

**Supplementary file 3. Sustainability of professionals' adherence to clinical practice guidelines (detailed table)**

Study ID	Primary outcome(s)	Adherence PRE measurement	Adherence EARLY POST measurement	Adherence LATE POST measurement	Time frame (years)
Ament [20]	<p>Proportion of patients treated following guideline recommendations:</p> <p>1a. Treatment is discussed in a preoperative multidisciplinary meeting*(n)</p> <p>1b. The interval between referral and first visit to the breast unit is 5 working days or less*(n)</p> <p>1c. The interval between diagnostic tests and informing patients about the results is 5 working days or less*(n)</p> <p>1d. The interval between the decision to operate and surgery is 15 working days or less*(n)</p>	<p>86% (n=139/161)</p> <p>37% (n=16/44)</p> <p>62% (n=99/161)</p> <p>89% (n= 144/161)</p>	<p>95% (154/163)</p> <p>61% (45/75)</p> <p>64% (n=105/163)</p> <p>80% (n=131/163)</p>	<p>100% (n=156/156)</p> <p>84% (n=109/130)</p> <p>90% (n=133/147)</p> <p>80% (n=128/160)</p>	5

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	<p>1e.The general practitioner is informed about the diagnosis, treatment plan and potential side-effects prior to surgery*(n)</p> <p>1f.The breast nurse stays in contact with the patient after short stay (phone consultation)* (n)</p> <p>Overall</p> <p>(excluding missing values)</p> <p>(original guideline comprises thirteen key recommendations)</p>	<p>73% (n=118/161)</p> <p>7% (n=11/161)</p> <p>59%</p>	<p>76% (n=123/163)</p> <p>12% (n=19/163)</p> <p>65%</p>	<p>98% (n=156/160)</p> <p>15% (n=24/159)</p> <p>78%</p>	
<b>Benenson [21]</b>	<p>(1)Mean time to treatment</p> <p>(2) Initial treatment given at emergency department</p>	<p>(1)314.7 min (SD=199.0)</p> <p>(2)36/63 (58.1%)</p>	<p>(1)174.7 min (SD=113.1)</p> <p>(2)90/96 (93.8%)</p>	<p>(1)171.2 min (SD=98.8)</p> <p>(2)118/122 (96.7%)</p>	3
<b>Cates [22]</b>	Annual number of prescriptions per 100 children < 5 years old (n)	Centre 1: n=139	Centre 1: n=95	Centre 1: n=76	Centre 1:3

Study ID	Primary outcome(s)	Adherence PRE measurement	Adherence EARLY POST measurement	Adherence LATE POST measurement	Time frame (years)
		Centre 2: n=122	Centre 2: n=67	Centre 2: n=61	Centre 2:2
<b>Enriquez-Puga [23]</b>	<p>(1)Number of items antibiotics (co-amixiclav and quinolone) prescribed for each six-month study period per 1000 patients</p> <p>(2)Number of items antidepressants (lofepramine and fluoxetine) prescribed for each six-month study period per 1000 patients</p>	<p>(1)Intervention group:  6.9  (1)Control group:  5.8  (2)Intervention group:  26.7  (2)Control group:  20.9</p>	<p>(1)Intervention group:  4.6  (1)Control group:  6.2  (2)Intervention group:  27.7  (2)Control group:  21.4</p>	<p>(1)Intervention group:  5.8  (1)Control group:  6.4  (2)Intervention group:  28.6  (2)Control group:  20.8</p>	1.5

Study ID	Primary outcome(s)	Adherence PRE measurement	Adherence EARLY POST measurement	Adherence LATE POST measurement	Time frame (years)
	Notes: regression analysis adjusting for baseline				
<b>Forsner [24]</b>	1 Proportion of patients treated following guideline recommendations for depression				1.5
	1a Accessibility/wait time	Intervention group:  77.9% (n=95/122)  Control group:  59.0% (n=36/61)	Intervention group:  89.2% (n=107/120)  Control group:  53.3% (n=32/60)	Intervention group:  90% (n=216/240)  Control group:  51.7% (n=62/120)	
	1b Diagnostic assessment	Intervention group:  83.6% (n=102/122)  Control group:  88.5% (n=54/61)	Intervention group:  97.5% (n=117/120)  Control group:  90.0% (n=54/60)	Intervention group:  97.9% (n=235/240)  Control group:  79.2% (n=95/120)	
	1c Diagnostic instrument	Intervention group:  12.3% (n=15/122)	Intervention group:  28.3% (n=34/120)	Intervention group:  44.2% (n=106/240)	

