

1 **Digital Engagement without Online Purchasing? Age Differences in Gin**  
2 **Channel Choice in Italy**

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20 This article has been accepted for publication and undergone full peer review but has not been through  
21 the copyediting, typesetting, pagination and proofreading process, which may lead to differences  
22 between this version and the Version of Record.  
23  
24  
25

26 Please cite this article as:  
27

28 Perito M. A., Simeone M., Cerqueti S., Russo C. (2026), Digital Engagement without Online  
29 Purchasing? Age Differences in Gin Channel Choice in Italy, **Wine Economics and Policy**, Just  
30 Accepted.

31 DOI: 10.36253/wep-19939  
32  
33

34 **Abstract**

35 Younger consumers are frequently portrayed as inherently digital and online-oriented buyers.  
36 However, empirical evidence suggests that digital engagement does not necessarily translate into  
37 online purchasing behavior, particularly in multichannel and food-related contexts. This study  
38 investigates purchasing channel choices among gin consumers in Italy, a market characterized by  
39 gradual development, strong social connotations, and increasing digital visibility. Using data from a  
40 nationwide online survey (n = 945 gin drinkers), we examine how sociodemographic characteristics,  
41 consumption habits, and social media engagement relate to channel selection. Results show that  
42 younger consumers, despite higher levels of social media use, are significantly less likely to purchase  
43 gin online and predominantly rely on supermarkets. In contrast, middle-aged consumers display  
44 stronger interest in premium products and a greater propensity toward online purchasing. Moreover,  
45 time spent on social media is negatively associated with online channel choice, challenging the  
46 assumption that digital natives are systematically online buyers.

47  
48 **Keywords: Gin market; Channel choice; Online purchasing; Digital engagement; Age**  
49 **difference**

50  
51  
52 **1. Introduction**

53 In recent years, consumer behavior research has increasingly portrayed younger consumers as  
54 inherently digital and online-oriented buyers [1]. High levels of digital literacy, pervasive use of  
55 social media, and constant exposure to online content have often been interpreted as direct predictors  
56 of online purchasing behavior [2]. However, this assumption may oversimplify the relationship  
57 between age, digital engagement, and actual transaction choices, as empirical evidence suggests that  
58 digital engagement often influences pre-purchase stages rather than final purchasing behavior,  
59 particularly in multichannel and food-related contexts [3]. This apparent mismatch between digital  
60 engagement and purchasing behavior calls for a more nuanced understanding of how consumers  
61 navigate across channels.

62 In this perspective, the growing body of literature on multichannel and omnichannel retailing suggests  
63 that consumers frequently separate information search from purchase decisions [4, 5]. Digital  
64 channels and social media are often used for inspiration, while physical retail formats continue to  
65 play a central role at the point of purchase [6, 7, 8, 9, 10]. This distinction is especially relevant for  
66 food and beverage products, where routine purchasing habits, immediacy, and contextual factors  
67 remain highly influential [11]. In this domain, consumption choices are also shaped by the interplay

68 between hedonic and health-oriented motivations, as well as by the importance attributed to extrinsic  
69 product attributes [12]. This complexity becomes even more critical when focusing on younger  
70 consumers, who are often assumed to translate their high digital engagement into online purchasing  
71 behavior.

72 Within this debate, younger consumers represent a particularly interesting and underexplored  
73 segment. While they are among the most active users of digital platforms [13, 14]. Several studies  
74 suggest that digital engagement does not necessarily translate into higher online purchasing,  
75 especially for products characterized by occasional consumption, social connotations, or regulatory  
76 constraints, such as alcoholic beverages [4, 15, 16]. As a result, the widespread equation “young  
77 consumers = online buyers” deserves closer empirical scrutiny.

78 In this context, identifying a suitable empirical setting becomes crucial to test the apparent disconnect  
79 between digital engagement and purchasing behavior. Gin is a particularly suitable case study for  
80 testing young consumers' preference for online shopping. Positioned at the intersection of  
81 experimentation, social consumption, and everyday retail availability, the category enables the  
82 analysis of how younger consumers move across supermarkets, online environments, and specialty  
83 stores. Gin consumption is increasingly shaped by digital communication and social media narratives,  
84 which play a central role in influencing perceptions and meanings, though they do not necessarily  
85 translate into online purchasing behavior.

86 This perspective is especially relevant in the Italian context, where interest in gin has developed more  
87 gradually and later than in early-mature markets such as the United Kingdom and Northern Europe.  
88 In Italy, the expanding appeal of gin among younger consumers is closely linked to the emergence of  
89 locally rooted products that reinterpret traditional ingredients and regional identities, further  
90 reinforcing the hybrid nature of the category, combining experimentation, social consumption, and  
91 broad retail accessibility [17]. This pattern stands in contrast to the documented decline in younger  
92 consumers' interest in wine, which has been attributed to changing lifestyles, shifting socialization  
93 practices and a weakening symbolic attachment to traditional alcoholic beverages [18]. The increase  
94 of Italian craft gin brands can be framed within the expansion of the spirits sector through the use of  
95 distinctive ingredients and fabrication narrative on geographically embedded resources to construct  
96 unique product identities. Therefore, the incorporation of Mediterranean herbs, citrus fruits and plants  
97 can be interpreted as a form of “place-based branding,” whereby the product becomes a vehicle for  
98 expressing regional culture and biodiversity [19, 20] and consumers attribute value to products that  
99 embody geographical origin and cultural heritage [21, 22]. Gin's strong association with cocktail  
100 culture further reinforces this dimension, positioning it within social and experiential consumption  
101 contexts characterized by customization, conviviality and taken together all these elements reinforce

102 the hybrid nature of gin as a category, which embodies experimentation in flavors and recipes,  
103 sociability through cocktail culture. Unlike more traditional alcoholic beverages, whose consumption  
104 is often governed by established contexts, gin benefits from a flexible consumption occasion,  
105 allowing it to bridge artisanal production, fashionable lifestyles and mass-market availability.

106 In this respect, gin appears to respond more effectively to younger consumers' demand for novelty,  
107 flexibility, and identity expression, positioning itself as a contemporary alternative within the  
108 alcoholic beverage landscape.

109 Taken together, these elements highlight a gap between digital engagement and actual purchasing  
110 behavior, particularly among younger consumers and in product categories characterized by hybrid  
111 consumption patterns.

