PMID First Author Title Year Study Type Country Setting Blinding Int Length Total Study Durst 1932242 Kalar, 2004 Validity of the brief pain mentary for use in documenting the 2004 (Observational United States (Primary Care	ion Main Study Objective Target N	Target Population Eligibility Criteria Patient Characteristics	Int. n at Baseline (n at Follow-up) Int. Type Specific Intervention Control n at Baseline (n at follow-up)	Specific Control Outcomes Measured Results CI Significance	Safety and Adverse Events Additional Findings Summary
15322437 Matter, 2004 Validity of this beril grain revisitory for use in documenting the locationness of pulleties with numericary grain.	Formuly exclude the relability and validity of the BP1 for use in non-concern pain patients.	250 judicitis with air finds or low back. just:		The relativity of 947 rid day collected from non-course para planets was conquested to that opposits the florationary for comparison and sufficient productions of the sufficient parameters of the sufficient and the sufficient flocts subcurse of 194 self-year replicated for the surround or the residencing of the 97% to popiors. Insense of pain was alto trop, the red whole suffering of the 97% to popiors insense of pain was alto trop. In the whole sufficient period pain such self-year floration of the pain was alto the sufficient painting principle of course (self-year) from the painting of the year of the painting great of course (self-year) from the sum assessable to thorough controllor course from west of courseloss selecting that are assessable to thorough controllors coursely not west of courseloss selecting that are sessable to thorough controllors over time.	Results appoint his validay of the life in a amesaum of pain in jointies without care on, in proficious, is a measure of pain for wheths and tell-palares.
24/11/480 *Naction, 2014 Opposed prescribings a systematic review and critical appressar of Coldefines New or fine United States Opposed Naction, 2014 Opposed Naction (Coldefines National Coldefines Nationa	To invaluable the quality and content of guidelines on this use of opposits for chronic pain.	1) Staff automitization surveys to pather retrospositive data on paid to qua putterns among patients entirificing automatical automatical programs patients produced patients programs primary (2064/V) dispress of the orion sustemporations (or 12-777) 2) As shared of patients (or 5-61) who comprised the students letterions programs (or 12-777) 2) As shared of patients (or 5-61) who comprised the students letterions comprised the students comprised the stu		Thisteen guidelines met selection critical involved ACMEET is come sever 100 to 8 acids of 10 17. The ACMENT addings are good to life or 10 guidelines. The received high ACMEET all and AMSTORM course. Most guidelines accumined that chincides and collars guidelines accumined and collinions and collars guidelines accumined and collinions and collines guidelines accumined and collinions and collines guidelines accumined and collinions and collines and collines guidelines and collines	Soughe invented enderson and variables development materials, leveral guidelines on leveral guidelines of leveral guidelines and section of leveral guidelines provided to the section of leveral guidelines and leveral guidelines and leveral guidelines when certain medications, alluration to study drug and shough provided guidelines and leveral guidelines and leveral guidelines and provided guidelines and leveral guidelines and leveral guidelines and descriptions.
34873340 Ocero, 2014 The Changing Face of Research Lee in the United States A Retrospective Analysis of the Part 57 Years United States United States United States	To examine the versionly of these secondaril regions and define the secondarily of these secondarily regions and the secondarily secondarily secondarily secondarily secondarily secondarily secondarily secondarily second	completed the structural interview.		Programs pass for any a function of the double of the doub	The demopsiphic composition of hardin cases entering feathered that the composition of t
15416554 Ohs, 2009 Opposit Statements and Hipperagrass in Chronic Plain Patients After 2009 Observational United States One April States One April Patients After 2009 Observational United States One April State	Document the development of opicid tolerance or CHH in padents with chronic pain.	If partierts with chronic low back pain.		tess operatives than procuption options. Plan sensitivity In the cool pressure size an plantient Security by an extra set sold the size of the size	These results provide the first prospective evidence for the development of analyses between a set On the yearing development of analyses between a set On the yearing also validated enthreadology for prospective yearing of the above validated enthreadology for prospective yearing of the above validated enthreadology for prospective yearing or above the prospective of the prospective prospectit
23504536 More, 2013 Combining bugstells and auditemosphen for acute pain 2013 Systematic Review United States Insurangement after third-insize carbactors.	Evaluate the scientific evidence for using the bupyclen-APAP contribution and propose clinical treatment recommendations for task on mininging scotts produperative pain in destilarly.			The results of the quantificials a systematic review in social for the Republic ARM control and use and useful discless assigned as the second of the second	phenomena in larger populations for glans palents. Combining happening mil-Differ panished condition with an extraction of the particular condition with an extraction of the particular condition and the particular condition of the particular condition o
2734446) Moster, 2916 — Chronic Pian and Merital Haalift Disorders: Shared Nacual 2016 Stummary Article Montaniens, Epidemiology and Frances 2751466 Januaren, 2015 — Most of Article Pianters 2751466 Januaren, 2015 — Most of	Aim of the aludy was to compare prevalence rates of psychiatric	194.516 outcounts (mean fatandard			consider including European APAP containation therapy. Model and anneally disorders are more prevalent in individuals with
Byrdrom. Followjaja, and strable Bowel Byrdrom. Relinator From Pau Cital Joses Calcel of Saley.	disurders among individuals with chronic fatigue syndrome (CFS). (Rommyaliga (FM), and initiable bowell syndrome (BS).	Sometrical gap = 4.6 (12.5) years, 58.7% women() of the general-population control.		Weaker's Back of 12% - 14% and to see with 15%, 15%, 160 of 17% in more of 15%, 15% and 15% of 17% in more of 15%	FSSs, and particularly CFS, than in redividuals without FSSs. Nessevar, and individuals with FSSs do not have moved or airwelly disorders.
1999(19)1 Aurundson, 2009 Understanding the co-occurrence of anxiety disorders and chronic 2009 Report United States pairs state-of-the-art 2546(19)7 Hair, 2015 November 2015 Observational United States 2015 Observational United States	To assess national trends in and characteristics of nonmedical	Prevalence of nonmedical use and use		Monmedical prescription opicid use and use disorders. Among abuts aged 18 through 64 years, the prevalence of nonmedical use	During the 2003-2013 years, among adults aged 18
Among nadial Aged 18 Through 64 Years in the United States. 2003-2013	to seem endered words in and dissessination of normalized processing and the processing of the process	Sociolina nedi relazido del Naciona sere in participa del Consolina del Naciona sere in participa del Sociona del Naciona de		precurption colorisation decreased from 6.4 kg (Mpc CL, 6.5 Mpc CL, 6.7 Mpc), 2000 to 4.4 kg (Mpc CL, 4.5 Mpc CL, 6.7 Mpc), 2000 to 4.4 kg (Mpc CL, 4.5 Mpc CL, 6.7 Mpc), 2000 to 4.4 kg (Mpc CL, 4.5 Mpc CL, 6.7 Mpc), 2000 to 4.4 kg (Mpc CL, 6.7 Mpc), 2000 to 4.4 kg (Mpc), 2000 to 4.4	through 64 years, the princetings of normalistic use of prosponding operations of the commission of prosponding operations of processed disconline, throughout of size and related mortality increased.
22815431 Polotes, 2019b Openi niciocal Implessigasea in community deselling adultia with 2019 Observational United States disorde pain.	Tex primary aim of this aboly was be determine the associations between cycles and primary aim of the processor cycles are processor to a sample of community desiring another with orders pain.	The saley content moderal SM adults (86 geodesia des 150 moderal moderal sie of geodesia des 150 moderal sie of content scapelaris microscopiany pain treatment program.		Next pers perception After Control of Section 2014 (1997) and administration of the Control of	In the sumpled community-design guide, these observations lauguse that lave product are sea accounted in the sumplement of the season of the season of the season of the lauguse that the season of the season of the season of the season of the lauguse and the season of the season of the season of the season of the education of the perception.
23430517 Janes, 2013a Westin ou and hearing and in balancies purply commission and property of the second sec	user results the militarials between commediations of quied pain reflective and conformation are suspensively and provide uses and heroin overdose doubts.			Market to the "PL-SSA AND 2018-2019, and purpose the property of the property	Autorno. aus among terminolitical assert and registral pair reflectives recreased between 200-200 and 2002-200-200, with more registral promometical use of opioid pair resilience todars in intellige features, interventions to prevent intermediate of these drops are to the commendation of the production of the drops and the strength recremediate loans of opioids.
2007/1732 Junioria, 2012 Operationes and Addiction During Diversic Option Therapy 2012 Services United States Un	To examine the association of maximum prescribed daily optoid	All unintentional prescription opinid		Main Outcome Measure Associations of opioid regimens (dose The frequency of fatal overdose over the study period among individuals	Among patients receiving opioid prescriptions for pain, higher
2)14(2)734 Indicated a Contract Contrac	to examine the abordance of infancion processor days good to the control of the	An understanding place power agends of place of the place of the place of the place of success among of place (so the place of the among show model and who used among show model and who used received oppose three spy for pain.		Mark 1 Charlon Masquare Advancation of special spillingers groups where the management of special spillingers groups eventures an advancage softened by the disposes, adjusting year group, see, reac, ethnicity, and connected conditions. As a group see, reac, ethnicity, and connected conditions are groups and the spillingers groups and the spillingers groups and the spillingers groups and the spillingers groups researched data of 100 mg/d or most, compared with the dates calculated advancation of 100 mg/d or most, compared with the dates calculated advancation and an off-spillingers and belows anonythe condition and the spillingers and belows anonythe condition of the advancation of 100 mg/d or most, compared with the dates calculated advancation and federated approximation (MPAIA) = 0.1 this, among these with characters and present an opposition of 100 mg/d = 0.1 this price of 100 mg/d = 0.1	placeing jaborites recovering space processions for fault inglited in the control of the contro
20139315 Unbehnlut. 2010 Unional factors associated with preception drug use disorder in 2019 Observational Unided States. Associate which printing use potentials of his force pain which printing use potentials and notice pain which printing use potentials and notice paint of the production and associated and production and production and associated paint of the prod	To asserte characteristics associated with pracription drug and disorder (PCUD) improva cape patients where cape in the control production of disorder (PCUD) improva cape patients where cape in the cape of the disorder cape in the cape of the cap	Performance was the 4-50 years out in set year for 2 is morth set years ground year or pro-processor of the set of the set of the set of the processor of the set of the set of the set of the set of the processor of the set of the set of the set of the s		Measurement exclude the Composite International Exploration (MSD) parties (14 % mail, 41	PULD appears increased among horse with searly destributed increased among horse with searly destributed characteristics. The search of the
American Plan Society and American Academy of Para Medicine 1722/7985 Martell 2007 Sprinners (Revo. Qualif Telestent Very Copy Copy Francisco Copy (September Revolution Copy) Sprinners (Revolution	To distantion the prevalence of opsicle treatment, whether opsical insidiations are effective, and the prevalence of indistance sale substance is administrative sale of the option open open open open open open open op			Opinide prescribing swind by treatment setting interp. 2% to 68%). Make analysis of the 4 subdes assessing the efficient of opinion compared with the subdes of the subdes assessing the efficient of opinion compared with 3 190 composite advantaged man ofference (200 ft.) – 24% to 111 pt. of the composite advantaged man ofference (200 ft.) – 24% to 111 pt. different opinion demonstrated a consequent created in character or pain from the compared of the composite of the compared of the composite of the compared of the	Removal and publication bisses and poor study quality. The fair evaluating the efficacy of operate was bright frac 16 years (and the property of the common prescribed for choren being part and may be efficience for mode term part and Long-term efficiency 16 years (and the prescribed for choren being part and transport prescribed for choren being part and may be formed to be prescribed for choren being part and transport to be prescribed for choren being part and transport to be an extra part and common participation for the prescribed for choren being participation for the choren participation of the prescribed for choren being participation for the participation for the prescribed for choren being participation for the prescribed for choren being participation for the participation for t
International Immediated Association for the Study of Plan. Classification of Association for the Control Plan Sociation Study of Plan. 2014 Outside Study O					
17074616 Clathert, 2009 Enderne Sease Scientific Data Scoumering the Treatment and 2009 Review Countifications of Comprehensed Comprehense Perspanses for Chronic Montaliguant Pain Normaliguant Pain Normaliguant Pain Normaliguant Pain Normaliguant Pain United States Countification of Control Countificati	To review the evidence on the effectiveness of MBR for patients.			From 6168 studies identified in the searches, 41 RCTs with a total of 6858	Platests with chronic LBP receiving MBR are likely to experience
	with distroic LBP The focus was on companions with seal care and distribution of the companion of the companion of the companion distribution of the companion of the companion of the companion distribution of the companion of the companion of the companion distribution of the companion of the companion of the companion distribution of the companion of the companion of the companion distribution of the companion of the			periodicated wave concluded. Methodological quality puriogic grasped from 1 to 10 of	less par aux dis destillé plus froit les récontrolles qu'un de cert oil et par les companies par les companies de la companie del la companie de la companie del la companie de la companie del la compan
22175199 Castin, 2012 The cognitive behavioral therapy cases an improvement in quality (2012) Rendermined Controlled Trial (If is in pollents with chronic musculcalaided plan (If is in pollents with chronic musculcalaided plan	So study the cognitive behavioral therapy (CBT) effectivenesis in a group of patients with chronic pain.	A randomized circust fail with two porugated groups competing 50 patients with groups competing 50 patients with patients were automitted to CRT and 45		The visual analogue, hoppids analog and depression, and qualify file ISF-36 scales were applied. If ISF-36 scales were applied. IS	The CST race diffusive and the scarced are improvement in more document of quality of file when compared to the Control Group, after ten weeks of treatment.