Study ID	Primary outcome(s)	Adherence PRE measurement	Adherence EARLY POST measurement	Adherence LATE POST measurement	Time frame (years)
	<p>1d Standardized rating scale</p> <p>1e Standardized rating scale during treatment</p> <p>1f Substance/drug abuse</p> <p>1g Treatment (care) plan</p>	<p>Control group: 1.6% (n=1/62)</p> <p>Intervention group: 64.8% (n=79/122)</p> <p>Control group: 44.3% (n=27/61)</p> <p>Intervention group: 50.0% (n=61/122)</p> <p>Control group: 24.6% (n=15/61)</p> <p>Intervention group: 46.7% (n=57/122)</p> <p>Control group: 32.8% (n=20/61)</p> <p>Intervention group:</p>	<p>Control group: 0% (n=0/60)</p> <p>Intervention group: 91.7% (n=110/120)</p> <p>Control group: 33.3% (n=20/60)</p> <p>Intervention group: 87.5% (n=105/120)</p> <p>Control group: 38.3% (n=23/60)</p> <p>Intervention group: 87.5% (n=105/120)</p> <p>Control group: 53.2% (n=32/60)</p> <p>Intervention group:</p>	<p>Control group: 0.8% (n=1/120)</p> <p>Intervention group: 94.2% (n=226/240)</p> <p>Control group: 36.7% (n=44/120)</p> <p>Intervention group: 88.3% (n=212/240)</p> <p>Control group: 33.3% (n=40/120)</p> <p>Intervention group: 88.8% (n=213/240)</p> <p>Control group: 43.3% (n=52/120)</p> <p>Intervention group:</p>	

Study ID	Primary outcome(s)	Adherence PRE measurement	Adherence EARLY POST measurement	Adherence LATE POST measurement	Time frame (years)
		59.8% (n=73/122)	87.5% (n=105/120)	91.3% (n=219/240)	
		Control group:	Control group:	Control group:	
		42.6% (n=26/61)	38.3% (n=23/60)	27.5% (n=33/120)	
	1h Evaluation/outcome	Intervention group:	Intervention group:	Intervention group:	
		66.4% (n=81/122)	95.8% (115/120)	95.8% (n=230/240)	
		Control group:	Control group:	Control group:	
		59.0% (n=36/61)	55.0% (n=33/60)	48.3 (n=58/120)	
	1i Continuity	Intervention group:	Intervention group:	Intervention group:	
		77.0% (n=94/122)	95.0% (n=114/120)	95.8% (n=230/240)	
		Control group:	Control group:	Control group:	
		78.7% (n=48/61)	61.7% (n=37/60)	68.3% (n=82/120)	
	1j Suicide assessment	Intervention group:	Intervention group:	Intervention group:	
		40.2% (n=49/122)	95.8% (n=115/120)	97.5% (n=234/240)	
		Control group:	Control group:	Control group:	
		45.9% (n=28/61)	35.0% (n=21/60)	30.0% (n=36/120)	

Study ID	Primary outcome(s)	Adherence PRE measurement	Adherence EARLY POST measurement	Adherence LATE POST measurement	Time frame (years)
	1k Antidepressant medication	Intervention group:  54.1% (n=66/122)  Control group:  45.9% (n=28/61)	Intervention group:  90.8% (n=109/120)  Control group:  36.7% (n=22/60)	Intervention group:  92.5% (n=222/240)  Control group:  41.7% (n=50/120)	
	2 Proportion of patients treated following guideline recommendations for suicidal behaviour in % (n)  2a Accessibility/wait time  2b Diagnostic assessment	Intervention group:  15.7% (n=19/121)  Control group:  29.5% (n=18/61)  Intervention group:  49.6% (n=60/121)  Control group:	Intervention group:  14.2% (n=17/120)  Control group:  31.7% (n=19/60)  Intervention group:  73.3% (n=88/120)  Control group:	Intervention group:  59.2% (n=142/240)  Control group:  0% (n=0/120)  Intervention group:  91.7% (n=220/240)  Control group:	