112 Against this background, the present study focuses explicitly on young gin consumers to examine  
113 how sociodemographic characteristics, consumption habits, and digital engagement jointly shape  
114 purchasing channel choices. By integrating channel choice more explicitly into the analysis of youth  
115 consumption behavior, this paper aims to contribute to the literature in two main ways. First, it  
116 provides empirical evidence on whether younger consumers can genuinely be considered online-  
117 oriented buyers in the gin market. Second, it sheds light on the role of social media and digital  
118 engagement in shaping pre-purchase versus transaction-stage decisions.

119 By doing so, the study makes three specific contributions to the literature. First, it challenges the  
120 widespread assumption that younger consumers are inherently online-oriented buyers by providing  
121 empirical evidence from a real consumption context. Second, it disentangles digital engagement from  
122 actual purchasing behavior, showing that social-media exposure does not translate into online channel  
123 choice. Third, it contributes to multichannel consumer research by highlighting the role of product-  
124 specific and life-cycle factors in shaping channel decision.

## 125 **2. Literature background**

126 Young consumers are widely described as digitally native, permanently connected, and deeply  
127 embedded in social media ecosystems [23]. Digital platform structure large portions of their everyday  
128 lives, mediating not only social interaction but also access to information and symbolic consumption  
129 practices [24]. Within this framework, younger cohorts are frequently portrayed as natural adopters  
130 of digital technologies and, by extension, as structurally inclined toward online purchasing channels  
131 [1, 25]. This narrative has become increasingly dominant in both academic and managerial discourse,  
132 often reinforcing the implicit assumption that digital exposure and transactional behavior are closely  
133 aligned [4, 1].

134 However, some researcher problematizes this linear interpretation, highlighting how digital  
135 engagement often remains confined to symbolic, informational, or pre-purchase stages, while actual  
136 transaction decisions continue to be shaped by contextual, product-specific, and situational factors  
137 [11, 3]. High levels of digital engagement do not necessarily translate into a systematic preference  
138 for online purchasing, nor do they imply a reduced role for physical retail environments.

139 Some studies highlight a persistent disconnect between digital familiarity and actual buying behavior,  
140 suggesting that young consumers selectively appropriate digital tools, especially for food and  
141 beverage, depending on the stage of the decision-making process and the nature of the product [26;  
142 27, 28; 29]. In this perspective, social media platforms function primarily as symbolic arenas where  
143 meanings, tastes, and consumption-related identities are negotiated, while the act of purchasing may  
144 still be anchored in more traditional channels [30, 31, 32]. This phenomenon is consistent with  
145 evidence of an attitude–behavior gap, whereby stated preferences and intentions may diverge from  
146 actual choices, especially in food and beverage markets characterized by habitual routines and  
147 contextual constraints [33].

148 Supermarkets, in particular, continue to occupy a pivotal position due to their embeddedness in daily  
149 life, their capacity to accommodate unplanned purchases, and their compatibility with time-  
150 constrained consumption contexts [34]. The persistence of physical retail should not be interpreted  
151 as a rejection of digitalization. Rather, it reflects the differentiated roles that channels play depending  
152 on product characteristics and situational factors [35].

153 Alcoholic beverages provide a particularly rich context in which to explore these dynamics [36, 37,  
154 18, 38].

155 The expanding literature on social media influencers further complicates the relationship between  
156 digital engagement and purchasing behavior. Numerous studies document the ability of influencers  
157 to shape consumer attitudes, preferences, and purchase intentions by leveraging credibility,  
158 identification, and perceived authenticity [39, 40, 41, 42]. Meta-analytical evidence confirms that  
159 influencer marketing can be effective, particularly when trust and product–endorser fit are high [43].  
160 However, other contributions emphasize that influencer-driven engagement often stimulates interest,  
161 curiosity, or aspirational desire without necessarily translating into concrete purchasing behavior,  
162 especially in categories subject to normative constraints or situational barriers [44, 45].

163 In alcohol-related contexts, this gap between influence and action appears particularly salient. Social  
164 media content contributes to shaping imaginaries of consumption, reinforcing associations with  
165 sociability, experimentation, and lifestyle positioning [32]. At the same time, some studies highlight  
166 how alcohol consumption is deeply embedded in life-course dynamics and age-specific socialization  
167 processes, with patterns of initiation, frequency, and symbolic meaning varying significantly across

168 cohorts [46]. Early exposure and peer-group influence have been identified as key drivers in the  
169 formation of drinking norms among younger individuals, particularly in contexts where alcohol  
170 functions as a marker of belonging and identity construction [47, 48]. Conversely, more mature  
171 consumers tend to display more stabilized routines and attribute-based evaluations, often linked to  
172 quality cues, origin, and brand reputation [49, 50].

173 Yet, empirical evidence suggests that such influence operates primarily at the pre-purchase stage,  
174 affecting awareness, consideration, and perceived value rather than channel choice or final  
175 transaction. This finding aligns with earlier research on alcohol advertising and counter-advertising,  
176 which demonstrates that media exposure can modify attitudes and norms without producing  
177 proportional changes in actual consumption behavior [51, 52].

178 Taken together, the literature suggests that digital engagement should not be equated with  
179 transactional orientation [3]. Social media influence is multifaceted, indirect, and strongly stage-  
180 specific, interacting with product symbolism, consumption context, and individual dispositions [4,  
181 53].

182 These insights are particularly relevant for hybrid categories, such as gin, that combine elements of  
183 experimentation, social consumption, and everyday retail accessibility [37, 29]. By explicitly  
184 integrating purchasing channel choice into the analysis of youth consumption behavior, the present  
185 study responds to calls for more nuanced, category-sensitive approaches and contributes to a more  
186 critical understanding of the limits and possibilities of digitalization in contemporary food and  
187 beverage markets [35].

188

### 189 **3. Materials and Methods**

190 The study adopts a non-probability sampling approach, with respondents recruited on a convenience  
191 basis according to criteria of accessibility and availability. Data were collected through a nationwide  
192 online survey of Italian gin consumers conducted between June and September 2025. The  
193 questionnaire was administered via Google Forms and disseminated through multiple social media  
194 channels, which are widely used in social science research as effective tools for participant  
195 recruitment due to their broad reach [54].

