smith, Tuhin K Roy, Mari-Lynn Drainoni, *Designing an implementation strategy to increase health-related social needs screening: Applying the PRISM framework in a resource-limited clinical setting*, *Translational Behavioral Medicine*, Volume 14, Issue 3, March 2024, Pages 197–205, <https://doi.org/10.1093/tbm/ibad067>.

⁵ LexisNexis Risk Solutions. *Z-Code Utilization Trends*. Available at: risk.lexisnexis.com/-/media/files/healthcare/research/lnrs_insights-brief-z-code-utilization-trends%20pdf.pdf.

assist patients with non-medical needs.⁶ Health care policy and payment reform benefits from having claims data connected to social needs (e.g., risk adjustments under value-based care models).⁷

Federal policy encourages greater use of Z codes. The Centers for Medicare & Medicaid Services (“CMS”) requires hospitals to screen patients in the inpatient setting across five domains: utility needs, food insecurity, housing instability, transportation needs, and interpersonal safety; mandatory reporting begins in 2025.⁸ In January 2024, CMS established a new, standalone billing code for the administration of a standardized, evidence-based social determinants of health risk assessment (G0136).⁹ The MHCC will monitor the introduction of this code and trends in Z codes documented on claims.

UTILIZATION SNAPSHOT: REGIONAL TRENDS

The tables that follow illustrate a regional analysis based on Z code categories and subcategories. Percentages reflect private and government payer medical claims¹⁰ from 2021 to 2023 that had a documented Z code. These include Aetna, CareFirst, Cigna, Kaiser, UnitedHealthcare, Medicare, and Medicaid.

Regions include:

- Baltimore Metro (Anne Arundel, Baltimore, Baltimore City, Harford, Howard)
- Eastern/Southern Maryland (Calvert, Caroline, Cecil, Charles, Dorchester, Kent, Queen Anne’s, Saint Mary’s, Somerset, Talbot, Wicomico, Worcester)
- DC Metro (Montgomery, Prince George’s)
- Western Maryland (Allegany, Carroll, Frederick, Garrett, Washington)

Note: Share of Z codes by region was calculated using total claims by category and all combined for each year as the denominator. The total column for all regions presents the share of Z codes using total claims for each year as the denominator (white cells) and total share of all Z codes using total claims for the entire period (2021-2023) as the denominator (yellow cells). Calculations are presented as a percentage share (%).

LIMITATIONS

Data obtained from the Maryland All Payer Claims Database excludes self-insured ERISA health plans and does not enable comparison across states. Data was unavailable for Kaiser for 2021 and 2022, and Medicare and Medicaid for 2023; 2024 data was not available at the time of this analysis.¹¹ Summarized data is for informational purposes. In addition to general infrequent use of Z codes, data are not representative of individuals with social needs who are more likely to experience barriers to care.

⁶ Centers for Medicare and Medicaid Services. *Utilization of Z Codes for Social Determinants of Health among Medicare Fee-for-Service Beneficiaries*, 2019, September 2021. Available at: www.cms.gov/files/document/z-codes-data-highlight.pdf.

⁷ LexisNexis Risk Solutions. *Z-Code Utilization Trends*. Available at: risk.lexisnexis.com/-/media/files/healthcare/research/lhrs_insights-brief-z-code-utilization-trends%20pdf.pdf.

⁸ Hospitals must report measures annually via the Hospital Quality Reporting system; measure 1 requires reporting the denominator (inpatients) and numerator (those screened), while measure 2 involves submitting rates for five domains. Hospitals are permitted to use various data sources including claims, clinical records, assessments, or surveys.

⁹ MLM Matters. *Annual Wellness Visit: Social Determinants of Health Risk Assessment*, October 2024. Available at: www.cms.gov/files/document/mm13486-annual-wellness-visit-social-determinants-health-risk-assessment.pdf.

¹⁰ Medicare Advantage data is available for all years and not included in Private Payers.

