|  |
| --- |
| Table 1. Sociodemographic, employment and smoking data for survey respondents according to job role (*n* = 631). |
| Socio-demographic Variables | *n* (%) |
| Female gender | 413 (65.5) |
| Age (years) |  |
| 18-29 | 103 (16.3) |
| 30-39 | 135 (21.4) |
| 40-49 | 187 (29.6) |
| 50+ | 206 (32.6) |
| Staff role |  |
| Clinical | 417 (66.1) |
| Non-clinical | 214 (33.9) |
| Clinical role |  |
| Nurse | 192 (31.2) |
| Medical Doctor | 25 (4.1) |
| Psychiatrist | 39 (6.3) |
| Psychologist | 47 (7.6) |
| Occupational therapist | 21 (3.4) |
| Other allied health professional |  42 (10.4) |
| Social Worker | 14 (2.3) |
| Weekly patient contact |  |
| None | 201 (31.9) |
| 1-19 hours | 213 (33.8) |
| 20-34 hours | 203 (32.2) |
| Other/Unsure | 14 (2.2) |
| Training on smoking cessation |  |
| Yes | 251 (39.8) |
| No/Unsure | 225 (35.7) |
| Not applicable to role | 155 (24.6) |
| Smoking status  |  |
| Non-smoker | 363 (57.5) |
| Ex-smoker | 178 (28.2) |
| Current Smoker |  90 (14.3) |
| Cigarettes smoked per day (n = 90) |  |
| ≤ 10 |  65 (72.2) |
| 11 or more |  25 (27.8) |
| Want to quit in near future  |  62 (69.7) |
| Notes: Fifteen respondents indicating a clinical role (13 inpatient, 2 community) did not provide sufficient information to allow specific job role classification while one (non-clinical) participant did not respond to item concerning intention to quit smoking in the near future – stated percentages reflect proportions of participants with data available. |

|  |
| --- |
| Table 2. Completely Smokefree Policy questionnaire items; rotated component matrix (*n* = 631). |
|  | Agreement | Factor |  |
|  | *n* (%) | Organisational | Staff Practice |  |
| Smoking should be totally banned in all areas of our inpatient wards | 255 (40.4) | 0.902 | -0.015 |  |
| Smoking should be totally banned throughout areas of mental health services | 269 (42.6) | 0.897 | 0.031 |  |
| Hospitalisation is a good opportunity for smoking cessation intervention | 423 (67.0) | 0.707 | 0.264 |  |
| Patients who smoke should be encouraged to quit smoking while hospitalised | 422 (66.9) | 0.687 | 0.479 |  |
| Ward staff should be trained to offer advice and support on smoking cessation | 565 (89.5) | 0.335 | 0.751 |  |
| All clinical staff should offer smoking cessation advice routinely | 502 (79.6) | 0.312 | 0.747 |  |
| I am aware of existing policies that deal with smoking in my workplace | 562 (89.1) | -0.186 | 0.604 |  |
|

|  |
| --- |
| Notes: Agreement frequencies included participants who responded ‘Agree’ or ‘Strongly agree’ to each item; Extraction Method: Principal Component Analysis; Rotation Method: Varimax with Kaiser Normalization. |

