

Prevention and Education Review: Gambling-Related Harm

R E S E A R C H R E P O R T

2021

2.0 Universal Measures

2.2 Regulatory Restrictions on How Gambling is Provided

Publications included in the review

Table 1. Product

STUDY	COUNTRY	STUDY TYPE	FUNDING SOURCE
PRODUCT (RETRIEVED THROUGH SEARCH STRATEGY)			
Binde, P, Romild, U, Volberg, RA. Forms of gambling, gambling involvement and problem gambling: Evidence from a Swedish population survey (2017) ²⁸	Sweden	Secondary data analysis	Public Health Agency of Sweden
Calado, F, Alexandre, J, Griffiths, MD. Prevalence of adolescent problem gambling: A systematic review of recent research (2017) ²⁷	United Kingdom	Systematic review	No Funding Declared
Castrén, S, Perhoniemi, R, Kontto, J, Alho, H, Salonen, AH. Association between gambling harms and game types: Finnish population study (2018) ¹⁶	Finland	Secondary data analysis	Ministry of Social Affairs and Health, Helsinki, Finland
Chóliz, M. The challenge of online gambling: The effect of legalization on the increase in online gambling addiction (2016) ²³	Spain	Observational (cohort)	Spanish Federation of Gamblers in Recovery (FEJAR); University of Valencia
Chóliz, M, Marcos, M, Lázaro-Mateo, J. The risk of online gambling: A study of gambling disorder prevalence rates in Spain (2019) ²⁴	Spain	Prevalence study: Secondary data analysis	No Funding Declared
Costes, JM, Kairouz, S, Eroukmanoff V, Monson, E. Gambling patterns and problems of gamblers on licensed and unlicensed sites in France (2016) ¹⁷	France	Observational (cross-sectional)	Fonds de Recherche du Québec-Société et Culture (FRQ-SC)
Edelman, M. Regulating fantasy sports: A practical guide to state gambling laws, and a proposed framework for future state legislation (2017) ⁴⁴	United States	Legal policy review	No Funding Declared
Gainsbury SM, Abarbanel B, Blaszczynski A. Factors influencing Internet gamblers' use of offshore online gambling sites: Policy implications (2019) ¹⁸	Australia	Observational (cross-sectional)	No Funding Declared

Gainsbury S, Russell A, Blaszczynski A, Hing N. Greater involvement and diversity of Internet gambling as a risk factor for problem gambling (2015)19	Australia	Observational (cross-sectional)	Gambling Research Australia
Gainsbury SM, Russell AMT, Hing N, Blaszczynski A. Consumer engagement with and perceptions of offshore online gambling sites (2018)19	Australia	Observational (cross-sectional)	Australian Communication and Media Authority
GamCare. Briefing paper - GamCare annual statistics 2017/18 (2019)25	United Kingdom	Briefing paper	
George, S, Velleman, R, Nadkarni, A. Gambling in India: Past, present and future (2017)22	India	Review	No Funding Received
Hing, N, Vitartas, P, Lamont, M. Understanding persuasive attributes of sports betting advertisements: A conjoint analysis of selected elements (2017)41	Australia	Experimental	Sponsor referred to but not named
Kairouz, S, Paradis, C, Nadeau, L, Tovar, LM, Pousset, M. A cross-cultural comparison of population gambling patterns and regulatory frameworks: France and Québec (2016)31	France, Canada	Secondary data analysis	No Funding Declared
Lombi, L, Pedroni, M. Rethinking the approach to gambling disorder: The case of the Italian healthcare services (2019)26	Italy	Secondary data analysis, qualitative (case study)	Foundation for Subsidiarity (Fondazione per la Sussidiarietà, Italy)
Lopez-Gonzalez, H, Griffiths, MD. Sports betting and problem gambling: What can the United States expect based on other legalized markets? (2018)42	United States	Commentary	No funding declared
Lopez-Gonzalez, H, Griffiths, MD, Estévez, A. In-play betting, sport broadcasts, and gambling severity: A survey study of Spanish sports bettors on the risks of betting on sport while watching it (2020)43	Spain	Observational (cross-sectional)	Government of the Basque Country, Spain; Spanish Organization of the Blind
Lopez-Gonzalez H, Russell AMT, Hing N, Estévez A, Griffiths MD. A cross-cultural study of weekly sports bettors in Australia and Spain (2019)40	Australia, Spain	Observational (cross-sectional)	No Funding received
Markham, F, Young, M, Doran, B. The relationship between player losses and gambling-related harm: Evidence from nationally representative cross-sectional surveys in four countries (2016)14	Australia, Canada, Finland, Norway	Secondary data analysis	Department of Education, Australia
Parke, A, Parke, J. Transformation of sports betting into a rapid and continuous gambling activity: A grounded theoretical investigation of problem sports betting in online settings (2019)37	United Kingdom	Qualitative (grounded theory)	GambleAware (indirectly funded by industry)
Rodrigues-Silva, N. Scratch cards in Portugal: A hidden threat (2017)35	Portugal	Letter/brief report	No funding received
Rook H, Rippon R, Pauls R, Doust E, Prince J. Gambling Harm Reduction Needs Assessment (2018)30	New Zealand	Needs assessment	New Zealand Ministry of Health
PRODUCT (RETRIEVED THROUGH HANDSEARCHING)			
Booth L, Thomas S, Moodie R, Peeters A, White V, Pierce H, et al. Gambling-related harms attributable to lotteries products (2020)29	Australia	Descriptive (survey)	No funding received
Calado F, Griffiths MD. Problem gambling worldwide: An update and systematic review of empirical research (2000–2015) (2016)27	United Kingdom	Systematic review	No funding received
Gainsbury SM, Angus DJ, Blaszczynski A. Isolating the impact of specific gambling activities and modes on problem gambling and psychological distress in internet gamblers (2019)15	Australia	Descriptive (survey)	Australian Research Council Discovery Early Career Research Award
Gainsbury S, Russell A, Hing N, Wood R, Lubman DI, Blaszczynski A. The prevalence and determinants of problem gambling in Australia: Assessing the impact of interactive gambling and new technologies (2014)39	Australia	Descriptive (survey)	Gambling Research Australia