¹¹ Payers have two months after the close of the quarter to report data to MHCC. More information available here: mhcc.maryland.gov/mhcc/pages/apcd/apcd_mcdb/apcd_mcdb.aspx

Figure 1: Change in Total Number of Z Code Claims, Private Payers

2021-2023

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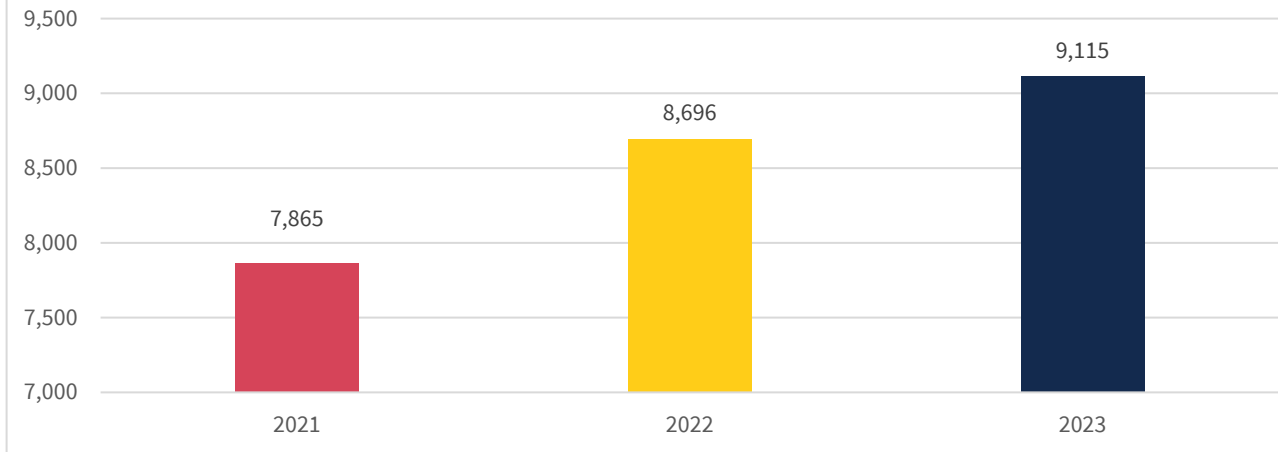


Figure 2: Regional Share of Z Code Claims, All Payers

2021-2023

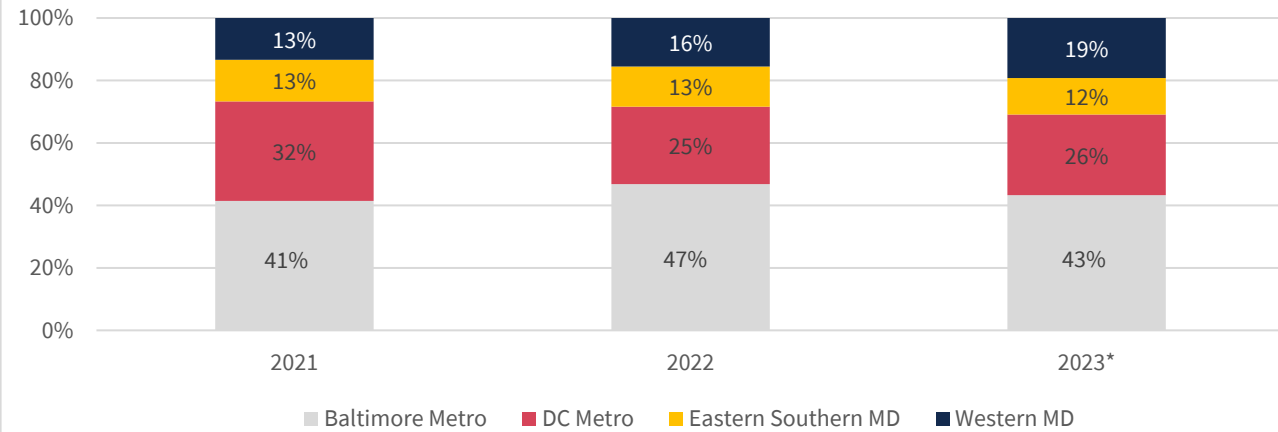
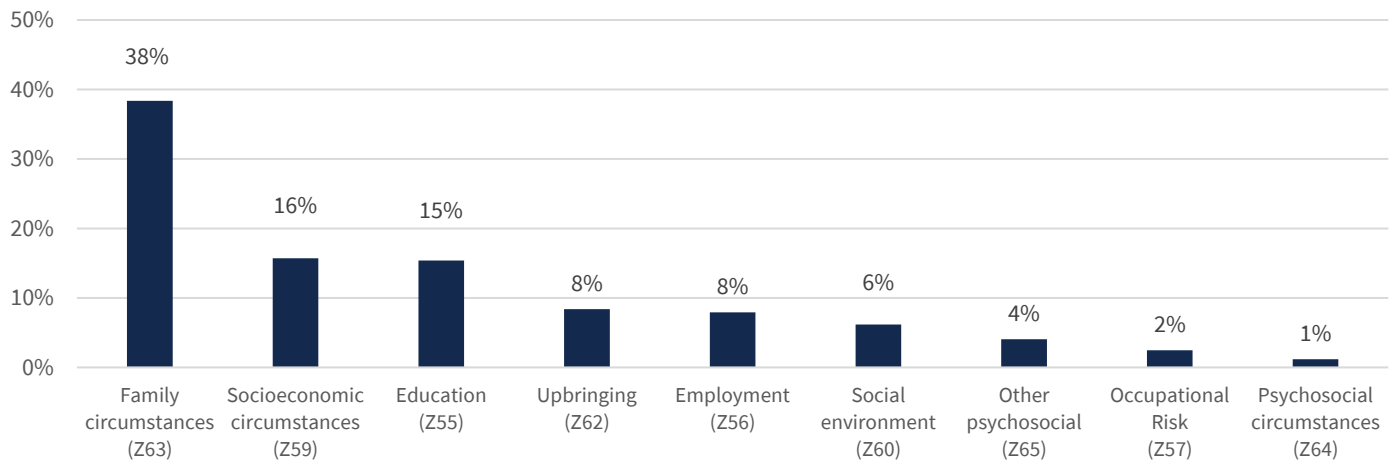


