



ARTICLE

The faceless and vulnerable other – the visual portrayal of older people on German online news sites within the context of the COVID-19 pandemic

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Abstract

Recent studies provide evidence that the coverage of older people's issues in the mass media during the COVID-19 pandemic was accompanied by a (re-)emergence of negative stereotypes surrounding the question of age. However, these studies primarily relied on written materials. As visual imagery has the power to attract greater attention than words, this study set out to investigate the visual portrayal of older adults in the mass media. Via web crawling, we identified a total of 3,560 articles with keywords such as 'older adults' and 'COVID-19 pandemic' in the four most popular online news sites in Germany during the first phase of the pandemic. We applied visual content analysis to assess the frequency of a diverse set of characteristics of older adults in the cover photos of the articles in question (N = 604). Older individuals were most often depicted as physically weak, alone, professionally taken care of, passive, living at home or in a nursing home, and cognitively inactive. The images – mostly of female passing persons – were characterised by a stereotypical presentation that evokes distance to the subject by cropping out any faces. Our results reflect findings on the negative media representation of older adults as homogeneously vulnerable in verbal materials during the COVID-19 pandemic in contrast to increasingly diverse representations in pre-pandemic times. This stereotypical misrepresentation of older adults can be interpreted as visual ageism, which is amplified by their visual othering. Our findings demonstrate the need for the media to reflect upon these practices as negative age stereotypes have an impact on mental health for people of all ages.

Keywords: ageism; media representation; visual content analysis; photographs

Introduction

Individuals' conceptions about older people, old age and their own ageing are always embedded in historical, cultural and social contexts (Kornadt *et al.*, 2019). While the specific features ascribed to older adults change over time, a recent study (Ng *et al.*, 2021) reveals that societal narratives surrounding ageing have become more negative over the last centuries across multiple media genres. Of the institutions reflecting and producing narratives on ageing, mass media remains the most important (Rožanova *et al.*, 2006; Loos and Ivan, 2018). The media have a gatekeeping role able to actively shape public reality (Evans, 1997). When stereotypical representations of older adults are repeatedly selected by the media, they contribute to a normalisation of stereotypes, potentially causing negative effects on people's wellbeing (Levy, 2009; Meisner and Levy, 2016).

During the COVID-19 pandemic, media stories shone a spotlight on old age and older adults in the face of their increased risk of severe illness, hospitalisation and death (*e.g.* Centers for Disease Control and Prevention, 2021). The media also focused on measures designed to contain the disease in the older population, such as bans on visitors to long-term care facilities (Martins Van Jaarsveld, 2020). The literature provides preliminary evidence that this increased coverage in the mass media was accompanied by a (re-)emergence of negative stereotypes about older age (Bravo-Segal and Villar, 2020; Allen and Ayalon, 2021; Allen *et al.*, 2021; Köttl *et al.*, 2022; Lagacé *et al.*, 2021; Morgan *et al.*, 2021; Zhang and Liu, 2021; Yang *et al.*, *in press*). However, these studies primarily relied on published written materials. Despite the power of visual imagery to shape individual and societal views on ageing, to date, no study has systematically investigated the *visual* representation of older adults in the media. Specifically, images are the primary access point to published texts and therefore have a significant influence on how topics are framed in the media (Garcia and Stark, 1991). According to framing theory (Entman, 1993), journalists highlight certain aspects of the issues they are covering, thereby promoting a particular interpretation. Thus, the media framing of a global crisis such as the COVID-19 pandemic may have a significant impact on the public's responses to and understanding of the pandemic. Visual content is processed faster, demands a smaller cognitive load and is easier to recall than the written content of articles (Dan, 2018). Thus, in overwhelming times (such as the COVID-19 pandemic), visual frames exert a particular power. Further, due to the unconscious processing of visual content, stereotypes – including those about age – are less obvious than when they appear in verbal content (Messaris and Abraham, 2001).

With this in mind, this study is the first to examine how older people were portrayed visually in the German mass media during the first year of the COVID-19 pandemic. Specifically, a quantitative content analysis of cover photos on the four most popular online news sites in Germany published during the first phase of the pandemic was conducted to understand the visual portrayal of older adults. Visual content analysis is a popular method for examining the visual imagery of older people in the media (*e.g.* Simcock and Linn, 2006; Roy and Harwood, 1997; Kessler *et al.*, 2010; Kessler and Schwender, 2012; Xu, 2022). Online media publications were chosen as they have gained enormous significance in

recent years, particularly during the pandemic, as demonstrated by the rise in Germany of subscriptions to the digital editions of news magazines such as *Der Spiegel* and *Bild* (Newman *et al.*, 2021). Germany has one of the oldest populations in the world; in Germany, the highest percentage of COVID-19-related deaths occurred among individuals aged 80+ (Federal Statistical Office of Germany, 2021). The pandemic itself may have also directly impacted journalistic practices regarding older people: while interest in visually mapping the lived reality of life during the COVID-19 pandemic may have increased, measures such as physical distancing concomitantly hampered photographing people, thus limiting the image material available for news stories.

The portrayal of older adults in the German media is in line with its Western counterparts: they are hardly visible, especially women and the oldest-old (Röhr-Sendlmeier and Ueing, 2004; Hoppe *et al.*, 2016; Myrczik *et al.*, 2022), while one-sided negative images (Ueltzhöffer, 1992; Femers, 2007; Wangler, 2013) are increasingly complemented by extraordinarily positive portrayals in advertisements and television (Kessler *et al.*, 2004; Röhr-Sendlmeier and Ueing, 2004; Kessler *et al.*, 2010; Wangler, 2012; Hoppe *et al.*, 2016), even among those individuals experiencing dementia (Kessler and Schwender, 2012). The period between 1 January 2020 and 31 January 2021 was chosen for this study, to coincide with the beginnings of global coverage of the pandemic. One year later, infection numbers were decreasing after the spikes in mid-December 2020, which coincided with the second wave of the COVID-19 pandemic in Germany (Schilling *et al.*, 2021).