196 Survey dissemination combined public posts and targeted invitations circulated through the authors'  
197 networks, with repeated sharing over time to enhance participation. Respondents were also  
198 encouraged to further distribute the survey within their personal networks, resulting in a combined  
199 convenience–snowball sampling strategy. This approach is commonly adopted in exploratory  
200 consumer research aimed at identifying behavioral patterns and socio-demographic heterogeneity  
201 rather than producing statistically representative estimates.

202 Several measures were implemented to mitigate potential sampling and reporting biases. Participation  
203 was voluntary and anonymous, attitudinal constructs were measured using validated Likert-type  
204 scales, and consistency checks were applied to identify and exclude incomplete or unreliable  
205 responses. In addition, dissemination across heterogeneous networks helped limit the over-  
206 representation of specific social groups. Accordingly, the study does not aim for population  
207 representativeness but rather to capture structured behavioral patterns within the sampled population.  
208 A total of 945 questionnaires by gin consumers were collected, while 143 non-gin respondents were  
209 not considered.

210 The empirical strategy is designed to investigate systematic differences in consumption behavior and  
211 purchasing channel choice across consumer segments. In particular, the analysis focuses on three  
212 dimensions: (i) socio-demographic characteristics, with a specific emphasis on age groups; (ii)  
213 consumption-related habits and preferences; and (iii) patterns of social media use and perceived  
214 digital influence.

215 The dataset is used to test two core hypotheses. First, whether younger consumers are more likely to  
216 engage in online purchasing. Second, whether higher levels of social media engagement are  
217 associated with online channel choice. These hypotheses allow for a direct empirical assessment of  
218 the commonly assumed link between digital nativity and online purchasing behavior.

219 To address these research questions, the analysis relies on chi-square tests of association, which are  
220 particularly suitable for examining relationships between categorical variables and for identifying  
221 statistically significant differences across groups [55]. This method allows for a systematic  
222 comparison of purchasing behaviors, consumption patterns, and digital engagement across age  
223 cohorts.

224 In addition, cross-tabulation analyses are used to explore the interaction between variables, including  
225 controlling for age effects when examining the relationship between social media engagement and  
226 purchasing behavior. This approach enables a more nuanced interpretation of observed associations  
227 and helps isolate the role of key explanatory factors.

228 Given the objective of identifying structured behavioral differences rather than estimating causal  
229 relationships, the analysis focuses on descriptive and associative statistical techniques [56]. This  
230 approach is consistent with multichannel consumer research, where the emphasis is on detecting  
231 patterns, segment heterogeneity, and behavioral regularities across groups.

232 This methodological framework enhances the interpretability of differences across consumer  
233 segments and allows for a robust empirical assessment of the relationship between age, digital  
234 engagement, and purchasing channel choice.

235

236 **4. Results**

237 The sample is composed of 945 gin-drinkers of age 18 or older. Table 1 summarizes the socio-  
 238 demographic characteristics of the sample. The sample shows a strong prevalence of female  
 239 respondents; therefore, the results may be affected by a gender imbalance and may not be fully  
 240 generalizable to the population of Italian gin consumers.

241

242 *Table 1: Characteristics of the sample*

Variable	Class	Observations
Age	18-25	657
	26-35	135
	36-50	102
	51 or older	51
Sex	Male	258
	Female	687
Education	Middle school diploma	41
	High school diploma	585
	Bachelor's degree	216
	Master's degree or higher	103

243

244 The first part of the questionnaire examined differences in gin consumption across age groups. The  
 245 main results are reported in Table 2. Data support the conclusion that gin consumption variables  
 246 change with age.  $\chi^2$  association tests allowed us to reject the null hypothesis of independence  
 247 between age and all gin consumption variables (Table 2).

248

249 *Table 2: Sample statistics of gin consumption (percent values, numbers in parentheses are p-values*  
 250 *from a  $\chi^2$  association test)*

	Age groups				Total
	18-25	26-35	36-50	51+	
<b><i>How often do you drink gin? (0.001)</i></b>					
Never/Rarely	48.2	33.3	43.1	62.7	46.3
Once a month	20.1	18.5	15.7	19.6	19.4
Twice a month	14.8	20.0	13.7	2.0	14.7
Once a week	12.9	23.0	18.6	13.7	15.0
More than once a week	4.0	5.2	8.8	2.0	4.6
Total	100.0	100.0	100.0	100.0	100.0
<b><i>What is your favorite gin? (0.001)</i></b>					
Don't know	25.7	11.9	12.7	15.7	21.8
No preferences	26.0	16.3	13.7	27.5	23.4
International brands	29.4	21.5	15.7	13.7	25.9
Local or national brands	4.1	7.4	10.8	11.8	5.7
Premium / craft	14.8	43.0	47.1	31.4	23.2
Total	100.0	100.0	100.0	100.0	100.0

<b>What is your most important driver when purchasing gin? (0.001)</b>					
1. Price	76.7	54.1	41.2	33.3	67.3
2. Packaging	4.4	5.9	3.9	3.9	4.6
3. Friends, Experts	3.2	5.9	14.7	13.7	5.4
4. Alcohol content	0.5	0.7	0.0	0.0	0.4
5. Ingredients, Flavor	2.1	8.1	8.8	7.8	4.0
6. Brand	11.6	19.3	20.6	27.5	14.5
7. Origin	1.5	5.9	9.8	13.7	3.7
8. Social media promotion	0.0	0.0	1.0	0.0	0.1
Total	100.0	100.0	100.0	100.0	100.0

<b>Are you willing to pay a price premium for a premium gin? (0.001)</b>					
No, I always look for best prices	16.1	9.6	5.9	9.8	13.8
I am not interested in premium gin	17.2	6.7	6.9	7.8	14.1
Up to a point	45.8	52.6	49.0	37.3	46.7
Always	9.9	21.5	27.5	27.5	14.4
Only if advised by a trusted source	11.0	9.6	10.8	17.6	11.1
Total	100.0	100.0	100.0	100.0	100.0

<b>What brought you to drinking gin? (0.001)</b>					
Personal curiosity	7.6	15.6	11.8	39.2	10.9
Friends/social context	63.0	55.6	57.8	45.1	60.4
Experiences in bars/locals	27.7	28.1	28.4	15.7	27.2
Packaging and design	1.2	0.0	1.0	0.0	1.0
Post or stories on social media	0.5	0.0	0.0	0.0	0.3
Influencers or brand ambassadors	0.0	0.7	1.0	0.0	0.2
Total	100.0	100.0	100.0	100.0	100.0

251

252 Consumers aged between 18 and 25 drink gin less often than all other groups except consumers aged  
 253 51 or older. They are more focused on price, less willing to pay a premium for quality gin, more  
 254 influenced by social context, and less interested in origin, branding, and even quality.