Figure 3: Total Share of Z Code Claims by Category, All Payers

2021-2023



Percentages may not total 100 due to rounding.

Table 1: Regional and Total Share of Z Code Claims by Category, 2021-2023
Persons with potential health hazards related to socioeconomic and psychosocial circumstances – Z55-Z65

Category	Baltimore Metro	DC Metro	Eastern Southern MD	Western MD	Total
	Share of Z Code Claims for Specified Year by Category and Total				Share of Z Code Claims for Specified Year by Category Share of all Z Code Claims 2021-2023
2021					
Education (Z55)	38%	34%	24%	4%	15%
Employment (Z56)	38%	24%	8%	31%	6%
Occupational Risk (Z57)	13%	6%	7%	75%	3%
Socioeconomic circumstances (Z59)	38%	46%	8%	9%	24%
Social environment (Z60)	48%	27%	10%	15%	5%
Upbringing (Z62)	57%	19%	17%	7%	6%
Family circumstances (Z63)	43%	30%	13%	14%	36%
Psychosocial circumstances (Z64)	53%	6%	39%	3%	1%
Other psychosocial (Z65)	49%	20%	18%	13%	4%
Total	41%	32%	13%	13%	45%
2022					
Education (Z55)	40%	31%	23%	5%	16%
Employment (Z56)	47%	19%	6%	27%	7%
Occupational Risk (Z57)	12%	12%	6%	70%	2%
Socioeconomic circumstances (Z59)	58%	12%	9%	20%	9%
Social environment (Z60)	41%	30%	12%	17%	7%
Upbringing (Z62)	74%	10%	9%	8%	12%
Family circumstances (Z63)	41%	32%	12%	16%	40%
Psychosocial circumstances (Z64)	62%	8%	29%	1%	1%
Other psychosocial (Z65)	45%	21%	17%	17%	5%
Total	47%	25%	13%	16%	44%
2023					
Education (Z55)	47%	27%	15%	11%	15%
Employment (Z56)	47%	30%	9%	15%	16%
Occupational Risk (Z57)	25%	8%	31%	36%	2%
Socioeconomic circumstances (Z59)	56%	13%	9%	22%	6%
Social environment (Z60)	54%	13%	12%	21%	9%
Upbringing (Z62)	35%	27%	11%	27%	2%
Family circumstances (Z63)	38%	29%	11%	22%	45%
Psychosocial circumstances (Z64)	56%	20%	0%	24%	0%
Other psychosocial (Z65)	35%	39%	10%	15%	4%
Total	43%	26%	12%	19%	12%

Table 2: Regional and Total Share of Z Code Claims by Subcategory, 2021-2023
Education – Z55