 |

|  |
| --- |
| Table 3. Mean scores and Generalized Linear Modelling for the Organisational and Staff Practice factors (*n* = 617). |
|  | Organisational | Staff Practice |
| Variables | Mean (95% CI) | *P* | B | CI B | *β* | *p* | Mean (95% CI) | *P* | B | CI B | *β* | *p* |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
|  18-29 | **3.13 (2.90,3.35)** |  | **-0.25** | **-0.49,-0.01** | **0.781** | **0.049** | 4.05 (3.93,4.17) |  |  |  |  |  |
|  30-39 | **3.21 (3.03,3.40)** |  | **-0.25** | **-0.47,-0.03** | **0.78** | **0.027** | 4.05 (3.96,4.16) |  |  |  |  |  |
|  40-49 | **3.41 (3.26,3.56)** |  | -0.06 | -0.26,-0.14 | 0.94 | 0.552 | 4.06 (3.97,4.15) |  |  |  |  |  |
|  50+ | **3.49 (3.36,3.63)** | **0.010** |  |  |  |  | 4.06 (3.98,4.15) | 0.999 |  |  |  |  |
| Gender |  |  |  |  |  |  |  |  |  |  |  |  |
|  Male  | 3.43 (3.28,3.59) |  |  |  |  |  | 4.02 (3.93,4.12) |  |  |  |  |  |
|  Female | 3.31 (3.21,3.40) | 0.143 |  |  |  |  | 4.08 (4.02,4.13) | 0.329 |  |  |  |  |
| Job Role |  |  |  |  |  |  |  |  |  |  |  |  |
|  Clinical | **3.26 (3.16,3.36)** |  | **-0.23** | **-0.41,-0.05** | **0.79** | **0.011** | 4.06 (4.00,4.12) |  |  |  |  |  |
|  Non-clinical | **3.53 (3.39,3.67)** | **0.002** |  |  |  |  | 4.05 (3.97,4.13) | 0.831 |  |  |  |  |
| Weekly patient contact  |  |  |  |  |  |  |  |  |  |  |  |  |
|  None | 3.43 (3.29,3.57) |  |  |  |  |  | 3.99 (3.92,4.07) |  |  |  |  |  |
|  1-19 hours | 3.41 (3.27,3.56) |  |  0.11 | -0.09,0.31 | 1.12 | 0.268 | 4.11 (4.03,4.20) |  |  |  |  |  |
|  20-35 hours | 3.23 (3.08,3.38) | 0.097 | -0.06 | -0.27,0.15 | 0.94 | 0.572 | 4.08 (3.97,4.16) | 0.109 |  |  |  |  |
| Smoking status |  |  |  |  |  |  |  |  |  |  |  |  |
|  Non-smoker | **3.60 (3.50,3.70)** |  |  |  |  |  | **4.11 (4.05,4.17)** |  |  |  |  |  |
|  Ex-smoker | **3.15 (2.96,3.31)** |  | **-0.43** | **-0.61,-0.25** | **0.65** | **<0.001** | **4.08 (4.01,4.17)** |  | -0.04 | -0.13,0.05 | 0.96 | 0.405 |
|  Current smoker | **2.72 (2.53,2.92)** | **<0.001** | **-0.84** | **-1.08,-0.61** | **0.43** | **<0.001** | **3.77 (3.63,3.90)** | **<0.001** | **-0.33** | **-0.48,-0.18** | **0.72** | **<0.001** |
| Smoking cessation training |  |  |  |  |  |  |  |  |  |  |  |  |
|  Yes | 3.36 (3.23,3.50) |  |  |  |  |  | **4.18 (4.12,4.25)** |  | **0.20** |  **0.11,0.28** | **1.22** | **<0.001** |
|  No/Unsure | 3.34 (3.24,3.44) | 0.777 |  |  |  |  | **3.97 (3.90,4.04)** | **<0.001** |  |  |  |  |
| Notes: Weekly contact hours were not recorded for 14 participants; hence the model includes 617 participants only; Reference categories for Age = 50+ years, Job Role = Non-clinical, Smoking status = Non-smoker, Smoking cessation training = No/Unsure; B = beta; CI = 95% confidence interval; *β* = standardised beta; For ‘Organisational’ omnibus overall model likelihood ratio χ2= 76.66, *p* < 0.001; For ‘Staff Practice’ omnibus overall model likelihood ratio χ2= 40.97, *p* < 0.001. Associations with significance *P* < 0.05 are indicated in bold. |
|  |

|  |
| --- |
| Table 4. Frequency (percentage) of agreement (response of ‘Agree’ or ‘Strongly Agree’) with questionnaire items according to professional job role and whether individuals had received training to deliver smoking cessation advice. |
|  | Professional role |  |  |
| Organisational component items | Clinical staff(*n* = 417) | Non-clinical (*n* = 214) |  |  |
|  | *n* (%) | *n* (%) | OR (CI) | *P* |
| **Smoking should be totally banned in all areas of our inpatient wards** | **152 (36.5)** | **103 (48.1)** | **0.67 (0.46,0.97)** | **0.033** |
| Smoking should be totally banned throughout areas of mental health services | 162 (38.8) | 107 (50.0) | 0.70 (0.48,1.02) | 0.061 |
| **Hospitalisation is a good opportunity for smoking cessation intervention** | **268 (64.3)** | **155 (72.4)** | **0.61 (0.41,0.91)** | **0.016** |
| **Patients who smoke should be encouraged to quit smoking while hospitalised** | **264 (63.3)** | **158 (73.8)** | **0.55 (0.36,0.83)** | **0.004** |
|  | Smoking cessation training |  |  |
| Staff Practice component items | Yes (*n* = 251) | No/Unsure (*n* = 380) |  |  |
|  | *n* (%) | *n* (%) | OR (CI) | *P* |
| **Ward staff should be trained to offer advice and support on smoking cessation** | **238 (94.8)** | **327 (86.1)** | **2.82 (1.49,5.32)** | **0.001** |
| **All clinical staff should offer smoking cessation advice routinely** | **218 (86.9)** | **284 (74.7)** | **2.18 (1.41,3.36)** | **<0.001** |
| **I am aware of existing policies that deal with smoking in my workplace** | **232 (92.4)** | **330 (86.8)** | **1.78 (1.02,3.12)** | **0.042** |
| Notes: *P* values were calculated using (binary) logistic regression controlling for those variables included in corresponding GLM analyses of component scores in Table 3 (for Professional role in Organisational component items: Age, Weekly patient contact, and Smoking status; for Smoking cessation training in Staff Practice component items: Smoking status); OR = odds ratio; CI = 95% confidence interval; Weekly contact hours were not recorded for 14 participants; hence the ORs and associated *P* values for Professional role were calculated from models including 617 participants only; Reference categories for Professional role = Non-clinical and for Smoking cessation training = No/Unsure/Not Applicable (NA). Associations with significance *P* < 0.05 are indicated in bold. |

**Figure Caption**

Figure 1.