255 As expected, age groups differ in the use of social media. Data in Table 3 suggest that younger  
 256 respondents use different media. Age group 18-25 is keener on TikTok, 26-35 is associated with  
 257 Instagram, while older respondents are with Facebook. Also, younger respondents spend more time  
 258 on social media, on average. Middle-aged groups are more likely to be exposed to gin advertising and  
 259 promotion on social media than others.

260

261 *Table 3: Use of social media (percent values, numbers in parentheses are p-values from a  $\chi^2$*   
 262 *association test)*

	Age group				
	18-25	26-35	36-50	51+	Total
<b>What social media do you use? (0.001)</b>					
1. No social media	0.3	3.7	2.9	13.7	1.8

2. Instagram	15.1	32.6	11.8	13.7	17.1
3. Facebook	0.3	2.2	10.8	21.6	2.9
4. Instagram, TikTok	43.1	19.3	2.9	0.0	33.0
5. Instagram, Facebook	0.8	4.4	32.4	7.8	5.1
6. TikTok	12.5	2.2	2.9	2.0	9.4
7. All	28.0	35.6	36.3	41.2	30.7
Total	100.0	100.0	100.0	100.0	100.0

***How much time do you spend on social media? (0.001)***

Zero	0.3	3.7	2.9	13.7	1.8
Less than 1 hour	2.0	8.1	22.5	39.2	7.1
Between 1 and 2 hours	30.4	46.7	60.8	35.3	36.3
Between 2 and 4 hours	44.6	28.9	10.8	5.9	36.6
More than 5 hours	22.7	12.6	2.9	5.9	18.2
Total	100.0	100.0	100.0	100.0	100.0

***Are you exposed to gin advertising on social media? (0.001)***

Never	15.1	12.6	8.8	33.3	15.0
Seldom	35.2	25.2	25.5	33.3	32.6
Sometimes	38.5	43.7	35.3	21.6	38.0
Often	8.7	13.3	25.5	11.8	11.3
All the times	2.6	5.2	4.9	0.0	3.1
Total	100.0	100.0	100.0	100.0	100.0

263

264 The dataset can be used to test the study hypothesis about young consumers and online purchases.

265 Table 4 illustrates the distribution of respondents by age and preferred shopping outlet for gin (bars,

266 locals, and other social outlets are excluded). A  $\chi^2$  association test rejected the null hypothesis of

267 independence between age and shopping outlet at a 99% confidence level.

268

269 *Table 4: Preferred shopping outlet for gin, by age group (percent values)*

Shopping outlet	Age group				Total
	18-25	26-35	36-50	51+	
None of these options	40.2	36.3	25.5	35.3	37.8
Supermarkets	46.9	33.3	30.4	31.4	42.3
Specialty stores	10.2	17.0	30.4	29.4	14.4
Online	2.6	12.6	12.7	3.9	5.2
Other stores	0.2	0.7	1.0	0.0	0.3
Total	100.0	100.0	100.0	100.0	100.0

270

271 Supermarkets are age group 18-25 preferred shopping outlet. Only 2.6 per cent of youngest

272 respondents prefer online shopping, the lowest results among the age group. This result might be

273 explained either by a preference for “anonymous” shopping outlets, that allow young consumers to

274 access gin without discovering their preferences to family or by social consumption resulting in

275 opportunity purchasing rather than in planned behavior. Yet, further research is needed to support  
 276 these speculations. Noticeably, age groups 26-35 and 36-50 exhibit a relative preference for online  
 277 purchases.

278 The second study hypothesis is that engagement in social media is associate with online consumption.  
 279 As expected, the data in Table 5 do not support the hypothesis. Because younger respondents spend  
 280 more time on social media and have the lower share of online purchases, we found a negative  
 281 association between the two variables (p-value of  $\chi^2$  association test 0.001).

282  
 283 *Table 5: Preferred outlet by time spent on social media (per cent values)*

Time spent on social media per day	Preferred shopping outlet				Total
	No purchase	Supermarket	Specialty store	Online	
Zero	29.4	41.2	23.5	5.9	100.0
Less than 1 hour	31.3	31.3	28.4	9.0	100.0
Between 1 and 2 hours	35.0	36.4	19.8	8.2	100.0
Between 2 and 4 hours	37.9	50.3	8.7	2.9	100.0
More than 5 hours	46.5	42.4	8.7	2.3	100.0
Total	37.8	42.3	14.4	5.2	100.0

284  
 285 To control for the age effect, we compute the percentage of respondents who prefer to shop for gin  
 286 online (vs. other outlets) by age group and time spent on social media. Results are reported in Table  
 287 6. Even within age groups, the association between online shopping and time spent on social media  
 288 is not supported.

289  
 290 *Table 6: Per cent share of respondents preferring online shopping by age group and time spent on*  
 291 *social media per day*

Time spent on social media per day	Age Group			
	18-25	26-35	36-50	51+
Zero	0.0	20.0	0.0	0.0
Less than 1 hour	23.1	0.0	4.3	10.0
Between 1 and 2 hours	3.5	17.5	16.1	0.0
Between 2 and 4 hours	2.0	5.1	18.2	0.0
More than 5 hours	0.7	17.6	0.0	0.0

292  
 293 Finally, we investigated if younger consumers were more affected by social media campaigns than  
 294 older respondents. Table 7 does not support any association between age and the self-reported effect  
 295 (p-value of  $\chi^2$  association test 0.085). Yet, when asked if social media affect gin consumption of  
 296 youngest generations, the perception of elder respondents is of a larger effect than younger ones  
 297 (Table 8, p-value of  $\chi^2$  association test 0.001).