Category	Baltimore Metro	DC Metro	Eastern Southern MD	Western MD	Total
	Share of Z Code Claims for Specified Year by Category and Total				Share of all Z Code Claims 2021-2023 / Share of Z Code Claims for Specified Year by Category
2021					
Education (Z55)	38%	34%	24%	4%	15%
Z55.0 Illiteracy and low-level literacy	43%	36%	14%	7%	3%
Z55.1 Schooling unavailable and unattainable	0%	100%	0%	0%	<1%
Z55.2 Failed school examinations	25%	15%	61%	0%	1%
Z55.3 Underachievement in school	38%	28%	32%	2%	51%
Z55.4 Educational maladjustment and discord with teachers and classmates	53%	18%	29%	0%	1%
Z55.8 Other problems related to education and literacy	39%	49%	7%	5%	10%
Z55.9 Problems related to education and literacy, unspecified	39%	39%	17%	5%	34%
2022					
Education (Z55)	40%	31%	23%	5%	16%
Z55.0 Illiteracy and low-level literacy	61%	21%	5%	13%	3%
Z55.1 Schooling unavailable and unattainable	13%	63%	25%	0%	<1%
Z55.2 Failed school examinations	16%	28%	56%	0%	1%
Z55.3 Underachievement in school	35%	30%	33%	3%	48%
Z55.4 Educational maladjustment and discord with teachers and classmates	38%	35%	27%	0%	1%
Z55.8 Other problems related to education and literacy	42%	41%	11%	6%	14%
Z55.9 Problems related to education and literacy, unspecified	47%	31%	15%	7%	33%
2023					
Education (Z55)	47%	27%	15%	11%	15%
Z55.0 Illiteracy and low-level literacy	51%	31%	11%	7%	4%
Z55.1 Schooling unavailable and unattainable	0%	0%	100%	0%	<1%
Z55.2 Failed school examinations	0%	25%	25%	50%	<1%
Z55.3 Underachievement in school	34%	28%	25%	13%	35%
Z55.4 Educational maladjustment and discord with teachers and classmates	50%	0%	0%	50%	<1%
Z55.8 Other problems related to education and literacy	71%	20%	5%	4%	31%
Z55.9 Problems related to education and literacy, unspecified	37%	32%	15%	16%	30%

**Table 3: Regional and Total Share of Z Code Claims by Subcategory, 2021-2023
Employment (Z56)**

Category	Baltimore Metro	DC Metro	Eastern Southern MD	Western MD	Total
	Share of Z Code Claims for Specified Year by Category and Total				Share of all Z Code Claims 2021-2023 / Share of Z Code Claims for Specified Year by Category
2021					
Employment (Z56)	38%	24%	8%	31%	6%
Z56.0 Unemployment, unspecified	32%	3%	5%	60%	39%
Z56.1 Change of job	69%	13%	9%	9%	1%
Z56.2 Threat of job loss	53%	47%	0%	0%	1%
Z56.4 Discord with boss and workmates	21%	75%	0%	4%	1%
Z56.5 Uncongenial work environment	6%	75%	19%	0%	1%
Z56.6 Other physical and mental strain related to work	41%	37%	9%	13%	53%
Z56.89 Other problems related to employment	63%	32%	3%	3%	2%
Z56.9 Unspecified problems related to employment	38%	17%	17%	28%	3%
2022					
Employment (Z56)	47%	19%	6%	27%	7%
Z56.0 Unemployment, unspecified	54%	4%	2%	40%	41%
Z56.1 Change of job	29%	7%	10%	55%	2%
Z56.2 Threat of job loss	75%	13%	0%	13%	<1%
Z56.4 Discord with boss and workmates	48%	23%	19%	10%	1%
Z56.5 Uncongenial work environment	8%	44%	28%	20%	1%
Z56.6 Other physical and mental strain related to work	44%	32%	8%	16%	49%
Z56.89 Other problems related to employment	50%	12%	7%	31%	3%
Z56.9 Unspecified problems related to employment	39%	22%	14%	24%	3%
2023					
Employment (Z56)	47%	30%	9%	15%	16%
Z56.0 Unemployment, unspecified	83%	10%	1%	6%	18%
Z56.1 Change of job	33%	25%	17%	25%	1%
Z56.2 Threat of job loss	71%	29%	0%	0%	<1%
Z56.4 Discord with boss and workmates	33%	39%	28%	0%	1%
Z56.5 Uncongenial work environment	28%	28%	44%	0%	2%
Z56.6 Other physical and mental strain related to work	39%	34%	9%	17%	71%
Z56.89 Other problems related to employment	47%	21%	8%	25%	3%
Z56.9 Unspecified problems related to employment	26%	40%	20%	14%	5%