1333065 Glossman, 2007 Moduliness training as an intervention for floromysigia; evidence of post-intervention and 3-year follow-up benefits in web-basing United States		Configured Directional Descriptions			
16972312 CMR, 2006 The basel deficit of a form within envisional disclosure in 2006 Reinformated Collosina Triar United States Strongeligie a understand trial	to set the effects of it holes, without moderate disclosure about metals of including a control of the effect of control of the effect of control of effects of disclosure. Insignite below-upon to track the time counte of effects of disclosure.	Allocate and TM Formach Schools et al. 80 comprehens et a 75 per sonational to write by 4 april at force about 40 per sonational to write by 4 april at force about 40 per sonational to a force about 40 per sonation 40 per		This produces a resolution most difficult and charge in least from beautine to 1 month and 3 month follow-up are searmed. I must be a few or the charge of	stitles execution disclarate size for conducted from a for fine is surrience excloser and disclarate bearing from the first is surrience excloser and disclarate bearing for surrience with Fix 17th boardin, bowered; may be dataped for several which after exclude plant days for direct closed figuritations.
15490514 Numer 2006 Shot and large term efficacy of their Cognitive behavioural through 2006 Rendermand Controlled Floar United States In American Controlled Floar International Controll	Extracted the shorts and long-term discloyed a board cognitive- bulanced images (3) of commis-improvementables of decided (TAE) paint in a revolutionated controlled final	TIES date patient were assigned concluding the season of other CET concluding the season of other CET concluding (p-79).		Principanis completed controller gain, earlier year feetings, and principal principal gain gain feeting. If proof present completed controller gain feeting, and compared with the control group, the CET group showed significantly and provided gain feetings. If you controller gain gain gain gain gain gain gain gain	A part of EST intervention improves one year official advanced in That office plants are the set effects appear to result from specific represents of the CEST.
137 MARCEL STORMERS AND STORMER	It was hypothesized that resilves to controls, patents engaging in the writing interview would experience in promote status on psychological well-being and physical health variables.	Flatford (F + 50) were moderational into a transmarkering operation, accorded writing group, or canad care control group. The how altifug groups within the lab biolatory to 2'dl minutes on 3 days at 1-week victorials.		Psychological and large, gain, and figure sees the growing variety and strong group represented applications and support of the property and strong seed of the property and strong group represented application should be property and being seen of the property of the pro	Formula palents experienced doctors benefits as populational palents experienced doctors benefits as populational palents of the palents of
12652817 Smith, 2033 Concast experience uniting as set finally for times and times are constructed to the control of times and times are constructed to time as a set finally for times are constructed to time as a set finally for times and times as a set finally for times and times as a set finally for times and times as a set finally	to understand the effect of exercise on the neural control of read. 48 women with chronic neck pain includes.	Processor solutions aged behavior 18 and Solvers. Solvers and S		This primary inclusion in station was the planting presented paths and considerable and con	An exercise programme that seem to enhance makes and the de- central grain regimes the specificity of each contained that the contained and the contained that the contained and the decided per pasteries with recit paint reduces pain and disability in pasteries with recit paint.
23195372 Counts Vergas, 2011 Exercise, manual traces, and declaration with or without high- intensity-layer carbonizing for prompting controlled controlled from the back pair. 15 weeks The search of the search	To exist the effect of a multimost applical through program and or without the adjustment of deep visitor running on pain, physical dealing and general heaten.	48 Bulgets with nonspecific chronic law back plan.		Thysical Sessory (Stith Intervations woulded in Spyllicidal Improvements in pain disability) (Stith Intervations woulded in Spyllicidal Improvements in pain disability) (Stith Intervation of the Inter	Part, disability, hashin status, muscal sarregin and endurance, and unteractives, and unteractives of the high sound- under larger classification systematic systematic map of the high sound- understand of the across the treated but the traillimental projectal formation and of the across the treated but the multimost projectal formation applicated proposent in pain in supplication of the supplication of the supplication of the supplication painting and the supplication of the supplication of the supplication specification of the supplication of the supplication specification of the supplication of the supplication proposed to the supplication of the supplication as small a fewer in the other supplication of the supplication of as small a fewer in the other supplication and the supplication of the supplication and the supplic

PMID First Author Title Year 21952184 Standaert, 2011 Comparative Effectiveness of Exercise, Acupuncture, and Spinal 2011												
21952184 Standaert, 2011 Comparative Effectiveness of Exercise, Acupuncture, and Spinal 2011 Manipulation for Low Back Pain	11 Systematic Review U	United States	Setting Bilveling Intel Length Total Study Duration (1) a Struktured seems flowly Objective section flowly Objective section flow of the section flow of the section flow of the section flowly objective of the LEP than expenditure? (3) is SMT more effective in the section (1) and the section of the section (2) is SMT more effective in the section (3).	chronic Ty? (2)	Engionity Criteria	Patient Unaracorratics IIII. It at Baseline	(n at rosow-op) int. type Openic intervalsion	Construir n'at Baseune (n'at ronow-up) Specific Control	Outcomes Measures	Two studies were identified comparing the use of structured exercise with SMT that met our inclusion criteria. Although these studies utilized different	Significance Safety and Adverse Even	The studies deterfil of indicate hard strictured exercises a appear to offer equivalent breaff is in terms of pain and improvement for those with chronic LBP with chincia bear evident within 8 weeks of care. However, the level of evil
			of changin LBP than acurainchuse? (4) Do certain subnatura	.						two studies were investment as companing the use or structured exercise with SMT that met inclusion criteria. Although these studies utilized different approaches for the exercise and SMT treatment groups, patients in both improved in terms of pain and function in both studies. Using random- reflects modeling, there was no difference between the exercise and SMT		llow. There is insufficient evidence to comment on the re
			respond more favorably to specific treatments? (5) Are any these treatments more cost-effective than the others?	of						groups when the data from these studies were pooled. We identify ed no studies meeting our inclusion criteria that compared acupuncture with either		benefit of acupuncture compared with either structured or SMT or to address the differential effects of structured SMT or powerful for providing the providing the structure of structures.
										structured exercise or SMT or that addressed the relative cost-effectiveness of these approaches in the treatment of patients with chronic LBP.		SMT, or accumenture for specific is subgroups of individual chronics LBP. There is also incutfil client redomen regardin relative code-effectiveness of structured exercise, SMT, c accumenture in the subgratum of foreince LBP. accumenture in the subgratum of foreince LBP.
20147878 Dufour, 2010 Treatment of chronic low back pairs a randomized, clinical trial 2010	10 Randomized Controlled Trial U	United States	Single To compare the efficacies of 2 active therapies for chronic back pain (CLBP).	ow 285 patients with CLBP	+		a group-based 12-week program comprising	Visual Ar		Of the 286 patients, 14 patients did not start treatment. Of the remaining		Both groups showed long-term improvements in pain an
companing group-based multidisciplinary biopsychosocial rehabilitation and intensive individual therapist-assisted back muscle strengthening exercises			was paint (state).				73 hours of therapist exposure (approximately 12 hipatient): 35 hours of hard physical exercise, 25 hours of light exercise/occupational therapy, and 16 hours	Health S	Burvey	patients, 25 (9%) dropped out of therapy. The 2 groups were comparable regarding baseline characteristic. After freatment, significant improvements were observed with regard to pain, disability, and most of the quality of life timensions. These effects were sustained over the 24-month follow-up		scores, with only minor statistically significant difference the 2 groups. The minor outcome difference in two or of to based muldisciplinary witholitation program is hardly o interest for individual patients.
												INTERNAL FOR INCOVIDUAL PARAMETER.
18457734 Hall 2008 Does Aquatic Exercise Relieve Pain in Adults With Neurologic 2009	R Systematic ReviewMeta. I In		To evaluate the literature on the effectiveness of aquatic e				program comprising 1 hour of personal training twice a week; i.e., therapist exposure 24 h/patient (group B).			groups relating to secondary end points, Roland-Morris disability questionnaire, and in the MOS 36-tern Short-Form Health Survey the Physicial functioning" diemsion and the "physical component summary." Sineteen shurles met the inclusion criteria. It were of moderate to low risk of		There is grand avidence that there are no differences in
18452734 Hall, 2008 Does Aquatic Exercise Relieve Pain in Adults With Neurologic 2008 or Musculoskeletal Disease? A Systematic Review and Meta-Analysis of Randomized Controlled Trials	38 Systematic ReviewMeta- Un Analysis	nited Kingdom	To evaluate the iterature on the effectiveness of aquatic or in nelieving pain in adults with neurologic or musculoskelet disease.	ercise al						bias, and 5 of these had data suitable for meta-analyses. This showed that		There is sound evidence that there are no differences in relieving effects between aquatic and land exercise. Cor with no treatment, aquatic exercise has a small pain-relie
										with no treatment (P. 04; standardized mean difference (SMD), ~17; 95% confidence interval [CI]. ~33 to ~01), but it is not possible to draw a firm conclusion because of the lack of consistency of evidence across studies.		If there is solding several to the same that is continued and the several continued and a several continued and a several continued and a several continued and a several continued and several continued an
										Comparable pain-relieving effects were found between aquatic and andbased exercise (P .56; SMD .11; 95% CL - 27 to .50).		methodologic designs and detailed reporting of temperal
18204386 Hurwitz, 2008 Treatment of neck pair: noninvisive interventions: results of the Bone and Joint Decade 2000-2010 Task Force on Neck Pain and its Associated Disorders:	38 Evidence Synthesis U	United States	To identify, critically appraise, and synthesize literature from through 2006 on noninvasive interventions for neck pain a associated disordance.	n 1980 of Sec	+					Of the 359 invasive and noninvasive intervention articles deemed relevant,		depth, and care earling. Our best evidence synthesis suggests that thirapses in manual thorapy and deversion and methods the suggests that thirapses in manual thorapy and deversion are more effective than all strategies for patients with each part in this way also true.
Its Associated Disorders			associated disorders.							Of the 359 invasive and noninvasive intervention articles deemed relevant, 770 (47%) were accepted as scientifically admissible, and 130 of these estated to noninvalve interventions (inclusifies halfs) acceptable, costs, and safety). For whiplash-associated disorders, there is evidence that disorders in vision, mobilization, and exercises appear armore beneficial than the property of the pr		strategies for patients with neck pain; this was also true therapies which include educational interventions addre- efficacy. Future efforts should focus on the study of noni-
										usual care or physical modalities. For other neck pain, the evidence suggests that manual and supervised exercise interventions, low-level laser therapy, and perhaps acupuncture are more effective than no treatment, sham, or		interventions for patients with reduced or make support and of interventions for patients with reducing symptoms and o design and evaluation of neck pain prevention strategies
										and perhaps acupuncture are more effective than no treatment, sham, or alternative interventions; however, none of the active treatments was clearly superior to any other in either the short- or long-term. For both whiplash- associated disorders and other neck pain without radicular symptoms,		
										associated disorders and other neck pain without radicular symptoms, intermisons that docused on regaining function as soon as possible are relatively more effective than interventions that do not have such a focus.		
16034851 Hayden, 2005 Exercise therapy for treatment of non-specific low back pain 2005	05 Systematic Review U	United States	To evaluate the effectiveness of exercise therapy in adult r	on-	+					Sixty-one randomized controlled trials (6390 participants) met inclusion		Exercise therapy appears to be slightly effective at decre and improving function in adults with chronic low-back or
			specific acute, subacute and chronic low-back pain versus treatment and other conservative treatments.	no l						criteria: acute (11), subacute (8) and chronic (43) low-back pain (1 unclear). Evidence was found of effectiveness in chronic populations relative to comparisons at all follow-up periods, pooled mean improvement was 7.3		particularly in healthcare populations. In subscute low-b there is some evidence that a graded activity program in
										Evidence was found of effectiveness in chronic populations relative to comparisons at all follow-up periods; posited mean improvement was 7.3 points (95% C. 3.7 to 1.0.9) for pain (out of 100), 2.5 points (1.5 to 3.9) for function (out of 100) at earliest follow-up. In studies investigating patients (i.e. presenting to healthcare providency mean improvement was 13.9 points (5.5		absenteeism outcomes, though evidence for other types exercise is unclear in acute low-back pain, exercise in exercise as either no treatment or other conservative tre effective as either no treatment or other conservative tre
										to 21.1) for pain, 6.9 (2.2 to 11.7) for function, representing significantly		
										from a general population (e.g. with advertisements). There is some evidence of effectiveness of graded activity exercise program in subacute low-back pain in occupational settings, though the evidence for other types of exercise		
										therapy in other populations is inconsistent. There was evidence of equal effectiveness relative to comparisons in acute populations (pain: 0.03 points (95% Ct, -1.3 to 1.4)).		
