Codebook for Virtual Casino Gambling:

February 2005 through February 2007

This codebook provides information about the raw and analytic datasets that provided the evidence base for research focusing on actual Internet casino gambling (LaBrie et al., 2008). These datasets derive from the collaborative Internet gambling research project between the Division on Addictions (DOA) and bwin Interactive Entertainment, AG (bwin), an Internet betting service provider headquartered in Vienna, Austria. These datasets provide evidence from twenty four months of the prospective longitudinal, real-time, Internet casino betting behavior.

The datasets contain raw and analytic data representing twenty four months of aggregated betting behavior data for 4222 sequential bwin Internet casino subscribers who opened an account with bwin during the period from February 1, 2005 through February 28, 2005. These subscribers had at least one non-zero betting activity during the study period (February 1, 2005 till January 31, 2007) and played more than 3 times during the study period. The DOA excluded records that took place before the first pay-in date (i.e., variable Fstpdate in raw dataset Demographics) in the preparation of this dataset. The exclusion controlled for activities financed by promotional money that might not reflect the participants' behavior when personal funds are at stake.

Source(s): Division on Addictions, Cambridge Health Alliance, a teaching affiliate of Harvard Medical School

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Sponsor(s): bwin, Interactive Entertainment, AG

Related publication(s): LaBrie, R. A., Kaplan, S. A, LaPlante, D. A., Nelson, S. E., & Shaffer, H. J. (2008). Inside the virtual casino: a prospective longitudinal study of actual Internet casino gambling. *European Journal of Public Health*, 18, 410 – 416.

Raw Dataset I - Demographics

The raw dataset, Demographics, contains the following demographic information of casino players: UserID, Country (Appendix 1), Language (Appendix 2), Gender, RegDate (Registration Date), Fstcadate (First Casino Active Date), and Fstpdate (First Paying Date). Information about City of Residence and Date of Birth are censored to protect participant privacy and comply with institutional review board (IRB) requirements.

Raw Dataset II - DailyAggregation

The raw dataset, DailyAggregation, contains the actual betting information associated with casino product for each participant for each calendar day with at least one transaction from February 1, 2005 through February 28, 2007. This dataset contains the following information: UserID, Date, Stake, Winnings, and Bets. All transactions have been converted to Euros.

Analytic Dataset - Actual Internet Sports Gambling Activity: February 2005 through February 2007

This analytic dataset contains actual betting behavior virtual casino betting for each participant aggregated over the twenty-four-month study period from February 1, 2005 through February 28, 2007.

The DOA transferred the following variables for each participant from the raw dataset Demographics to the analytic dataset: UserID, Country, Language, Gender, RegDate, Fstpdate, and computed ageRDate (age at registration) from the raw dataset Demographics.

The DOA computed the following measures for betting by summing the data in raw dataset DailyAggregation: casino sum of stakes, casino sum of winnings, casino sum of bets, casino total active days, casino days from first to last play, casino net losses, average size of stakes per bet, and percent of days bet from first to last play. The DOA also identified casino first and last active dates and users who are in the top 5% of total casino stakes and top 5% of net losses.

Variables in Raw Dataset I "Demographics"

Variable	Data Type	Description	N	Min	Max	Note
UserID	Numeric	User ID	4222	1324364	1405181	User ID was assigned to each participant by bwin at time of registration.
Country	Numeric	Country of residence	4222	20	891	Please see appendix 1.
Language	Numeric	Primary language	4222	1	20	Please see appendix 2.

Gender	Numeric	Gender	4222	0	1	0: female; 1: male
RegDate	Date	Registration date	4222	01-Feb-2005	28-Feb-2005	Date of registration
Fstcadate	Date	First casino active date	4222	01-Feb-2005	30-Jan-2007	First casino active date from bwin (may happen before the first paying date if played with promotion funds)
Fstpdate	Date	First pay-in date	4222	01-Feb-2005	25-Jan-2007	Participant's first betting money deposits date

Variables in Raw Dataset II "DailyAggregation"

