|  |  |  |
| --- | --- | --- |
| **Column number** | **Variable name** | **Description** |
| A | Case\_ID | Participant number (1-352). |
| B | Type\_of\_population | General vs. Forensic population:   1. General population 2. Forensic population |
| C | Gender | Gender:   1. Female 2. Male |
| D | Age\_range | Reported age:   * Initial value is converted into a range to make participants less identifiable. This was achieved by subtracting a random number between 1 and 10 from the exact age (lower bound) and adding a random number between 1 and 10 to the exact age (upper bound). * Empty cell: unspecified * Note: All participants are aged above 18 |
| E | Education | Reported highest level of education:   1. No education completed 2. Some schooling 3. Some college 4. Unspecified |
| F | Marital\_status | Reported marital status:   1. Single 2. Married 3. Other |
| G | Employment\_status | General population sample: Do you work?  Forensic population sample: Did you work before you were incarcerated?   1. No 2. Yes 3. Unspecified |
| H | Occupational\_class | Occupational class:   1. Occupational class 1 2. Occupational class 2 3. Occupational class 3 4. Declined Occupations 5. Other |
| I | Time\_in\_incarceration | Time in incarceration interval (applies only for the forensic sample)   1. < 1 year 2. 1 - 3 years 3. 3 - 6 years 4. > 6 years 5. Unspecified |
| J | Recidivism | Is it your first time in prison? (applies only for the forensic sample)   1. No 2. Yes 3. Unspecified |
| K | Crime\_category | Main categories of reported crimes: (applies only for the forensic sample)   1. Drug-related 2. Murder 3. Burglary/Robbery 4. Terrorism 5. Other |
| L | PAPA1 | F3. 1. I am only interested in myself. |
| M | PAPA2 | F3. 2. I will use people to get what I want. |
| N | PAPA3 | F1. 3. I often take chances that could be risky to me or others. |
| O | PAPA4 | F1. 4. I often don’t think of the consequences of my actions. |
| P | PAPA5 | 5. As a person, I have never changed. |
| Q | PAPA6 | F3. 6. I have been described as a cruel person who does not worry about hurting others. |
| R | PAPA7 | F4. 7. Others would describe me as an irritable person with problems controlling my temper. |
| S | PAPA8 | F4. 8. I see a lot of hostility around me. |
| T | PAPA9 | F4. 9. I regularly view others as lazy. |
| U | PAPA10 | F3. 10. I find most people are weak and not worth bothering with. |
| V | PAPA11 | F1. 11. I find it impossible to resist temptation. |
| W | PAPA12 | F1. 12. I often get into trouble more than others. |
| X | PAPA13 | F2. 13. I find it difficult to comfort others when they are upset. |
| Y | PAPA14 | F3. 14. I am not that bothered about others. |
| Z | PAPA15 | F4. 15. The world is a threatening place, you have to 'watch your back'. |
| AA | PAPA16r | F2. 16r. I often feel in touch with other people's feelings. |
| AB | PAPA17 | F3. 17. If I am caught out on a lie I can quickly think of a way out. |
| AC | PAPA18r | F4. 18r. I often experience strong positive emotions, such as happiness and joy. |
| AD | PAPA19 | F1. 19. I am able to commit a wide number of behaviours that, if caught, would get me into trouble. |
| AE | PAPA20 | F3. 20. I can often find myself viewing others as nothing more than 'objects' or things to be used. |
| AF | PAPA21 | F4. 21. I am an aggressive person in a number of situations. |
| AG | PAPA22 | F1. 22. I use illegal drugs, or those that are not prescribed to me, more than most people I know. |
| AH | PAPA23 | F2. 23. I find it difficult to give emotional and personal support to others. |
| AI | PAPA24r | F3. 24r. If I do something wrong I will feel bad about it. |
| AJ | PAPA25 | F3. 25. I often find myself thinking that I am more important than others. |
| AK | PAPA26r | F2. 26r. I always accept responsibility for what I do. |
| AL | PAPA27 | F4. 27. I often find people behave aggressively or in a hostile manner towards me. |
| AM | PAPA28 | F4. 28. Others would describe me as a very intense person who has difficulty getting on with others. |
| AN | PAPA29 | F1. 29. As a child I often got into trouble more than others. |
| AO | LSRP1 | P1. Success is based on survival of the fittest; I am not concerned about the losers. |
| AP | LSRP2 | P2. For me, what's right is whatever I can get away with. |
