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Fatigue after stroke the patients perspective

Educational protocols for POSITIF, a randomized multi-point feasibility trial of short cognitive behavioral intervention. Gillespie DC, Barber M, Brady MC, Carson A, Chalder T, Chun Y, Cvoro V, Dennis M, Hackett M, Haig, House A, Lewis S, Parker R, Wee F, Wu S, Mead G. Gillespie DC, et al. Pilot Feasibility 2020 June 15, 2018 at 06.84 AM Doi: 10.1186/s40814-020-00622-0 eCollection 2020. Pilot Feasibility Stud 2020 PMID: PmC article free 32549995 Fatigue is fatigue that is not related to the enthusiasm you get and does better with relaxation. Fatigue is very common after a stroke, whether your stroke is mild or severe. There are many things you should check with your doctor and how to manage fatigue. Fatigue is a feeling of fatigue, fatigue or lack of energy. Fatigue can be taken by activity, but it can occur even if you are not particularly active. Fatigue after stroke is not better by the rest. Fatigue is very common after a stroke, with about half of the survivors experiencing it. Fatigue can affect anyone, no matter how severe or severe their rhythms are. It tends to start in the first week after a stroke, but for some it can start a month later. For most people the fatigue will improve by the time, however it is difficult to predict. Remember that fatigue can last longer than you expect, especially if you plan to return to work. The cause of fatigue, the cause of fatigue after a stroke is not clear. After a stroke, physical and mental activity may require more effort, causing fatigue. Poor sleep pain and breathing problems during sleep can also lead to fatigue while fatigue is different from depression, symptoms of depression may include feeling tired. Some medications taken after a stroke can lead to fatigue. Malnutrition can also lead to fatigue, managing fatigue is important to monitor and manage what may cause your fatigue. Talk to your doctor about your pain, sleep problems and mood. Also ask about medications and malnutrition that may be conducive to fatigue. Balancing your activity and relaxation, listening to your body and respecting the underscore. Understanding what makes things worse and when it is most likely to happen will help. Work everyday in a way that uses less energy, such as sitting down to dress up. Plan activities when you have the most energy Divide the activity into smaller tasks and stay in between. Try distributing events throughout the day or week and planning a break. You may choose to prioritize the activities and activities that matter most to you. If you are planning to return to work, try starting part-time and increasing your hours gradually, perhaps pushing through fatigue to complete your body or mind. It can help recover, however more research is needed. Understanding your body and the affecting fatigue you will help you decide on how many to push. Gently pushing is probably the best, since excessive pushing can make fatigue worse. Exercise, diet and sleep research suggest exercise may help reduce fatigue. Even if you're tired, exercise each day. Try avoiding alcohol, which is a sedative. Getting up at the same time every day and getting morning sun. Exposure to light when you first wake up helps set your body clock. If you want to take a quicker nap in the afternoon and try to keep it for 20 minutes in the evening, don't ignore the fatigue. Talk to family and friends, fatigue after a stroke is not always well understood in the community, and signs of fatigue are not always clear to others. Family and friends may not understand why you can't do things or attend events. It can help if you educate people around you about fatigue. If someone offers you help, consider getting it, rather than feeling like you have to do everything yourself. Additional health professional assistance at StrokeLine provides information, support advice and referrals. StrokeLine's helpful and confidential advice will help you manage your health better and live a good life. Call 1800 STROKE (1800 787 653) email strokeline@strokefoundation.org.au join Australia's online stroke community with video, document, facts, resources and support for stroke survivors, their families and friends. enableme.org.au Meet a Occupational Therapist: Occupational Therapists Australia 1300 682 878 www.otaus.com.au AbstractAt least half of all stroke survivors suffer from fatigue; This scientific statement provides an international perspective on the emerging evidence surrounding the prevalence, prevalence, quality of life and complex pathogens of post-stroke fatigue. Evidence for pharmacological and nonpharmacological interventions for management has been examined, as well as the effects of poststroke fatigue on both stroke survivors and caregivers. Fatigue is a common and often debilitating sequela of both ischemic stroke and bleeding. Worldwide, there are ~33 stroke survivors. 1 million people and at least half of these individuals suffer from fatigue.2 The goal of this scientific statement is to provide an international perspective on current understanding of the prevalence of quality of life. The survey of pharmacological and non-pharmacological methods of management, including the effects of PSF on both strokes. and moderators. A key analysis of published quantitative research and guidelines on fatigue after a stroke was carried out. Searchable databases include PubMed, CINAHL, MEDLINE and PsycINFO search terms, including poststroke fatigue, fatigue, chronicfatigue, fatigue, and more. Incidence, prevalence, caregiver, biomarker, ecology, intervention, patient education materials, and pharmacological interventions. Analysis related to the review of abstract titles and full-text articles related to topics with the following aggregate criteria: (1) (2) related to human subjects; Published from January 2000 to March 2016 (4) used quasi-trial, experimental, observational research or randomized clinical trials (RCT) (5) related to the subject of fatigue after ischemic stroke or bleeding; and (6) performed in any part of the ongoing stroke of care (acute hospital, inpatient rehabilitation, home care, long-term care). Additional quantitative research is identified from the reference list of publications that have found the search criteria listed above. In an overview of PSFThere, there are several ways to determine and measure fatigue. The most common definitions include: a lack of physical and mental energy perceived by a person or caregiver to interfere with normal and desired activities. 