Gerontological research on media representations of older adults (before and during the pandemic)

The empirical literature on media representations in magazines, newspapers, television series and advertising (produced before the COVID-19 pandemic) has consistently shown that older people, especially women and the oldest-old, are heavily underrepresented (Zhang *et al.*, 2006; Rozanova, 2010; Bai, 2014; Ylänne, 2015). Demographic ageing has typically been portrayed as a major societal threat ('grey tsunami') (O'Neil and Haydon, 2015), along with frailty, dependency and loneliness (Loos and Ivan, 2018). In the case of older individuals in television commercials and advertisements, most studies have consistently characterised their portrayal as active, happy, strong and well-integrated (Swayne and Greco, 1987; Featherstone and Hepworth, 1995; Roy and Harwood, 1997; Kessler *et al.*, 2010; Williams *et al.*, 2010), and cognitively alert (Kessler *et al.*, 2004). There are also gendered aspects of ageing in the media wherein positive attitudes are more often ascribed to individuals read as male than female (Hurd *et al.*, 2014; Kovács *et al.*, 2021), who are, in turn, depicted as vulnerable (Kessler *et al.*, 2004; Wells, 2007; Kessler and Schwender, 2012; Pritchard and Whiting, 2015). While raising awareness of the capabilities and agency of older people, an overly positive representation tends to disguise both age-related challenges and the heterogeneity of the age group as a whole (Ylänne, 2015; Markov and Yoon, 2021).

Internationally, many studies have investigated the portrayal of older adults in the media during the COVID-19 pandemic with a primary focus on verbal

materials. Analyses have found evidence of their portrayal as frail, vulnerable and dependent (Bravo-Segal and Villar, 2020; Allen and Ayalon, 2021; Yang *et al.*, in press), being depressed, alone, living in care homes, as passive non-contributors to society (Bravo-Segal and Villar, 2020; Allen and Ayalon, 2021; Allen *et al.*, 2021; Lagacé *et al.*, 2021; Morgan *et al.*, 2021; Zhang and Liu, 2021), being isolated in their homes (Allen *et al.*, 2021) and cognitively impaired (Köttl *et al.*, 2022). Next to these overall homogeneously loss-oriented representations, one study also found a number of nuanced portrayals of older adults, as well as overly positive portrayals of young-old healthy contributors to society (Köttl *et al.*, 2022). To the best of our knowledge, the only study of visual content pertinent to the media representation of older adults during the COVID-19 pandemic is a study on the visual presentation of social groups in Finnish newspapers during its early stages, from January to August 2020 (Martikainen and Sakki, 2021). Portrayals differed between age groups, with older adults presented exclusively as faceless, lonely and isolated behind windows or on balconies.

Visual imagery of older adults from the perspective of communication studies

Photographs are not a reproduction of reality but composed by the photographer, who presents a particular point-of-view to the viewer (Burgin, 1982). Given that images are mostly processed unconsciously, the photographer's choices in terms of composition are rendered almost invisible to the viewer. Nonetheless, variations in camera distance or focus are unconsciously unpacked and assigned similar meanings by different people (Coleman, 2010). Variations in camera distance affect how close the person depicted is portrayed socially as well as spatially (Dan, 2018: 20). Long shots (*i.e.* whole body) indicate social distance as viewers are unable to discern the individual features of the person photographed; medium shots (*i.e.* upper half of the body) are neutral in terms of social distance, while closer distances (head and shoulders) and close-ups convey a greater level of intimacy to the viewer (Grabe and Bucy, 2009). Faces, in particular, are perceived most positively by audiences, with greater agency and competence (Archer *et al.*, 1983; Konrath and Schwarz, 2007), as well as a willingness to act (Slovic, 2007) ascribed to the individuals in the images. Further, different points of view convey different levels of social engagement to the person depicted. While a frontal perspective engages the viewer, the back view of a body can lead to greater detachment between viewer and subject (Kress and van Leeuwen, 1996).

Moreover, certain bodily characteristics are often interpreted in stereotypical ways (Hall, 1976). Specifically, the more stereotypes present in a person's individual features, the more that person is read as a specific type (Jewitt and Oyama, 2012). When detailed shots focus on specific body parts, they can be considered a *pars pro toto* for the person themselves. Thus, the symbolism ascribed to a respective body part is then ascribed to the entire person. In a recent study, older adults were found to be primarily portrayed visually through their hands or legs and feet (Martikainen and Sakki, 2021), which prominently featured the cues of old age – wrinkles, age spots, or restrictions in autonomy and mobility. Nonetheless, a detail shot of an upper arm receiving a vaccine might be drawing attention to a major symbol of the pandemic – vaccinations – rather than being an old age clue.

Current study

Drawing on the most popular German online news sites (*i.e.* bild.de, t-online.de, n-tv.de and spiegel.de), this study is the first to examine how older adults were portrayed visually in the media during the first phase of the COVID-19 pandemic in Germany (from the beginning of global media coverage of the pandemic in January 2020 to the end of the country's second pandemic wave one year later). By applying visual quantitative content analysis, we assessed and integrated indicators from both gerontology and communication studies to generate a thorough description of the visual representation of older people during this exceptional historical moment. To do so, we examined the frequency of a diverse set of characteristics of older individuals in the $N = 604$ cover photos of articles identified through the keywords 'older people' and 'COVID-19 pandemic' (as well as synonyms) published in the four major German online news sites between 1 January 2020 and 31 January 2021.

