Additional File 4: Findings from the questionnaire. Descriptive statistics from the questionnaire answered by staff in project phase four, about one year after implementation of the clinical pathway.

Part 1: Perceptions of working according to the CP; items sorted by areas presented by number (n) of informant and percentage (%) of each statement, as well as median score and intra quartile range (q1–q3) for the different staff categories in the four areas. Part 2: Additional questions, presented by number of informants and percentage (%) of each statement, as well as the answers specified by staff category.

**Part 1**

| Items sorted by areas (Highest to lowest possible score in the area) | Totally agree score 4 | Partly agree score 3 | Partly disagree score 2 | Totally disagree score 1 | Registered nurses | Assistant nurses | Anesthesiologists | Total Sample |
|---|---|---|---|---|---|---|---|---|---|
| Usability (score 5–20) n=38 | n (%) | n (%) | n (%) | n (%) | 17 (15–18) | 15 (14–18) | 15 (14–16) | 16 (14–18) |
| I feel that it is easy to work according to the CP | 13 (34) | 23 (61) | 2 (5) | – | 17 (100) | 16 (100) | 4 (80) | 36 (95) |
| It is easier and quicker to read and get knowledge about a patient who is cared for according to the CP than a patient without the CP | 12 (32) | 17 (45) | 5 (13) | 3 (8) | 13 (76) | 12 (75) | 5 (100) | 29 (76) |
| It is easier to see which nursing measures have been taken when the patient has the CP than without the CP | 13 (34) | 16 (42) | 8 (21) | 1 (3) | 11 (65) | 14 (88) | 5 (100) | 29 (76) |
| The use of the CP helps me to structure my work so that nothing gets forgotten | 14 (37) | 18 (47) | 5 (13) | 1 (3) | 15 (88) | 14 (88) | 4 (80) | 32 (84) |
| I feel that it is easy to work with the CP at our ward | 14 (37) | 21 (55) | 3 (8) | – | 16 (94) | 15 (94) | 5 (100) | 35 (92) |
| Documentation (score 5–20) n=38 | n (%) | n (%) | n (%) | n (%) | 16 (16–18) | 15 (14–17) | 15 (13–17) | 16 (14–18) |
| I feel that it is quicker to document when the CP is used than without the CP | 18 (47) | 16 (42) | 2 (5) | 1 (3) | 16 (94) | 13 (81) | 4 (80) | 34 (89) |
| I feel it is easy to document when the CP is used | 15 (39) | 18 (47) | 2 (5) | – | 16 (94) | 13 (81) | 4 (80) | 33 (87) |
| I feel that double documentation has decreased with the use of the CP | 13 (34) | 21 (55) | 5 (13) | 1 (3) | 16 (94) | 14 (88) | 4 (80) | 34 (89) |
| It is easier to see what needs to be done when the patient has the CP than if documentation consists of running notes | 18 (47) | 15 (39) | 2 (5) | 2 (5) | 15 (88) | 14 (88) | 4 (80) | 33 (87) |
| My methods of documentation become restricted when I work according to the CP | 4 (11) | 10 (26) | 12 (32) | 10 (26) | 9 (53) | 3 (19) | 2 (40) | 14 (37) |
| Quality of care (score 9–36) n=38 | 28 (26–31) | 27 (25–32) | 28 (22–28) | 27 (25–31) |
| I feel that I have more time for patient-focused care as the CP was implemented | 1 (3) | 21 (55) | 12 (32) | 3 (8) | 9 (53) | 1 (6) | 3 (60) | 24 (63) |
| I get a quick overall view about the patient’s condition when using the CP | 10 (26) | 39 (50) | 5 (13) | 3 (8) | 13 (76) | 13 (81) | 3 (60) | 29 (76) |
| I feel that patient cared for according to the CP receive good and safe care to a greater extent | 14 (37) | 16 (42) | 5 (13) | 2 (5) | 13 (76) | 13 (81) | 4 (80) | 30 (79) |
| The knowledge overview related to the CP has been helpful for me to understand why we should care for the patient in accordance with the measures in the CP | 16 (42) | 17 (45) | 3 (8) | 1 (3) | 15 (88) | 15 (94) | 3 (60) | 33 (87) |
| I do not deviate from the CP unless the patient’s condition necessitates an individual care plan | 9 (24) | 15 (39) | 8 (21) | 3 (8) | 13 (76) | 11 (69) | – | 24 (63) |
| I have greater trust in my own work experience than in the content of the CP | 1 (3) | 12 (32) | 18 (47) | 6 (16) | 4 (24) | 6 (38) | 3 (60) | 12 (32) |
| It is easier for new staff to care for a patient with the CP than without the CP | 24 (63) | 11 (29) | 3 (8) | – | 16 (94) | 14 (88) | 5 (100) | 35 (92) |
| The use of the CP facilitates the introduction of new staff | 22 (58) | 14 (37) | 2 (5) | 1 (3) | 17 (100) | 14 (88) | 5 (100) | 36 (95) |
| I was informed that the knowledge overview related to the CP is supposed to be based on evidence | 20 (53) | 12 (32) | 3 (8) | 1 (3) | 15 (88) | 13 (81) | 4 (80) | 32 (84) |
| Implementation process (score 4–16) | 11 (9–13) | 12 (10–13) | 15 (13) | 12 (9.5–13) |
| I was well aware of what a CP is when it was time to start using it | 6 (32) | 11 (58) | 1 (5) | 1 (5) | 7 (78) | 9 (100) | 1 | 17 (89) |
| I continuously received information about the work on developing the CP | 5 (26) | 10 (53) | 3 (16) | 1 (5) | 6 (67) | 8 (89) | 1 | 15 (79) |
| I felt well informed about the expected benefits of using the CP | 5 (26) | 8 (42) | 5 (26) | 1 (5) | 5 (56) | 7 (78) | 1 | 13 (68) |
| I felt that I participated in the work on developing the CP | 4 (21) | 6 (32) | 6 (32) | 3 (16) | 4 (44) | 5 (56) | 1 | 10 (53) |