Study ID	Primary outcome(s)	Adherence PRE measurement	Adherence EARLY POST measurement	Adherence LATE POST measurement	Time frame (years)
	2c Diagnostic instrument	26.2% (n=16/61) Intervention group: 0% (n=0/121) Control group: 0% (n=0/61)	16.7% (n=10/60) Intervention group: 7.5% (n=9/120) Control group: 0% (n=0/60)	0% (n=0) Intervention group: 7.5% (n=18) Control group: 0% (n=0)	
	2d Standardized rating scale	41.3% (n=50/121) Intervention group: Control group: 27.9% (n=17/61)	67.5% (n=81/120) Intervention group: Control group: 16.7% (n=10/60)	78.3% (n=188) Intervention group: Control group: 0.8% (n=1)	
	2e Standardized rating scale during treatment	16.5% (n=20/121) Intervention group: Control group: 16.4% (n=10/61)	52.5% (n=63/120) Intervention group: Control group: 10.0% (n=6/60)	55.8% (n=134) Intervention group: Control group: 5.0% (n=6)	
	2f Substance/drug abuse	52.1% (n=63/121) Intervention group:	64.2% (n=77/120) Intervention group:	80.0% (n=192) Intervention group:	

Study ID	Primary outcome(s)	Adherence PRE measurement	Adherence EARLY POST measurement	Adherence LATE POST measurement	Time frame (years)
	2g Treatment (care) plan	Control group: 55.7% (n=34/61)	Control group: 56.7% (n=34/60)	Control group: 29.2% (n=35)	
		Intervention group: 37.4% (n=68/182)	Intervention group: 58.9% (n=106/120)	Intervention group: 79.2% (n=190)	
	2h Evaluation/outcome	Control group: 44.3% (n=27/61)	Control group: 41.7% (n=25/60)	Control group: 0.8% (n=1)	
		Intervention group: 20.7% (n=25/121)	Intervention group: 47.5% (n=57/120)	Intervention group: 51.7% (n=124)	
	2i Continuity	Control group: 19.7% (n=12/61)	Control group: 8.3% (n=5/60)	Control group: 0% (n=0)	
		Intervention group: 86.0% (n=104/121)	Intervention group: 81.7% (n=98/120)	Intervention group: 91.3% (n=219)	
		Control group: 49.2% (n=30/61)	Control group: 31.7% (n=19/60)	Control group: 0% (n=0)	
	2j Suicide assessment	Intervention group:	Intervention group:	Intervention group:	

Study ID	Primary outcome(s)	Adherence PRE measurement	Adherence EARLY POST measurement	Adherence LATE POST measurement	Time frame (years)
		55.4% (n=67/121)	93.3% (n=112/120)	97.1% (n=233)	
		Control group:	Control group:	Control group:	
		82.0% (n=50/61)	73.3% (n=44/60)	56.7% (n=68)	
	2k Specialist assessment	Intervention group:	Intervention group:	Intervention group:	
		50.4% (n=61/121)	85.4% (n=103/120)	91.7% (n=220)	
		Control group:	Control group:	Control group:	
		83.6% (n=51/61)	83.3% (n=50/60)	71.7% (n=86)	
	2l Follow-up	Intervention group:	Intervention group:	Intervention group:	
		72.7% (n=88/121)	88.3% (n=106/120)	92.1% (n=221)	
		Control group:	Control group:	Control group:	
		75.4% (n=46/61)	65.0% (n=39/60)	37.5% (n=45)	
	2m Evaluation assessment	Intervention group:	Intervention group:	Intervention group:	
		32.2% (n=39/121)	64.2% (n=77/120)	75.0% (n=180)	
		Control group:	Control group:	Control group:	
		18.0% (n=11/61)	13.3% (n=8/60)	10.8% (n=13)	

Study ID	Primary outcome(s)	Adherence PRE measurement	Adherence EARLY POST measurement	Adherence LATE POST measurement	Time frame (years)
Gerber [35]	Proportion of patients receiving care according to guideline recommendations	n= 396.074  26,80%	n=253.516  14,30%	n=unclear  27,90%	1.5
Higuchi [25]	<p>1 Proportion of patients receiving care according to asthma guideline recommendations</p> <p>1a Respiratory assessment done</p> <p>Level of asthma control documented for :</p> <p>1b medication in use</p> <p>1c Use of B2 agonist</p> <p>1d Experience of daytime symptoms</p> <p>1e Experience of night time and/or awaking symptoms</p> <p>1f Physical activity</p>	Not clear	<p>(total n=10)</p> <p>n=10/10 100%</p> <p>n=10/10 100%</p> <p>n=10/10 100%</p> <p>n=8/10 80.0%</p> <p>n=8/10 80.0%</p> <p>n= unclear 77.8%</p>	<p>(total n=62)</p> <p>n=61/62 98.4%</p> <p>n=61/62 98.4%</p> <p>n=52/62 84.4%</p> <p>n=32/62 51.7%</p> <p>n=16/62 26.2%</p> <p>n=29/62 46.8%</p>	<p>Asthma: 4</p> <p>Diabetes: 3</p>