We expected the visual representation of older adults in our sample to match the results of analyses of verbal materials during the COVID-19 pandemic. Specifically, integrating the literature described above from gerontology and communication science, we derived the following hypotheses:

- Hypothesis 1: Given the generally one-sided, negative stereotypical depictions in verbal materials, we expected to find a high frequency of portrayals of high social distance and detachment between older individuals and the viewer, *i.e.* visual images that included the back of the body or the whole body; further, we expected a low frequency of visible faces and a high frequency of individual body parts of older people.
- Hypothesis 2: Additionally, we expected to find a high frequency of portrayals of vulnerable, sad, cognitively inactive, passive, frail and care-dependent older individuals in a care setting or at home.
- Hypothesis 3: In alignment with this hypothesis and contrary to earlier findings of the drastic underrepresentation of older women, we further expected to see a high number of older individuals passing as female or androgynous, emphasising the vulnerability of older people.
- Hypothesis 4: Lastly, given the visual segregation of older adults in the COVID-19 pandemic, we expected a high number of images that emphasised the physical distance between the viewer and any older individuals depicted to denote their isolation and thereby strengthen the focus on the vulnerable status of older adults.

Methods

Sample procedure

Data were collected by web scraping all articles published on Germany's most clicked online news sites, namely bild.de (427 million clicks), t-online.de (392 million clicks), n-tv.de (215 million clicks) and spiegel.de (245 million clicks) (Informationsgemeinschaft zur Feststellung der Verbreitung von Werbeträgern, 2020) in the period between 1 January 2020 and 31 January 2021. Each article's

cover photo was identified either by being the only one, or in the case of multiple photographs, by having the highest resolution, as identified by the web scrape (*i.e.* the most central photograph). The sample also included images of older individuals in articles behind the paywall of those outlets that do not provide all articles for free to readers: Spiegel.de and bild.de. Although primarily chosen for their reach, the websites in question also offer some variety. While bild.de is the online outlet of the tabloid *Bild*, which has the highest readership in Germany, spiegel.de is the online outlet of the left-centre news magazine *Der Spiegel*. The two other outlets provide a mix of news and entertainment: t-online.de is a news outlet published by the multi-channel media agency Ströer and n-tv.de is owned by the media conglomerate Bertelsmann.

Generating the sample of articles

The articles were filtered with keywords specific to older adults AND the COVID-19 pandemic: (a) 'ältere' [older], 'ältere Menschen' [older people], 'hochbetagt' [aged], 'hochaltrige' [very old], 'Pflegeheimbewohner' [nursing home resident(s)], 'Senioren' [seniors], 'Seniorenheim' [old age home], 'Altenheimbewohner' [retirement home residents], 'Pflegeheim' [nursing home], 'Altenheim' [retirement home], 'Großeltern' [grandparents], 'Großmutter' [grandmother], 'Großvater' [grandfather], 'Rentner' [retirees], AND (b) 'Corona' [corona], 'COVID-19' [COVID-19], 'Pandemie' [pandemic] in central parts of the article headline OR sub-line OR skyline OR image sub OR intro, resulting in $N = 3,560$.

Selecting the sample of cover photos from the sample of articles

From the total number of $N = 3,560$ cover photos from this sample, two independent judges (female, 22 years; male, 65 years) selected the cover photos that depicted at least one older individual, 65 years or older. In a pilot study, differentiating within this age group into 'young olds' (65–80 years) and 'old olds' (80+ years), as done in some previous studies (*e.g.* Kessler *et al.*, 2010), proved to be too difficult to judge.

Selecting the sample of older individuals from the sample of cover photos

As photographs can show more than one person, we instructed judges to base their assessment on one index individual as indicated in the photographs (defined as being closest to camera if identifiable, otherwise, the person taking up the most space) that the second author had identified in advance. Photographs of older celebrities ($N = 334$) were excluded. In order to be categorised as a celebrity, the judges needed to identify the character's name and whether this person had a Wikipedia entry, since they might be primarily perceived by other characteristics than their chronological age. The interrater reliability on both coding categories (*i.e.* index individual and celebrity) was almost perfect: Cohen's $\kappa = 0.84$. The raters discussed differences in their coding until they reached a consensus. This procedure resulted in $N = 604$ photographs, including ones that appeared multiple times, in order to cover the quantity of depictions of older adults.

A total of 53 photographs (8.8%) appeared multiple times, accounting for 44.7 per cent ($N = 270$) of the total sample. The three photographs used most often were used 46 times (Figure 1), 27 times (Figure 2) and 24 times (Figure 3). Most



Figure 1. The most used photograph in the sample.
Source: Picture Alliance/dpa/Oliver Berg.



Figure 2. The second most used photograph in the sample.
Source: Picture Alliance/dpa/Christoph Schmidt.



Figure 3. The third most used photograph in the sample.
Source: Picture Alliance/dpa/Tom Weller.

photographs came from a newswire database (79.0%; $N = 477$), far fewer from individual photographers (13.1%; $N = 79$) or other sources including the news site's photo archive ($N = 38$). (It should be noted that no information was available on whether the image was taken before or during the COVID-19 pandemic.)

Indicator coding procedure (visual content analysis)

Six trained and independent judges (all female psychology students, aged between 24 and 52; median = 25.5 years) rated the final sample of $N = 604$ individuals in the cover photos with indicators from gerontology and communication studies (each pair of judges coded a separate set of indicators). Each judge obtained all photographs in high resolution on a separate device, and a coding sheet. We could not rule out that the age and gender of the judges influenced their assessment of the characteristics of the older individuals and therefore decided to employ judges from the same age and gender group with the exception of the group with the 52-year-old judge. However, studies on age stereotypes (*e.g.* Hummert *et al.*, 1994) have shown that young, middle-aged and older adults, as well as women and men, basically share similar representations of old age. We thus believe that ratings from older and male judges will not fundamentally differ from that of our judges. Each pair of judges separately rated a set of indicators and discussed the differences in ratings until they reached a consensus. To avoid stimulating the raters' subjective age biases, they were unaware of the hypotheses of the study.