**Table 4: Regional and Total Share of Z Code Claims by Subcategory, 2021-2023
Occupational Risk (Z57)**

Category	Baltimore Metro	DC Metro	Eastern Southern MD	Western MD	Total
	Share of Z Code Claims for Specified Year by Category and Total				Share of all Z Code Claims 2021-2023 / Share of Z Code Claims for Specified Year by Category
2021					
Occupational Risk (Z57)	13%	6%	7%	75%	3%
Z57.0 Occupational exposure to noise	24%	9%	46%	22%	6%
Z57.2 Occupational exposure to dust	3%	0%	1%	96%	74%
Z57.31 Occupational exposure to environmental tobacco smoke	65%	20%	2%	13%	5%
Z57.39 Occupational exposure to other air contaminants	23%	23%	37%	17%	2%
Z57.4 Occupational exposure to toxic agents in agriculture	0%	0%	0%	0%	0%
Z57.5 Occupational exposure to toxic agents in other industries	42%	42%	16%	0%	4%
Z57.8 Occupational exposure to other risk factors	62%	8%	0%	31%	1%
Z57.9 Occupational exposure to unspecified risk factor	49%	19%	22%	10%	8%
2022					
Occupational Risk (Z57)	12%	12%	6%	70%	2%
Z57.0 Occupational exposure to noise	5%	5%	88%	3%	4%
Z57.2 Occupational exposure to dust	2%	1%	0%	97%	70%
Z57.31 Occupational exposure to environmental tobacco smoke	46%	54%	0%	0%	9%
Z57.39 Occupational exposure to other air contaminants	4%	0%	33%	63%	2%
Z57.4 Occupational exposure to toxic agents in agriculture	100%	0%	0%	0%	<1%
Z57.5 Occupational exposure to toxic agents in other industries	16%	83%	0%	1%	6%
Z57.8 Occupational exposure to other risk factors	45%	19%	35%	0%	3%
Z57.9 Occupational exposure to unspecified risk factor	56%	19%	19%	5%	6%
2023					
Occupational Risk (Z57)	25%	8%	31%	36%	2%
Z57.0 Occupational exposure to noise	23%	3%	53%	21%	21%
Z57.2 Occupational exposure to dust	29%	3%	6%	62%	11%
Z57.31 Occupational exposure to environmental tobacco smoke	19%	19%	0%	62%	7%
Z57.39 Occupational exposure to other air contaminants	35%	0%	18%	48%	13%
Z57.4 Occupational exposure to toxic agents in agriculture	0%	25%	75%	0%	3%
Z57.5 Occupational exposure to toxic agents in other industries	17%	0%	72%	11%	14%
Z57.8 Occupational exposure to other risk factors	5%	0%	10%	85%	6%
Z57.9 Occupational exposure to unspecified risk factor	34%	19%	15%	32%	27%

**Table 5: Regional and Total Share of Z Code Claims by Subcategory, 2021-2023
Socioeconomic Circumstances (Z59)**

Category	Baltimore Metro	DC Metro	Eastern Southern MD	Western MD	Total
	Share of Z Code Claims for Specified Year by Category and Total				Share of all Z Code Claims 2021-2023 / Share of Z Code Claims for Specified Year by Category
2021					
Socioeconomic circumstances (Z59)	38%	46%	8%	9%	24%
Z59.0 Homelessness	74%	12%	4%	10%	18%
Z59.1 Inadequate housing	38%	14%	12%	37%	4%
Z59.2 Discord with neighbors, lodgers and landlord	79%	4%	1%	16%	1%
Z59.3 Problems related to living in residential institution	42%	25%	24%	9%	3%
Z59.4 Lack of adequate food and safe drinking water	13%	77%	7%	3%	51%
Z59.5 Extreme poverty	93%	5%	0%	2%	1%
Z59.6 Low income	52%	12%	11%	25%	3%
Z59.7 Insufficient social insurance and welfare support	55%	15%	8%	22%	2%
Z59.8 Other problems related to housing and economic circumstances	51%	12%	15%	22%	8%
Z59.9 Problem related to housing and economic circumstances, unspecified	69%	14%	6%	11%	9%
2022					
Socioeconomic circumstances (Z59)	58%	12%	9%	20%	9%
Z59.0 Homelessness	100%	0%	0%	0%	<1%
Z59.1 Inadequate housing	43%	22%	13%	22%	8%
Z59.2 Discord with neighbors, lodgers and landlord	56%	22%	0%	22%	1%
Z59.3 Problems related to living in residential institution	36%	19%	14%	31%	12%
Z59.4 Lack of adequate food and safe drinking water	0%	0%	0%	0%	0%
Z59.5 Extreme poverty	79%	19%	0%	2%	2%
Z59.6 Low income	63%	10%	11%	16%	19%
Z59.7 Insufficient social insurance and welfare support	68%	19%	5%	7%	3%
Z59.8 Other problems related to housing and economic circumstances	0%	0%	0%	0%	0%
Z59.9 Problem related to housing and economic circumstances, unspecified	61%	10%	8%	21%	55%
2023					
Socioeconomic circumstances (Z59)	56%	13%	9%	22%	6%
Z59.0 Homelessness	0%	0%	0%	0%	0%
Z59.1 Inadequate housing	8%	58%	25%	8%	1%
Z59.2 Discord with neighbors, lodgers and landlord	100%	0%	0%	0%	1%
Z59.3 Problems related to living in residential institution	51%	7%	25%	16%	22%
Z59.4 Lack of adequate food and safe drinking water	0%	0%	0%	0%	0%
Z59.5 Extreme poverty	0%	100%	0%	0%	<1%
Z59.6 Low income	71%	3%	5%	21%	27%
Z59.7 Insufficient social insurance and welfare support	28%	56%	17%	0%	2%
Z59.8 Other problems related to housing and economic circumstances	0%	0%	0%	0%	0%
Z59.9 Problem related to housing and economic circumstances, unspecified	51%	18%	4%	27%	46%