298

299 *Table 7: Do you think social media affected your gin choice? (per cent values by age group)*

	Age Group				Total
	18-25	26-35	36-50	51+	
Not at all	63.0	51.9	49.0	58.8	59.7
Marginally	21.8	25.9	26.5	19.6	22.8
A little	12.0	16.3	15.7	11.8	13.0
Quite	1.4	3.0	3.9	3.9	2.0
Completely	1.8	3.0	4.9	5.9	2.5
Total	100.0	100.0	100.0	100.0	100.0

300

301 *Table 8: Do you think that social media shape gin consumption of young people? (per cent values)*

	Age group				Total
	18-25	26-35	36-50	51+	
Not at all	7,2	5,2	2,0	3,9	6,1
Marginally	32,6	27,4	13,7	9,8	28,6
A little	10,0	7,4	10,8	15,7	10,1
Quite	37,1	39,3	54,9	41,2	39,6
Completely	13,1	20,7	18,6	29,4	15,7
Total	100,0	100,0	100,0	100,0	100,0

302

### 303 **5. Discussion**

304 The analysis confirms that age plays a central role in shaping gin consumption patterns, preferences,  
 305 and purchasing behavior. The rejection of the null hypothesis of independence between age and all  
 306 gin consumption variables indicates that gin consumption is not homogeneous across cohorts but  
 307 evolves significantly over the life course, age is a key discriminating variable in the gin market as it  
 308 emerges also by the existing literature on alcohol consumption that showed how it can be attributed  
 309 to a range of demographic and social factors [57].

310 In this paper, younger consumers (18–25) are found to be occasional gin drinkers, with lower  
 311 consumption frequency than middle-aged groups. Their behavior is strongly price-oriented and  
 312 socially driven: they show partial interest in premium products, brand reputation, origin, and product  
 313 quality, while the social setting is the dominant driver of drinking [58, 59]. This profile suggests that  
 314 gin is primarily consumed as a social good. As age increases, consumption patterns become more  
 315 controlled and thoughtful. Respondents in the 26–35 and 36–50 age groups drink gin habitually, show  
 316 stronger preferences for premium products, and are more willing to pay a premium price for quality.  
 317 These consumers also attach greater importance to brand, origin, and expert recommendations,  
 318 indicating a shift from opportunistic consumption toward a more informed and intentional purchasing  
 319 process. Consumers aged 51 or older, while drinking gin less frequently, appear relatively quality-  
 320 oriented, proposing a mature drinking style driven more by curiosity and experience than by social  
 321 influence. Interestingly, higher time spent on social media does not result into greater exposure to

322 gin-related advertising. Instead, respondents in the mid-age groups report higher exposure to gin  
323 promotion on social media. This outcome is consistent with alcohol brands' preference for targeting  
324 consumers with greater purchasing power and a greater willingness to pay a premium for quality  
325 rather than those with the highest social media engagement [60, 61].

326 The results challenge the common assumption that younger consumers are more inclined toward  
327 online purchasing. Despite their high social media engagement, respondents aged 18–25 show the  
328 lowest preference for online shopping and rely primarily on supermarkets for gin purchases. This  
329 pattern may reflect a preference for familiar, “anonymous” purchasing environments or the  
330 predominantly social nature of gin consumption among this age group, leading to opportunity rather  
331 than planned purchases. Then, supermarkets are a convenient and anonymous source of low-priced  
332 gin. However, this conclusion remains speculative and warrants further investigation.

333 In contrast, consumers aged 26–35 and 36–50 exhibit a stronger preference for online shopping,  
334 consistent with their higher interest in product differentiation, premium offerings and planned  
335 consumption. This supports the idea that online purchasing is associated more with involvement and  
336 product knowledge than with age per se.

337 The second study hypothesis, testing a positive relationship between social media engagement and  
338 online consumption, is clearly not supported. On the contrary, a negative association emerges.  
339 Respondents who spend more time on social media are less likely to purchase gin online. Importantly,  
340 this relationship persists even after controlling for age, indicating that social media engagement and  
341 online purchasing are not complementary behaviors in this context. The analysis of perceived social  
342 media effect reveals an interesting asymmetry. Self-reported influence of social media on personal  
343 gin choices does not differ significantly by age, with most respondents reporting limited or no impact.  
344 However, when evaluating the influence of social media on younger generations, older respondents  
345 perceive a substantially stronger effect than younger consumers themselves.

346 This divergence suggests the presence of a perception bias, whereby individuals tend to moderate  
347 media influence on their own behavior while attributing greater exposure to others, particularly  
348 younger people. This might be an additional motivation explaining why younger consumers are not  
349 a primary target for gin's online advertising campaign. It also suggests that the impact of social media  
350 marketing may be indirect or unconscious.

351 The findings highlight the importance of age-based segmentation in the gin market: younger  
352 consumers appear less responsive to quality cues, branding, and digital commerce, while middle-aged  
353 consumers represent the most attractive segment for premium products and online channels.

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355

356 **6. Conclusion**

357 This study contributes to the literature on multichannel consumer behavior by providing empirical  
358 evidence that younger consumers cannot be uncritically characterized as online-oriented buyers. The  
359 findings point to a clear distinction between digital engagement and actual purchasing behavior,  
360 suggesting that the commonly assumed correspondence between younger age cohorts and online  
361 purchasing does not systematically hold in real consumption contexts.

362 From a managerial standpoint, the results highlight the importance of adopting more articulated and  
363 channel-specific strategies. While digital environments play a relevant role in shaping awareness and  
364 pre-purchase processes, physical retail channels continue to retain a central function at the transaction  
365 stage, particularly for younger consumers. This evidence calls for moving beyond simplified, age-  
366 based segmentation and for developing approaches that more carefully account for consumption  
367 patterns and product-specific characteristics.

368 The study is not without limitations. In particular, the use of non-probability sampling and self-  
369 reported data may constrain the generalizability of the results. Future research could address these  
370 aspects by relying on more representative samples and by extending the analysis to different product  
371 categories, in order to assess the robustness and broader applicability of the findings.

372 Overall, the study offers evidence that age and digital engagement influence consumer behavior  
373 along distinct dimensions, contributing to a more refined understanding of multichannel dynamics  
374 within the food and beverage sector.