For the coding of the indicators, the eight judges were trained to apply stipulated definitions for each indicator and were given examples of idealised types for each indicator. The training was based on a manual and lasted six hours. Judges practised rating cover photos not contained in the study until interrater consistency was established. Reliabilities ranged from Cohen's $\kappa = 0.65$ to 0.99. Table 1 displays the reliabilities for all measures.

Table 1. Reliabilities

	κ
Structural indicators:	
Presentation of the body	0.96
Visibility of the face	0.99
Thematic indicators:	
Setting	0.76
Physical state	0.78
Social context	0.81
Social support	0.77
Emotional state	0.79
Pronounced cognitive activity	0.67
Gender	0.65
Physical distance	0.84

Measures

Table 2 gives an overview of the dimensions and categories.

Presentations of the older character's body

The judges coded whether the older individual's body was presented as *total body* (head to toe from the front), *primarily hands*, *primarily vaccination arm*, *primarily back of body* (some part of the body or total body from the back view), *primarily head/shoulders*, *primarily upper body half* (from hip upwards) or *primarily legs/feet*.

Visibility of the older individual's face

The judges coded the *full visibility of face*, *partial visibility of face* or *no visibility of face*. *Full visibility of face* encompassed the face including nose, eyes, mouth and forehead fully visible. *Partial visibility of face* included visible faces that were partly covered or partly visible so that not all elements (nose, mouth, eyes and forehead) were visible. *No information* was coded if the face was not visible (view from the back or no portions of the head visible).

Setting

The judges coded whether an older individual was depicted in a *home setting*, *care setting*, *medical setting*, *public setting*, *testing/vaccination setting* or *other setting*. *Home setting* was coded when private living spaces in the home or in a private garden were visible (highly individualised and/or decorated). *Care setting* included scenes in or outside nursing homes (e.g. rooms or hallways, little decoration, standardised furniture, possible care-givers visible). *Medical setting* was dominated by medical equipment (e.g. clean rooms, hospital beds, medical professionals), yet also outside the hospital (hospital building and/or park clearly identifiable due to signage). *Public setting* included open-air settings (parks, lakes, etc.) as well as spaces accessible to the public (supermarket, restaurant, public transportation) or public buildings (police, courthouse). *Testing/vaccination setting* included all testing or vaccination scenes, possibly showing an injection in the upper arm, or a swab. *Other settings* did not fit one of the settings described above and included occupational (offices) or recreational indoor settings (musical lessons, painting, etc.). *No information* was coded if a setting was not clearly identifiable (blurry background, extreme close-up, etc.).

Physical state

The judges coded whether the older individual's physical state was *weak*, *medium* or *strong*. *Weak* physical state included restricted mobility, frailty (e.g. bent forward, bedridden, also detail shots of hands without any activity), being in need of care (i.e. supported by another person or a walker, pushed in a wheelchair). *Medium* included states that were neither powerless nor energetic, while *strong* included being fit, active and energetic (e.g. exercising, dynamic walking). *No information* was coded if the physical state was not clearly identifiable (extreme close-up or detail shot).

Table 2. Frequency distribution across coding categories

Variable	Categories	%
Presentation of the body ¹	Hands	19.9
	Vaccinated upper arm	1.0
	Back of the body	19.7
	Head/shoulders	9.8
	Upper body	24.5
	Legs/feet	9.9
	Total body	15.2
Visibility of the face ¹	Completely visible	20.2
	Partially visible	19.0
	Not visible	60.8
Setting ¹	Home setting	10.3
	Care setting	35.9
	Medical setting	4.3
	Public setting	16.6
	Other settings	2.8
	Vaccination or testing setting	12.3
	No information	20.4
Physical state ¹	Weak	54.6
	Medium	30.8
	Strong	3.1
	No information	11.4
Social context ¹	Alone	26.0
	Primarily private context	15.7
	Primarily professional context	30.1
	Private and professional context	6.8
	No information	21.4
Social support ²	Receiving support	46.5
	Giving support	0.9
	Reciprocal support	0.00
	Companionship	25.3
	Neutral	5.1
	No information	22.2
Emotional state ¹	Negative	2.3
	Neutral	12.6

(Continued)

Table 2. (Continued.)

Variable	Categories	%
Pronounced cognitive activity ¹	Positive	13.2
	No information	71.9
	Visible	3.1
	Not visible	41.9
	No information	55.0
Gender ¹	Passing as female	47.5
	Passing as male	25.2
	Androgynous	3.8
	No information	23.5
Physical distance ²	Physical distance	11.2
	Window/balcony visits	4.2
	No physical distance	76.3
	No information	8.3

Notes: 1. N = 604. 2. N = 447 (without individuals depicted 'alone').

Social context

The judges coded whether the older individual was *alone*, *primarily in a private social context*, *primarily in a professional care context* or in a *private social and professional care context*. *Alone* included only the older individual in the photograph. *Primarily private social context* included scenes with the older individual among family member(s) and/or friend(s), or another person who was not care or medical personnel. *Primarily professional care context* included scenes in which the older individual depicted was being taken care of by care-givers or medical personnel. *Private social and professional care context* included scenes of the older individual in a care or medical setting with family members and/or friend(s) or other residents in a nursing home. *No information* was coded if the social context was not clearly identifiable (extreme close-up or detail shot).

Social support

In those cases where the older individual was not coded as alone, the judges coded whether the person *received support*, *gave support*, was engaged in *reciprocal support*, *companionship* or in a *neutral* social interaction. *Received support* entailed material, informational, instrumental or emotional support given to the older individual (*i.e.* being comforted or supported/led by another person; also if the hand is being supported). *Gave support* included the older individual giving material, informational, instrumental or emotional support (*i.e.* explaining something to others, doing volunteer work or comforting another person). *Reciprocal support* entailed instrumental or material reciprocal support (*i.e.* pushing a wheelbarrow, carrying boxes together). *Companionship* included the older individual and another person spending free time together, doing something together (*i.e.* walking together,

spending time including being separated by a window). *Neutral* included the older individual depicted with other person(s), but without visible support, or engaged in a neutral undertaking (*i.e.* waiting at the bus stop without any interaction depicted). *No information* was coded if it was unclear who was giving support to whom (insufficient details).