Variable	Data Type	Description	N	Min	Max	Note
UserID	Numeric	User ID	102165	1324364	1405181	User ID was assigned to each participant by bwin at time of registration.
Date	Date	Activity date	102165	01-Feb-2005	28-Feb-2007	Date the bet was made
Stake	Numeric	Stake	102165	0	308002.10	Amount of money paid for stakes per day
Winnings	Numeric	Winnings	102165	-150.00	344539.50	Total betting winnings on a given day (Euro). The negative numbers were due to the accounting system corrections.
Bets	Numeric	Number of bets	102165	0	10817.00	Number of bets per day

Variables in Analytic Dataset "Internet Casino Gambling Activity: February 2005 through February 2007"

Variable	Data Type	Description	N	Min	Max	Note
UserID	Numeric	User ID	4222	1324364	1405181	User ID was assigned to each participant by bwin at time of registration.
Country	Numeric	Country	4222	20	891	Please see appendix 1.
Language	Numeric	Language spoken	4222	1	20	Please see appendix 2.
Gender	Numeric	Gender	4222	0	1	0: female; 1: male
RegDate	Date	Registration date	4222	01-Feb-2005	28-Feb-2005	Registration date
AgeRDate	Numeric	Age at registration	4222	16	87	Age as of registration date
Fstcad	Date	First active casino date from bwin	4222	01-Feb-2005	30-Jan-2007	First casino active date from bwin
Fstpd	Date	First active paying date	4222	01-Feb-2005	25-Jan-2007	Participant's first betting money deposits date
Pcsumstk	Numeric	Casino total stakes	4222	0.12	3439061.61	Casino sum of stakes
Pcsumwin	Numeric	Casino total winnings	4222	0	3394818.99	Casino sum of winnings
Pcsumbet	Numeric	Casino total number of bets	4222	4	244018.00	Casino sum of bets
Pcfstdate	Numeric	Casino first active date	4222	01-Feb-2005	30-Jan-2007	Casino first active date
Pclstdate	Numeric	Casino last active date	4222	06-Feb-2005	28-Feb-2007	Casino last active date
Pcsumday	Numeric	Total days	4222	4	524	Casino total active days
Pcintday	Numeric	Interval of days	4222	4	757	Casino days from first to last play
Pcnet	Numeric	Net losses	4222	-16306.20	82437.17	Casino stakes minus winnings
Pcab	Numeric	Average size of stakes per bet	4222	0	7920.48	Average size of casino stakes per bet
Pcdayspc	Numeric	Percent days bet	4222	0.55	100	Percent of days bet from

						first to last play
TOPsmstk	Numeric	Top 5% on casino total stakes	4222	0	1	1: belongs to 5%, 0: does not belong
TOPpcnet	Numeric	Top 5% on casino net losses	4222	0	1	1: belongs to 5%, 0: does not belong

Appendix 1: Codings for Country

Country	Country Name
4	Afghanistan
8	Albania
10	Antarctica
12	Algeria
16	American Samoa
20	Andorra
24	Angola
28	Antigua and Barbuda
31	Azerbaijan
32	Argentina
36	Australia
40	Austria
44	Bahamas
48	Bahrain
50	Bangladesh
51	Armenia
52	Barbados
56	Belgium
60	Bermuda
64	Bhutan
68	Bolivia
70	Bosnia and Herzegovina
72	Botswana
74	Bouvet Island
76	Brazil
84	Belize
86	British Indian Ocean Territory
90	Solomon Islands

92	Virgin Islands (British)
96	Brunei Darussalam
100	Bulgaria
104	Myanmar
108	Burundi
112	Belarus
116	Cambodia
120	Cameroon
124	Canada
132	Cape Verde
136	Cayman Islands
140	Central African Republic
144	Sri Lanka
148	Chad
152	Chile
156	China
158	Taiwan
162	Christmas Island
166	Cocos (Keeling) Islands
170	Colombia
174	Comoros
175	Mayotte
178	Congo
180	the Democratic Republic of the Congo
184	Cook Islands
188	Costa Rica
191	Croatia
192	Cuba
196	Cyprus
203	Czech Republic
204	Benin