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376 **References**

377

378 [1] S. Lissitsa & O. Kol, 2016. Generation X vs. Generation Y—A decade of online shopping. *Journal*  
379 *of retailing and consumer services*. 31, 304-312.

380 <https://doi.org/10.1016/j.jretconser.2016.04.015>

381 [2] R. Bodhi, T. Singh & S. Rahman, 2021. Recent themes in social media research: a systematic  
382 review. *International Journal of Business Information Systems*. 37(3), 287-307.

383 <https://doi.org/10.1504/IJBIS.2021.116081>

384 [3] A. Dominici, F. Boncinelli, F. Gerini & E. Marone, 2021. Determinants of online food  
385 purchasing: The impact of socio-demographic and situational factors. *Journal of Retailing and*  
386 *Consumer Services*. 60, 102473. <https://doi.org/10.1016/j.jretconser.2021.102473>

387 [4] P.C. Verhoef, P.K. Kannan & J.J. Inman, 2015. From multi-channel retailing to omni-channel  
388 retailing: introduction to the special issue on multi-channel retailing. *Journal of retailing*.

389 91(2), 174-181, <http://dx.doi.org/10.1016/j.jretai.2015.02.005>

- 390 [5] E.C.X. Aw, N.K. Basha, S.I. Ng, J.A. Ho, 2021. Searching online and buying offline:  
391 Understanding the role of channel-, consumer-, and product-related factors in determining  
392 webrooming intention. *Journal of Retailing and Consumer Services*. 58, 102328.  
393 <https://doi.org/10.1016/j.jretconser.2020.102328>
- 394 [6] C. Flavián, R. Gurrea, C. Orús, 2016. Choice confidence in the webrooming purchase process:  
395 The impact of online positive reviews and the motivation to touch. *Journal of Consumer*  
396 *Behaviour*, 15(5), 459-476. <https://doi.org/10.1002/cb.1585>
- 397 [7] A. Abell & D. Biswas, 2022. Digital Engagement on Social Media: How Food Image Content  
398 Influences Social Media and Influencer Marketing Outcomes. *Journal of Interactive*  
399 *Marketing*. 58(1), 1-15. <https://doi.org/10.1177/10949968221128556>
- 400 [8] C. Gallery, Retail innovation: The future of the physical store, in: C. Gallery, J. Conlon (Eds.),  
401 Fashion Business and Digital Transformation, Routledge, New York, 2024. pp. 178-215.  
402 <https://doi.org/10.4324/9781003364559>
- 403 [9] C. Russo, M. Simeone, M.A. Perito, 2020. Educated millennials and credence attributes of food  
404 products with genetically modified organisms: Knowledge, trust and social media.  
405 *Sustainability*. 12(20), 8534. <https://doi.org/10.3390/su12208534>
- 406 [10] M. Simeone, D. Scarpato, G. Rotondo (2015). Consumer attitudes to food labelling:  
407 Opportunities for firms and implications for policy-makers. *Calitatea*, 16(S1), 312.
- 408 [11] D. Grewal, S. Motyka, M. Levy, 2018. The evolution and future of retailing and retailing  
409 education. *Journal of Marketing Education*. 40(1), 85-93.  
410 <https://doi.org/10.1177/0273475318755>
- 411 [12] M. Proi, B.B. Monhoussou, A. Pesce, A. Hammoudi, M.A. Perito, 2025. Hedonic-vs. health-  
412 based approach to food: An explorative study of extrinsic attributes importance among French  
413 and Italian consumers. *Journal of Agriculture and Food Research*. 22.  
414 <https://doi.org/10.1016/j.jafr.2025.102020>
- 415 [13] A. Kalam, S.M. Islam, S.M. Akterujjaman, 2025. Momentum for organic food purchase intention  
416 and actual adoption-moderating effects of social media influencer and celebrity endorser.  
417 *Food Quality and Preference*. 122, 105307. <https://doi.org/10.1016/j.foodqual.2024.105307>
- 418 [14] A. Stasi, F. Bimbo, R. Viscecchia, A. Seccia, 2014. Italian consumers' preferences regarding  
419 dealcoholized wine, information and price. *Wine Economics and Policy*, 3(1), 54-61.  
420 <https://doi.org/10.1016/j.wep.2014.05.002>
- 421 [15] M. Dressler, K. Kleiner, 2025. How Wine Reaches Consumers: Channel Relevance and a  
422 Typology of Multichannel Strategies. *Beverages*. 11(5), 136.  
423 <https://doi.org/10.3390/beverages11050136>

- 424 [16] S.S. Jasrotia, M. K. Kamila, S. Chib, 2026. Exploring cognitive-behavioural drivers impacting  
425 consumer continuance intention of app-based alcohol purchase. *International Journal of Wine*  
426 *Business Research*. 1-23. <https://doi.org/10.1108/IJWBR-01-2025-0001>
- 427 [17] Wine Meridian, Il Gin conquista l'Italia: un cocktail pronto a sfidare l'Aperol Spritz.  
428 [https://www.winemeridian.com/news/mercato-gin-italia-crescita-](https://www.winemeridian.com/news/mercato-gin-italia-crescita-opportunita/?utm_source=chatgpt.com)  
429 [opportunita/?utm\\_source=chatgpt.com](https://www.winemeridian.com/news/mercato-gin-italia-crescita-opportunita/?utm_source=chatgpt.com), 2024 (Accessed on 12 December 2025).
- 430 [18] F. Nassivera, G. Gallenti, S. Troiano, F. Marangon, M. Cosmina, P. Bogoni, B. Campisi, M.  
431 Carzedda, 2020. Italian millennials' preferences for wine: an exploratory study. *British Food*  
432 *Journal*. 122(8), 2403-2423. <https://doi.org/10.1108/BFJ-05-2019-0306>
- 433 [19] A. Tregear, F. Arfini, G. Belletti, A. Marescotti, 2007. Regional foods and rural development:  
434 The role of product qualification. *Journal of Rural studies*. 23(1), 12-22.  
435 <https://doi.org/10.1016/j.jrurstud.2006.09.010>
- 436 [20] M. Simeone, F. Verneau, 2024. In support of framing Food Identity towards pro-environmental  
437 food choices through empirical evidence. *Quality & Quantity*, 1-12.  
438 <https://doi.org/10.1007/s11135-023-01826-1>
- 439 [21] S. Charters, *Wine and society: The social and cultural context of a drink*, Routledge, London,  
440 2006. <https://doi.org/10.4324/9780080458038>
- 441 [22] S. Bowen, K. De Master, 2011. New rural livelihoods or museums of production? Quality food  
442 initiatives in practice. *Journal of Rural Studies*. 27(1), 73-82.  
443 <https://doi.org/10.1016/j.jrurstud.2010.08.002>
- 444 [23] R. Bhalla, P. Tiwari, N. Chowdhary, Digital Natives Leading the World: Paragons and Values of  
445 Generation Z, in: N. Stylos, R. Rahimi, B. Okumus, S. Williams (Eds.), *Generation Z*  
446 *Marketing and Management in Tourism and Hospitality*, Palgrave Macmillan, London, 2021.  
447 [https://doi.org/10.1007/978-3-030-70695-1\\_1](https://doi.org/10.1007/978-3-030-70695-1_1)
- 448 [24] J. Van Dijck, T. Poell, M. De Waal, *The platform society: Public values in a connective world*.  
449 Oxford university press, 2018. <https://doi.org/10.1093/oso/9780190889760.001.0001>
- 450 [25] S. Coderoni, M.A. Perito, 2021. Approaches for reducing wastes in the agricultural sector. An  
451 analysis of Millennials' willingness to buy food with upcycled ingredients. *Waste*  
452 *Management*. 126, 283-290. <https://doi.org/10.1016/j.wasman.2021.03.018>
- 453 [26] T. Hansen, 2008. Consumer values, the theory of planned behaviour and online grocery  
454 shopping. *International Journal of Consumer Studies*. 32(2), 128-137.  
455 <https://doi.org/10.1111/j.1470-6431.2007.00655.x>