Emotional state

The judges coded whether a person was in a *negative*, *neutral* or *positive emotional state*. *Negative* emotional states included sadness, worry/anxiety, disgust, despair or anger (*e.g.* tears in eyes, hands in front of the face looking down, frowning, furrowed brows, drooping eyes, lines across forehead). *Positive* emotional state included happiness, love or joy (*e.g.* laugh lines, eyebrows pulled up, head tilted upwards, smile). *Neutral* included states that were neither *negative* nor *positive*. *No information* was coded if the emotional state was not clearly identifiable (no face visible or face primarily covered by a mask).

Pronounced cognitive activity

The judges coded whether the person showed *pronounced cognitive activity* or *no pronounced cognitive activity*. *Pronounced cognitive activity* included scenes in which the person performed an activity that required a high level of mental acuity, including attention, reasoning and planning (*e.g.* playing an instrument, sitting at a laptop, crafting, dialling a number on a mobile phone), while *no pronounced cognitive activity* included no such activity. *No information* included images without (visible) faces or signs of activity.

Gender

The judges coded whether the person passed as *male*, *female* or *androgynous*. *No information* included detail shots without any signifier of gender identity.

Physical distance

In photographs with older individuals and at least another person, the judges coded whether the older individual maintained *physical distance* to the other person, maintained *no physical distance* or maintained *physical distance through windows or on a balcony*. *Physical distance* included scenes with physical distance (*i.e.* visible distance of approximately two metres between the older individual and at least one other person when shopping, going for a walk, sitting apart, greeting by touching feet), while *no physical distance* included scenes in which the older individual and at least one other person were physically close to each other (*e.g.* hugging, sitting next to each other, less than approximately two metres). *Physical distance through windows or on a balcony* included scenes of balcony/window visits (older individual is in home/on a balcony, friend(s)/family member(s) outside the window/balcony), or interactions with a fence between the older individual and the other person. *No information* was coded if the background was too blurry.

Analytical strategy

We used the sample of cover photos (N = 604), including photographs that appeared multiple times, to analyse the older individual's *presentations of the*

body, visibility of the face, setting, physical state, social involvement, gender, emotional state and cognitive activity. For two indicators, namely *social support* and *physical distance*, a reduced sample size ($N = 447$), excluding photographs with older individuals coded as *alone*, was used given that the rating of these indicators required the presence of more than one person. Table 2 gives an overview of the assessed dimensions, the coding categories and the frequency distributions across the categories.

In order to test each hypothesis, chi-square goodness-of-fit tests were undertaken to investigate the frequency distribution of categories across the observable indicators. Specifically, we tested the difference between the observed and the expected frequency for each dimension to identify categories with a higher frequency. We used SPSS (version 25.0, IBM Corp., Armonk, NY, USA) to perform all statistical analyses.

Results

The presentations of older bodies

There were statistically significant differences in the presentation of older bodies: $\chi^2 (6, N = 604) = 161.4, p \leq 0.001$. The upper body of older individuals was portrayed most frequently (24.5%), followed by hands (19.9%), back of the body (19.7%) and the total body (15.2%). Legs and feet (9.9%) and head and shoulders (9.8%) were coded at a similar frequency. In a few photographs, the vaccinated upper arm was coded (1.0%). The detail shot of a wrinkled hand holding on to a walker symbolising an older person is illustrated by Figure 2.

The visibility of older faces

There were statistically significant differences in the frequency of the visibility of the older faces: $\chi^2 (2, N = 604) = 204.5, p \leq 0.001$. In most cover photos, the face of the older individual was not visible (*i.e.* absent information; 60.8%) (as examples, see Figures 1–3). At a similar frequency, the face was partly visible (19.0%) or completely visible (20.2%). Follow-up analyses showed that the differences between no visibility and partial visibility taken together, and completely visible faces, were statistically significant: $\chi^2 (1, N = 604) = 214.5, p \leq 0.001$.

Setting

Judges coded no information in a fifth (20.4%) of cases. There were statistically significant differences in the frequency of settings: $\chi^2 (5, N = 485) = 334.5, p \leq 0.001$. Older individuals were primarily coded within a care setting (35.9%) (Figure 3), followed by a public setting (16.6%), home setting (10.3%) or a testing or vaccination setting (10.3%), rarely a medical setting (4.3%) or other setting (2.8%). Follow-up analyses showed that the differences between care, medical and home settings taken together against all other settings were statistically significant: $\chi^2 (1, N = 481) = 34.5, p \leq 0.001$.

Physical state of the older individuals

In terms of physical state, judges coded no information in a tenth (11.4%) of cases. There were statistically significant differences in frequency in social context:

χ^2 (2, N = 535) = 271.67, $p \leq 0.001$. We found a high frequency of photographs portraying older individuals as physically weak (54.6%), followed by medium physical state (30.8%). A strong physical state was rarely depicted (3.1%). **Figure 2** exemplifies the weak physical state of the older individuals as slightly hunched over and leaning on a walker.

Social context

Regarding social support, judges coded no information in a fifth (21.4%) of cases. There were statistically significant differences in frequency regarding social context: χ^2 (3, N = 475) = 101.6, $p \leq 0.001$. Older individuals were depicted most frequently in a professional care context (30.1%) or alone (26.0%), followed by a primarily private context (15.7%). The combination of private and professional contexts was rarely depicted (6.8%).