| AQ | LSRP3 | P3. In today's world, I feel justified in doing anything I can get away with to succeed. |
| AR | LSRP4 | P4. My main purpose in life is getting as many goodies as I can. |
| AS | LSRP5 | P5. Making a lot of money is my most important goal. |
| AT | LSRP6 | P6. I let others worry about higher values; my main concern is with the bottom line. |
| AU | LSRP7 | P7. People who are stupid enough to get ripped off usually deserve it. |
| AV | LSRP8 | P8. Looking out for myself is my top priority. |
| AW | LSRP9 | P9. I tell other people what they want to hear so that they will do what I want them to do. |
| AX | LSRP10r | P10r. I would be upset if my success came at someone else's expense. |
| AY | LSRP11 | P11. I often admire a really clever scam. |
| AZ | LSRP12r | P12r. I make a point of trying not to hurt others in pursuit of my goals. |
| BA | LSRP13 | P13. I enjoy manipulating other people's feelings. |
| BB | LSRP14r | P14r. I feel bad if my words or actions cause someone else to feel emotional pain. |
| BC | LSRP15r | P15r. Even if I were trying very hard to sell something, I wouldn't lie about it. |
| BD | LSRP16r | P16r. Cheating is not justified because it is unfair to others. |
| BE | LSRP17 | S17. I find myself in the same kinds of trouble, time after time. |
| BF | LSRP18 | S18. I am often bored. |
| BG | LSRP19r | S19r. I find that I am able to pursue one goal for a long time. |
| BH | LSRP20 | S20. I don't plan anything very far in advance. |
| BI | LSRP21 | S21. I quickly lose interest in tasks I start. |
| BJ | LSRP22 | S22. Most of my problems are due to the fact that other people just don't understand me. |
| BK | LSRP23r | S23r. Before I do anything, I carefully consider the possible consequences. |
| BL | LSRP24 | S24. I have been in a lot of shouting matches with other people. |
| BM | LSRP25 | S25. When I get frustrated, I often "let off steam" by blowing my top. |
| BN | LSRP26 | S26. Love is overrated. |
| BO | BES1r | AE1r. My friends’ emotions don’t affect me much |
| BP | BES2 | AE2. After being with a friend who is sad about something, I usually feel sad |
| BQ | BES3 | CE3. I can understand my friend’s happiness when they do well at something |
| BR | BES4 | AE4. I get frightened when I watch characters in a good scary movie |
| BS | BES5 | AE5. I get caught up in other people’s feelings easily |
| BT | BES6 | CE6. I find it hard to know when my friends are frightened |
| BU | BES7r | AE7r. I don’t become sad when I see other people crying |
| BV | BES8r | AE8r. Other people’s feeling don’t bother me at all |
| BW | BES9 | CE9. When someone is feeling ‘down’ I can usually understand how they feel |
| BX | BES10 | CE10. I can usually work out when my friends are scared |
| BY | BES11 | AE11. I often become sad when watching sad things on TV or in films |
| BZ | BES12 | CE12. I can often understand how people are feeling even before they tell me |
| CA | BES13r | AE13r. Seeing a person who has been angered has no effect on my feelings |
| CB | BES14 | CE14. I can usually work out when people are cheerful |
| CC | BES15 | AE15. I tend to feel scared when I am with friends who are afraid |
| CD | BES16 | CE16. I can usually realize quickly when a friend is angry |
| CE | BES17 | AE17. I often get swept up in my friends’ feelings |
| CF | BES18r | AE18r. My friend’s unhappiness doesn’t make me feel anything |
| CG | BES19r | CE19r. I am not usually aware of my friends’ feelings |
| CH | BES20 | CE20. I have trouble figuring out when my friends are happy |
| CI | BFI1 | E1. Is talkative. |
| CJ | BFI2r | A2r. Tends to find fault with others |
| CK | BFI3 | C3. Does a thorough job |
| CL | BFI4 | N4. Is depressed, blue |
| CM | BFI5 | O5. Is original, comes up with new ideas |
| CN | BFI6r | E6r. Is reserved |
| CO | BFI7 | A7. Is helpful and unselfish with others |
| CP | BFI8r | C8r. Can be somewhat careless |
| CQ | BFI9r | N9r. Is relaxed, handles stress well |
| CR | BFI10 | O10. Is curious about many different things |
| CS | BFI11 | E11. Is full of energy |
| CT | BFI12r | A12r. Starts quarrels with others |
| CU | BFI13 | C13. Is a reliable worker |
| CV | BFI14 | N14. Can be tense |
| CW | BFI15 | O15. Is ingenious, a deep thinker |