208	Denmark
212	Dominica
214	Dominican Republic
218	Ecuador
222	El Salvador
226	Equatorial Guinea
231	Ethiopia
232	Eritrea
233	Estonia
234	Faroe Islands
238	Falkland Islands
242	Fiji
246	Finland
250	France
254	French Guinea
258	French Polynesia
260	French Southern Territories
262	Djibouti
266	Gabon
268	Georgia
270	Gambia
276	Germany
288	Ghana
292	Gibraltar
296	Kiribati
300	Greece
304	Greenland
308	Grenada
312	Guadeloupe
316	Guam
320	Guatemala

324	Guinea
328	Guyana
332	Haiti
334	Heard and Mc Donald Islands
336	Vatican City State (Holy See)
340	Honduras
344	Hong Kong
348	Hungary
352	Iceland
356	India
360	Indonesia
364	Iran
368	Iraq
372	Ireland
376	Israel
380	Italy
384	Cote d'Ivoire
388	Jamaica
392	Japan
398	Kazakhstan
400	Jordan
404	Kenya
408	Korea, Republic of
410	Korea (South)
414	Kuwait
417	Kyrgyzstan
418	Lao Peoples Democratic Republic
422	Lebanon
426	Lesotho
428	Latvia
430	Liberia

434	Libya
438	Liechtenstein
440	Lithuania
442	Luxembourg
446	Macau
450	Madagascar
454	Malawi
458	Malaysia
462	Maldives
466	Mali
470	Malta
474	Martinique
478	Mauritania
480	Mauritius
484	Mexico
492	Monaco
496	Mongolia
498	Moldavia
500	Montserrat
504	Morocco
508	Mozambique
512	Oman
516	Namibia
520	Nauru
524	Nepal
528	Holland
530	Netherlands Antilles
533	Aruba
540	New Caledonia
548	Vanuatu
554	New Zealand

558	Nicaragua
562	Niger
566	Nigeria
570	Niue
574	Norfolk Island
578	Norway
580	Northern Mariana Islands
581	Unites States Minor Outlying Islands
583	Micronesia, Federated States of
584	Marshall Islands
585	Palau
586	Pakistan
591	Panama
598	Papua New Guinea
600	Paraguay
604	Peru
608	Philippines
612	Pitcairn
616	Poland
620	Portugal
624	Guinea-Bissau
626	East Timor
630	Puerto Rico
634	Qatar
638	Reunion
642	Romania
643	Russian Federation
646	Rwanda
654	St. Helena
659	Saint Kitts and Nevis
660	Anguilla

662	St. Lucia
666	St. Pierre and Miquelon
670	Saint Vincent and the Grenadines
674	San Marino
678	Sao Tome and Principe
682	Saudi Arabia
686	Senegal
690	Seychelles
694	Sierra Leone
702	Singapore
703	Slovakia
704	Vietnam
705	Slovenia
706	Somalia
710	South Africa
716	Zimbabwe
724	Spain
732	Western Sahara
736	Sudan
740	Suriname
744	Svalbard and Jan Mayen Islands
748	Swaziland
752	Sweden
756	Switzerland
760	Syria
762	Tajikistan
764	Thailand
768	Togo
772	Tokelau
776	Tonga
780	Trinidad and Tobago

784	United Arab Emirates
788	Tunesia
792	Turkey
795	Turkmenistan
796	Turks and Caicos Islands
798	Tuvalu
800	Uganda
804	Ukraine
807	FYR Macedonia
818	Egypt
826	United Kingdom
834	Tanzania
840	USA
850	United States Virgin Islands
854	Burkina Faso
858	Uruguay
860	Uzbekistan
862	Venezuela
876	Wallis and Futuna Islands
882	Samoa (Independent)
887	Yemen
891	Serbia and Montenegro
894	Zambia
895	Diego Garcia
896	Ascension
897	Australian overseas territories
898	Tokelau
1000	Undefined

Appendix 2: Codings for Language

Language	Language Description
1	English
2	German
3	Italian
4	Spanish
5	Swedish
6	French
7	Turkish
8	Greek
9	Polish
10	Norwegian
11	Danish
12	Catalan
13	Czech
14	Hungarian
15	Dutch
16	Portuguese
17	Russian
18	Slovenian
19	Croatian
20	Slovak
21	Simple Chinese
22	Traditional Chinese