

Appendix A: Studies identified in search that used PDSA method

All 73 studies identified in review.

First author	Year of publication	Country	Title	Length of study (months)	Cycle(s) referred to as PDSAs or PDCA's?	Model for Improvement or FOCUS supporting model?	How thoroughly were PDSA methods described?*
Bader(1)	2002	USA	Using a FOCUS-PDCA quality improvement model for applying the severe traumatic brain injury guidelines to practice: process and outcomes	36	PDCA	FOCUS	4
Baker(2)	2002	USA	Successful performance improvement	unclear	PDCA	none	2
Barry(3)	2006	UK	Small is beautiful	15	PDSA	none	1
Beger(4)	1999	USA	Self-Administered Medication Packet for Patients Experiencing a Vaginal Birth	1	PDCA	FOCUS	4
Bittle(5)	2007	USA	Registration-associated patient misidentification in an academic medical center: causes and corrections	48	PDSA	none	3
Boesch(6)	2012	USA	Prevention of Tracheostomy-related Pressure Ulcers in Children	30	PDSA	none	1
Boyd(7)	2011	UK	Peripheral intravenous catheters: the road to quality improvement and safer patient care	6	PDSA	Mfi	4
Brown(8)	2006	UK	Redesigning patient services	2	PDSA	Mfi	4
Buckley(9)	2010	USA	Linking residency training effectiveness to clinical outcomes: a quality improvement approach	48	PDSA	none	4
Buhr(10)	2006	USA	Quality improvement initiative for chronic pain assessment and management in the nursing home: a pilot study	16	PDSA	none	4

Campbell(11)	2008	Canada	Bridging the gap between primary and secondary care: use of a clinical pathway for the investigation and management of deep vein thrombosis	unclear	PDSA	none	1
Caswell(12)	1996	USA	Improving the management of anemia in hemodialysis patients by implementing the continuous quality improvement program	12	PDCA	FOCUS	4
Chen(13)	2006	China		20	PDCA	none	4
Christie(14)	2009	UK	Using a communication framework at handover to boost patient outcomes	36	PDSA	Mfl	4
Curran(15)	2012	UK	Using a PDSA cycle of improvement to increase preparedness for, and management of, norovirus in NHS Scotland	12	PDSA	none	4
Dobrzanska(16)	2007	UK	Piloting stroke rehabilitation in a community hospital	unclear	PDSA	none	1
Dover(17)	2012	UK	Caring for patients in the right place at the right time	12	PDSA	Mfl	3
Dunn(18)	2011	USA	Developing a nursing model of care? Try focus groups	2	PDSA	none	4
Eckhart(19)	1996	USA	Improved Coumadin therapy using a continuous quality improvement process	24	PDCA	FOCUS	4
Eisenberg(20)	2002	USA	Intravascular therapy process improvement in a multihospital system: don't get stuck with substandard care	18	PDCA	none	4
Esmail(21)	2004	Canada	Quality improvement in the ICU. A Canadian perspective	unclear	PDCA	FOCUS and Mfl	1
Feehery(22)	2003	USA	Flushing 101: using a FOCUS-PDCA quality improvement model to reduce catheter occlusions with standardized protocols	unclear	PDCA	FOCUS	1
Fernandes(23)	2009	Dubai	Using evidence to reduce the rate of episiotomy in a Dubai hospital	13	PDCA	FOCUS	4

Flynt(24)	2002	USA	Using OASIS Data to Improve Skin Care	unclear	PDCA	FOCUS	4
Gillaspie(25)	2010	USA	Better pain management after total joint replacement surgery: a quality improvement	0.033	PDSA	none	3
Gordon(26)	2000	USA	A quality improvement approach to reducing use of meperidine	60	PDCA	none	4
Gordon(27)	2008	USA	Improving reassessment and documentation of pain management	24	PDCA	none	4
Gray(28)	2007	UK	Developing the public health role of a front line clinical service: integrating stop smoking advice into routine podiatry services	6	PDSA	none	2
Hallett(29)	2012	UK	How to address the physical needs of clients in a mental health setting	3	PDSA	Mfi	4
Hoskins(30)	2002	USA	Quality improvement in patient distribution at a major university student health center	6	PDCA	FOCUS	4
Isouard(31)	1999	Australia	Improved turnaround time of laboratory test results using a FOCUS PDCA approach	12	PDCA	FOCUS	4
Johnson(32)	2009	USA	Implementation of a diabetes clinic-in-a-clinic project in a family practice setting: using the plan, do, study, act model	3	PDSA	none	3
Koll(33)	2008	USA	The CLABs Collaborative: A Regionwide Effort to Improve the Quality of Care in Hospitals	unclear	PDSA	none	1
Leone(34)	2009	USA	Implementing a pain management program in a long-term care facility using a quality improvement approach	2	PDSA	none	4
Lynch-Jordan(35)	2010	USA	Applying quality improvement methods to implement a measurement system for chronic pain-related disability	6	PDSA	none	3
Manfredi(36)	2003	Brazil	A model for improving quality in	6	PDCA	none	4