| CX | BFI16 | E16. Generates a lot of enthusiasm |
| CY | BFI17 | A17. Has a forgiving nature |
| CZ | BFI18r | C18r. Tends to be disorganized |
| DA | BFI19 | N19. Worries a lot |
| DB | BFI20 | O20. Has an active imagination |
| DC | BFI21r | E21r. Tends to be quiet |
| DD | BFI22 | A22. Is generally trusting |
| DE | BFI23r | C23r. Tends to be lazy |
| DF | BFI24r | N24r. Is emotionally stable, not easily upset |
| DG | BFI25 | O25. Is inventive |
| DH | BFI26 | E26. Has an assertive personality |
| DI | BFI27r | A27r. Can be cold and aloof |
| DJ | BFI28 | C28. Perseveres until the task is finished |
| DK | BFI29 | N29. Can be moody |
| DL | BFI30 | O30. Values artistic, aesthetic experiences |
| DM | BFI31r | E31r. Is sometimes shy, inhibited |
| DN | BFI32 | A32. Is considerate and kind to almost everyone |
| DO | BFI33 | C33. Does things efficiently |
| DP | BFI34r | N34r. Remains calm in tense situations |
| DQ | BFI35r | O35r. Prefers work that is routine |
| DR | BFI36 | E36. Is outgoing, sociable |
| DS | BFI37r | A37r. Is sometimes rude to others |
| DT | BFI38 | C38. Makes plans and follows through with them |
| DU | BFI39 | N39. Gets nervous easily |
| DV | BFI40 | O40. Likes to reflect, play with ideas |
| DW | BFI41r | O41r. Has few artistic interests |
| DX | BFI42 | A42. Likes to cooperate with others |
| DY | BFI43r | C43r. Is easily distracted |
| DZ | BFI44 | O44. Is sophisticated in art, music, or literature |
| EA | RTS1 | RT1. Love dangerous situations. |
| EB | RTS2 | RT2. Like to do frightening things. |
| EC | RTS3 | RT3. Get a thrill out of doing things that might kill me. |
| ED | RTS4 | RT4. Would do anything to get an adrenaline rush. |
| EE | RTS5r | RT5r. Prefer safety over risk. |
| EF | RSE1 | On the whole, I am satisfied with myself. |
| EG | RSE2 | I feel that I have a number of good qualities. |
| EH | RSE3 | I feel that I'm a person of worth, at least on an equal plane with others. |
| EI | RSE4 | I take a positive attitude toward myself. |
| EJ | PAPA\_total | The Psychopathic Processing and Personality Assessment - version 2 (PAPA-II) total score excluding item 5 which is not part of the total score as it represents the item used to determine stability for any future clinical use of this research measure; Lewis et al. |
| EK | PAPA\_total\_withoutR | PAPA-II without item 5 and the four reverse-worded items (i.e. 16, 18, 24 and 26) |
| EL | LSRP\_total | The Levenson Self-Report Psychopathy Scale total score (26 items) |
| EM | BES\_total | The Basic Empathy Scale total score (20 items) |
| EN | RT\_total | The Risk-Taking Subscale of the CAT-Personality Disorder Scales Statistic Form (5 items) |
| EO | Dissocial\_tendencies | PAPA-II factor 1: dissocial tendencies (comprises items 3,4,11,12,19,22,29) |
| EP | Emotional\_detachment | PAPA-II factor 2: emotional detachment (comprises items 13, 16R,26R,23) |
| EQ | Emotional\_detachment\_withoutR | PAPA-II factor 2 without the reverse-worded items 16 and 26 |
| ER | Disregard\_for\_others | PAPA-II factor 3: disregard for others (comprises items 1, 2, 6, 10, 14, 17, 20, 24R, 25) |
| ES | Disregard\_for\_others\_withoutR | PAPA-II factor 3 without the reverse-worded item 24 |
| ET | Lack\_of\_sensitivity\_to\_emotion | PAPA-II factor 4: lack of sensitivity to emotion (comprises items 7, 8, 9, 15, 18R, 21, 27, 28) |
| EU | Lack\_of\_sensitivity\_to\_emotion\_withoutR | PAPA-II factor 4 without the reverse-worded item 18 |
| EV | Primary\_psychopathy | LSRP factor 1: primary psychopathy (comprises first 16 items) |
| EW | Secondary\_psychopathy | LSRP factor 2: secondary psychopathy (comprises 10 items) |
| EX | Extraversion | BFI extraversion (comprises items 1, 6R, 11, 16, 21R, 26, 31R, 36) |
| EY | Agreeableness | BFI agreeableness (comprises items 2R, 7, 12R, 17, 22, 27R, 32, 37R, 42) |
| EZ | Conscientiousness | BFI conscientiousness (comprises items 3, 8R, 13, 18R, 23R, 28, 33, 38, 43R) |
| FA | Neuroticism | BFI neuroticism (comprises items 4, 9R, 14, 19, 24R, 29, 34R, 39) |
| FB | Openness | BFI openness (comprises items 5, 10, 15, 20, 25, 30, 35R, 40, 41R, 44) |
| FC | Cognitive\_empathy | BES factor 1 (comprises 9 items) |
| FD | Affective\_empathy | BES factor 2 (comprises 11 items) |