23165183 Vincent, 2013 Systematic review of manual therapies for nonspecific neck pain 2013	13 Systematic Review U	United States	To evaluate the effectiveness of manual therapies in the tri of nonspecific neck pain.	salment						Of 27 identified trials, 18 were of high quality. In acute neck pain, effective reatments were thoracic manipulation combined with electrothermal therapy in the short term and cervical manipulation in the long term. In chronic neck		Manual therapies contribute usefully to the management nonspecific notic pain. The level of evidence is moderate term effects of upper thoracie manipulation in acute notice.
												term effects of upper thoratic manipulation in acute neci limited for long-term effects of neck manipulation, and life techniques and follow-up durations in chronic neck pain.
										consistently at all follow-up time points. None of the manual therapies used alone or in combination was superior over the others. In the long term, secresses alone or combined with manual therapies were superior over manual therapies used alone.		
24819432 Cuesta-Vargas, 2015 The optimal frequency of aquatic physiotherapy for individuals with chronic musculoskeletal pain: a randomised controlled trial	15 Randomized Controlled Trial	Spain	To establish whether there was a difference in health-relate quality of life (HRQoL) in people with chronic musculositels	ed 114 people with PwCMSKD			Individualised MPP, consisting of exercises for mobility, motor-control, muscle strengthening, cardiovascular training, and	HRQoL p Roland h				No significant differences between the two groups were the outcomes of a MPP except in the NDI at 8 weeks, be groups improved in all variables during the course for
			quality of title (HFICOL) in propie with chronic musculcinidal disorders (PM-CMSCO) after participating in a multimodal physiotherapy program (MPP) either two or three sessions	a week.			strengthening, cardiovascular training, and health education.	Index (N Arthritis I	nury and Western Umario and McMaster Universities' Index (WOMAC).	No Sastackoup significant d'inveninces serie fluidir debesent tre teur glicipe Ciz and Cigli, sergir fluid 18 et et «1.3.1 (15%)54440 8.9 j. 15 vi. 0.055 values (fine fluidir 18 et		groups improved in all variables during the course of 1 y study.
					1					18%)), HRQoL-VAS 84 29 (baseline: 58.04, 28.25%), RMQ 4.15 (baseline: 7.85, 15.42%), NDI 3.96 (baseline: 21.87, 35.82%), WOMAC 7.17 (baseline: 25.51, 19.10%), (32.91%), 58.64 (baseline: 39.75, 18.00%), MID-75 CA		
										23.51, 10.10%, 03.1795, 58.64 (pagetine, 33.7.5, 16.69%), into, 75.50 (baseline: 45.45, (30.05%), HRQoL 0.67 (baseline: 0.88, 21%), HRQoL-VAS 86.91 (baseline: 52.64, 34.27%), RMO 4.83 (baseline: 8.93, 17.08%), NDI 4.91 (baseline: 23.82, 37.82%), WOMAC 6.35 (baseline: 15.30, 9.32%).		
23249655 Cramer, 2013 Randomized-controlled Trial Comparing Yoga and 2013 Home-hased Eversies for Chronic Nack Pain	13 Randomized Controlled Trial	Germany			+					(
19525833 Dundar, 2009 Clinical Effectiveness of Aquatic Exercise to Treat Chronic Low Back Pair. A Randomized Controlland Cont	9 Randomized Controlled Trial	Turkey	To compare the effectiveness of aquatic exercise intervent land-based exercises in the treatment of chronic low back	ons with A total of 65 patients with CLBP			Aquatic exercise or land-based exercise treatment protocol.	Spinal m	mobility, pain, disability, and quality of life.	in both groups, statistically significant improvements were detected in all outcome measures (except modified Schober test) compared with baseline.		Water-based exercises produced better improvement in and quality of life of the patients with CLEP than land-ba
			(CLBP).							outcome measures (except modified Schober test) compared with baseline. However, improvement in modified Oswesby Low Back Pain Disability questionnaire and physical function and role imitations due to physical functioning subpart of Short-Form 36 Health Survey were better in aquatic		exercise."
15733046 Koumantakis, 2005 Thunk Muscle Stabilization Training Plus General Exercise Versus 2005 General Exercise Cotyl-, Randomized Controlled Trial of Patients With Recurrent Low Back Pain	95 Randomized Controlled Trial	Greece	8 weeks 3 months To examine the userluiness of the addition of specific stabili	zation 55 patients with recurrent, nonspecific back pain	No clinical signs suggesting spinal		Stabilization – enhanced exercise group:	General Self-repo	orted pain (Short-Form McGill Pain Questionnaire).	functioning suppart of Short-Form 39 Hearth Survey were center in aquatic secretical group (FW-0.05). Distinction emissauries for both groups improved, Furthermore, seffregorised sisability improved more in the general exercise —only group immediately after intervention but not at the 3-month follow-up. There were generally no differences between the 2 exercise approaches for any of the other		A general exercise program reduced disability in the sho
With Recurrent Low Back Pain			exercises to a general back and abdominal muscle exercis approach for patients with subacute or chronic nonspect pain by comparing a specific muscle solatilization – enhanc	e back ed	instability.		6*29.	group: n=28 status (P Kinesiopi	y (HolandMorris Disability Questionnaire), and cognitive Pain SelfEfficacy Questionnaire, Tampa Scale of phobia, Pain Locus of Control Scale)	disability improved more in the general exercise — only group immediately after intervention but not at the 3-month follow-up. There were generally no differences between the 2 exercise approaches for any of the other		A general extension program recursion accusacy or run and a greater existin than a stabilization—enhanced exercise in patients with recurrent nonspecific low back pain. Stat severoses do not appear to provide additional benefit power-class do not appear to provide additional benefit severoses of not appear to provide additional benefit provided to the provided additional benefit severoses of not appear to provide additional benefit provided additional benefit provide
14589260 Rainville, 2002 Comparison of short- and long-term outcomes for aggressive 2002		United States	general exercise approach with a general exercise – only approach.	could 77 consecutive patients with chronic spinal pain were treated with						outcomes. Seventy-seven patients with chronic spinal pain with a mean duration of		with subacute or chronic low back pair who have no clin suggesting the presence of spinal instability. Similar outcomes were obtained from aggressive spine
14539260 Plannville, 2002 Comparison or short- and long-term outcomes for aggressive spine rehabilitation delivered two versus three times per week	JZ Observational U	United States	to occurrence whether readment created two sines per wed produce similar outcomes when compared with an establis three times per week spine therapy program.	aggressive spine rehabilitation either two or three times per week.				Hackberg and after disability	ty, trunk strength and litting capacity were quantified before ir treatment. Pain visual analog scores and Oswestry y scores were measured before and after treatment, as	seventy-seven palients with circoric spinal pain with a mean duration of symptoms of 32 months underwent treatment. Twenty-four subjects opted for the twice per week and 53 opted for the three times per week treatment.		solitable Outcomes well obtained from aggressive spring solitable outcomes and solitable properties of the solita
								well as 1	12 months after treatment.	severing review in panels and review in part was in the minimum and industrial order of the minimum and industrial order or the minimum and industrial order or the minimum and industrial order or the minimum and industrial order order or displaced industrial. Projection and self-replaced and self-replaced and self-replaced and self-replaced and self-replaced and self-replaced industrial order		in physical therapy services and therefore cost did not a affect clinical outcomes in the treatment of this patient po
										treatment frequencies for measured flexibility, trunk strength, lifting capacity, pain intensity scores or Oswestry scores at the completion of treatment. At 12- month follow-up, no differences were noted between treatment frequencies		
										horizination ap, no universida were notad between treatment nequences		
26446832 American Geriatrics American Geriatrics Society 2015 Updated Beens Criteria for 2015										for pain scores, Useways secties, plantina perceptions or disciplacy for presentent, postferelament exercise compliance or use of other treatments for their spinal problem. Total therapy visits were less in the two than three times per week groups (12 vs 15 visits).		
26446822 American Gerlatrica Society 2015 Beers Criteria Updatte Expert Panel, 2015	is Guideline U	United States										
Panel, 2015 25621434 Gray, 2015 Cumulative Use of Strong Anticholinergics and Incident Dementia 2015 A Prospective Cohort Study	15 Observational U	United States	To examine whether cumulative anticholinergic use is asso with a higher risk for incident dementia.	ciated 3,434 participants 65 years or older with no dementia at study entry.	-					The most common anticholinergic classes used were tricyclic antiferencesants. Endurencesants and bladder antimiscrarining		Higher cumulative anticholinensic use is associated with increased risk for demonsts. Efforts to increase awarene
A Companies Constituting			With at Topings task, no included to deliminate and	the destruction in alloy usery.						The most common articholonogic classes used were tricyclic motificipressants. In Explanation articholonogic classes used were tricyclic interferoperation. In Explanation articholonogic production of the Common and Com		increased risk for dementia. Efforts to increase awarene health care professionals and order adults about this pol medication-related risk are important to minimize artisch- use over time.
										cumulative dose-response relationship was observed for dementia and Alzheimer disease (test for trend, P < .001). For dementia, adjusted hazard ratios for cumulative anticholinergic use compared with nonuse were 0.92		use over time.
										95% CI, 0.74-1.16) for TSDDs of 1 to 90; 1.19 (95% CI, 0.94-1.51) for TSDDs of 91 to 385; 1.29 (95% CI, 0.94-1.82) for TSDDs or 988 to 1095; and 1.54 (95% CI, 21-1.98) for TSDDs greater than 1095. A similar pattern of		
										results was noted for Alzheimer disease. Results were robust in secondary,		
24880195 Petrov, 2014 Berzodiazepine Use in Community-Dwelling Older Adults: 2014	14 Observational U									sensitivity, and post hoc analyses.		
24880195 Perrov, 2014 Benzodazagene Use in Community-Dwelling Orban Adults: 2014 Longitudinal Associations with Mobility, Functioning, and Pain		United States	To determine the prospective association between baselin bercodiazepine use and mobility, functioning, and pain and urban and rural African-American and non-Hissania white	e 1,000 community-dwelling adults, aged 2 65 years, representing a random sample of Medicare beneficiaries, shat/fied by ethnicity, sex. and traberiural residence.				Mobility v Function activities		sensitivity, and post hoc analyses.		These findings highlight the potential long-term inegative impact of beacodisaspine use among commun
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Longitudinal Association with Mobility, Functioning and Plan 20238999 Relates 2012 Mactic relaxants for pain management in the annual administration of the Control of th	22 Systematic Noview U 23 Systematics Noview U 24 Observational U 25 Statematics Noview U 26 Report U 27 Observational U 28 Observational U 29 Observational U 20 Observational U	United States United States	becombinating and an analysis of the community of the com	on and of the control				Figure 1 to 1 t	was assessed with the Life Space Assessment in your good profession of a final principle of a second principle	earnesting, and open for contingent and earnesting and open for contingent and earnesting and ea		integration engaged of the moderate production production and an activity community and selected policy and a community production on patients between discognition and an activities on patients between discognition and activities on patients between discognition and activities of patients between discognition and activities and activi
Longituderal Associations with Mobility, Functioning and Plan 20150973 Robusto, 2012 Macket interacts for pain management in the ameliad wholes 2016 The Proceedings of the Plantagement Information of Line Seat Plant A sont Clinical Plantagement Disorder Association With Chronic Plan Designation of the Seat Plant A sont Clinical Plantagement Disorder Association With Chronic Plantage of Physiciation and Plantagement of Transmitted of Line Seat Plant A sont Clinical Plantagement of Transmitted of Line Seat Plant A sont Clinical Plantagement of Transmitted of Line Seat Plant A sont Clinical Plantagement of Transmitted of Line Seat Plant A sont Clinical Plantagement of Transmitted of Line Seat Plant A sont Clinical Plantagement of Transmitted of Line Seat Plantagement of Line Seat Plantage	22 Systematic Noview U 23 Systematics Noview U 24 Observational U 25 Statematics Noview U 26 Report U 27 Observational U 28 Observational U 29 Observational U 20 Observational U	United States United States	becombinating and an analysis of the community of the com	on and of the control	Y			Figure 1 to 1 t	was assessed with the Life Space Assessment in your good profession of a final principle of a second principle	entending, and open the contingent. The contingent is a second of the contingent of		integration engaged of the moderate production production and an activity community and selected policy and a community production on patients between discognition and an activities on patients between discognition and activities on patients between discognition and activities of patients between discognition and activities and activi

25462997 Man, 2015 Nonmedical Prescription Opioid Use and Use Disorders 2015 Observational United States United States 2003, 2015 United States 20	And Complete Land Control of Cont	Total Boundaries Philips Advanta Button Observations	Hart and Departure of the College and Hart Toron L. Control of the	To Aurel Account House Account	Control of the Contro
2002 2012	Usa Study Durations Main Study Objective Transitions against an advantage of the student of the	argut reposition Engoing Uniona Patient Characterracts	mt. n at dateure (n at rotow-up) int. type operate exervemon control n at dateure (n at tollow-up) operate exervemon	Nonmedical prescription opicid use and use disorders. Among adults aged 18 through 64 years, the prevalence of nonmedical use of executivities aged 18 through 64 years, the prevalence of nonmedical use of executivities aged 18 through 64 years, the prevalence of nonmedical use of executivities aged 18 through 64 years, the prevalence of nonmedical use of executivities aged 18 through 64 years, the prevalence of nonmedical use of the prevalence of the prevalence of nonmedical use of the prevalence of the preval	Ourning the 2003-0713 years, among adults aged 18 through 64 years, the precruing of normalical use of priction points for the prevailed of normalical use of priction points forcessed, in commant, the prevailedness of precruiption opioids decreased, in commant, the prevailedness of precruiption opioids decreased, in commant, the prevailedness of precruiption opioids and sold advantages of years and related mortality increased.
				prescription opioids decreased from 5.4% (69%, CL 5.60%, 5.70%) in 2000 to 4.4% (60%, CL 5.60%, 5.20%) in 2000 to 4.4% (60%, CL 5.60%, 5.20%) in 2010 doubted difference, -0.5% (60%, CL 5.60%) in 1.4% (60%, CL 5.60%) in 1.4	disorders, frequency of use, and related mortality increased.