Hing N, Li E, Vitartas P, Russell AMT. On the spur of the moment: Intrinsic predictors of impulse sports betting (2018) ³⁸	Australia	Descriptive (survey)	No funding received
Hollén L, Dörner R, Griffiths MD, Emond A. Gambling in young adults aged 17–24 years: A population-based study (2020) ³³	United Kingdom	Descriptive (survey)	GambleAware (indirectly funded by industry), University of Bristol
King DL, Russell A, Hing N. Adolescent land-based and Internet gambling: Australian and international prevalence rates and measurement issues (2020) ³⁴	Australia	Literature review	Discovery Early Career Researcher Award (DECRA) funded by Australian Research Council (ARC)
Little A, Jarvinen-Tassopoulos J. Online gambling, regulation, and risks: A comparison of gambling policies in Finland and the Netherlands (2018) ²¹	Finland, The Netherlands	Descriptive (survey)	eCommerce Online Gaming Regulation and Assurance (eCOGRA)
Rossen FV, Clark T, Denny SJ, Fleming TM, Peiris-John R, Robinson E, et al. Unhealthy gambling amongst New Zealand secondary school students: An exploration of risk and protective factors (2016) ³⁶	New Zealand	Descriptive (survey)	Toshiba (Australia) Pty. Limited. Original funding from New Zealand Ministry of Health (Problem Gambling, Mental Health Service Improvement, Sector Capability and Implementation).