Agreement levels (raw mean scores) on Organisational and Staff Practice factors among clinical staff according to professional role. Please note; Medical Doctor includes psychiatrists, while Allied Health Professional includes psychologists. Error bars represent 95% confidence intervals. For comparisons, adjusted for those sociodemographic, job role and smoking-related variables at least moderately associated with corresponding factor scores in bivariate comparisons, \* *P* < 0.05, \*\**p* < 0.01.

Figure 1



**Supplementary Tables**

|  |
| --- |
| Table S1. Generalized Linear Modelling for the Organisational and Staff Practice factor scores in clinical staff (*n* = 393). |
|  | Organisational | Staff Practice |
| Variables | Mean (95% CI) | *P* | B | CI B | *β* | *p* | Mean (95% CI) | *P* | B | CI B | *β* | *p* |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |
|  18-29 | **2.97 (2.72,3.23)** |  | **-0.41** | **-0.71,-0.11** | **0.66** | **0.008** | 4.05 (3.88,4.21) |  |  |  |  |  |
|  30-39 | **3.15 (2.94,3.35)** |  | **-0.38** | **-0.64,-0.11** | **0.69** | **0.006** | 4.07 (3.96,4.16) |  |  |  |  |  |
|  40-49 | **3.29 (3.09,3.48)** |  | -0.18 | -0.44,0.08 | 0.84 | 0.169 | 4.07 (3.97,4.17) |  |  |  |  |  |
|  50+ | **3.46 (3.28,3.64)** | **0.011** |  |  |  |  | 4.05 (3.94,4.16) | 0.988 |  |  |  |  |
| Gender |  |  |  |  |  |  |  |  |  |  |  |  |
|  Male  | 3.31 (3.13,3.48) |  |  |  |  |  | 4.03 (3.90,4.14) |  |  |  |  |  |
|  Female | 3.23 (3.11,3.36) | 0.481 |  |  |  |  | 4.08 (4.01,4.14) | 0.396 |  |  |  |  |
| Work with inpatients |  |  |  |  |  |  |  |  |  |  |  |  |
|  Inpatient services | 3.25 (3.09,3.41) |  |  |  |  |  | 4.11 (4.02,4.20) |  |  |  |  |  |
|  Outpatients only | 3.26 (3.13,3.40) | 0.887 |  |  |  |  | 4.02 (3.95,4.09) | 0.136 |  |  |  |  |
| Professional role (clinical) |  |  |  |  |  |  |  |  |  |  |  |  |
|  Allied health pofessional | **3.19 (3.02,3.36)** |  | **-0.42** | **-0.71,-0.11** | **0.66** | **0.005** | 3.97 (3.88,4.07) |  | **-0.16** | **-0.32,-0.01** | **0.85** | **0.040** |
|  Nurse | **3.15 (3.01,3.30)** |  | **-0.46** | **-0.75,-0.17** | **0.63** | **0.002** | 4.07 (3.98,4.16) |  | -0.08 | -0.22.0.08 | 0.93 | 0.304 |
|  Medical doctor | **3.61 (3.35,3.87)** | **0.009** |  |  |  |  | 4.18 (4.05,4.30) | 0.066 |  |  |  |  |
| Weekly patient contact  |  |  |  |  |  |  |  |  |  |  |  |  |
|  None | 3.17 (2.94,3.40) |  |  |  |  |  | 3.95 (3.85,4.05) |  |  |  |  |  |
|  1-19 hours | 3.36 (3.19,3.53) |  |  |  |  |  | 4.10 (4.00,4.20) |  |  |  |  |  |
|  20-35 hours | 3.17 (2.94,3.40) | 0.341 |  |  |  |  | 4.10 (4.00,4.19) | 0.129 |  |  |  |  |
| Smoking status |  |  |  |  |  |  |  |  |  |  |  |  |
|  Non-smoker | **3.44 (3.31,3.58)** |  |  |  |  |  | **4.07 (3.99,4.16)** |  |  |  |  |  |
|  Ex-smoker | **3.15 (2.97,3.33)** |  | **-0.32** | **-0.54,-0.10** | **0.73** | **0.005** | **4.18 (4.08,4.26)** |  | **0.12** | **0.01,0.24** | **1.13** | **0.042** |
|  Current smoker | **2.75 (2.48,3.02)** | **<0.001** | **-0.61** | **-0.91,-0.31** | **0.54** | **<0.001** | **3.74 (3.59,3.89)** | **<0.001** | **-0.30** | **-0.49,-0.12** | **0.74** | **0.001** |
| Smoking cessation training |  |  |  |  |  |  |  |  |  |  |  |  |
|  Yes | 3.32 (3.18,3.46) |  |  |  |  |  | **4.17 (4.10,4.23)** |  | **0.20** | **0.09,0.31** | **1.22** | **0.001** |
|  No/Unsure | 3.19 (3.04,3.34) | 0.199 |  |  |  |  | **3.94 (3.84,4.03)** | **<0.001** |  |  |  |  |
| Notes: Professional role and Weekly contact hours were not recorded for 15 and 9 participants, respectively; hence the models include 393 participants only; Reference categories for Age = 50+ years, Professional role (clinical) = Medical doctor, Smoking status = Non-smoker, Smoking cessation training = No/Unsure; B = beta; CI = 95% confidence interval; *β* = standardised beta; For ‘Organisational’ omnibus overall model likelihood ratio χ2= 40.13, *p* < 0.001; For ‘Staff Practice’ omnibus overall model likelihood ratio χ2= 39.37, *p* < 0.001. Associations with significance *P* < 0.05 are indicated in bold. |