				(275%-1.07%) in 2731 (alexaculus d'filterione. d'3%, 65% (C. 0.03%-0.45%). The 12-morth provenience de l'injectione province de l'injectione d'acceptant de l'injectione de l'injectione de l'injectione de l'injectione de l'injectione d'acceptant de l'injectione d'acceptant de l'injectione d'acceptant d'injectione (1. 1%, 65% CL. 0.01%, 65% CL. 0.01%, 46%) in 2013 (alexaculte d'inference, 0.1%, 19%, 10, CL. 0.01%, 40%) in beautiful difference (1. 1%, 19%, 10, CL. 0.01%, 40%) in beautiful d'injectione (1. 1%, 10%, 10%, 10%, 10%, 10%, 10%, 10%,	
				2013 (absolute difference, 0.1%, 95% CI, 0.01%-0.29%). Mortality assessed by drug overdose death rates involving processor original received from 6.6 see showing the control of the contr	
				by drug ownerbase clearly rates in working prescription opiosits increased from 4.6 per 1000 (100) (200, 4.42-4.91) in 200, 10.7 a per 1100 (200) (200) (2.7 c), 7.8 pin 2013 (adoptate offerentral, 3.3, 10% C, 1.0.5.41) manning abuse prescription opiosities of clearly confirmation (200, 1.0.5.42) in 2003 to 2.6 per prescription opiosities (created time 1.2 (tipe 1.0.5.42.21) in 2003 to 2.6 per prescription opiosities (created time 1.2 (tipe 1.0.5.42.21) in 2003 to 2.6 per prescription opiosities (1.0.5.42.21) in 2003 to 2.6 per prescription opiosities (1.0.5.22.21) in 2003 to 2.6 per prescription (1.0.5.22.21) in 2003 to 2.6 per prescription opiosities (1.0.5.22.21) in 2003 to 2.6 per prescript	
				(95% CI, 2.27-2.85) in 2013 (absolute difference, 0.5, 95% CI, 0.05-0.86). The model-adjusted prevalence of having prescription opioid use disorders among normalical users increased to 15.75% CI, 13.87% - 17.87% in	
				2010, 16.1% (195% C), 14.89%-17.99%) in 2011, 17.0% (195% C), 15.07%- 19.12%) in 2012, and 14.99 (195% C), 14.95%-10.95%) in 2013 from 12.7% inj5% C) 1.10.4%-14.53% in 2013. One out of fire woman from our control (27.5%) filed a prescription for an	
24785852 Deail, 2014 Increase in Prescription Opicid Use During Pregnancy Among 2014 Observational United States Medical-6-Enrolled Vilonen	To report the prevalence of prescription opioid use and evaluate the trends in a large cohort of Medicaid-enrolled pregnant women. 1.1 million women with completed pregnancies, from 46 US state the trends in a large cohort of Medicaid-enrolled pregnant women.	65		One out of fine women from our control £1 5/9; filled a pescription for an logical during imparting, the proposition revisisate from 1.65 % in £0.05 to logical during imparting, the proposition revisisate from 1.65 % in £0.05 to logical during the proposition of the control of the contro	We clearwork high and increasing results of files of prescriptions (or opicide during pregnancy among Medicaid wirender benomen. These findings call for further safety vestualized or these drugs and their effects on the developing flests in order in fortical practice.
				women who treat a prescription during pregnancy, ratinging between this this 4.5 M/s access the status. Cooleine and hydrocolone were the most commonly prescribed equicids. Among women filling at least one opicide prescription, the imedian (CRF) number of prescriptions face for all 1(1-2) and the median (CRF) median (CRF) number of prescriptions face for all 1(1-2) and the median (CRF)	effects on the developing fetus in order to inform cancel practice.
25.09.293 Massis, 2014 Opinid Abuse and Dependence during Plagnancy, Temporal 2014 Observational United States	To investigate nationwide trends in opioid abuse or dependence			meana (Len) number of prescriptions stee was 1 (1-2) and 5 meanan (Len) cumulative days of opioid variability sturing opprancy were 5 (3) days. The prevalence of opioid abuse or dependence during pregnancy increased	
254(5):293 Maeda, 2014 Opioid Abuse and Dependence during Pregnancy. Temporal 2014 Observational United States Trends and Cotestical Outcomes United States	to investigate nationwinds treinas in opinial abusis of departizance during pregnancy and assessed the impact on maternal and obstetrical outcomes in the United States.			The prevalence of optical abuse or opportunence ourning pregishery increased from 0.7% (1998) to 0.9% (2011) for an increase of 12%. Deliveries associated with maternal optical abuse or dependence compared with those willhout optical abuse or dependence were associated with an increased odds willhout optical abuse or dependence were associated with an increased odds	Open abase or dependence of dependence of dependence of the considerate of the considerat
				of maternal death during hospitalization (adjusted odds ratio [aOR], 4.6; 95% Cil. 18 to 12.1, crude incidence 0.03 ys. 0.006%), acrdiac ameral (aOR, 3.6;	preventive strategies and therapeutic interventions in prejurant women who abuse drugs are important priorities for clinicians and scientists.
				95% C.1, 1.4 to 9.1; C.0.4 vs. 0.17%), intrautering round sentration (ADR, 2.7; 95% Cl. 2.4 to 2.6; 8 vs. 2.1%), increal abruption (ADR, 2.4; 55% Cl. 2.1 to 2.6; 3.8 vs. 1.1%), length of stay more than 7 days (ADR, 2.2; 95% Cl. 2.0	
				to 2.5.3 0 vs. 1.2%; poderem took of LOR 2.1.59% (C.2.2 to 2.2.17.3 vs. 1.2.4 vs. 2.2.4 vs. 1.2.4 vs. 1.2.	
				CI, 1.1 to 1.3; 38.3 vs. 33.1%).	
25154116 Whiteman, 2014 Maternal Opicid Drug Use during Prognancy and its Impact on 2014 Observational United States Permanal Morbids, Mortality, and the Costs of Medical Care in the United States United States (Inc.).	To identify factors associated with opioid use during pregnancy and to compare perinatal morbidity, mortality, and healthcare costs between opioid users and consusers.	Pregnancy-related discharges from 1998 to 2009 using the largest publicly available all 2-payer inpatient distribuse in		depression, ansiety, and chronic medical conditions. After adjusting for confounders, opioid use was associated with increased odds of threatened	Opicid use during pregnancy is associated with adverse perinatal outcomes and increased healthcare costs.
		the United States.		preterm labor, early onced colleviery, poor fetal growth, and still birth. Users were four times as likely to have a prolonged hospital stay and were almost four times more likely to die before discharge. The mean per-hospitalization	
				cost of a woman who used opicids during pregnancy was \$5,516 (95% CI: \$5,166–86,067), compared to \$4,084 (95% CI: \$4,002–84,166) for intrasers.	
240(94542 Vazdy, 2013 Periconceptional Use of Opinids and the Risk of Neural Tube 2013 Observational United States Defects	To assess whether maternal opicid use in the periconceptional period was associated with the risk of neural tube defects in the offspring. Althors of 305 offsprings with neural tube defects in the offspring. One of the period of the pe	Data from 1988 to 2010 from the Slone Epidemiology Center Birth Defects Study, an ongoing case-control study, an ongoing case-control study,		A higher percentage of mothers of offsprings with neural tube defects (3.9%) reported using an opioid medication than mothers of offsprings in the normalformed control pour (1.6%) and disprings in the matter and mother offsprings and offsprings in the matter of the properties of of the propert	A 22 bids forcesse in milk wood translate to a more but defect provision or of 5 per of 10,000 he bids among woman who use applicts. Overall to global case in the periodic operation princip spines. The periodic operation is the periodic operation princip the periodic operation of the periodic operation princip control of the periodic bids about the periodic operation princip control operation of the periodic operation princip control operation of the periodic operation of the periodic operation operation operation operation operation of the periodic operation operatio
				reported using an opical medication than mothers of offsprings in the normalismed control group; of (%) and disprings in the animalmed control group (20%) with adjusted (ORs of 2.2 (00% to 12.2.4.2) and 19 (00% to 12.4.1) the adjusted ORs was 2.5 (50% to 12.5.3.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	appeared to be associated with a modest increased risk of neural tube defects.
21345403 Biroussard, 2011 Maternal treatment with opioid analgesics and risk for birth defects 2011 Observational United States	To examine whether maternal opicid treatment between 1 month hetero prognancy and the first trimester was associated with birth	The National Birth Defects Prevention Study (1997 terruph 2005) an oncolon		respectively. Therapeutic opinid use was reported by 2.6% of 17.449 case mothers and 2.0% of 87th control mothers. Transferent was statisficable similificantly.	Consistent with some previous investigations, our study shows an association between early represent material nicioid analysis:
	defects.	Study (1987 through 2005), an ongoing population-based case-control study.		Intelligence of the control of the c	Locinisative with require privation invaluations, to a study problem and production of the production of the measurement and creation in their contract and creation of the production of the production of production of the production of the pro
25157726 Makris, 2014 Management of Persistent Pain in the Older Patient A Clinical 2014 Review United States Believe	To describe barriers to the management of persistent pain among elder adults, summarize current management approaches			heart syndrome (DR, 24, 69% CI, 1.4 – 4.1), spike bildas (DR, 20, 69% CI, 1.3–3.0), graduschtais (DR, 12, 69% CI, 1.4 – 3.1) spike bildas (DR, 20, 69% CI, 1.3–3.1) mills. Of the 22 identified statella, 35 evaluated planmacologic interventions, whereas 57 evaluated planmacologic interventions, whereas 57 evaluated planmacologic interventions.	
	older adults, summarise current management approaches, including pharmacologic and morpharmacologic modalities; present minabilitative approaches, and highlight aspects of the patient-physician relationship has can halp be improve treatment.			1-3-2 (c) graditionation (perf. (c) gravity (c) 1-1/2 (minutes) (The 12 information studies), a signatural pharmacology minutes (signature) (The 12 information studies), a signature (signature) (to consider of order studies) with consideration. This relationship is signature supports an attemption and studies into studies to studies to studies to support and support and studies into studies to	undersombeling of the patient's training pass and expenditures, conventions, and convention and training and includes all expenditures, as well as produced and a convention of plannances(part, one) and and possible. A contraction of plannances(part, one) plannances(part, one) plannances (part, one) produced or plannances (part of produced in section), allessors demonst the patient of produced in section (part of produced in section).
	outcomes.				evaluation. A commission of parameterology, in replanameterology, in replanameterology, and in the procedure in the parameter of the parameterology, and in the parameter and physician to a serving the respective distance between the parameter and physician is estimated and parameters. It is esterology adjusted, and settlement parameters of the parameter of the parameters of the parameter
				and efficacy is critical, given that advancing age increases risk for adverse effects. A multimodal approach is strongly recommended – emphasizing a	водининд, ито почетову записи. Доман се ченафу.
				combination of both pharmacologic and nonpharmacologic relationship in include physical and occupational intabilistions a see also acquirities behavioral and movement-based interventions. An integrated pain management approach is ideally achieved by cultiviting a strong therapeutic	
25335120 Rubin, 2014 Analysis Reveals Large increase in Hospitalizations 2014 Report United States in Recent Years Among Older Patients Prescribed Opicids				management approach is ideally achieved by cullivating a strong therapeutic alliance between the older patient and the physician.	
2.5151.29 Frame. volve Polyspe reference large in tradeal in Prodystallacided in American Company (1994) and the C	To existate the changes in types of medications pessentiand for oain pre- and posterificational of cristal selection (COX2 inhibitors in 2004 and to determine if there was an association with fall events among disting selections with a diagnostic of obscentified.			The notions of fillinifications are examined in relation to language processing and the supplications are supplied to the supplication of the sup	The increased use of narcodic analgesics is associated with an increased risk of failarchress in identify salents with casonatrifies, an observation that suggests the current guisdines
Associated with increased Falls and Finatures in the Elibery Associated with increased Falls and Finatures in the Elibery provided in an integrated health provided in an int	events among elderly patients with a diagnosis of osteoarthritis.			fall patients was matched 3:1 to fall patients according to age, gender and comorbidity. COX2 inhibitor (3.3, 2.5-4.3) or NSAID (4.1, 3.7-4.5).	increased risk of tallifactures in ellipsy patients with departments of the control of the control of the control of tallifactures of the control of tallifactures and tallifactures of tallifact
nine year period (2011-9) the mispoint of which rollocools					
(Vicco) and visitorios Bleetra) were guiled from the					
2004/546 Saunders, 2010 Relationship of Opinid Use and Dosage Levels to Fractures in 2010 Observational United States Older Chronic Pain Patients	To assess whether risk of fracture increases with opioid dose among older polisher initiating sustained use of opioids for chronic risk-chronic pain. Members of an integrated health care plain (N=2.341) age 60 yea and older who received 3+ opioid prescriptions within a 90-day and older who received 3+ opioid pre	15		Time-varying measures of opicid use and average daily dose in Compared with persons not currently using opicids, opicid use was executed using a property of the appropriate way opicid use was executed using a transfer increased frontune (see 17.29 (ISE); C.10.00).	Higher doses (250 mg/day) of opinids for chronic non-cancer pain were associated with a 2,00 increase in risk of fracture confirmed
One Crotics / Bill British	non-cancer pain.			Fractures were identified from automated data and then validated first through medical record review. 11-64 (i). Higher dose opinid use (250 mg/day) was associated with a 9.95% annual fracture rate and a twofold increase in factorie risk (2.00 (95% CI (1.2.4.3.28)). The first fraction is first through medical record review.	by medical recovers. Clinicians should consider fracture risk when prescribing higher-dose opioid therapy for older adults.