Marang-van de Mheen(37)	2006	Netherlands	nephrology settings Adverse outcomes in surgical patients: implementation of a nationwide reporting system	unclear	PDSA	none	1
Marcellus(38)	2012	USA	Quality Improvement for Neonatal Nurses, Part II: Using a PDSA Quality Improvement Cycle Approach to Implement an Oral Feeding Progression Guideline for Premature Infants	32	PDSA	none	3
McPharlin(39)	1993	USA	FOCUS-PDCA(TM): A quality improvement tool to improve efficiency in the vascular laboratory	14	PDCA	FOCUS	4
Meehan(40)	1993	USA	Improving blood glucose monitoring in a hospital setting using the PDCA approach	unclear	PDCA	none	4
Miano(41)	1998	USA	Implementation of the IV push method of antibiotic administration using the FOCUS/PDCA approach	6	PDCA	FOCUS	4
Miller(42)	1994	USA	Quality management series: Quality improvement in the cutaneous micrographic surgery laboratory	12	PDCA	FOCUS	4
Moran(43)	2009	Ireland	Improving palliative care	unclear	PDSA	none	4
Nakayama(44)	2010	USA	Using a Plan-Do-Study-Act cycle to introduce a new OR service line	1 year	PDSA	Mfl	2
Nayeri(45)	2011	Iran	An investigation into the effects of quality improvement method on patients' satisfaction: A semi experimental research in Iran	unclear	PDCA	FOCUS	4
New(46)	1997	USA	Quality improvement in the ambulatory surgical setting	2	PDCA	FOCUS	4
Nicotra(47)	1996	USA	Process improvement plan for the reduction of nosocomial pneumonia in patients on ventilators	unclear	PDCA	FOCUS	1
Olenginski(48)	2006	USA	Development and Evaluation of a	unclear	PDSA	none	2

Oyler(49)	2011	USA	Vertebral Fracture Assessment Program Using IVA and Its Integration With Mobile DXA Teaching internal medicine residents to sustain their improvement through the quality assessment and improvement curriculum	36	PDSA	none	2
Pace(50)	1997	USA	Clinical research. Performance model anchors successful nutrition support protocol	48	PDCA	FOCUS	4
Porter(51)	2009	Australia	Improving GP diabetes management. A PDSA audit cycle in Western Australia	unclear	PDSA	none	1
Pronovost(52)	2000	USA	Using online and offline change models to improve ICU access and revenues	24	PDSA	none	4
Provance(53)	1994	USA	Quality Improvement and Public Health - Tetanus Immunization in the Emergency Department	12	PDCA	FOCUS	2
Reid(54)	2005	UK	Does client self-booking reduce 'did not attends' (DNAs) in a counselling service?	1	PDSA	none	4
Reid(55)	2005	UK	Improving referral information in community mental health	unclear	PDSA	none	4
Robarts(56)	2008	Canada	A framework for the development and implementation of an advanced practice role for physiotherapists that improves access and quality of care for patients	unclear	PDSA	none	3
Sanchez(57)	2009	USA	Implementation of a diabetic visual foot assessment in a primary care setting	0.5	PDCA	none	4
Saxena(58)	2004	USA	A comprehensive assessment program to improve blood-administering practices using the FOCUS-PDCA model	51	PDCA	FOCUS	1

Simon(59)	1997	USA	Improving the processes of care and outcomes in obstetrics/gynecology	30	PDCA	none	4
Sorokin(60)	2006	USA	Enhancing patient safety during feeding-tube insertion: a review of more than 2,000 insertions	20	PDSA	none	4
Stadt(61)	2005	USA	Best practices that Improved Patient Outcomes and Agency Operational Performance	48	PDSA	none	4
Stevens(62)	2010	USA	A Multi-Institutional Quality Improvement Initiative to Transform Education for Chronic Illness Care in Resident Continuity Practices	36	PDSA	none	1
Sumrall(63)	2011	USA	Achieving appropriate prophylactic antibiotic administration while simultaneously implementing an automated anesthesia record	18	PDSA	none	4
Tea(64)	2008	USA	Proactive patient rounding to increase customer service and satisfaction on an orthopaedic unit		PDCA	none	1
Thakkar(65)	2011	UK	A quality improvement programme to increase compliance with an anti-infective prescribing policy	12	PDSA	none	1
Tomolo(66)	2009	USA	A case study of translating ACGME practice-based learning and improvement requirements into reality: systems quality improvement projects as the key component to a comprehensive curriculum	22	PDSA	Mfl	2
Torkki(67)	2006	Finland	Managing urgent surgery as a process: Case study of a trauma center	12	PDCA	none	4
Van Tiel(68)	2006	The Netherlands	Plan-do-study-act cycles as an instrument for improvement of compliance with infection control measures in care of patients after	15	PDSA	none	2

Varkey(69)	2009	USA	cardiothoracic surgery Using quality-improvement techniques to enhance patient education and counselling of diagnosis and management	0.75	PDSA	none	3
Wheatland(70)	2006	Australia	Initiating a PDSA cycle: improving management of diabetes in rural WA	unclear	PDSA	none	4
Wojciechowski(71)	2007	USA	A case review: designing a new patient education system	48	PDSA	none	4
Wolfenden(72)	2010	UK	Track and trigger system for use in community hospitals	unclear	PDSA	none	1
Zack(73)	2008	USA	Zeroing in on zero tolerance for central line-associated bacteremia	unclear	PDCA	FOCUS	1

*1= No detail of cycles reported, 2 = Themes of cycles provided (but no additional details), 3 = Details of individual cycles, but not of stages

within cycles provided, 4 = Details of cycles including separate information regarding stages of cycles provided

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