

Implementation of Advance Care Planning in Dutch primary care. a pre- post evaluation study.**Supplementary File 3****Table A.3. Conversations on care preferences and Advance Directives before and after implementation of ACP**

| | Pre measurement (n=458), n (%) ^a | Post measurement (n=458), n (%) ^a | OR (95% CI) Unadjusted (bivariate) | OR (95% CI) Adjusted for organisation; random intercept | Log likelihood test; chi2 (p-value) ^b |
|--|---|--|--|---|---|
| With regard to the following topics, have you thought about or spoken about care at the end of life? | | | | | |
| Hospitalisation in certain circumstances. Have you in the past 12 months... | | | | | |
| - Thought about it only (no further action) | 136 (29.7) | 118 (25.8) | 0.82 (0.61 – 1.10) | 0.82 (0.61 – 1.10) | 1.41 (0.12) |
| - Spoken to GP about it | 74 (16.2) | 109 (23.0) | 1.62 (1.17 – 2.25) | 1.66 (1.18 – 2.32) | 23.16 (<0.00) |
| - Spoken to other professional about it | 22 (4.8) | 27 (5.9) | 1.24 (0.70 – 2.21) | 1.24 (0.70 – 2.22) | 0.57 (0.22) |
| - Spoken to someone else about it | 158 (34.5) | 131 (28.6) | 0.76 (0.58 – 1.01) | 0.76 (0.57 – 1.00) | 5.23 (0.01) |
| - Written statement | 76 (16.6) | 122 (26.6) | 1.83 (1.32 – 2.52) | 1.84 (1.33 – 2.55) | 6.84 (<0.00) |
| - None of the above | 90 (19.7) | 91 (19.9) | 1.01 (0.73 – 1.40) | 1.01 (0.73 – 1.41) | 9.62 (<0.00) |

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| IC admission. Have you in the past 12 months... | | | | | |
| - Thought about it only (no further action) | 150 (32.8) | 102 (22.3) | 0.59 (0.44 – 0.79) | 0.59 (0.44 – 0.79) | 1.20 (0.14) |
| - Spoken to GP about it | 40 (8.7) | 75 (16.4) | 2.05 (1.36 – 3.08) | 2.12 (1.40 – 3.22) | 25.13 (<0.00) |
| - Spoken to other professional about it | 15 (3.3) | 20 (4.4) | 1.35 (0.68 – 2.67) | 1.35 (0.68 – 2.67) | 0.00 |
| - Spoken to someone else about it | 97 (21.2) | 93 (20.3) | 0.95 (0.69 – 1.31) | 0.95 (0.68 – 1.31) | 8.44 (<0.00) |
| - Written statement | 52 (11.4) | 89 (19.4) | 1.88 (1.30 – 2.73) | 1.89 (1.30 – 2.73) | 0.42 (0.26) |
| - None of the above | 149 (32.5) | 161 (35.2) | 1.12 (0.85 – 1.48) | 1.12 (0.85 – 1.48) | 0.42 (0.26) |
| Nursing home admission. Have you in the past 12 months... | | | | | |
| - Thought about it only (no further action) | 153 (33.4) | 127 (27.7) | 0.76 (0.58 – 1.01) | 0.76 (0.58 – 1.01) | 0.35 (0.28) |
| - Spoken to GP about it | 36 (7.9) | 42 (9.2) | 1.18 (0.74 – 1.88) | 1.19 (0.74 – 1.90) | 7.46 (<0.00) |
| - Spoken to other professional about it | 4 (0.9) | 16 (3.5) | 4.11 (1.36 – 12.39) | 4.11 (1.36 – 12.38) | 0.00 |
| - Spoken to someone else about it | 145 (31.7) | 123 (26.9) | 0.79 (0.60 – 1.05) | 0.79 (0.59 – 1.05) | 5.92 (0.01) |
| - Written statement | 37 (8.1) | 47 (10.3) | 1.30 (0.83 – 2.04) | 1.30 (0.83 – 2.05) | 0.91 (0.17) |
| - None of the above | 127 (27.7) | 164 (35.8) | 1.45 (1.10 – 1.92) | 1.45 (1.10 – 1.92) | 0.00 |
| Your preferred place of death. Have you in the past 12 months... | | | | | |

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| - Thought about it only (no further action) | 125 (27.3) | 110 (24.0) | 0.84 (0.63 – 1.13) | 0.84 (0.63 – 1.13) | 0.08 (0.39) |
| - Spoken to GP about it | 25 (5.5) | 37 (8.1) | 1.52 (0.90 – 2.57) | 1.54 (0.90 – 2.63) | 11.50 (<0.00) |
| - Spoken to other professional about it | 4 (0.9) | 10 (2.2) | 2.53 (0.79 – 8.14) | 2.53 (0.79 – 8.14) | 0.00 |
| - Spoken to someone else about it | 105 (22.9) | 100 (21.8) | 0.94 (0.69 – 1.28) | 0.94 (0.69 – 1.28) | 4.54 (0.02) |
| - Written statement | 18 (3.9) | 37 (8.1) | 2.15 (1.20 – 3.83) | 2.15 (1.20 – 3.84) | 0.06 (0.40) |
| - None of the above | 202 (44.1) | 209 (45.6) | 1.06 (0.82 – 1.38) | 1.06 (0.82 – 1.38) | 1.79 (0.09) |
| Treatment preferences in certain circumstances. Have you in the past 12 months... | | | | | |
| - Thought about it only (no further action) | 136 (29.7) | 98 (21.4) | 0.64 (0.48 – 0.87) | 0.64 (0.47 – 0.87) | 3.49 (0.03) |
| - Spoken to GP about it | 64 (14.0) | 111 (24.2) | 1.97 (1.40 – 2.77) | 2.01 (1.42 – 2.84) | 12.44 (<0.00) |
| - Spoken to other professional about it | 20 (4.4) | 35 (7.6) | 1.81 (1.03 – 3.19) | 1.81 (1.03 – 3.19) | 0.00 |
| - Spoken to someone else about it | 135 (29.5) | 123 (26.9) | 0.88 (0.66 – 1.17) | 0.88 (0.66 – 1.17) | 4.57 (0.02) |
| - Written statement | 74 (16.2) | 107 (23.4) | 1.58 (1.14 – 2.20) | 1.58 (1.14 – 2.20) | 0.01 (0.46) |
| - None of the above | 108 (23.6) | 108 (23.6) | 1.00 (0.74 – 1.36) | 1.00 (0.74 – 1.36) | 0.19 (0.33) |
| Did you discuss the following interventions with your GP, before | | | | | |