21149754 Sciomon, 2010 The Comparative Safety of Opicids for Normalignant Pain in Cider 2010 Observational United States	To compare the safety of opinids commonly used for nonmalignant 6,275 subjects	Health care utilization data collected from		The coupling passions of ground as and straign daily data. Section of the coupling passions of the coupling passion of the cou	The rates of safety events among older adults using oppoids for normalignate gain way significantly by agent. Causal inference requires experimental disorption, but these results had pompt and prompt and the causal control of the causal safety of the causal safety.
	pare.	January 1, 1998, through December 31. 2005. Study participants were Mindicare beneficiaries from 2 US states who were beneficiaries from 2 US states who were new inflators of cyclic filtrary for		events, and several composite end points. 65% C.1.27-2.069 after 190 days. Compared with prococdone, after 30 days of opicid exposure the risk of fraction was significantly reduced for harmonical (SIR) of 0.010 appears the risk of fraction was significantly reduced for harmonical (SIR) of 0.010 appears the risk of fraction was fine from the compared of the compar	requires engine and requiremental begins to these results should prompt caution and further study.
		nonmalignant pain.		internation (V. 2. 7, 2.	
17341233 Spector, 2007 Resk Factors Associated with the Occurrence of Fractures in 2007 Observational United States	To determine whether resident and facility characteristics and	Residents aged 65 and older who were		INJUDICATION GAPS. INJUDICATION GAPS. IN 1900 500 of participate in a NILL of the background of the user experienced of	The findings indicate that fractures are associated with resident
U.S. Nursing Homes: Resident and Facility Characteristics and Prescription Medications	prescription medications influence the occurrence of fractures in nursing homes (NHs).	in sample NHs on January 1, 1996.		feature during their Net Sapyl). Resident risk factors included aged 55 and ideat; genited from the community, emblated spatial behaviors, and used both wheelchard and care or walker. Used of anticonvolutions, and used (point) antigogaes, ion supplements, bepringformater, instruction, and	and ballify characteristics and proceding reactions. It real/films the importance of medication review with special attention on opioid analyseics, antidepressants, and articonvulsants to reduce the risk of flexibility.
				laxatives were associated with fractures. A high certified nurse aide	
16799982 Neatergaand, 2006 Fracture risk associated with the use of morphine and opiates 2006 Observational Denmark Nationado register- based study.	To study the effect of morphine and opiates on fracture risk. Cases were all subjects with any footune sostationed during the result of the r			Visidane. When the second sec	An increased fracture risk is seen in users of morphine and opiate. The reason for this may be related to the date of this doub to central mornous system effects out and actionies.
	awagicuna population.			1.12—1.29) were all accordance with an increase an increase an increase and increas	
26141277 Proceire, 2015a Incidence and Risk Factors for Progression From Short-term to 2015 Observational United States Epocotic or Long-term Option Prescribing A Propulation-Based	To determine what proportion of a geographically defined All medical records were reviewed for a random sample of 293	Population-based drug prescription		Patterns of opicid prescribing categorized as short-term, episodic, Overall, 293 patients received 515 new opicid prescriptions in 2009. Of these,	Knowledge of the clinical characteristics associated with the
Study	oppulation who receive new opicid press' prices as to explore the chief or thought on the chief or the chief	County behavior January 1 and Observed to Great County behavior January 1 and Observed 13, 2009, were obtained using the Bronchester Fedicaminlory Project		or larg-term. 61 (21%) prospessate to an episodic prescribing pattern and of 19 (8%) processed to a long-term prescribing pattern and of 19 (8%) processed to a long-term prescribing pattern and in multivariable logistic. (processed to a long-term prescribing pattern as in multivariable logistic. (40.1)) processed to a long-term pattern and the pattern and pattern as compared with an attraction opposed prescribing pattern and compared pattern as compared with an attraction of the compared pattern and compared pattern and compared pattern as compared with an attraction of the compared pattern and compared pattern as co	progression of a short-min ban episodic or incepterm opioid gresciniting pattern could sail in the identification of a first, patients and provide the basis for developing targeted clinical interventions.
		the Rochester Epidemiology Project medical records linkages system (N/s142,377).		opioid preachting pattern. Past of current incother use IPFL03 and audateman adulated to adulate Past of current incother use IPFL03 and audateman adulated Past of the IPFL03 and incompated with an episodic or long-term prescribing pattern as compared with a short-term prescribing pattern.	
National Highway National Highway Traffic Administration Drug and Human 2016 Fact Sheet United States Traffic Sately Performance Fact Sheets: Morphine (and Heroin)	 			pathem.	
Administration, 2016 Scholar, 2012 Oourseling Patients on Side Effects and Driving 2012 Expert Opinion United States					
25697082 Centers for Disease CDC Guideline for Prescribing Opidate for Control and Chronic Pall — United States Control — Chronic Pall — Chro					
20168293 Centers for Disease Adult Use of Prescription Opinid Pain Medications — Utah. 2008 2010 Summary Article United States					
Control and Prevention, 2010					
Corted and Prevention 2019 Prevention 2019 Page 2015 Pag	So qualify that Region is furtice that August 2010 information of toose determit CrysCord Months I aux as well as the lost of aluminate contraded violates and mentaled regions goods.	MS Health National Prisocryptor Audit, a nationally reposentative source of prescriptors and/orly the ULRs to		Opposite sales were similar heldes and share the August 21/10 information. We approximately 500 GHD on early prescription. A part applies for decides in the approximately 500 GHD on early prescription. A part applies for decides in the approximately 500 GHD on early prescription. A part applies for decides in the approximately 500 GHD on early prescription.	The market count of discose deserved throughout was associated by the decision in the decision of the decision
Prevention, 2010 Page of above-determed CeyCortin on precorption operated 2015 Observational United States Value 2015 V	So country that Region is nation that Angus 2010 information of some determed CoyCorton stacked is use, as well as the use of alternative extended-release and immediate-release oppoids.	Mater Health National Project price Anald. 1 Analonally representations incurs of conduct as appointed time soldine analonal conduct as appointed time soldine analonal of the own of Conference and other of the own of Conference and other and the own of Conference and other and the own of Conference and other and the own of Conference and time the own of Conference and time and the own of Conference and time the own of Conference and the own of Conference and		Opposite state were senter before and dare the August 21/10 information. In approximately 500 GDD entirely prescription, Alex against the decision in the general controlled and approximately 500 decision in the general controlled and opposition market. It for information change was associated with a reduction of oppositionation (3,000 only-Corte and 4,000 only-Co	The makes debt of abuse determed Corporative was associated with defense in this use after accounting for the simultaneous will be abused to the control of
Previous Res (2012) Previous 2010	To qualify the disjust to sales for August 2010 information of To qualify the disjust of the sales of the sales of alternative extended-release and immediate-release operation.	With Health National Prescription Assist a nationally representative source of control at agraphical time service snaring control at agraphical time service snaring of the sear of Only Conformed the sear of Only Conformed prescription operate.		Opycloses seems were contain feedoms and after the August 2010 information. Opycloses the process of the Contain feedoms and after the August 2010 information, the contained of the Contained o	The makes debt of above determed Chyclothin was associated with defines in this case after accounting for the simulations of the control of t
Persention, 2010 Prevention, 2010 Impact of Blook-deliment CoyCorlin on precurption spiced 2015 Observational United States United States United States				statements synthetic changes absoluted with the sales of attention to extended-veloate (or -0.42 or immediate release (or -0.70 originals full tiple sensitivity analyses supported these findings and their substantive interpretation.	contraction of the general sedential enterprise and contraction market. Interestination can extract the contraction of the contraction can extract the contraction can be defined contracted to which given their proposition in special daug development.
Primeration, 2010 Primeration,				pattoricary sepreture makingles accordant with the sales of attendance standards-resident per 0-420 prim remodel resident to sales of other share standards-resident per 0-420 prim remodel resident per 100 prices standards resident per 100 prim remodel resident per 100 prices interpretation. Increases in the sale revisiblence course for all researching on codes as a class to contact the sales revisiblence course for all researching codes as a class of the sales of	contraction of the general sedential enterprise and contraction market. Interestination can extract the contraction of the contraction can extract the contraction can be defined contracted to which given their proposition in special daug development.
Primeration, 2010 Primeration,				millionizary application of manage associated with the abase of manifolizary production of management of manageme	contraction of the general sedential enterprise and contraction market. Interestination can extract the contraction of the contraction can extract the contraction can be defined contracted to which given their proposition in special daug development.
Total 2012 Prevention 2010 Separate distance of Chapter of Special Prevention Company of States and States States a	The reformulation of caycoctors hydrochronic controlled-release (CF) libration in August 2010 or created an extract experience of a large for created an extract experience of a large for created an experience opiosis and experience of the advanced opiosis and experience opio			stationary applicant of storage association of the 3 state of architecture and the state of the stationary applicant of the state of the stationary and the state of the state	Constitution of the general sedential evaluation consistent market. Interdiction is used to be the constitution of the consti
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Prevention 2010	The administration of supported in previous description description. CPU liabilities in August drift oriented a ministrat approximation of a liabilities of Application of Section 1 and Applications and providing on opportunity to entaining patterns of a liabilities of Application (Application 1) and Application (App			maintains gigitation of thoughe association and in a last or approximate proper the company of t	Incrediation of the general selected-ensistence reported in maked in meniculation used selected and contracts as visit given their populating in special register and processing and processing and processing and processing and in special registering and processing and processing and processing and fingiplescenter of a visiting prescribed register formulation towards for the above protection and processing and the selection of the above proportional service registers from the first register on coveral the processing and the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of deposits (registering opion entaigness, Additional States up above profession (separating opion entaigness).