- 456 [27] C. Hand, F. Dall'Olmo Riley, P. Harris, J. Singh & R. Rettie, 2009. Online grocery shopping:  
457 the influence of situational factors. *European journal of Marketing*. 43(9/10), 1205-1219.  
458 <https://doi.org/10.1108/03090560910976447>
- 459 [28] G. Mortimer, S. Fazal, Hasan, L. Andrews, J. Martin, 2016. Online grocery shopping: the impact  
460 of shopping frequency on perceived risk. *The International Review of Retail, Distribution and*  
461 *Consumer Research*. 26(2), 202-223. <https://doi.org/10.1080/09593969.2015.1130737>
- 462 [29] N. Waehning, V.K. Wells, 2024. Product, individual and environmental factors impacting the  
463 consumption of no and low alcoholic drinks: A systematic review and future research agenda.  
464 *Food Quality and Preference*. 117, 105163. <https://doi.org/10.1016/j.foodqual.2024.105163>
- 465 [30] T. Pucci, E. Casprini, C. Nosi, L. Zanni, 2019. Does social media usage affect online purchasing  
466 intention for wine? The moderating role of subjective and objective knowledge. *British Food*  
467 *Journal*. 121(2), 275–288. <https://doi.org/10.1108/BFJ-06-2018-0400>
- 468 [31] S. Charters, M. Demossier, J. Dutton, G. Harding, J.S. Maguire, D. Marks, P.T.H. Unwin (Eds.),  
469 *The Routledge handbook of wine and culture*, Routledge, London, 2022  
470 <https://doi.org/10.4324/9781003034711>
- 471 [32] S. Piramanayagam, J. Mallya, V.N. Kelkar, 2024. Examining the impact of wine influencers'  
472 characteristics on consumer attitudes, purchase intention, and actual wine purchase. *Wine*  
473 *Economics and Policy*., 13(2), 25-41. <https://doi.org/10.36253/wep-16030>
- 474 [33] I. Schäufele, U. Hamm, 2018. Organic wine purchase behaviour in Germany: Exploring the  
475 attitude-behaviour-gap with data from a household panel. *Food Quality and Preference*. 63,  
476 1-11 <https://doi.org/10.1016/j.foodqual.2017.07.010>
- 477 [34] L.M.C. Martínez, M.B. Mollá-Bauzá, F.J.D.C. Gomis, A.M. Poveda, 2006. Influence of  
478 purchase place and consumption frequency over quality wine preferences. *Food Quality and*  
479 *Preference*. 17(5), 315-327. <https://doi.org/10.1016/j.foodqual.2005.02.002>
- 480 [35] B. Ratchford, G. Soysal, A. Zentner, D.K. Gauri, 2022. Online and offline retailing: What we  
481 know and directions for future research. *Journal of Retailing*. 98(1), 152-177.  
482 <https://doi.org/10.1016/j.jretai.2022.02.007>
- 483 [36] A. Annunziata, E. Pomarici, R. Vecchio, A. Mariani, 2016. Health warnings on wine: a consumer  
484 perspective. *British Food Journal*. 118(3), 647-659. <https://doi.org/10.1108/BFJ-08-2015-0300>
- 485  
486 [37] L. Agnoli, M. Boeri, R. Scarpa, R. Capitello, D. Begalli, 2018. Behavioural patterns in  
487 Mediterranean-style drinking: Generation Y preferences in alcoholic beverage consumption.  
488 *Journal of Behavioral and Experimental Economics*. 75, 117-125.  
489 <https://doi.org/10.1016/j.socec.2018.06.001>