Table 2. Place

STUDY	COUNTRY	STUDY TYPE	FUNDING SOURCE
PLACE (RETRIEVED THROUGH SEARCH STRATEGY)			
Abbott, M, Stone, CA, Billi, R, Yeung, K. Gambling and problem gambling in Victoria, Australia: Changes over 5 years (2016) ⁶⁰	Australia	Secondary data analysis	The Victorian Department of Justice; The Victorian Responsible Gambling Foundation
Abbott, MW. Beyond Reno: A critical commentary on Hancock and Smith (2017) ⁵⁷	New Zealand	Commentary	No funding received
Allen & Clarke. Informing the 2015 gambling harm needs assessment (2015) ⁶⁴	New Zealand	Needs assessment	New Zealand Ministry of Health
Armstrong, AR, Thomas, A, Abbott, M. Gambling participation, expenditure and risk of harm in Australia, 1997-1998 and 2010-2011 (2018) ⁶¹	Australia	Secondary data analysis	No funding declared
Billieux, J, Achab, S, Savary, JF, Simon, O, Richter, F, Zullino, D, Khazaal, Y. Gambling and problem gambling in Switzerland (2016) ⁶²	Switzerland	Literature review	No funding received
Carrà, G, Crocama, C, and Bebbington, P. Gambling, geographical variations and deprivation: Findings from the adult psychiatric morbidity survey (2017) ⁶⁷	United Kingdom	Secondary data analysis	UK Department of Health
Geofutures. Secondary analysis of machines data: Examining the effect of proximity and concentration of B2 machines to gambling play (2016) ⁶⁸	United Kingdom	Secondary data analysis	Responsible Gambling Trust (indirectly funded by industry)
Ho, Y, Lam, LW, Lam, D. Gamble more than you want?: A study of casino servicescape, perceived control and unplanned gaming behaviors (2019) ⁴⁵	China	Observational (cross-sectional)	Institute for the Study of Commercial Gaming, University of Macau (funded by industry)
Ilicic, J, Baxter, SM. Hidden in the dark: Dim ambient lighting increases game play duration and total spend (2019) ⁴⁷	Australia	Experimental	Monash University Business School
Kang, K, Ok, JS, Kim, H, Lee, KS. The gambling factors related with the level of adolescent problem gambler (2019) ⁷¹	Korea	Secondary data analysis	No funding declared
Kato, H, Goto, R. Geographical accessibility to gambling venues and pathological gambling: An econometric analysis of pachinko parlours in Japan (2018) ⁷²	Japan	Economic analysis	Council for Addiction Behaviour Studies, Japan [grant number 2014]
Kim, HS, Salmon, M, Wohl, MJA, Young, M. A dangerous cocktail: Alcohol consumption increases suicidal ideations among problem gamblers in the general population (2016) ⁴⁹	Canadians	Secondary data analysis	Ontario Problem Gambling Research Centre

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Kruse, K, White, J, Walton, DK, and Tu, D. Changes in risky gambling prevalence among a New Zealand population cohort (2016) ⁸⁰	New Zealand	Prevalence (cohort)	New Zealand Ministry of Health
Macdonald, L, Olsen, JR, Shortt, NK, and Ellaway, A. Do 'environmental bads' such as alcohol, fast food, tobacco, and gambling outlets cluster and co-locate in more deprived areas in Glasgow City, Scotland? (2018) ⁶⁵	Great Britain	Spatial analysis	Neighbourhoods and Communities Programme, University of Glasgow
Maltzahn, K, Vaughan, R, Griffin, T, Thomas, D, Stephens, R, Whiteside, M, Maclean, S. Pleasures and risks associated with bingo playing in an Australian Aboriginal community: Lessons for policy and intervention (2019) ⁴⁸	Australia	Qualitative (case study)	Mallee District Aboriginal Services; Victorian Responsible Gambling Foundation
Meyer, G, Kalke, J, Hayer, T. The impact of supply reduction on the prevalence of gambling participation and disordered gambling behavior: A systematic review (2018) ⁵⁴	Germany	Systematic review	No funding received
Rolando, S, Scavarda, A, Jarre, P, Beccaria, F. The social debate about gambling regulation in Italy: An analysis of stakeholders' arguments (2020) ⁶⁹	Italy	Qualitative (content analysis)	Piedmont regional administration through the Fund for Compulsive Gambling; Local Addiction unit of Naples and the GESCO consortium; Regione Campania
Xouridas, S. Gambling on Electronic Gaming Machines in Germany: An age-period-cohort analysis (2018) ⁷⁰	Germany	Observational (cross-sectional)	No funding received
Wardle, H. Perceptions, people and place: Findings from a rapid review of qualitative research on youth gambling (2019) ⁷³	United Kingdom	Rapid evidence review	Wellcome Trust
Welte, JW, Tidwell, MCO, Barnes, GM, Hoffman, JH, Wieczorek, WF. The relationship between the number of types of legal gambling and the rates of gambling behaviors and problems across U.S. states (2016) ⁶⁶	United States	Survey	National Institute on Alcohol Abuse and Alcoholism
Williams RJ, Volberg RA, Stevens RMG. The population prevalence of problem gambling: Methodological influences, standardized rates, jurisdictional differences, and worldwide trends (2012) ⁵⁶	Many countries are represented in prevalence studies	Review	Ontario Problem Gambling Research Centre; Ontario Ministry of Health and Long-Term Care
PLACE (RETRIEVED THROUGH HANDSEARCHING)			
Abbott M. Gambling control and public health: Let's be really honest. (2020) ⁵⁹	New Zealand	Commentary	No funding received
Gainsbury S, Russell A, Hing N, Wood R, Lubman DI, Blaszczynski A. The prevalence and determinants of problem gambling in Australia: Assessing the impact of interactive gambling and new technologies (2014) ³⁹	Australia	Descriptive (survey)	Gambling Research Australia
LaPlante D, Grau H, Williams P, Nelson S. An empirical review of gambling expansion and gambling-related harm (2018) ⁵¹	United States	Literature review and "empirical comparison"	National Institutes of Health (USA), DraftKings, Foundation for Advancing Alcohol Responsibility, Tun Wah Group of Hospitals, Mass. Gaming Commission, Mass. Dept. of Public Health
Lund I. Gambling behaviour and the prevalence of gambling problems in adult EGM gamblers when EGMs are banned. A natural experiment (2009) ⁵⁵	Norway	Prospective panel	Norwegian Institute for Alcohol and Drug Research (SIRUS)
Prentice C. Service quality perception and casino player loyalty. In: Obal MW, Krey N, Bushardt C, editors. Let's get engaged! Crossing the threshold of marketing's engagement era (2016) ⁴⁶	Malaysia	Conference paper	No funding declared
Shaffer HJ, Blaszczynski A, Ladouceur R. Gambling control and public health: Let's be honest (2020) ⁵⁸	United States, Australia, Canada	Commentary	No funding received