**Table 6: Regional and Total Share of Z Code Claims by Subcategory, 2021-2023
Social Environment (Z60)**

Category	Baltimore Metro	DC Metro	Eastern Southern MD	Western MD	Total
	Share of Z Code Claims for Specified Year by Category and Total				Share of all Z Code Claims 2021-2023 / Share of Z Code Claims for Specified Year by Category
2021					
Social environment (Z60)	48%	27%	10%	15%	5%
Z60.0 Problems of adjustment to life-cycle transitions	78%	8%	6%	8%	10%
Z60.2 Problems related to living alone	61%	21%	7%	11%	18%
Z60.3 Acculturation difficulty	61%	35%	1%	3%	6%
Z60.4 Social exclusion and rejection	48%	8%	8%	36%	18%
Z60.5 Target of (perceived) adverse discrimination and persecution	21%	35%	26%	18%	4%
Z60.8 Other problems related to social environment	23%	58%	11%	9%	22%
Z60.9 Problems related to social environment, unspecified	50%	21%	14%	14%	23%
2022					
Social environment (Z60)	41%	30%	12%	17%	7%
Z60.0 Problems of adjustment to life-cycle transitions	27%	23%	28%	23%	8%
Z60.2 Problems related to living alone	61%	19%	7%	14%	19%
Z60.3 Acculturation difficulty	37%	57%	0%	6%	2%
Z60.4 Social exclusion and rejection	36%	12%	12%	40%	15%
Z60.5 Target of (perceived) adverse discrimination and persecution	19%	47%	25%	10%	6%
Z60.8 Other problems related to social environment	35%	43%	7%	14%	19%
Z60.9 Problems related to social environment, unspecified	45%	33%	13%	9%	31%
2023					
Social environment (Z60)	54%	13%	12%	21%	9%
Z60.0 Problems of adjustment to life-cycle transitions	18%	39%	10%	34%	7%
Z60.2 Problems related to living alone	55%	21%	13%	11%	9%
Z60.3 Acculturation difficulty	16%	79%	5%	0%	2%
Z60.4 Social exclusion and rejection	73%	3%	8%	15%	48%
Z60.5 Target of (perceived) adverse discrimination and persecution	58%	8%	8%	25%	1%
Z60.8 Other problems related to social environment	17%	12%	20%	51%	17%
Z60.9 Problems related to social environment, unspecified	57%	19%	18%	6%	16%