Prevention 2010 Previous 2015	The reformulation of caycoctors hydrochronic controlled-release (CF) libration in August 2010 or created an extract experience of a large for created an extract experience of a large for created an experience opiosis and experience of the advanced opiosis and experience opio			millionium y gribanti in divigine absolutioni en el mis allas dei absolutioni en proprieta del composito proprieta del consiste del composito del consiste del c	Constitution of the general sedential evaluation consistent market. Interdiction is used to be the constitution of the consti
Prevention 2010 Previous 2015	The information of expression is protected to consider details. (COT blocks in August 2010 created in institute experiment of a shallow of COT blocks in August 2010 created in institute experiment of a shallow of COT blocks in August 2010 created in institute of protection of a distance of protections control details of LOT blocks in soft and institute of protections of the shallow determined by the control of the shallow determined by the control of the control of the shallow determined by the control of the			materials in grant and compared accordance on the sales of anotherine and accordance of the sales of anotherine accordance and the sales of anotherine accordance and accordance accordance and accordance accord	Contradiction of the general sedential-relations considerate and contradiction can be independent and contradiction for the contrad
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251323 Parago 2015 Change 2015	The individuals of improduces by principlosis controlled disease. CRO liabels in August 2010 crosses in minute operations of a season and a sept from the season and a sept from the season and a season of a season and a season of a season and a season produces of a season produces of the stude determined in pages and a 2017 furtiles during January 1, 2008 through Coverner introduction of this stude determined minuted (JACP) and a 2017 furtiles during January 1, 2008 through Coverner introduction of this stude determined the page of the season			maticularly applicated of thoughes absoluted on the 1 size of articular department of the control of the contro	Increased in the control of the general selection and control of the general selection and control of the general selection and the selection of the se
Table 12 Name 2015 The restance of the present of datase delirened Copycolists on prescription (speed and a second of the prescription of the pr	The individuals of improduce in procedure controlled research and a control of the procedure of the procedur			maticularly applicated in designed accordance on the size of architecture of the control of the	conditional of the general selection devices are compared to make a condition to the general selection and selection and compared to the condition of the general selection and the condition of the general selection and the general selection of th
Prevention, 2010 The prevention of the control of	The individuals of improduce in procedure controlled research and a control of the procedure of the procedur			maticularly applicated in designed accordance on the size of architecture of the control of the	conditional of the general selection devices are compared to make a condition to the general selection and selection and compared to the condition of the general selection and the condition of the general selection and the general selection of th
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Table 2012 Prevention 2010 Separate of Business deligned Colymorphis register of Separate Sep	The individuals of improduce in procedure or complete disease. CPU blatter is August 2010 created a manufar operation of a selection of the s			International Process of the Company	conditional of the general selection devisions or comparison market menticipation are and bright authorizems in vital given their proposition in sport and general present of a velocity present their proposition of the comparison
Total 12 Prevention 2010 The register of above delicated Corporation on prescription riginal 2019. Observational United States Section 2014 The register of Prevention of Prescription Spand Above other united States. 2014 Observational United States. Section 2014 The register of a reformation of estimated research organization of estimated research organization. 2014 Observational United States. Section 2014 The register of a reformation of estimated research organization. 2014 Observational United States. Section 2014 The register of a reformation of estimated research organization. 2014 Observational United States. 2014 Observational United States. 2015 Observational United States. 2016 Observational United States. 2017 Observational United States. 2018 Observational United States. 2018 Observational United States. 2019 Observational United States.	The individuals of improduce in procedure or complete disease. CPU blatter is August 2010 created a manufar operation of a selection of the s			International Process of the Company	condication of the general periodic per
The Processing 2010 Processing 2010 All 2012 Classify 2014 The regard of a reference of Processing Agency Annual other states of the Processing Agency Annual of the Processing Agency Annual of the Processing Agency Annual of the Processing Agency Agency Annual of the Processing Agency	This referentiation of encyclotics by protectionals consisted utilizes and the control of the control of encyclotic and the control of the control of encyclotic and the control of the co			International Process of the Company	contained on the general section of the general section of the general section and section of the general section
Testing 2015 Classify 2014 Changes in Previous of Precording Operating States after Vision States and	The individuals of improduce in procedure or complete disease. CPU blatter is August 2010 created a manufar operation of a selection of the s			materials in place of the company of	contained on the general section of the general section of the general section and section of the general section
Table 12 Communication of Communication of Personal Spring for Research Configuration of Personal Configuration of Persona	The referentiation of expectation by protections controlled related and an experiment of a protection of experiment of a protection of experiment of a protection of the prote			manufacture graduated control design and state of administration of the control o	increased in the presence destinated explanation recognition in maked in miscalization used or high characters with given their propositily in rejoicil diagnitises of the presence of the proposition of t
Testing 2015 Classify 2014 Changes in Previous of Precording Operating States after Vision States and	The referentiation of expectation by protections controlled related and an experiment of a protection of experiment of a protection of experiment of a protection of the prote			manufacture programmer according to the process of confidence of the confidence of t	increased in the presence destinated explanation recognition in maked in miscalization used or high characters with given their propositily in rejoicil diagnitises of the presence of the proposition of t
Princetion, 2010 Warrier 2015 W	The referentiation of expendition by principlosis controlled related to the control of the process of the process of the control of the contr			materials in grant process and incidence and	contaction of the general sections of the proposal section of the proposal sec
Privacefor, 2010 Service 2011 Service 2012 Service 2014 Service 2014	The extension of depositions in principles of controlled citizens (CO) blocks in August 2010 created a mutual experience of a solid of 27 solides during January 1, 2005 frough Cocarbor of about 2010 created in controlled citizens of controlled citizens of processing of the citizens of the citize			manufacture greater and control of support an	condition of the general extended-cleaner considering making and control of the general extended control of the general extend
Privacefor, 2010 Service 2011 Service 2012 Service 2014 Service 2014	The extension of depositions in principles of controlled citizens (CO) blocks in August 2010 created a mutual experience of a solid of 27 solides during January 1, 2005 frough Cocarbor of about 2010 created in controlled citizens of controlled citizens of processing of the citizens of the citize			materials and produced and an information decorated by the production of the product	condition of the general extended-cleaner considering making and control of the general extended control of the general extend
Proceedings 2010	The extension of depositions in principles of controlled citizens (CO) blocks in August 2010 created a mutual experience of a solid of 27 solides during January 1, 2005 frough Cocarbor of about 2010 created in controlled citizens of controlled citizens of processing of the citizens of the citize			materials and processors and inchange and conduction of the size of administration of the conduction o	condition of the general extended-cleaner considering making and control of the general extended control of the general extend

PMID First Autho	Title Prescribing of opioid analgesics and related mortality before and 2009 (b)	Study Type Country	Setting Blinding Int Length Total St.	Main Study Objective Main Study Objective So examine the true extent of the problem and the impact of the 3.271 deaths.	Target Population	Eligibility Criteria Patient Characteristics	Int. n at Baseline (n at Follow-up) Int. 1	Type Specific Intervention Control n at Baseline (n at follow-up) Spec	Specific Control	Outcomes Measured Results.C1 Significance	Safety and Adverse Events Additional Findings Summary
19969578 Dhalla, 2009	Prescribing of opinid analgesics and related mortality before and 2009 Ob- after the introduction of long-acting oxycodone	Observational Canada		To examine the true extent of the problem and the impact of the introduction of long-acting oxycodone. 3.271 deaths.					Оріс	Firem 1991 to 2007, annual prescriptions for opioids inneased from 498 to 991 per 1000 inhibituals. Opioid-inside dosaths doubled, from 13.7 per million in 1991 to 272 per million in 2004. Prescriptions of oxyocotone increased by 860% between 1991 and 2007. The addition of long-acting opioidone to the	Opicic-related dealth or Chatter have involved market 1991 A. agrificant profit on the increase was associated addition of long-acting opicidant portion of the increase was associated addition of long-acting opicidant or the provincial drug (Most of the dealths were deemed unificational. The first (Most of the dealths were deemed unificational. The first
										drug formularly was associated with a 5-fold increase in expodence latted monality (p < 0.01) and a 41% increase in exercision metally (p = 0.02). The manner of death was deemed unimarities only the correct in 6.02). The manner of death was deemed unimarities only the occurrent in	visits to a physician and prescriptions for opicids in the - before death suggests a missed opportunity for prevent
										54.2% and undetermined in 21.9% of cases. Use of health care services in the month before death was common; for example, of the 3096 collaints for	
										whom date on physician visits were available, 68 4% had visited a physician in the month belone death for the 1006 patients of havin inclivational below prescribing data were available, 56,1% had filled a prescription for an opioid in the month belone death.	
20091598 Noble, 2010	Long-term opioid management for chronic noncanoer pain 2010 Sy An	Systematic Review/Meta- United Sta Analysis	es	To assess safety, efficacy, and effectiveness of opioids taken long- term for CNCP.						We reviewed 26 studies with 27 treatment groups that enrolled a total of 4893 participants. Twenty five of the studies were case series or uncontrolled long- term that confinancies, the other was en RPC comparing to opinide.	Many patients discontinue long-term opioid therapy (esg opioids) due to adverse events or insufficient pain relati
										Opioids were administered orally (number of study treatments groups	opposas) oue to advante diversio of installation pain interest, weak evidence suggests that partients who are able to o opposits long-term experience clinically significant pain in (Whether quality of life or Internol
										plator-sealed as "Y-1" it." in 3-10-10, "standormally it. = 2, or 3-500, or sealer and reference are selected as "Y-1" in 3-10-10, "standormal reference are selected as "Y-10-10, "standormal 1.7.1", (Pols C. C. 4, or b. to 27 roll, y stratheses 28 roll, 1995; C. C. 4 roll, b. to 27 roll, y stratheses 28 roll, 1995; C. C. 4 roll, b. to 27 roll, y stratheses 28 roll, 1995; C. C. 1.5 roll, p. 10-10, "standormal 1.7.1", (Pols C. C. 4, roll, b. to 27 roll, y stratheses 28 roll, 1995; C. C. 4 roll, p. 10-10, 1995; C. C. 2.1", and p. 10-10, 1995; C. 2.1", and	Many minor adverse events (like nausea and headache but serious adverse events, including latrogenic opioid a were rare.
										4.0% to 28.1%]; or insufficient pain relief (oriz: 10.3% (95% CI: 7.6% to 13.9%); instalneas: 7.8% (95% CI: 3.7% to 14.8%); transparent: 5.6% (95% CI: 4.2%) or 1.6%; transparent: 5.6% (95% CI: 4.2%) or 1.6%; transparent 5.6% (95% CI: 4.2%) or 1.6%; transparent 5.6% (95% CI: 4.2%) or 1.6%; transparent 5.6%; transparen	
										participants in the studies that reported that outcome. All three modes of administration were associated with dinically significant reductions in pain, but the amount of pain relief varied among studies. Findings regarding quality	
										authinisations were associated with critically adjustant resociations in parts but the amount of pain intelligent word and more glastics. Findings regarding quality to the amount of pain intelligent word and more glastics. Findings regarding quality to the paint of	
20513829 Starrels, 2010	Systematic Review: Treatment Agreements and Urine Drug Testing 2010 Sy to Reduce Opioid Misuse in Patients With Chronic Pain	Systematic Review United Sta	es	To synthesize studies of the association of treatment agreements and urine drug testing with opicior misuse outcomes in outpatients with chronic noncarer pain.						Of 102 eligible studies, 11 met inclusion criteria; 6 were in pain clinics and 5 were in primary care settings. Four primary care studies examined	Relatively weak evidence supports the effectiveness of treatment agreements and urine drug sesting in reducing cipied misuse by patients with order. Further rese
				with chronic noncancer pain.						muticomponent strategies that included interdisciplinary support. All studies were observational and rated as poor to fair quality. In 4 studies with comparison groups, opicial missars was monostay devoiced (7% to comparison groups, opicial missars was monostay devoiced (7% to	cpicid misuse by patients with chronic pain. Further rest effective ways to mad and reduce opicid misuse is n especially in primary care settings.
										comparison groups, sporter measures was monotonery reconstruct (**) us in 23%) after treatments after on the reconstruction of the state of the state of the other 7 state (**), the proposition of patients with opport misses after the state of appearances, unless drop leasting, or stooth varieties (**) (**), (**).	
16564767 Amold, 2006	Opioid Contracts in Chronic Nonmalignant Pain Management: 2006 Re Objectives and Uncertainties	Review United Sta	es es	To examine the limited empirical evidence for the affectiveness of opioid contracts in achieving their intended objectives and identify areas of uncertainty and of emiscal concern regarding their							further debate and research is necessary to establish the objectives, elements, effectiveness, air artificial justificat opioid contrasts in circular plantice.
27366987 Coffin, 2016	Nonrandomized Intervention Study of Naloxone Coprescription for Primary Care Patients Receiving Long-Term Opicid Therapy for Balos	Observational United Sta	es 6 safety-net primary 2-year no care clinics in San interventic	implementation: To evaluate the feasibility and effect of implementing natioxone processing the processing of the proce				Providers and clinic staff were trained and	Outo	toomes were proportion of patients prescribed natioxone, opioid- 38.2% of 1985 patients receiving long-term opioids were prescribed	
	Pain		Francisco, California.	п зиоу. — ревоприят о равента ревоснова их ститие ранк				supported in nacoccine prescribing.	dose	common army proportion of posturion procurband ediscours, opcom. 30 °C of 1985 patients according to gain colorists were prescribed upon the enverying registering (CE) visits, and prescribed registering colorists represented in light contributions in colorists were included to colorists and explanation of procure and explanation of procure and explanation of procure and explanation of the e	Nationary on the congressible to in privacy one patients popular for pass. When are adverted for the properties of the p
										opioid-related ED visits per month in the 6 months after receipt of the prescription (incidence rate rate (IRR), 0.53 (ISR), 0.0.34 to 0.38), P = 0.005) and 65% fewer visits after 1 year (IRR), 0.31°(0, 1.02 to 0.64); P < 0.001)	andality deniets, such as reducing option-reasited seven
										compared with passerss who did not receive nationane. There was no net change over time in cooled dose among those who received nationare and	
23277895 Coffin, 2013	Cost-Effectiveness of Distributing Naloxone to Heroin Users for Lay Overdose Reversal 2013	Cost-effectiveness analysis United Sta	es Lifetime	To estimate the cost-effectiveness of distributing naloxone, an opioid antagonist, to heroin users for use at witnessed overdoses.	Hypothetical 21-year-old novice U.S. heroin user and more experienced users with scenario analyses.			Naloxone distribution for lay administration.	Ove	mose we do not (IRR, 1.0) (Cl., 0.9 ° to 1.27) P = 0.61). mose we do not (IRR, 1.0) (Cl., 0.9 ° to 1.27) P = 0.61). (ICER), (I	Naloxone distribution to heroin users is likely to reduce deaths and is cost-effective, even under markedly consi
					mini scanario analyses.						манитриота.
										contribution in fraction of purpose, per dear a fively fractional fractional management and contribution in an additional contribution of the contribution contribution and contribution analyses, and it was contained in the contribution of the contribution of contribution of emergency mediate aperior activation of a visual case accounter? where	
										powerfore were zerely witnessed and nationane was rately used, misimally effective, and expensive, the ICEF was \$44 000. If national dirag-sitebol expenditures were applied to heroin users, the ICER was \$2420.	