- 490 [38] E. Heil, 2020. Bacardi targeted women with its new reduced-alcohol vodkas. It went over as  
491 well as you'd expect. The Washington Post.  
492 [https://www.washingtonpost.com/news/voraciously/wp/2020/07/22/bacardi-targeted-](https://www.washingtonpost.com/news/voraciously/wp/2020/07/22/bacardi-targeted-women-with-its-new-reduced-alcohol-vodkas-it-went-over-as-well-as-you-d-expect/)  
493 [women-with-its-new-reduced-alcohol-vodkas-it-went-over-as-well-as-you-d-expect/](https://www.washingtonpost.com/news/voraciously/wp/2020/07/22/bacardi-targeted-women-with-its-new-reduced-alcohol-vodkas-it-went-over-as-well-as-you-d-expect/)
- 494 [39] Saima, M.A. Khan, 2020. Effect of social media influencer marketing on consumers' purchase  
495 intention and the mediating role of credibility. *Journal of Promotion Management*. 27(4), 503-  
496 523 <https://doi.org/10.1080/10496491.2020.1851847>
- 497 [40] A.P. Schouten, L. Janssen, M. Verspaget, Celebrity vs. Influencer endorsements in advertising:  
498 the role of identification, credibility, and Product-Endorser fit, in: S. Yoon, Y.K. Choi, C.R.  
499 Taylor (Eds.), *Leveraged marketing communications*, Routledge, London, 2021, pp. 208-231.  
500 <https://doi.org/10.4324/9781003155249-12>
- 501 [41] A.A. Bailey, A.S. Mishra, K. Vaishnav, 2023. Response to social media influencers: Consumer  
502 dispositions as drivers. *International Journal of Consumer Studies*. 47(5), 1979-1998.  
503 <https://doi.org/10.1111/ijcs.12976>
- 504 [42] A. Kanaveedu, J.J. Kalapurackal, 2024. Influencer marketing and consumer behaviour: A  
505 systematic literature review. *Vision*. 28(5), 547-566.  
506 <https://doi.org/10.1177/09722629221114>
- 507 [43] J. Han, G. Balabanis, 2024. Meta-analysis of social media influencer impact: Key antecedents  
508 and theoretical foundations. *Psychology & Marketing*. 41(2), 394-426.  
509 <https://doi.org/10.1002/mar.21927>
- 510 [44] D. Voramontri, L. Klieb, 2019. Impact of social media on consumer behaviour. *International*  
511 *Journal of Information and Decision Sciences*, 11(3), 209-233.  
512 <https://doi.org/10.1504/IJIDS.2019.101994>
- 513 [45] K. Shamim, M. Azam, T. Islam, 2024. How do social media influencers induce the urge to buy  
514 impulsively? Social commerce context. *Journal of Retailing and Consumer Services*. 77,  
515 103621 <https://doi.org/10.1016/j.jretconser.2023.103621>
- 516 [46] J.L. Maggs, J.E. Schulenberg, 2004. Trajectories of alcohol use during the transition to  
517 adulthood. *Alcohol Research & Health*. 28(4), 195-201.
- 518 [47] R.W. Hingson, T. Heeren, M.R. Winter, 2006. Age at drinking onset and alcohol dependence:  
519 age at onset, duration, and severity. *Archives of pediatrics & adolescent medicine*. 160(7),  
520 739-746. <https://doi.org/10.1001/archpedi.160.7.739>
- 521 [48] E. Dresler, M. Anderson, 2018. Friends drinking together: Young adults' evolving support  
522 practices. *Health Education*, 118(3), 212-226. <https://doi.org/10.1108/HE-06-2017-0031>

- 523 [49] G.P. Moschis, 2012. Consumer behavior in later life: Current knowledge, issues, and new  
524 directions for research. *Psychology & Marketing*, 29(2), 57-75  
525 <https://doi.org/10.1002/mar.20504>
- 526 [50] L. Lockshin & A.M. Corsi, 2012. Consumer behaviour for wine 2.0: A review since 2003 and  
527 future directions. *Wine Economics and Policy*. 1(1), 2-23.  
528 <https://doi.org/10.1016/j.wep.2012.11.003>
- 529 [51] G. Agostinelli & J.W. Grube, 2002. Alcohol counter-advertising and the media: A review of  
530 recent research. *Alcohol Research & Health*. 26(1), 15-21.
- 531 [52] B. Pradhan, K.Kishore, N. Gokhale, 2023. Social media influencers and consumer engagement:  
532 A review and future research agenda. *International Journal of Consumer Studies*. 47(6), 2106-  
533 2130. <https://doi.org/10.1111/ijcs.12901>
- 534 [53] C. Flavián,, R. Gurrea, C. Orús, 2019. Feeling confident and smart with webrooming:  
535 understanding the consumer's path to satisfaction. *Journal of Interactive Marketing*. 47(1), 1-  
536 15. <https://doi.org/10.1016/j.intmar.2019.02.0>
- 537 [54] O. Kayam, T. Hirsch, 2012. Using social media networks to conduct questionnaire based  
538 research in social studies case study: Family language policy. *Journal of Sociological*  
539 *Research*. 3(2), 57-67. <https://doi.org/10.5296/jsr.v3i2.2176>
- 540 [55] A. Agresti, *Categorical Data Analysis*, third ed., Wiley, Hoboken, NJ, 2013.
- 541 [56] G. Shmueli, 2010. To explain or to predict? *Statistical Science*. 25(3), 289–310.  
542 <https://doi.org/10.1214/10-STS330>
- 543 [57] A.A. Khamis, S.Z. Salleh, M.S. Ab Karim, N.A. Mohd Rom, S. Janasekaran, A. Idris, R.B. Abd  
544 Rashid, 2022. Alcohol consumption patterns: a systematic review of demographic and  
545 sociocultural influencing factors. *International Journal of Environmental Research and Public*  
546 *Health*. 19(13), 8103. <https://doi.org/10.3390/ijerph19138103>
- 547 [58] C. Russo, C. Cardillo, M.A. Perito, 2025. Food Outshopping in Remote Rural Areas of Italy:  
548 Lessons from a Natural Experiment. *European Countryside*. 17(4), 678-693.  
549 <https://doi.org/10.2478/euco-2025-0034>
- 550 [59] M. Simeone, C. Russo, D. Scarpato, 2023. Price quality cues in organic wine market: is there a  
551 veblen effect? *Agronomy*. 13(2), 405. <https://doi.org/10.3390/agronomy13020405>
- 552 [60] S. Fabbrizzi, N. Marinelli, S. Menghini, L. Casini, 2017. Why do you drink? A means-end  
553 approach to the motivations of young alcohol consumers. *British Food Journal*. 119(8), 1854-  
554 1869. <https://doi.org/10.1108/BFJ-12-2016-0599>

555 [61] N. Marinelli, S. Fabbrizzi, V.A. Sottini, S. Sacchelli, I. Bernetti, S. Menghini, 2014. Generation  
556 Y, wine and alcohol. A semantic differential approach to consumption analysis in Tuscany.  
557 *Appetite*. 75, 117-127. <https://doi.org/10.1016/j.appet.2013.12.013>  
558  
559  
560  
561  
562  
563  
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Just Accepted