Social support

Regarding social support, judges coded no information in a fifth (22.2%) of cases. There were statistically significant differences in frequency in social context: χ^2 (4, N = 447) = 295.49, $p \leq 0.001$. Most frequently, older individuals were depicted as receiving support (46.5%), less frequently in companionship (25.3%), rarely in neutral situations of support (5.1%) or as giving support (0.9%), and never in situations of reciprocal support (0.00%).

Emotional state

Regarding emotional state, judges coded no information in almost three-quarters (71.9%) of cases (among them, 16.9% of older individuals were coded wearing a mask). There were statistically significant differences regarding emotional state: χ^2 (2, N = 170) = 48.3, $p \leq 0.001$. Older individuals were coded similarly often as being in a positive emotional (13.2%) and neutral state (12.6%). Rarely, cover photos showed a negative emotional state (2.3%).

Pronounced cognitive activity

In the case of cognitive activity, judges coded no information in more than half (55.0%) of cases (faces needed to be sufficiently visible). Older individuals were more frequently coded without pronounced cognitive activity (41.9%) than with pronounced cognitive activity (3.1%).

Gender

Regarding gender, judges coded no information in almost a quarter (23.5%) of cases. The gender of the individuals was not distributed equally across the three categories: χ^2 (2, N = 462) = 226.33, $p \leq 0.001$. Older individuals were most frequently coded as passing as female (47.5%), less frequently as passing as male (25.2%) and rarely as androgynous (3.8%). The difference in frequency between passing as female and androgynous taken together and passing as male was statistically significant: χ^2 (1, N = 462) = 226.33, $p \leq 0.001$.

Physical distance

Regarding physical distance, judges coded no information in less than a tenth (8.3%) of cases. The indicator physical distance was not distributed equally across the four categories: $\chi^2(3, N = 447) = 631.39, p \leq 0.001$. Most frequently, older individuals were not portrayed as keeping distance (76.3%), while fewer images portrayed them keeping distance (11.2%), or keeping distance through windows or on balconies (4.2%).

Discussion

At the beginning of the COVID-19 pandemic, scholars from the field of gerontology warned in numerous opinion papers that the pandemic might increase the marginalisation of older adults and lead to a resurgence of ageism in its various guises (for an overview of these opinion papers, see Silva *et al.*, 2021). Researching the media portrayals of older adults in verbal contexts, various studies found they were indeed negatively stereotyped (e.g. Allen *et al.*, 2021; Köttl *et al.*, 2022; Lagacé *et al.*, 2021; Zhang and Liu, 2021) in contrast to the increasingly diverse media representations of older adults in pre-pandemic times (see Yläne, 2015). Our study of older individuals in cover photos (N = 604) on online news sites in Germany during the early period of the COVID-19 pandemic (1 January 2020 to 31 January 2021) echoes and enriches these findings. As described below, our study identified a variety of negative stereotypes and a *visual othering* of older adults in the, for the most part, generic and symbol-heavy photographs. Our analysis reveals that the unique components of the photographs intertwine and reinforce each other into an overall composition that visually frames older adults as an *other*. Specifically, the composition of the photographs visually segregates older adults, who literally rarely face the viewer, conveying little competency and agency, often stereotyped through a selective view of their wrinkled hands and immobile legs (*deindividualisation* and *dehumanisation*). In addition, the photographs uniformly show older adults as vulnerable, dependent and alone (*homogenisation* and *objectification*), thus reinforcing their *othering* by emphasising features negatively associated with the fourth age. This *visual othering* amplifies the overall misrepresentation of older adults in a stereotypical and prejudiced manner – a phenomenon that should be understood as *visual ageism*.

Distanced, disembodied and faceless

As expected in Hypothesis 1, the stereotypical visual portrayal of older adults in articles concerning the COVID-19 pandemic was constructed by a high degree of social distance, selected body parts and the absence of faces. Given that the COVID-19 pandemic was framed as a problem of older people, often segregating the older population from the young (Lichtenstein, 2021), it is not surprising that we found older adults to be visually distanced in the cover photos. The frequent depictions of the back of the body (15.2%) and the whole body (15.2%) visually introduces a social distance to the viewer, consequently separating them from young or supposedly ageless, midlife viewers (van Dyk, 2016). While the most intimate portrayals showing head and shoulders were rare (9.8%), we also found

a less-distant portrayal of older individuals (24.5% upper body) that could point to a benevolent ageism (Vervaecke and Meisner, 2021), which defines older adults as a homogenous risk group for which one has sympathy and which one feels the need to protect. In addition to visually segregating older adults, older bodies are disembodied (Parry, 2010) with the focus on selected body parts (hands: 19.9%; legs and feet: 9.9%), which turns them into stereotypes (Jewitt and Oyama, 2012). With the focus on body parts that highlight physical markers of decline and decay associated with old age (Chivers, 2011), including wrinkles and age spots or restrictions to autonomy depicting legs and feet, older adults are essentialised through features that are negatively associated with the fourth age (Rozanova, 2010; Uotila *et al.*, 2010).

Further, the dramatic absence (60.8%) or partial depiction of faces (19.9%) de-individualises older adults and in turn segregates them further as individual narratives are important for viewers to engage (Bleiker *et al.*, 2013). In contrast, no other age group was portrayed visually in news stories during the COVID-19 pandemic without showing their faces (Martikainen and Sakki, 2021). Given that faces show emotions and personality, they not only create an intimate connection to the viewer but also reflect agency and competence (Archer *et al.*, 1983; Konrath and Schwarz, 2007). In addition to a high frequency of showing only the back view of older individuals' bodies, they are thus characterised as *objects* rather than as subjects with agency. Overall, the faceless stereotyping creates a dehumanising portrayal of older adults (Crimp, 1992; Dan and Ren, 2021).