22337174 Centers for Dise Control and Prevention 2012	asse Community-Based Opioid Overdose Prevention Programs 2012 Re Providing Naloxone — United States, 2010	Report United Sta									
21668761 Albert, 2011	2a Project Lazarus: Community-Based Overdose Prevention in Rural 2011 Ob North Carolina	Observational United Sta	es	To evaluate a community-based overdose prevention program in Western North Carolina.						Professionary read-gloaded data for Visibles Country revealed that the eventions shown that are copyred from 4-65 and 500 close 100 clo	While the reacts from this commantly-based program as positionary the number of another of making of programs of positionary the number of making of programs of programs deaths in Wiles County changed during the instrumental evaluation is required to investigant the localized effects
										The second secon	evaluation is required to understand the localized effect evaluation is required to understand the localized effect intervention and its potential for replication in other area
21913619 Yokell, 2011	Opioid Overdose Prevention and Naloxone Distribution in Rhode 2011 Re	Report United Sta	85		+						
18821875 Strang, 2008	Island Overdose training and take-home naloxone for opiate users: prospective cohort study of impact on knowledge and attitudes and subsequent management of overdoses	Observational United Sta	es es	To examine the impact of training in consider management and disastence provision on the woodspall and confidence of current expelled users; and to record subsequent management of overtisess that occur during a 3-month follow-up period.						Significant improvements were seen in knowledge of risks of overdose, characteristics of overdose and appropriate autions to be taken, and in the operation of the propriate and propriate autions to be taken, and in the operation of the opera	With numbers management fairing, option dance that the osciolate appropriate actions to said the found can be a postering yield and verticate. White provision many reduces, the postering yield and verticate. White provision many reduces a public policy of which overdoors management training an public policy of which overdoors management training an
	pubsequent management of overdoses			squate users; and to record sussequent management of overdoses that occur during a 3-month follow-up period.						offinanciaristics of overciose and appropriate actions to be talken; and in confidence in the administration of nationus. A PSK bloow-up rate was achieved (1980 of 299) among whom knowledge of both the risks and physical-philasticus at classifications of consideration of control and add not of recommended and physical-philasticus at classification of control and add not of recommended the physical-philasticus and canadistration of control and add not of recommended the physical-philasticus and canadistration of control philasticus and the physical-philasticus and the philasticus and the phil	potentially fatal overdone. Wider provision may reduce of related deaths further southers should examine we postile policy of wider route some management training an examine provision of the pr
										management actions was well retained. Eighteen overdoses (either experienced or witnessed) had occurred during the 3 months between the training and the follow-up. Nationane was used on 12 occasions (a trained	provision could reduce the extent of opiate overdose fat particularly at times of recognized increased risk.
										client's own supply on 10 occasions). One death occurred in one of the six overdoses where nalloxone was not used. Where naloxone was used, all 12 resulted in successful reversal.	
25581257 Chou, 2015	The Effectiveness and Risks of Long-Term Opioid Therapy for Chronic Pain: A Systematic Review for a National Institutes of Health Pathways to Prevention Workshop	Systematic Review United Sta	es	To evaluate evidence on the effectiveness and harms of long-term (>3 months) opicid therapy for chronic pain in adults.							Evidence is insufficient to determine the effectiveness o opinid therapy for improving horinor pain and function. In supports a dock-dependent risk for serious harms.
	Health Pathways to Prevention Workstop									Not study of option it mostly with an or in plant fravoly washington for gainer (or addition). Once a more of the company development of the company of the	supports a dose-sepanden rox for serious name.
										uairrough reter aire une autorise to relater to make doctorrens, to owner families, higher doctor are associated with increased risks. Extende on the effectiveness and harms of different opioid dosting and risk mitigation strategies is limited.	
24480962 Chaparro, 2014	Opioids Compared With Placebo or Other Treatments for Chronic 2014 Sy Low Back Pain	Systematic Review/Meta- analysis Colombi	- 	To assess the effi cacy of opicids in adults with chronic low back pain (CLBP).						Efteen trials (554) natirinants) including twelve new met the criteria	There is evidence of short-term efficacy (moderate for p small for function) of opicids to treat CLBP compared wi
				, , , , , , , , , , , , , , , , , , ,						Transacid visit better than placebot for pair (\$MU. – 9.55 c.59 K. U. – 0.86 to –0.44) and function (\$MU. – 0.18 c.59 K. U. – 220 to –0.07) Compared with placebo, transidermal bupprenorphine decreased pair (\$MU. –2.47 c.59 K. U. –2.47 c.59 K. U. –2.48 to –2.45 k. u. of truckion (\$MU. –0.44 c.) 69 K. U. –2.45 to –2.58 k. or of Uniconic (\$MU. –0.44 c.) 69 K. U. –2.45 to –2.58 gray of Various (\$MU. 60 K. 0.45 k.	placebo. The effectiveness and safety of long-term opioi for treatment of CLBP remains unproven.
										spools (imparise, laydinomprione, apvicatione, crymouthness, and layeratedly, where whereir than placetory for pairs (SSU, C4, SS, SS, C4, SS, St (4, SS, SS, SS, SS, SS, SS, SS, SS, SS, S	
										— Last year California (Monta)— Lace, 1959 Last 1, -1,-2, by Last that discontrast that discontrast that discontrast that the difference with transmotol compared with calecountry for pain related. Two trials (272 participants) found no difference between opicids and arriddenessants for pain or function. Reviewed trials had love to moderate	
										quality, high drop-out rates, short duration, and limited interpretability of functional improvement. No serious adverse effects, risks (addiction	
ACRECANO Manchines W	06 Controlled substance abuse and illicit drug use in chronic pain 2006 Ob	Observational Highest Str.	es Interventional pain	To evaluate and correlate multiple variables with opicid abuse and A total of 500 consecutive patients prescribed opicids, consider	nd .					or overdose), or complications (sleep apnea, opicid-induced hyperalgesia, hypogonadism) were reported. Opicid abuse was seen in 9% of patients, with illicit drug use in 16% of	Opicid abuse and illicit drug use were common in chron
1000000	patients: An evaluation of multiple variables		management practice setting in the United	Biolt drug use. to be receiving stable doses of opicids supplemental to their interventional bethiniques were evaluated for opicid abuse and t Biol drug use.	for					patients. Significant differences were noted in the prevalence of opicid abuse in patients who developed chronic pain following motor vehicle accident(s)	patients with a prevalence of 9% and 16%, respectively, after motor vehicle accident, index-ownerst of multiple reg past history of libid roug were identified as risk took
			Souther.	MLI uting use.						and in patients presenting with pain in three regions of the body. Hick drug use (marijusan) was more common in features licit drug use was also more common in patients younger than 45, after motor vehicle injury, and in patients with involvement of three regions of the body in patients with involvement of three regions of the patients.	peak carety y or more taulig uses made a described and care more and care more taulig
25650263 Turner, 2015	Drug Overdose in a Retrospective Cohort with Non-Cancer Pain Treated with Opicids, Artidepressants, and/or Sedative-Hypnotics: Interactions with Mental Health Disorders	Observational United Sta	es	The purpose of this study was to examine interactions of filled prescriptions for opicids, hencodialogines, antidepressarris, and applicam with mental health discretion in regard to drug oventose.	Subjects were national HMO beneficiaries aged 18–64 years, enrolled at least 1				The after	a custome was the first invalidation or autoritant days custoffee. A total of 1 395 (0 97 K) subjects associated a days custoffee disciplance	Opioids and longer-duration benzodiszepines were assi with drug overdose among all subjects, but opioid risk w
	Interactions with Mental Health Disorders			zolpidem with mental health disorders in regard to drug overdose.	aged 18–84 years, enrolled at least 1 year (01/2009 to 07/2012), who filled at least two prescriptions for Schedule II or III opioids for non-cancer pain.					or the first filled opicid prescription. rate 42 1/100.000 person-years). The adjusted odds ratios (AOR) for overland the control of the con	with dup coverage and supplied to the supplied of the supplied
										versus no depression or opinid use. Longer-term antidepressants (91–180 days) were materials for engenns with depression with 27% Lower APRs for	depression.
										vertodos versus abnota term (1–30 disya) or none. Fer persons without depression, the ACRS of coverage were increased for indispersami use, but greated (ACR+1 38) for individual mase versus room. The ACRS of overtoine prediction (ACR+1 38) for individual mase versus room. The ACRS of overtoine with own 2–55 dots higher ACRS for 1–100 dispersaments.	
										with over 2.5-fold higher AORs for 91–180 days versus none.	
22213274 Franklin, 2012		Observational United Sta	es	To assess changes in opioid dosing patterns and opioid-related						Compared to before 2007, there has been a substantial decline in both the	The introduction in WA of an opioid dosing guideline app
	Impact of the Washington State Opioid Dosing Guideline			mortality in the Washington State (WA) workers' compensation system following implementation of a specific WA opticid dosing guideline in April, 2007.						MEDiday of long-acting DEA Schedule II opioids (by 27%) and the proportion of workers on dozes 120 midday NED (by 39%). There was a 50% decrease thon 2006 to 2016 in the number of calazins.	associated temporally with a deline in the mean dose of acting opicids, percent of claimants receiving point dos MED per day, and number of opicidelatated dealtre amor
21482846 Gomes, 2011	Opioid Dose and Drug-Related Mortality in Patients With 2011 Ob Normalignant Pain	Observational Canada		The objective of this study was to characterize the relationship between opioid dose and opioidrelated mortality.	A population-based nested casecontrol study of Ontario, Canada, residents aged					Among 607,156 people aged 15 to 64 years prescribed an opioid over the study period, we identified 466 eligible patients whose deaths were related to	techners. Almong patients receiving opicids for nonmalignant pain dose is strongly associated with opicist-related monatally particularly all dose is strongly associated with opicist-related monatally particularly all doses exceeding micro recommended.
					study of Ontario, Canada, residents aged 15 to 64 years who were eligible for publicly funded prescription drug coverage and had received an opicid					study priorid, we desirefied 498 eligible galanties whose deaths were related to opioids and 17-74 matched controls. After extensive multivariable subjectment, we bound that an average dealy does not 200 mg or more of memphrae (or equivalent, was associated with an early 3-50 di corrosate in the risk of opioid-	particularly at cools exceeding thresholds recommende clinical guidelines.
					from August 1, 1997, through December 31, 2006, for nonmalignant pain.					related mortality (cdost ratio (CRI, 2.88: 59% confidence interval (CI). 1.79-4.83) relative to low daily doses (20 mg of morphine, or equivalent). We found significant but attenuated consease in opioid-featated mortality with	
20183827 Dunn. 2010	Opioid Prescriptions for Chronic Pain and Overdose: A Cohort 2010 DE	Observational United Sta	es HWO	To estimate rates of opicid overdose and their association with an 9940 persons who received 3 or more opicid prescriptions with					Print	found significant but attenuate increases in cipicide desided mortality with intermediate dosses of positionis (59-90 mg) of immorphism CR, 12-5 596 C, U 1, 30-2.85; 100-190 mg) of immorphism CR, 12-0.4 (595 C, I, 1, 28-3.24), 1, 30-2.85; 100-190 mg) of immorphism CR, 20-4, 595 C, I, 1, 28-3.24, 1, 30-2.85; 100-190 mg) of immorphism CR, 20-4, 595 C, I, 1, 28-3.24, 1, 30-2.85; 100-190 mg) of immorphism CR, 20-4, 595 C, I, 1, 28-3.24, 1, 30-2.85; 100-190 mg) of immorphism CR, 20-4, 595 C, I, 1, 28-3.24, 1, 30-2.85; 100-190 mg) of immorphism CR, 20-4, 595 C, I, 1, 28-3.24, 1, 30-2.85; 100-190 mg) of immorphism CR, 20-4, 595 C, I, 1, 28-3.24, 1, 30-2.85; 100-190 mg) of immorphism CR, 20-4, 595 C, I, 28-3.24, 1, 30-2.85; 100-190 mg) of immorphism CR, 20-4, 595 C, I, 28-3.24, 1, 30-2.85; 100-190 mg) of immorphism CR, 20-4, 595 C, I, 28-3.24, 1, 30-2.85; 100-190 mg) of immorphism CR, 20-4, 595 C, I, 28-3.24, 1, 30-2.85; 100-190 mg) of immorphism CR, 20-4, 595 C, I, 28-3.24, 1, 30-2.85; 100-190 mg) of immorphism CR, 20-4, 595 C, I, 28-3.24, 1, 30-2.85; 100-190 mg) of immorphism CR, 20-4, 595 C, I, 28-3.24, 1, 30-2.85; 100-190 mg) of immorphism CR, 20-4, 595 C, I, 28-3.24, 1, 30-2.85; 100-190 mg) of immorphism CR, 20-4, 595 C, I, 28-3.24, 1, 30-2.85; 100-190 mg) of immorphism CR, 20-4, 595 C, I, 28-3.24, 1, 30-2.85; 100-190 mg) of immorphism CR, 20-4, 595 C, I, 28-3, 1, 30-2.85; 100-190 mg) of immorphism CR, 20-4, 595 C, I, 28-3, 1, 30-2.85; 100-190 mg) of immorphism CR, 20-4, 1, 30-2.85; 100-2.	Patients corelation higher doses of possibled minists at
	Study	Consult Old		localization fails of option devictors and their absolutation with all persons with receiving a secretary prescribed, long-term opioid therapy. But days for chronic noncancer pain between 1997 and 2005.					["	rancy concurrence – recommand were massed coverances. 5° specific receivance coverances	Parties receiving ingrie closes or preactical options an increased disk for overlapes, which underscores the nee supervision of these patients.