Wardle H, Keily R, Astbury G, Reith G. 'Risky places?': Mapping gambling machine density and socio-economic deprivation (2014) ⁵³	Great Britain	Secondary data analysis	Responsible Gambling Fund (indirectly funded by industry)
Welte JW, Barnes GM, Tidwell M-CO, Wieczorek WF. Predictors of problem gambling in the U.S. (2017) ⁶⁶	United States	Secondary data analysis	National Institute on Alcohol Abuse and Alcoholism

Table 3. Case studies

STUDY	COUNTRY	STUDY TYPE	FUNDING SOURCE
CITED IN CASE STUDIES (RETRIEVED THROUGH SEARCH STRATEGY)			
Abbott M. Gambling and gambling harm in New Zealand: A 28-year case study (2017) ⁷⁹	New Zealand	Secondary data analysis	No funding declared
ACIL Allen Consulting. Fourth social and economic impact study of gambling in Tasmania (2017) ⁷⁷	Australia	Impact study	Tasmanian Government Department of Treasury and Finance
Bestman, A, Thomas, S, Randle, M, Pitt, H, Daube, M, Pettigrew, S. Shaping pathways to gambling consumption? An analysis of the promotion of gambling and non-gambling activities from gambling venues (2016) ⁹⁸	Australia	Qualitative (content analysis)	No funding declared
Betting and Gaming Council. Review of gambling industry's voluntary "whistle-to-whistle" (W2W) advertising restrictions (2020) ⁹⁶	United Kingdom	Qualitative (content analysis)	Betting and Gaming Council (industry funded)
Browne, M, Hing, N, Russell, AMT, Thomas, A, Jenkinson, R. The impact of exposure to wagering advertisements and inducements on intended and actual betting expenditure: An ecological momentary assessment study (2019) ⁹⁴	Australia	Observational (cohort)	Victorian Responsible Gambling Foundation
Browne M, Rockloff M, Hing N, Russell A, Boyle C, Rawat V, et al. NSW Gambling Survey, 2019 (2019) ⁹⁹	Australia	Observational (cross-sectional)	NSW Responsible Gambling Fund (indirectly funded by industry)
Bubonya, M, Byrne, DP. Supplying slot machines to the poor (2020)Figure 1; a	Australia	Secondary data analysis	Kinsman Scholar Program
Gainsbury, SM, Delfabbro, P, King, DL, Hing, N. An exploratory study of gambling operators' use of social media and the latent messages conveyed (2016) ¹⁰⁰	Australia	Qualitative (content analysis)	Gambling Research Australia
Gallopel Morvan, K, Spilka, S, Mutatayi, C, Rigaud, A, Lecas, F, Beck, F. France's Évin Law on the control of alcohol advertising: Content, effectiveness and limitations (2017) ¹¹²	France	Observational (cross-sectional)	French Monitoring Centre on Drugs and Drug Addiction
Hing, N, Russell, AMT, Li, E, Vitartas, P. Does the uptake of wagering inducements predict impulse betting on sport? (2018) ¹⁰⁸	Australia	Observational (cross-sectional)	Southern Cross University
Hörnle, J, Carran, MA. A sieve that does hold a little water-gambling advertising and protection of the vulnerable in the UK (2018) ⁹⁰	United Kingdom	Review	No funding declared
Hornle J, Schmidt-Kessen M, Littler A, Padumadasa E. Regulating online advertising for gambling - once the genie is out of the bottle... ¹⁰⁶	United Kingdom, Denmark, Netherlands	Commentary	European Commission
Jackson, AC, Christensen, DR, Francis, KL, Dowling, NA. Consumer perspectives on gambling harm minimisation measures in an Australian jurisdiction (2016) ⁷⁸	Australia	Observational (cross-sectional)	No funding declared
Killick EA, Griffiths MD. A content analysis of gambling operators' twitter accounts at the start of the english premier league football season (2019) ¹⁰⁴	United Kingdom	Qualitative (content analysis)	No funding received
Kruse, K, White, J, Walton, DK, Tu, D. Changes in risky gambling prevalence among a New Zealand population cohort (2016) ⁸⁰	New Zealand	Prevalence (cohort)	New Zealand Ministry of Health