The stereotype of the vulnerable and dependent old person

Globally, news articles framed older adults as vulnerable, dependent, lonely and in need of care during the COVID-19 pandemic. Our findings indicate – in line with Hypothesis 2 – that news photographs often reflected the representation visually. Specifically, we found portrayals of often physically weak (54.6%) older individuals in need of professional care (30.1%), with limited social interaction (26.0%), receiving support (46.5%), rarely characterised as cognitively active (3.1%), and often portrayed in care settings (35.9%) or at home (10.3%). Older individuals depicted with a care provider, or alone and at home, emphasises dependence and symbolically segregates them from the rest of society (Martikainen and Sakki, 2021), feeding into the ageist narrative of the dependent and lonely older person (Lagacé *et al.*, 2021; Morgan *et al.*, 2021; Zhang and Liu, 2021). While being at home itself can be interpreted in a positive light, as known from studies on advertisements (Swayne and Greco, 1987; Williams *et al.*, 2010), findings on distanced, de-individualised and dehumanising portrayals as well as the overly negative depictions suggest a rather one-sided, negative interpretation. Adding to the stereotypical portrayal of bodies and the absence of faces, their portrayal as weak and in need of care conveys the idea that they are passive objects and targets of others' efforts (Kress and van Leeuwen, 1996; Bell and Milic, 2002), implying a lack of self-determination and social power instead of agency and strength. In congruence with arguments that women are figuratively ascribed to 'decline and demise' (Meyers, 2002: 163), and in line with Hypothesis 3, older individuals were portrayed most frequently as female passing (47.5%).

This representation of older adults does not fully reflect their representation in the German population: only about one-quarter of individuals aged 65+ (26.4%) are in need of care (Federal Statistical Office of Germany, 2021). While the percentage is much higher for people aged 90+ (76.3%), only a minority of older adults in Germany live in long-term care facilities (4% of people aged 65+ and 18% of those aged 80+ years). This number of 80–90-year-old individuals in need of care in a facility is in stark contrast to the large number of photographs in our sample. While feelings of loneliness increased during the COVID-19 pandemic, 76–90-year-old adults did not feel lonelier than 46–55-year-old adults (Huxhold and Tesch-Römer, 2021). Even though older people faced the effects of preventive measures such as social distancing, quarantine and general self-isolation in different settings, including nursing homes and in the community, their lives during the pandemic were as heterogeneous and complex as those of younger age groups (Simonson and Tesch-Römer, 2022). Yet, the visual representations identified in our study ignore the heterogeneity of older adults' lived experiences.

The news stories in our sample centred on the entire older population, yet they primarily focused on negative features attributed to the fourth age. While older women and the oldest-old have been underrepresented in the media (Rožanova, 2010; Yläne, 2015; Myrczik *et al.*, 2022), our findings show that these groups do appear in the media, albeit in the context of vulnerability. We are aware that there is a 'universal ontology of human vulnerability' (Gilleard and Higgs, 2011: 135), wherein people of all ages are vulnerable and thus interdependent, and we, thus, need to be careful about potentially interpreting the dependency of older individuals as inherently negative. However, it is precisely the homogenising portrayal of older individuals as weak, in need of care, alone, rarely providing social support (0.9%) or cognitively active that demands attention. By essentialising older individuals as vulnerable and passive in addition to the lack of intimacy in the visual composition, they are turned into something *other*, separate from a supposedly ageless midlife (van Dyk, 2016). Thus, our findings can be interpreted as a *visual othering* of older adults during the COVID-19 pandemic. From a psychological perspective, othering older adults (Whitfield, 2001; Jonson, 2013) as more vulnerable to the virus than oneself might be interpreted as a form of self-protection when confronted with one's own mortality (Martens *et al.*, 2006) – a possibility that applies to journalists as much as to the rest of society (Kessler, 2020). However, we would like to note that this selection of faceless photographs might also be pragmatic, in response to the need to protect the privacy of older adults in nursing homes (Xu, 2022).

There was one exception to Hypothesis 2: in contrast to our hypothesis, we found few sad portrayals (2.3%) of older individuals, with more images depicting positive (13.2%) or neutral emotional states (12.6%). However, we caution that these results are based on a small percentage of all photographs in which faces were fully visible. Considering the overall negative characteristics attributed to older individuals, this result stood out, even though gerontological studies have previously demonstrated the resilience of older adults during the COVID-19 pandemic (*e.g.* Sterina *et al.*, 2022). One could argue that image editors might have shied away from showing faces with negative emotions, concerned that viewers may feel fear, sadness or disgust (Baberini *et al.*, 2015) and thus not read the article. However, the

positive portrayal of older adults can also be interpreted as hostile and benevolent ageism co-existing (Yang *et al.*, *in press*), insofar as older adults are vulnerable, alone and dependent, but are framed as rather content with their situation.

Taken from the archives – stereotypical depictions with little reference to the pandemic

Our hypothesis of a high number of photographs depicting physical distance as a visible indicator of the COVID-19 pandemic (Hypothesis 4) was not supported. Most frequently, older individuals were not portrayed as maintaining physical distance to another person (76.3%), few were portrayed as maintaining physical distance (11.2%), or through windows or on balconies (4.2%). Apart from older individuals depicted alone, we found few symbolic representations of the isolation of older adults, especially when compared to our findings on companionship (25.3%) and a private social context (15.7%), or being out in public (16.6%). The latter findings might point to a small segment of nuanced reporting on older adults that was found in German print media as well (Köttl *et al.*, 2022), yet the segregating and othering presentations of older individuals in the cover photos were more frequent and thus dominant overall.