Study ID	Primary outcome(s)	Adherence PRE measurement	Adherence EARLY POST measurement	Adherence LATE POST measurement	Time frame (years)
	1g Absence from school or work		n=7/10 70.0%	n=3/62 4.9%	
	1h Exacerbation		n=7/10 70.0%	n=47/62 76.2%	
	1i Individualised action plan developed for client's discharge		n=7/10 70.0%	n=2/62 3.2%	
	1j Baseline teaching information on asthma provided to patient by a nurse		n=6/10 60.0%	n=16/62 25.4%	
	1k Written information on asthma provided		n=6/10 60.0%	n=4/62 6.6%	
	2 Proportion of patients receiving care according to diabetes foot care guideline		(total n=50)	(total n=65)	
	2a Assessment for risk factors: foot ulceration/amputation		n=22/50 44.0%	n=64/65 98.5%	
	2b Assessment loss of protective sensation		n=5/50 10.0%	n=10/65 15.6%	
	2c Assessment Structural or biochemical abnormalities		n=3/50 6.0%	n=59/65 90.8%	
	2d Assessment evidence of impaired circulation		n=1/50 2.0%	n=34/65 52.3%	
	2e Assessment Deficit in self-care behaviour		n=14/50 28.0%	n=10/65 15.4%	
	2f Monofilament used to assess sensation in the feet		n=21/50 42.0%	n=41/65 63.1%	

Study ID	Primary outcome(s)	Adherence PRE measurement	Adherence EARLY POST measurement	Adherence LATE POST measurement	Time frame (years)
	<p>2g Risk classification for foot ulcer/amputation</p> <p>Basic foot care education done on:</p> <p>2h Client's risk factors</p> <p>2i Daily self-inspection of feet</p> <p>2j Proper nail and skin care</p> <p>2k Injury prevention</p> <p>2l When to seek help</p>		<p>n=37/50 73.7%</p> <p>n=15/50 30.0%</p> <p>n=15/50 30.0%</p> <p>n=15/50 30.0%</p> <p>n=15/50 30.0%</p> <p>n=15/50 30.0%</p>	<p>n=30/65 45.9%</p> <p>n=53/62 81.5%</p> <p>n=53/62 81.5%</p> <p>n=54/62 83.1%</p> <p>n=53/62 81.5%</p> <p>n=54/62 83.1%</p>	
<b>Kelly [26]</b>	Proportion of patients receiving IM narcotic analgesia	76% (n=48/63)	NA	3% (n=2/65)	2
<b>Knops [27]</b>	<p>(1)Proportion of patients receiving care according to fluid balance guideline recommendations</p> <p>(2)Proportion of patients receiving care according to body temperature guideline recommendations</p>	<p>(1)NA</p> <p>(2)NA</p>	<p>(1)NA</p> <p>(2)91%</p>	<p>(1)100% (534/534)</p> <p>(2)50% (617/1226)</p>	7

Study ID	Primary outcome(s)	Adherence PRE measurement	Adherence EARLY POST measurement	Adherence LATE POST measurement	Time frame (years)
<b>Loszadi [28]</b>	Proportion of patients receiving care according to guideline recommendations	61% (n=29/48)	79% (n=38/48)	92% (n=44/48)	unclear, >2
<b>Mclaws [29]</b>	(hand hygiene events observed / hand hygiene opportunities)x100 (%)	47% (3795/8057)	62% (NA)	58% (4041/6972)	1.5
<b>Stephan [30]</b>	Proportion of patients receiving care according to guideline recommendations	NA	82.2% (n=410/499)	80.8% (n=242/300)	1.5
<b>Wakefield [31]</b>	Proportion of patients receiving care according to guideline recommendations	Authors reported that the LATE POST compliance was lower compared to the EARLY POST measurement, but no further details were provided	NA	NA	1.5
<b>Williams [32]</b>	Proportion of patients treated according to guideline recommendations for the repair and follow-up of third degree tears				2
	A Senior SpR present	30% (n=13/44)	40% (n=20/50)	60% (n=18/30)	
	Theatre	70% (n=31/44)	82% (n=41/50)	97% (n=29/30)	

Study ID	Primary outcome(s)	Adherence PRE measurement	Adherence EARLY POST measurement	Adherence LATE POST measurement	Time frame (years)
	GA/Regional	70% (n=31/44)	82% (n=41/50)	97% (n=29/30)	
	Prolene	64% (n=28/44)	76% (n=38/50)	93% (n=28/30)	
	Overlap documented	30% (n=13/44)	54% (n=27/50)	67% (n=20/30)	

na: not applicable