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| the intervention was necessary? | | | | | |
| - Resuscitation | 95 (21.0) | 152 (33.9) | 1.92 (1.43 – 2.59) | 1.96 (1.44 – 2.65) | 11.01 (<0.00) |
| - Mechanical ventilation | 20 (4.4) | 50 (11.1) | 2.71 (1.58 – 4.63) | 2.72 (1.59 – 4.66) | 2.60 (0.05) |
| - Artificial hydration or nutrition | 13 (2.9) | 47 (10.5) | 3.95 (2.11 – 7.41) | 3.97 (2.11 – 7.46) | 0.69 (0.20) |
| - Heart-pacing machine | 22 (4.9) | 32 (7.1) | 1.50 (0.86 – 2.62) | 1.50 (0.86 – 2.64) | 4.71 (0.02) |
| - Treatment with antibiotics | 17 (3.8) | 25 (5.6) | 1.51 (0.80 – 2.83) | 1.51 (0.80 – 2.83) | 4.80 (0.01) |
| - Euthanasia | 113 (25.0) | 168 (37.4) | 1.79 (1.35 – 2.39) | 1.81 (1.36 – 2.41) | 4.63 (0.02) |
| - other | 28 (6.2) | 41 (9.1) | 1.52 (0.92 – 2.51) | 1.52 (0.92 – 2.51) | 0.00 |
| - None of the above | 263 (58.2) | 198 (44.1) | 0.57 (0.44 – 0.74) | 0.56 (0.43 – 0.73) | 14.88 (<0.00) |
| Advance Directive | | | | | |
| - Refusal of life sustaining treatment document | 33 (7.3) | 24 (5.5) | 0.74 (0.43 – 1.28) | 0.74 (0.43 – 1.28) | 0.00 |
| - Form from the GP ^c | 24 (5.3) | 76 (17.6) | 3.79 (2.34 – 6.12) | 3.88 (2.39 – 6.31) | 7.29 (<0.00) |
| - Do not resuscitate orders | 77 (17.1) | 100 (23.1) | 1.46 (1.05 – 2.03) | 1.48 (1.05 – 2.07) | 12.14 (<0.00) |
| - Advance euthanasia directive | 110 (24.4) | 120 (27.7) | 1.19 (0.88 – 1.61) | 1.19 (0.88 – 1.62) | 9.63 (<0.00) |
| - Wish to live statement | 15 (3.3) | 25 (5.8) | 1.78 (0.93 – 3.43) | 1.78 (0.93 – 3.43) | 0.00 |
| - Other | 11 (2.4) | 12 (2.8) | 1.14 (0.50 – 2.61) | 1.14 (0.50 – 2.61) | 0.36 (0.28) |

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|------------------------|------------|------------|---------------------------|---------------------------|--------------|
| - None of the above | 281 (61.4) | 233 (50.9) | 1.53 (1.18 - 1.99) | 1.54 (1.18 - 2.00) | 1.64 (0.10) |
| Appointed a proxy, yes | 129 (29.3) | 169 (38.0) | 1.48 (1.12 - 1.96) | 1.48 (1.12 - 1.96) | 0.00 |
| If so, who? | | | | | |
| - Partner | 21 (16.8) | 36 (21.6) | 1.78 (1.02 - 3.09) | 1.78 (1.02 - 3.10) | 0.09 (0.38) |
| - Son or daughter | 76 (60.8) | 92 (55.1) | 1.26 (0.90 - 1.77) | 1.27 (0.90 - 1.78) | 7.38 (<0.00) |
| - Other family | 16 (12.8) | 21 (12.6) | 1.33 (0.68 - 2.58) | 1.34 (0.68 - 2.63) | 12.20 (0.00) |
| - Other person(s) | 12 (9.6) | 18 (10.8) | 1.52 (0.72 - 3.19) | 1.52 (0.72 - 3.20) | 0.06 (0.41) |

^a Missing data: Idea future problems: pre 8, post 7; Preferred timing: pre 53, post 42; Reasons not to engage in ACP: missing answers were coded as 'no'; ACP topics: missing answers were coded as 'no'; Discussion of treatments with GP: pre 6, post 9; Advance Directive: pre 7, post 25; appointed proxy: pre 4, post 2.

^b test to determine which model best describes the data; the model without vs with random intercept

^c This form was provided as tool in the ACP implementation toolkit.