Another reason for a lack of visual reference to the pandemic might be that it was difficult to take photographs of people, particularly at the beginning, when protective measures were very strict – restricting journalists in contacting people in general and older people in particular. Without an explicit visual reference (e.g. the low number of older individuals coded wearing a mask – 16.9%) to the COVID-19 pandemic, older adults were stigmatised as inherently rather than situationally vulnerable due to political measures or increased susceptibility. Abstracted from the present COVID-19 pandemic, the photographs become symbolic and generic and might be (re)used in any other context (Vobic and Tomanic Trivundza, 2015). The sample's high number of photographs from large newswires (79%) – typical for Western media (Fahmy, 2005) – might explain the stereotypical portrayals given that newswires distribute stock photography, *i.e.* photographs that broadly symbolise certain issues (Kraemer and Lobinger, 2019). Concomitantly, and in line with other studies (Wanta and Roark, 1994), the selection of news photographs plays a major role (Fahmy and Neumann, 2011) insofar as a small number of photographs (8.8%) accounted for almost half of the photographs in our sample, highlighting the importance of the selection pattern. The selection might be explained by the everyday practices of online newsrooms increasingly shaped by time constraints and limited human resources (Le Cam and Domingo, 2015), leaving little room for reflection on the selection of stereotypical photographs. Further, in response to the increasing pressure to find a visual for every online news story despite perhaps not having access to any images directly related to the piece, online journalists resort to symbolic photographs to fill 'the empty frame' despite their own discontent with the practice (Vobic and Tomanic Trivundza, 2015). Further, the historically exceptional situation of the COVID-19 pandemic might have stimulated the use of stereotypes as they help to reduce complexity in overwhelming situations (Fineman, 2011).

The media's power to shape societal representations of older adults

While viewers' perceptions and interpretations of cover photos might differ from the interpretation of single elements of the photographs, an image can unlock existing individual and collective narratives about older adults (Busselle and Bhandzic, 2011). In addition, it is precisely such symbolic photographs that rely on a broader interpretative frame based on existing societal narratives (Vobic and Tomanic Trivundza, 2015). As the literature has shown that ageist narratives have increased over time (Ng *et al.*, 2021), our results might be interpreted as demonstrating *visual ageism* (Loos and Ivan, 2018), reflecting societal biases towards older adults by ignoring their heterogeneity. By selecting primarily negative and stereotypical photographs from archives in which more diverse images that are closer to reality are absent, online news media offered ageist interpretations of older adults and the COVID-19 pandemic. By repeating and normalising these images, they reify these narratives (O'Neill, 2013). Hence, media practitioners need to be made aware of ageism through workshops and collaborations with scholars and practitioners (Carrigan and Szmigin, 2000; Milner *et al.*, 2012; Xu, 2022). We know from the literature that stereotypically homogeneous representations of age (Swift and Steeden, 2020) and ageist interpretations of the pandemic as dangerous only to older-age people (Fraser *et al.*, 2020) negatively impacted them. Findings show that these narratives had severe negative effects on wellbeing and health (Cohn-Schwartz and Ayalon, 2021; Kornadt *et al.*, 2021; Levy *et al.*, 2022; Schlomann *et al.*, 2021) and increased age discrimination (Higgs and Gilleard, 2021).

Limitations and future research

We chose to examine online news sites as the number of online readers has increased significantly in recent years, particularly during the COVID-19 pandemic. Future research should examine whether the visual representations in print newspapers differed from our findings. Further, representations in social media could also yield other, more-differentiated results, as some analyses have shown (Barrett *et al.*, 2021; Xi *et al.*, 2021). We acknowledge the overly fragmented analysis through visual content analysis that might seemingly overemphasise the specific content of a photograph while underestimating the overall emotional impact of the entire composition. Thus, future research should focus on how viewers and readers perceived these representations during the COVID-19 pandemic. Our findings need to be interpreted with caution as we considered only the early period of the COVID-19 pandemic, potentially omitting different narratives that appeared after the arrival of the vaccine and the emergence of various virus variants. Another limitation of our study was that we focused solely on older adults, without taking into account other age groups that may have been subject to similar negative visual stereotypes, as the findings of a discourse analysis of three German newspapers suggests (Pelizäus and Heinz, 2020). We further need to note the lack of positive portrayals, which was in part the result of the omission of celebrities – who are often portrayed positively in news photographs (Martikainen and Sakki, 2021) – from our sample, since we assumed that they are noticed primarily for other characteristics than their chronological age. Nonetheless, older individuals in our study were portrayed with positive emotions when faces were visible.

Despite the fact that photographs usually emphasise a news story's message, there might be a congruency between visual and verbal presentation (Dan, 2018). Future research might investigate potential discrepancies between the two modes of representation to reveal whether generally negative stereotyping exists or if there is instead a lack of quality images when selecting the visual material for news stories.

Conclusion

This study set out to investigate the visual representation of older adults in the four most popular German online news sites during the early period of the COVID-19 pandemic. Overall, negative stereotypical representations were widespread and seemed to evoke an othering of older adults. They were rarely shown with their faces, but were instead presented as disembodied stereotypes featuring traits negatively associated with the fourth age. Their vulnerability was even more pronounced as the people depicted were primarily women, failing to provide a more realistic representation of older adults in the German population. They were visually segregated and stereotypically presented as vulnerable and dependent. As such, the overall generic cover photos frame older adults as an *other*, separate from young people or 'ageless' midlife. The wider viewership's confrontation with their own mortality in the face of the SARS-CoV-2 virus might have exacerbated an othering of the older population in our societies, although one must simultaneously acknowledge that stereotypes help to reduce the burden of overwhelming situations such as a pandemic by reducing complexity. The overall negative stereotypical framing needs to be understood within the increase in ageism, on the one hand, and routines in online newsrooms with staff opting for stereotypical stock photographs, on the other hand.

To conclude, this study adds to the understanding of societal ageism, focusing on media representations of older adults and journalistic practices that reflect and reproduce ageist narratives. Our analysis highlights that the media need to reflect on these practices as the internalisation of negative age stereotypes has consequences for people of all ages.

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