Lobstein T, Landon J, Thornton N, Jernigan D. Use of digital media for alcohol marketing: Response to Carah & Meurk (2017) ¹¹⁰	Australia	Letter to the editor	No funding Declared
Lopez-Gonzalez, H, Griffiths, MD, Jimenez-Murcia, S, Estévez, A. The perceived influence of sports betting marketing techniques on disordered gamblers in treatment (2019) ⁸⁹	Spain	Qualitative	Government of the Basque Country, Spain; Spanish Organization of the Blind
Miller C, Krasodomski-Jones A, Smith J. Gambling & Social Media (2016) ¹⁰²	United Kingdom	Mixed methods	Responsible Gambling Trust (indirectly funded by industry)
Monteiro, MG, Babor, TF, Jernigan, D, Brookes, C. Alcohol marketing regulation: From research to public policy (2017) ¹¹³	United States	Introduction to supplement	Alcohol Research UK; The Institute of Alcohol Studies
Nordmyr, J, Österman, K. Raising the legal gambling age in Finland: Problem gambling prevalence rates in different age groups among past-year gamblers pre- and post-implementation (2016) ⁸⁴	Finland	Secondary data analysis	Competitive State Research Financing of the Expert Responsibility area of Tampere University Hospital; Finnish Foundation for Alcohol Studies (partly funded by Alko retail alcohol monopoly); Höögskolestiftelsen i Österbotten (University Foundation of Ostrobothnia)
Parrado-González, A, León-Jariego, JC. Exposure to gambling advertising and adolescent gambling behaviour. Moderating effects of perceived family support (2020) ⁹³	Spain	Observational (cross-sectional)	Andalusian Research Plan; Research Plan of the University of Huelva
Petticrew, M, Shemilt, I, Lorenc, T, Marteau, TM, Melendez-Torres, GJ, O'Mara-Eves, A, Stautz, K, Thomas, J. Alcohol advertising and public health: Systems perspectives versus narrow perspectives (2017) ¹¹⁴	United Kingdom	Critical analysis	Medical Research Council (MRC) Methods Research Programme
Philander, KS. Regional impacts of casino availability on gambling problems: Evidence from the Canadian Community Health Survey (2019) ⁸⁸	Canada	Secondary data analysis	No funding received
Purves, RI, Critchlow, N, Morgan, A, Stead, M, Dobbie, F. Examining the frequency and nature of gambling marketing in televised broadcasts of professional sporting events in the United Kingdom (2020) ⁹⁷	United Kingdom	Qualitative (content analysis)	GambleAware (indirectly funded by industry)
Reith G, Wardle H, Gilmore I. Gambling harm: A global problem requiring global solutions (2019) ⁷⁴	United Kingdom	Commentary	No funding received
Rossow, I, Hansen, MB. Gambling and gambling policy in Norway-an exceptional case (2016) ⁸⁵	Norway	Review, content analysis	No funding received
Saffer, H, Dave, D, Grossman, M. A behavioral economic model of alcohol advertising and price (2016) ¹¹⁵	United States	Secondary data analysis	No funding declared
Stevens, M, Livingstone, C. Evaluating changes in electronic gambling machine policy on user losses in an Australian jurisdiction (2019) ⁷⁵	Australia	Secondary data analysis	No funding received
Smith C, Wolstenholme A, Duffy C. Shutdown periods for electronic gaming machines (2019) ⁵⁰	Australia	Mixed methods	NSW Responsible Gambling Fund (indirectly funded by industry)
CITED IN CASE STUDIES (RETRIEVED THROUGH HANDSEARCHING)			
Bu ETH, Skutle A. After the ban of slot machines in Norway: A new group of treatment-seeking pathological gamblers?86	Norway	Descriptive (survey)	Norwegian Research Council
Clemens F, Hanewinkel R, Morgenstern M. Exposure to gambling advertisements and gambling behavior in young people (2017) ⁹²	Germany	Observational (cross-sectional)	Ministry of Social Affairs, Health, Science; Equality of Land Schleswig-Holstein