**Table 7: Regional and Total Share of Z Code Claims by Subcategory, 2021-2023
Upbringing (Z62)**

Category	Baltimore Metro	DC Metro	Eastern Southern MD	Western MD	Total
	Share of Z Code Claims for Specified Year by Category and Total				Share of all Z Code Claims 2021-2023 / Share of Z Code Claims for Specified Year by Category
2021					
Upbringing (Z62)	57%	19%	17%	7%	6%
Z62.0 Inadequate parental supervision and control	58%	42%	0%	0%	1%
Z62.1 Parental overprotection	88%	5%	5%	3%	2%
Z62.21 Child in welfare custody	61%	16%	17%	6%	51%
Z62.22 Institutional upbringing	100%	0%	0%	0%	<1%
Z62.6 Inappropriate (excessive) parental pressure	14%	0%	0%	86%	<1%
Z62.810 Personal history of physical and sexual abuse in	45%	26%	22%	7%	22%
Z62.811 Personal history of psychological abuse in childhood	36%	34%	28%	2%	1%
Z62.812 Personal history of neglect in childhood	39%	19%	25%	17%	4%
Z62.819 Personal history of unspecified abuse in childhood	38%	32%	24%	6%	5%
Z62.822 Parent-foster child conflict	92%	8%	0%	0%	7%
Z62.891 Sibling rivalry	36%	26%	38%	0%	1%
Z62.898 Other specified problems related to upbringing	50%	11%	15%	24%	6%
2022					
Upbringing (Z62)	74%	10%	9%	8%	12%
Z62.0 Inadequate parental supervision and control	44%	22%	0%	33%	<1%
Z62.1 Parental overprotection	21%	0%	50%	29%	<1%
Z62.21 Child in welfare custody	60%	17%	15%	8%	33%
Z62.22 Institutional upbringing	100%	0%	0%	0%	<1%
Z62.6 Inappropriate (excessive) parental pressure	0%	0%	0%	0%	0%
Z62.810 Personal history of physical and sexual abuse in	50%	21%	18%	12%	12%
Z62.811 Personal history of psychological abuse in childhood	42%	10%	44%	4%	1%
Z62.812 Personal history of neglect in childhood	14%	58%	3%	25%	1%
Z62.819 Personal history of unspecified abuse in childhood	46%	8%	5%	40%	3%
Z62.822 Parent-foster child conflict	99%	0%	0%	0%	44%
Z62.891 Sibling rivalry	43%	36%	13%	8%	1%
Z62.898 Other specified problems related to upbringing	32%	6%	16%	47%	3%

**Table 7 cont: Regional and Total Share of Z Code Claims by Subcategory, 2021-2023
Upbringing (Z62)**

Category	Baltimore Metro	DC Metro	Eastern Southern MD	Western MD	Total
	Share of Z Code Claims for Specified Year by Category and Total				Share of all Z Code Claims 2021-2023 / Share of Z Code Claims for Specified Year by Category
2023					
Upbringing (Z62)	35%	27%	11%	27%	2%
Z62.0 Inadequate parental supervision and control	100%	0%	0%	0%	<1%
Z62.1 Parental overprotection	0%	100%	0%	0%	1%
Z62.21 Child in welfare custody	19%	35%	8%	38%	12%
Z62.22 Institutional upbringing	0%	0%	0%	0%	0%
Z62.6 Inappropriate (excessive) parental pressure	0%	0%	0%	0%	0%
Z62.810 Personal history of physical and sexual abuse in	46%	34%	14%	6%	30%
Z62.811 Personal history of psychological abuse in childhood	0%	100%	0%	0%	1%
Z62.812 Personal history of neglect in childhood	9%	45%	0%	45%	4%
Z62.819 Personal history of unspecified abuse in childhood	74%	9%	16%	0%	14%
Z62.822 Parent-foster child conflict	100%	0%	0%	0%	<1%
Z62.891 Sibling rivalry	7%	43%	27%	23%	10%
Z62.898 Other specified problems related to upbringing	23%	12%	5%	60%	28%

**Table 8: Regional and Total Share of Z Code Claims by Subcategory, 2021-2023
Family Circumstances (Z63)**

Category	Baltimore Metro	DC Metro	Eastern Southern MD	Western MD	Total
	Share of Z Code Claims for Specified Year by Category and Total				Share of all Z Code Claims 2021-2023 / Share of Z Code Claims for Specified Year by Category
2021					
Family circumstances (Z63)	43%	30%	13%	14%	36%
Z63.0 Problems in relationship with spouse or partner	49%	22%	9%	20%	6%
Z63.4 Disappearance and death of family member	46%	28%	14%	12%	40%
Z63.5 Disruption of family by separation and divorce	52%	19%	15%	14%	9%
Z63.6 Dependent relative needing care at home	47%	25%	15%	13%	9%
Z63.72 Alcoholism and drug addiction in family	38%	27%	19%	17%	2%
Z63.8 Other specified problems related to primary support group	35%	39%	11%	15%	34%
2022					
Family circumstances (Z63)	41%	32%	12%	16%	40%
Z63.0 Problems in relationship with spouse or partner	39%	29%	7%	25%	8%
Z63.4 Disappearance and death of family member	46%	23%	14%	17%	39%
Z63.5 Disruption of family by separation and divorce	49%	21%	14%	17%	8%
Z63.6 Dependent relative needing care at home	48%	24%	9%	19%	10%
Z63.72 Alcoholism and drug addiction in family	28%	23%	11%	37%	1%
Z63.8 Other specified problems related to primary support group	31%	48%	10%	11%	33%
2023					
Family circumstances (Z63)	38%	29%	11%	22%	45%
Z63.0 Problems in relationship with spouse or partner	33%	33%	8%	25%	12%
Z63.4 Disappearance and death of family member	41%	24%	12%	23%	41%
Z63.5 Disruption of family by separation and divorce	37%	31%	8%	24%	11%
Z63.6 Dependent relative needing care at home	41%	23%	12%	24%	14%
Z63.72 Alcoholism and drug addiction in family	24%	18%	8%	50%	1%
Z63.8 Other specified problems related to primary support group	34%	39%	12%	15%	21%