1	Opiate Pharmacology and Relief of Pain 2014 Re	Page 1								(coro C. 1, 5 to 5 to 5) and a C. 75 antimate overclose rate. Patients receiving root implied or more had an 8.9-feld increase in overclose risk (Cl. 4.0 to 19.7) and a 1.8% annual overclose rate.	
24799496 Pasternak, 2014 20070552 Vissers, 2010 19735902 Fine, 2009			nds								
19735902 Pine, 2009 15907642 Pasternak, 2005	Establishing "Best Practices" for Opcold Rotation: Conclusions 2009 Co of an Expert Panel is Molecular Biology of Opioid Analgesia A review of common methods to conviver immorphine to methadone Opioid Guidelines for the Use of Chronic Opioid Therapy in 2009 Guidelines for the Use of Chronic Opioid Therapy in 2009 Guidelines for the Use of Chronic Noncaccer Pain .	Consensus United Sta Summary Article United Sta Summary Article United Sta									
23882384 Wong, 2013 19187889 Chou, 2009b U.S. Food and D	A review of common methods to convert morphine to methadone 2013 Su Clinical Guidelinas for the Use of Chronic Opicid Therapy in 2009 Gis Chronic Noncancer Pain Drug Fentanyl Patch Can Be Deadly to Children 2013 Re	Summary Article United Sta Guideline United Sta Report United Sta	es								
U.S. Food and D Administration, 2 U.S. Food and D	Trug Fentanyl Patch Can Be Deadly to Children 2013 Re 2013 Policy FDA Reminds the Public about the Potential for Life-Threatening 2012 Re Harm from Accidental Exposure to Fentanyl Transdermal Systems	Report United Sta Report United Sta									
Administration, 2 26280092 Rutkow, 2015	2012 Harm from Accidental Exposure to Fentanyl Transdermal Systems ("Patches") Effect of Florida's Prescription Drug Monitoring Program and Pill Mill Laws on Opioid Prescribing and Use	Observational United Sta		To quantify the effect of Florida's POMP and pill mill laws on overall and high-risk opioid prescribing and use. From July 2010 through September 2012, a cohort of 2.6 million patients, 431,800 prescribers, and 2,820 pharmacies.	n				Tota	al opicid volume, mean morphine milligram equivalent (MME) From July 2010 through September 2012, a cohort of 2.6 million patients.	Florida's POMP and pill mill laws were associated with m
	Mill Laws on Opioid Prescribing and Use			overall and high-risk opioid prescribing and use. patients, 431,890 prescribers, and 2,829 pharmacies.					per t num	**Transaction, mean days' supply per transaction, and total **Table prescriptions dispensed.** **AT Josu prescriptions in Florida and Georgia, 7.7% of which were for opioids. Total monthly opioid volume, IMME per transaction, days' **Total monthly opioid volume, IMME per transaction, days'	decreases in opioid prescribing and use. Decreases we among prescribers and patients with the highest baselin prescribing and use.
										supply, and prescriptions dispensed were higher in Florida than Georgia before implementation. Florida's laws were associated with statistically significant declines in opinid volume (2.5 kg/mp. P < .05; equivalent to	
										MME per transaction (0.45 mg/mo, P < .05), without any change in days.	
										with approximately a 1-9% recrease in capital practication, 2.5% decrease in opici vidence, 65% decrease in capital practication, 2.5% decrease in opici vidence, 65% decrease in the proper parameters. Revisions were less that the capital practication of the implication of the implication of the capital practication, and the capital practication of the capital practication of the capital practication, appeared for main results.	
										and use. Sensitivity analyses, varying time windows, and enrollment criteria supported the main results.	
24990490 Johnson, 2014 22815062 Starrels, 2012	They Don't Know What They Don't Know: Internal Medicine 2012 IOb	Report United Sta Observational United Sta		To examine the relationship between resident physicians' 99 residents	Internal medicine residents in a university				2056	sessed knowledge using a 7-hem scale (UDT knowledge score). Among 99 residents, the mean UDT knowledge score was 3.0 out of 7 (SD	Daspite poor knowledge about UDT interpretation, most
	Residents' Knowledge and Confidence in Urine Drug Test Interpretation for Patients with Chronic Pain			knowledge about UDT interpretation and confidence in their ability to interpret UDT results.	health system in the Bronx, from 2010 to 2011.				and feel tests	confidence in UDT interpretation using a single statement (1 2). Although 55 (56 %) of residents list confident in their ability to interpret Confident in my ability to interpret the results of urine drug (3).	physicians felt confident in their ability to interpret UIDT in Gender differences warrant further exploration, but ever physicians who use UIDT should evaluate their processor.
											interpreting UDT results. Educational initiatives should e the complexities of UDT interpretation.
										salmens invocatiogs and confidence differed appricating by gender interaction term (Po-OTA), Auditing the large injuries of part of the automaticing of the confidence of the confidence of the confidence of the confidence OT 1 (38, 3.93), and regulating suscessed with confidence among males (ACR OT ACR S OS, to C 23A, 408).	
21083064 Reisfield, 2009	Review: "False-positive" and "false-negative" test results in clinical 2009 Re urine drug testing	Review United Sta Observational United Sta									
	urine drug testing Urine Toxicology Screening Among Chronic Pain Patients on Opioid Therapy. Frequency and Predictability of Abnormal Findings	Observational United Sta	es	To examine the incidence of abnormal urine tracicology screening among chronic pain plantine pracellade opiosits for that gain and to relate these results to patient descriptors and type, number; and once of prescribed opiosits.						Forty-five percent of the patients were found to have abnormal urine occurent. Twenty prevent were caughted as having an little statemen in that urine. Blick substances and additional drugs were found more frequently in younger patients than in older patients (P-0.001), No enther validates were found to	These results confirm past findings bit another uries to screens among pallarine prescribed opinist for the screens among pallarine prescribed opinist for the incidence of abnormal findings. Common patient descript fearmber, type, and dose of princiatibed positions were foun
17237667 Michna, 2007	Findings		95							predict abnormal urine screen results.	poor predictors of abnormal results.
			05	To determine the association between receipt of guideline- 17,044 patients initiating L10T between 2000 and 2010.	HIV-infected and uninfected patients initiating LtOT between 2000 and 2010 through the Department of Veterans				- 	Of 17 044 patients initiating LTOT between 2000 and 2010, 1048 patients (6%) died during 1 year of follow-up. Patients receiving psychotherapeutic	Providers should use caution in initiating LTOT in conjunt benzoslizespines and untreated SUDs. Patients receiving
		Review United Sta Observational United Sta	-	concordant LtOT and 1-year all-cause mortality.		I I	1				may benefit from multi-modal treatment that addresses
	Urine Drug Testing in Pain Medicine 2004 Re The Association Between Receipt of Guideline-Concordant 2016 (DE	Roview United Sta Observational United Sta		concordant LIOT and 1-year all-clause mortality.	Affairs.					0.51–0.75; P < 0.001) or physical rehabilitative therapies (HR 0.81; 95% CI 0.67–0.98; P = 0.03) had a decreased risk of all-cause mortality compared to consider the considerative production of the considerative	pain and its associated comorbidities across multiple dis
	Urine Drug Testing in Pain Medicine 2004 Re The Association Between Receipt of Guideline-Concordant 2016 (DE	Review United Sta United Sta		concordant LLOT and 1-year al-cause morality	through the Department or Veterans Affairs.					patients not receiving these services, whereas patients prescribed bergodiazenines concurrent with cities had a higher risk of mortality (HR	pain and its associated comortividites across multiple dis
	Urine Drug Testing in Pain Medicine 2004 Re The Association Between Receipt of Guideline-Concordant 2016 (DE	Review United Sta Observational United Sta		concontent tOT and 1-year at-cuase mortality a	through the Department of Veterans Affairs.					patients not receiving these services, whereas patients prescribed bergodiazenines concurrent with cities had a higher risk of mortality (HR	pain and its associants commobilishes across multiple dis
15030104 Helt. 2004 25847447 Gaither: 2018	Joine Drug Resting in Pain Medicine The Association Sentence Recognit Coloniane Connectation The Association Sentence Recognit Coloniane Connectation Joine Topics Theory, and Alf-Cases Mendify The Coloniane Coloniane Coloniane The Coloniane Coloniane Coloniane The Coloniane Coloniane The Coloniane Coloniane The Coloniane Coloniane The C			concordant tOT and 1-year at-cuase mortality."	though the Department of Veterans Affairs.					1.55 ± 0.57; P = 0.007) or physical inshibitation francisis (PH 6.25; 69% C) to partie for the color plane services, whereas the plane for the color plane for the co	pain and its associants commobilidate across multiple did
15030104 Helt. 2004 25847447 Gaither: 2018	Joine Drug Residing in Plant Modelsine (1994) (1994			Concordant LOT and 1-year al-cusus mortality." Sussesses whether risk of death increases during across of	through the Lepartment of Veterans Affairs.				Druz	poleties for of receiving those services, whereas private particularly OPE 132, 69% C. 17. 18. Fe C. 2007, Among particularly OPE 132, 69% C. 17. 18. Fe C. 2007, Among particularly Among particularly Among particular and particular season season (FMUI). These recovery ELD resurrent that also service of control of the co	pain and its associated commissibles across multiple dis
15030104 Helt 2004 25647447 Garber 2018	Joine Drug Resting in Pain Medicine The Association Sentence Recognit Coloniane Connectation The Association Sentence Recognit Coloniane Connectation Joine Topics Theory, and Alf-Cases Mendify The Coloniane Coloniane Coloniane The Coloniane Coloniane Coloniane The Coloniane Coloniane The Coloniane Coloniane The Coloniane Coloniane The C		55	concontant LOT and 1-year at-coules montality."	though the Lepartment of Vecerans Affairs.				outo	poleties for of receiving those services, whereas private particularly OPE 132, 69% C. 17. 18. Fe C. 2007, Among particularly OPE 132, 69% C. 17. 18. Fe C. 2007, Among particularly Among particularly Among particular and particular season season (FMUI). These recovery ELD resurrent that also service of control of the co	pain and its associated commissibles across multiple dis
15030104 Helt 2004 25647447 Garber 2018	Joine Drug Residing in Plant Modelsine (1994) (1994		55	concontent LOT and 1-year at-course montality. To states whether (in of death increases shoning periods of	Principle to Separation of Violence Separatio				outo	poleties for of receiving those services, whereas private particularly OPE 132, 69% C. 17. 18. Fe C. 2007, Among particularly OPE 132, 69% C. 17. 18. Fe C. 2007, Among particularly Among particularly Among particular and particular season season (FMUI). These recovery ELD resurrent that also service of control of the co	pain and its associated commodities across multiple dis
15010104 Melt, 2004 26547447 Gazther, 2016	Joine Drug Residing in Plant Modelsine (1994) (1994		55	concontent LOT and 1-year at-course montality. To states whether (in of death increases shoning periods of	through the Supplement of Violenzia				outo	position for receiving these entries, whereas plates prescribed and position for the control of	pain and its associated commissibles across multiple dis

First Author	Title	Year Study Type	Country Setting Blinding Int Length	Total Study Duration Main Study Objective	Target N	Target Population Eligibility Criteria	Patient Characteristics Int. n	at Baseline (n at Follow-up) Int. Type	Specific Intervention Control n at Baseline (n at follow-up)	Specific Control	Outcomes Measured Results CI	Significance	Safety and Adverse Events Additional Findings	Summary
Fullerton, 2014	Medication-Assisted Treatment With Methadone: Assessing the Evidence	2014 Review	United States	to examine evidence for MMT a effectiveness.							The mean valued send meditorial contributed than a cable capaci- particle of the capacity of t			MMT is associated with improved outdomes for inflandable and program women with opioid used footones. MMT should be a covered service available to all individuals.
Thomas, 2014	Evidence	2014 Review	United States	To describe BMY and reviews available research on its efficacy.							Soltens and appearing Seagrest annotated contrained trained Staff indicated as large level of soltens for large politic angle contrained contrained trained staff in Staff and staff in Staff and Martin Staff and			MET is associated with improved outcomes compared with places for inclusivation place proper more men expected use the places for inclusivation place proper more men places. BMT should be considered for inclusion as a covered benefit.
rrieri, 2006	Buprenorphine Use: The International Experience 2 The Effect of a Pover Mandated Decrease in Burgenombine Dose	2006 Report	France											
Accurso, 2016	on Aberrant Drug Teats and Treatment Retention Among Patients with Opioid Dependence	2010 Cook Versite	United States	This study reports on the defact of a change in page policy, in which the insured or a subsect of patients in an office-based particle which the insured or a subsect of patients in an office-based particle the particle of the patients	Subjects were 29° palents with opioid use disorder in a primary care practice who were prescribed buprenorphine continuously for at least 3 months.						The rail of different of one drop global among patient and operational does decrease reason for 27 % is 3 x 1 x 1 y 2 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x			An imposed bupinsorphine dose decreases was associated with an increase in abernant drug taste. Parietts in a control group with higher bupinsorphine doses had greater retention in treatment. These findings suggest that bupinsorphine doses greater than 16 mg/stay are more effective for some patients and that dose limits at this level or lower are harmful.
na, 2015	Tapering Long-term Opioid Therapy in Chronic Noncancer Pain: 2 Evidence and Recommendations for Everyday Practice	2015 Review	United States											