The questionnaires used in this study:

We used a general demographic form (included below in Arabic and English) and five well validated questionnaires in this study:

* The Psychopathic Processing and Personality Assessment - version 2 (PAPA-II) is a 29-item self-report measure that assesses psychopathic traits. Each item is rated on a 5-point Likert-type scale ranging from 1 (strongly disagree) to 5 (strongly agree). Items 5 is not part of the total score (as per the authors; Lewis et al 2017). Possible scores range from 28 to 124.
* The Levenson Self-Report Psychopathy Scale (LSRP) is a widely used psychopathy measure that consists of 26 items rated on a 4-point Likert-type scale from 1 (strongly disagree) to 4 (strongly agree). To ensure consistency with the PAPA-II (i.e. to ensure the instructions were easily followed by our prison sample), we modified the scoring to a 5-point Likert-type scale, adding a mid-point neutral. In this study, the scores range between 26 and 130.
* The Basic Empathy Scale (BES) is a 20-item self-report measure of empathy rated on a 4-point Likert-type scale ranging from 1 (strongly disagree) to 4 (strongly agree). This was modified to a 5-point Likert-type scale as per the LSRP. In this study, the scores range between 20 and 100.
* The Big Five Inventory (BFI) is a 44-item self-report measure of Extraversion, Agreeableness, Conscientiousness, Neuroticism, and Openness with each item rated on a 5-point Likert-type scale. For purposes of this study, total BFI scores were not relevant and hence were excluded from the analysis.
* The Risk-Taking Subscale of the CAT-Personality Disorder Scales Statistic Form (RTS CAT-PD-SF, v1.1) is a short 5-item subscale rated on a 5-point Likert-type scale.
* At the end of the survey, we added four filler questions from the Rosenberg Self-Esteem Scale to neutralize the potential negative affective quality of some items in the questionnaire (specifically items from the PAPA-II and the LSRP). We did not include these in the analysis.