**Table 9: Regional and Total Share of Z Code Claims by Subcategory, 2021-2023
Psychosocial Circumstances (Z64)**

Category	Baltimore Metro	DC Metro	Eastern Southern MD	Western MD	Total
	Share of Z Code Claims for Specified Year by Category and Total				Share of all Z Code Claims 2021-2023 / Share of Z Code Claims for Specified Year by Category
2021					
Psychosocial circumstances (Z64)	53%	6%	39%	3%	1%
Z64.0 Problems related to unwanted pregnancy	71%	18%	12%	0%	9%
Z64.1 Problems related to multiparity	51%	4%	41%	3%	91%
Z64.4 Discord with counselors	0%	0%	0%	0%	0%
2022					
Psychosocial circumstances (Z64)	62%	8%	29%	1%	1%
Z64.0 Problems related to unwanted pregnancy	66%	22%	10%	2%	15%
Z64.1 Problems related to multiparity	61%	6%	32%	1%	84%
Z64.4 Discord with counselors	60%	0%	40%	0%	1%
2023					
Psychosocial circumstances (Z64)	56%	20%	0%	24%	0%
Z64.0 Problems related to unwanted pregnancy	72%	20%	0%	8%	61%
Z64.1 Problems related to multiparity	31%	19%	0%	50%	39%
Z64.4 Discord with counselors	0%	0%	0%	0%	0%

**Table 10: Regional and Total Share of Z Code Claims by Subcategory, 2021-2023
Other Psychosocial (Z65)**

Category	Baltimore Metro	DC Metro	Eastern Southern MD	Western MD	Total
	Share of Z Code Claims for Specified Year by Category and Total				Share of all Z Code Claims 2021-2023 / Share of Z Code Claims for Specified Year by Category
2021					
Other psychosocial (Z65)	49%	20%	18%	13%	4%
Z65.0 Conviction in civil and criminal proceedings without imprisonment	67%	0%	0%	33%	<1%
Z65.1 Imprisonment and other incarceration	47%	29%	16%	8%	2%
Z65.2 Problems related to release from prison	44%	0%	56%	0%	<1%
Z65.3 Problems related to other legal circumstances	49%	9%	13%	30%	25%
Z65.4 Victim of crime and terrorism	63%	21%	8%	8%	1%
Z65.5 Exposure to disaster, war and other hostilities	75%	0%	0%	25%	<1%
Z65.8 Other specified problems related to psychosocial circumstances	49%	24%	20%	7%	70%
2022					
Other psychosocial (Z65)	45%	21%	17%	17%	5%
Z65.0 Conviction in civil and criminal proceedings without imprisonment	0%	0%	0%	0%	0%
Z65.1 Imprisonment and other incarceration	42%	28%	20%	9%	3%
Z65.2 Problems related to release from prison	100%	0%	0%	0%	1%
Z65.3 Problems related to other legal circumstances	34%	14%	4%	48%	24%
Z65.4 Victim of crime and terrorism	76%	17%	7%	0%	1%
Z65.5 Exposure to disaster, war and other hostilities	27%	0%	0%	73%	<1%
Z65.8 Other specified problems related to psychosocial circumstances	49%	23%	22%	6%	71%
2023					
Other psychosocial (Z65)	35%	39%	10%	15%	4%
Z65.0 Conviction in civil and criminal proceedings without imprisonment	0%	0%	0%	0%	0%
Z65.1 Imprisonment and other incarceration	100%	0%	0%	0%	<1%
Z65.2 Problems related to release from prison	0%	0%	0%	0%	0%
Z65.3 Problems related to other legal circumstances	29%	50%	7%	14%	9%
Z65.4 Victim of crime and terrorism	17%	83%	0%	0%	5%
Z65.5 Exposure to disaster, war and other hostilities	0%	0%	100%	0%	<1%
Z65.8 Other specified problems related to psychosocial circumstances	37%	36%	11%	16%	86%