Delfabbro P. Evaluating the effectiveness of a limited reduction in electronic gaming machine availability on perceived gambling behaviour and objective expenditure (2008)76	Australia	Secondary data analysis; Observational (cross-sectional)	No funding declared
Gainsbury SM, King DL, Hing N, Delfabbro P. Social media marketing and gambling: An interview study of gambling operators in Australia (2015)101	Australia	Qualitative	Gambling Research Australia
Gambling Commission. Gambling Commission sets the industry tough challenges in race to accelerate progress to raise standards and reduce gambling harm (2020)105	United Kingdom	News article	No funding declared
Gainsbury S, King D, Delfabbro P, Hing N, Russell A, Blaszczynski A, et al. The use of social media in gambling (2015)103	Australia	Mixed methods	Gambling Research Australia
Hanss D, Mentzoni RA, Griffiths MD, Pallesen S. The impact of gambling advertising: Problem gamblers report stronger impacts on involvement, knowledge, and awareness than recreational gamblers (2015)91	Norway	Secondary data analysis	Norwegian Gaming and Foundation Authority
Ipsos MORI. Final synthesis report: The effect of gambling marketing and advertising on children, young people and vulnerable adults (2020)95	United Kingdom	Mixed methods	GambleAware (indirectly funded by industry)
Jernigan D, Noel J, Landon J, Thornton N, Lobstein T. Alcohol marketing and youth alcohol consumption: a systematic review of longitudinal studies published since 2008 (2017)109	United States, United Kingdom, Australia	Systematic review	Alcohol Research UK; Institute of Alcohol Studies
LaPlante DA, Shaffer HJ. Understanding the influence of gambling opportunities: Expanding exposure models to include adaptation (2007)83	United States	Narrative review	National Centre for Responsible Gambling (funded by industry); bwin.com Interactive Entertainment AG
Lamont M, Hing N, Vitartas P. Affective response to gambling promotions during televised sport: A qualitative analysis (2016)107	Australia	Qualitative	Queensland Department of Justice and Attorney General
Noel JK, Babor TF. Does industry self-regulation protect young people from exposure to alcohol marketing? A review of compliance and complaint studies (2017)111	United States	Review	Alcohol Research UK; Institute of Alcohol Studies
Rossow I, Hansen MB, Storrøll EE. Changes in youth gambling after the removal of slot machines in Norway (2013)87	Norway	Intervention study with follow-up	Norwegian Research Council; Norwegian Institute for Alcohol and Drug Research (SIRUS)
Tu D, Gray RJ, Walton DK. Household experience of gambling-related harm by socio-economic deprivation in New Zealand: Increases in inequality between 2008 and 2012 (2014)81	New Zealand	Secondary data analysis	Ministry of Health
Wren J, New Zealand, Ministry of Health. Progress on gambling harm reduction 2010 to 2017: Outcomes report - New Zealand strategy to prevent and minimise gambling harm (2019)82	New Zealand	Outcomes report	New Zealand Ministry of Health