Notes: CP: Clinical pathway. 1) The differences between total n and the sum of statements represent non-responses. 2) Includes only participant working in the setting since start of the project. 3) Only one participant/response. 4) The differences between total n and the sum of statements represent the response ‘not utilized’. Writing in italics represents negatively asked questions thereby reversed in analysis.

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### Part 2

#### Additional questions

| Strategies of importance to achieving successful implementation of the CP (several alternatives could be selected) n=24 | Totally agree | Partly agree | Partly disagree | Totally disagree | Registered nurses | Assistant nurses | Anesthesiologists | Total Sample |
|---|---|---|---|---|---|---|---|---|---|
| Internal facilitator | 14 (58) | 7 (29) | – | 1 (4) | 12 (100) | 8 (80) | 1 (50) | 21 (87) |
| Training prior to implementation | 13 (54) | 8 (33) | 1 (4) | – | 12 (100) | 8 (80) | 1 (50) | 21 (87) |
| Reminders after implementation | 14 (58) | 6 (25) | 2 (8) | – | 12 (100) | 7 (70) | 1 (50) | 20 (37) |
| Ongoing training | 7 (29) | 11 (46) | 1 (4) | – | 11 (92) | 6 (60) | 1 (50) | 18 (75) |
| Written information | 8 (33) | 7 (29) | 3 (12) | 1 (4) | 9 (75) | 5 (50) | 1 (50) | 15 (62) |
| Computerized support system | 5 (21) | 8 (33) | 3 (12) | – | 8 (67) | 4 (40) | 1 (50) | 13 (54) |
| External facilitator | 1 (4) | 32 (50) | 1 (4) | 2 (8) | 7 (58) | 5 (50) | 1 (50) | 13 (54) |
| Regular feedback | 5 (21) | 8 (33) | 5 (21) | – | 8 (67) | 5 (50) | – | 13 (54) |
| Feedback and evaluation on one occasion | 4 (17) | 8 (33) | 4 (17) | – | 7 (58) | 5 (50) | – | 12 (50) |

#### Number (%) totally or partly agree

| Yes | No |
|---|---|
| Total | 19 (79) | 4 (17) | n = 23 |
| Registered nurses | 19 (95) | 9 (75) | |
| Assistant nurses | 18 (90) | 9 (90) | 1 (50) |
| Anesthesiologists | 6 (30) | 1 (50) | 12 (50) |

| Number (%) stating successful implementation |
|---|
| n = 12 | n = 10 | n = 1 |
| 9 (75) | 9 (90) | – |

#### Number (%) stating CP is Always/Often utilized

| Always | Often | Seldom | Never | n = 43 |
|---|---|---|---|---|
| Participate in decision | 9 (21) | 32 (74) | 2 (5) | – |
| Informed CP is used | 20 (47) | 16 (37) | 6 (100) | 41 (95) |
| Neither | 19 (44) | 17 (40) | 1 (17) | 2 (5) |
| I do not know | 15 (35) | 19 (45) | 6 (100) | 37 (85) |

#### Number (%) stating patient/family Participate or are Informed

| n = 19 | n = 18 | n = 6 | n = 43 |
|---|---|---|---|
| 15 (79) | 13 (72) | 4 (67) | 9 (21) |

#### Which categories of staff utilize the CP?

| Total | 20 | 16 | 6 | 42 |
|---|---|---|---|---|
| Registered nurses | 19 (95) | 15 (94) | 6 (100) | 40 (95) |
| Assistant nurses | 18 (90) | 13 (81) | 4 (67) | 35 (83) |
| Anesthesiologists | 6 (30) | 11 (69) | 3 (83) | 22 (53) |
| Physiotherapist | 5 (25) | 8 (50) | – | 13 (31) |
| Physicians from other clinics | – | – | – | – |

#### What is your general impression of the CP?

| Positive It facilitates my work | Negative It hinders my work | n = 20 | n = 16 | n = 6 | n = 42 |
|---|---|---|---|---|---|
| 16 (100) | 16 (100) | 5 (100) | 37 (100) |

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