|  |
| --- |
| Table S2. Logistic regression modelling of factors associated with interest in receiving training to deliver smoking cessation advice in clinical staff who had not received any training (*n* = 162). |
| Variables | Interested(*n* = 72) | Not interested / unsure (*n* = 90) | Univariate associations | Multivariate associations |
|  |  |  |  |  |  |  |  |
|  | *n* (%) | *n* (%) | *P* | OR | CI OR | *P* |
| Age |  |  |  |  |  |  |
|  18-29 | 24 (55.8) | 19 (44.2) |  | 2.62 | 0.92,7.47 | 0.071 |
|  30-39 | 20 (48.8) | 21 (51.2) |  | 2.39 | 0.85,6.72 | 0.100 |
|  40-49 | 19 (43.2) | 25 (56.8) |  | 1.94 | 0.68,5.50 | 0.214 |
|  50-59 | 9 (26.5) | 25 (73.5) | 0.071 |  |  |  |
| Gender |  |  |  |  |  |  |
|  **Male** | **15 (27.8)** | **39 (72.2)** |  | **0.41** | **0.19,0.87** | **0.020** |
|  **Female**  | **57 (52.8)** | **51 (47.2)** | **0.003** |  |  |  |
| Clinical work status |  |  |  |  |  |  |
|  **Work with Inpatients** | **43 (56.6)** | **33 (43.4)** |  | **2.31** | **1.03,5.19** | **0.043** |
|  **Work in community only** | **29 (33.7)** | **57 (66.3)** | **0.003** |  |  |  |
| Professional role (clinical) |  |  |  |  |  |  |
|  Allied health professional | 23 (39.0) | 36 (61.0) |  |  |  |  |
|  Nurse | 34 (46.6) | 39 (53.4) |  |  |  |  |
|  Doctor | 13 (50.0) | 13 (50.0) | 0.557 |  |  |  |
| Weekly patient contact  |  |  |  |  |  |  |
|  None | 12 (38.7) | 19 (61.3) |  |  |  |  |
|  1-19 hours | 20 (35.7) | 36 (64.3) |  | 1.13 | 0.39,3.30 | 0.827 |
|  20-35 hours | 39 (55.7) | 31 (44.3) | 0.058 | 0.68 | 0.24,1.92 | 0.465 |
| Smoking status |  |  |  |  |  |  |
|  Non-smoker | 45 (49.5) | 46 (50.5) |  |  |  |  |
|  Ex-smoker | 16 (36.4) | 28 (63.6) |  |  |  |  |
|  Current smoker | 11 (40.7) | 16 (59.3) | 0.327 |  |  |  |
| Notes: *P* values for univariate associations were calculated using Chi-square tests; *P* values were calculated using (binary) multivariate logistic regression for multivariate associations; Only those variables where *P* < 0.10 in bivariate associations were included in multivariate analyses. Weekly contact hours were not recorded for 5 participants in analyses; hence the (multivariate) model includes 157 participants only; Reference categories for model Age = 50+ years, Gender = Female, Clinical work status = Work in community, Weekly patient contact = None; OR = odds ratio; CI = 95% confidence interval. For model, Wald χ2: Age = 3.78, *p* = 0.287, Weekly patient contact = 1.62, *p* = 0.445, Smoking status = 58.48, *p* < 0.001; Omnibus overall model likelihood ratio χ2= 21.47, *p* = 0.003. Associations with significance *P* < 0.05 are indicated in bold. |