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Demographic sheet (general population sample):

1. Sex \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Age \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Place of birth \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Place of residence \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. What is your current marital status?

□ Single □ Married □ Separated □ Divorced

1. Are you a student? □ Yes □ No

If yes, what are you studying? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the highest level of education you completed? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Are you employed? □ Yes □ No

If yes, what is your job? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Have you ever been incarcerated? □ Yes □ No

If yes, please specify \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

استطلاع ديموغرافي:

1. الجنس \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. العمر \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. مكان الولادة \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. منطقة السكن \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. ما هو وضعك العائلي؟

□ أعزب/عزباء □ متزوج(ة) □ منفصل(ة) □ مطلّق(ة)

1. هل أنت طالب(ة)؟ □ نعم □ كلا

إذا أجبت ب "نعم"، ما هو مجال تخصصك؟ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

إذا أجبت ب "كلا"، ما هو أعلى مستوى تعليم وصلت اليه؟ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. هل تعمل؟ □ نعم □ كلا

إذا أجبت ب "نعم"، ما هي وظيفتك؟ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. هل سبق لك أن دخلت السجن؟ □ نعم □ كلا

إذا أجبت ب "نعم"، ما كانت التهمة؟ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Demographic sheet (forensic sample):

1. Age \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Place of birth \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Place of residence before incarceration \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. What is the highest level of education you completed? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. What is your current marital status?

□ Single □ Married □ Separated □ Divorced

1. What was your occupation before you were incarcerated? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. How long have you been incarcerated?

□ Less than 1 month □ 1-6 months □ 7-12 months □ 1-2 years

If more than 2 years, please specify \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Is it your first time in jail? □ Yes □ No

If you answered no, how many times have you been in prison before? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. How long is your sentence? \_\_\_\_\_\_\_\_\_and what are you charged with? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

استطلاع ديموغرافي

1. العمر \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. مكان الولادة \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. منطقة السكن قبل دخولك السجن \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. ما هو أعلى مستوى من التعليم الذي أكملته؟ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. ما هو وضعك العائلي؟

□ أعزب □ متزوج □ منفصل □ مطلق

1. ما كانت وظيفتك قبل ان تدخل السجن؟ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. كم من الوقت مضى عليك في السجن؟

□ أقل من شهر □ 1-6 أشهر □ 7-12 أشهر □ 1-2 سنوات

أكثر من عامين؟ يرجى التحديد\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. هل هذه المرة الأولى التي تدخل فيها السجن؟ □ نعم □ كلا

إذا أجبت ب "كلا"، كم مرة سبق لك أن سجنت؟ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. ما هي مدّة حكمك الحالي؟ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ وما هي تهمتك؟ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Glossary of terms:

|  |  |
| --- | --- |
| BES | The Basic Empathy Scale |
| BFI | The Big Five Inventory |
| Declined Occupations | Persons engaged in occupations with exposure to highly hazardous conditions |
| Forensic population | 200 incarcerated adult males from Roumieh prison, Lebanon |
| General population | mixed-gender sample of 150 adults (75 females) from various Lebanese regions |
| LSRP | The Levenson Self-Report Psychopathy Scale |
| Occupational class 1 | Professionals and persons engaged in executive, administrative or clerical duties |
| Occupational class 2 | Persons engaged in skilled or semi-skilled work and not exposed to hazardous conditions |
| Occupational class 3 | Persons engaged in occupations requiring manual labour or heavy machinery or exposure to certain hazardous conditions |
| PAPA-II | The Psychopathic Processing and Personality Assessment - version 2 |
| Reverse-worded items | Items worded in an opposite direction to the remaining items |
| RSE | Rosenberg Self-Esteem Scale |
| RTS | The Risk-Taking Subscale |