4 Feelings of exhaustion, lack of energy or fatigue, differing from sadness or weakness. Fatigue is derived from symptoms of depression, but there is no consensus among doctors or researchers in one definition of PSF when considering the definition of fatigue, many and different, estimating its incidence (first reporting fatigue associated with stroke attacks) and prevalence (the number of stroke survivors experiencing fatigue at the time. at any point) varies. Reliable reports of incidences are not present in the literature. One of the oldest studies on PSF estimated the incidence to be 75%.6 this study, however, did not provide a definition of fatigue and estimated only 44 people who were 3 to 24 months after a stroke and therefore more likely to provide better estimates of prevalence than incidence. In the comments, the prevalence estimate for the PSF range is from 23% to 77%.7-11, since different definitions and scales using meta-analysis are limited. One systematic examination of a person with a temporary ischemic attack and a small stroke. Little estimates the prevalence of psf pool to be Although there were no data on stroke severity, with >3000 subjects represented in the investigation, it can be assumed that more than a temporary ischemic attack and minor stroke, which could be one possible explanation of the wide prevalence, with >3000 subjects represented in the investigation, can be assumed to be more than a temporary ischemic attack and minor stroke, which could be one possible explanation of the wide prevalence of Lynch and colleagues.13 Establish a case definition of PSF based on interviewing stroke survivors in the initial stages and recovery. These definitions are as follows: For hospital patients: Due to stroke, patients experience fatigue, lack of energy or increased need to rest every day or almost daily, and this fatigue leads to difficulty engaging in everyday activities (for patients in this may include therapy and may include the need to terminate prior activities due to fatigue). For patients living in the community: In recent months, there have been at least 2 weeks of time when patients experience fatigue, lack of energy or increased need to rest every day or almost daily, and this fatigue leads to difficulty engaging in everyday activities.13 With this definition, the prevalence of PSF is expected to be 40% after stroke.13 PSF is associated with female and emotional distress.13In In conclusion, there is no consensus among doctors or researchers in the best definitions of PSF, consensus definitions will lead to more accurate estimates of incidence and prevalence. The effect of PSF on QOLPSF negatively affects the patient's daily activities, such as decreased participation in physical activity and rehabilitation.15 Patients with PSF were reported to have poor neurological recovery and mortality rates increased.16 Patients with PSF had difficulty returning social, familial, and professional activities4 and had a low QOL score of .16.17 The relationship between PSF and daily activities is partly mediated by associated depression or neurological deficits, even after controlling depression18 fatigue is a major health-related factor associated with QOL.17, for example, one study reported that although PSF was strongly associated with low scores in the Physical Health Composite of QOL, depression was associated with low scores in non-physical composite scores.17 Researchers, patients and caregivers at PSF are important because the effect of QOL.14,19 suggests that QOL measures are included in the ongoing PSF study. The multitude of PSFEvidence indicates that psf's causes are multi-varied. Studies have examined the interaction between demographic factors, neurological/physical deficits, comorbidities, and other factors. Medical, smoking, medication, sleep disturbance, pain, prestroke fatigue, depression and anxiety, cognitive impairment, and PSF. The study reported that PSF was associated with ages 16,20-25 and 8, and the study reported that PSF was associated with 17,19,20,25-29 females. Determining demographic contributions to the prevalence of PSF is complex because the prevalence of fatigue is higher in the elderly and women in general. It is important to note that most reported studies do not include controlled subjects (e.g. individuals of matching age and gender without stroke). The level of education is not related to PSF.14, 21,26–28,30–34 PSF It may be less common in married people (compared to single people) and in those living at home (compared to those who live in institutions).1 6, but these findings have not been widely replicated.20,21,24,30 Patients with PSF are more likely to be unemployed or more likely to change their jobs than those without PSF.14,21, but the cause and effect relationship remains unclear. Patients with PSF were less likely to return to their previous work. 21,22,29,34 physiological/physical impairments and functional deficits were a major contributor to PSF.14,16,21,35,36 patients who suffered from stroke fatigue than patients who suffered from stroke fatigue. 16,37 Temporary ischemic attacks, infarct doses and functional recovery (as defined by the Modified Rankin Scale) did not appear to predict PSF.38, but because the study generally excluded patients with strokes that led to lower levels of consciousness or severe aphasia, 14,39 were not expected to be severe. These results must be interpreted with caution. In many of these studies, at least some of PSF can be attributed to associated depression; for example, the relationship between physical disability and PSF in subacute phases disappeared after controlling the effects of depression and anxiety in the long-term 22,30 motor disorders, speech disturbances, 40,41 (severe aphasia or dysarthria), 14,16 palsy. The face, 35 and 35 weak arms are all associated with PSF, a systematic examination of the effects of a wide range of neurological deficits in PSF, however rare. Comorbidities doctors, smoking, and medications for patients who suffer from stroke have comorbid medical conditions such as high blood pressure, diabetes, heart failure, and kidney disease that may produce fatigue on their own.42–44 The influence of such diverse comorbidities on PSF has not been adequately monitored. One study reported that PSF is more common in stroke patients with high blood pressure or hypertension.40 However, this finding is not replicated in other studies.14,17,26,45–48 The relationship between diabetes and PSF was observed in 121 studies, but not in 7 other studies.45–48 14,16,26,27,45,46,48 The presence of heart disease was associated with PSF in 2 studies of 17,27, but not in 4 of the other 14,47,49,500 generally, smoking was not considered a risk factor for PSF, as reported in 3 studies.21,24,277 One study reported that 14 suggested that sudden abstinence may lead to PSF.51Medications commonly used in patients with stroke such as 27 antidepressants, 45,52 antidepressants and hypnotics17 may cause fatigue although studies do not involve medications as a major cause of PSF, 14,34,47 potential associations should not be ignored. Difficulty eating associated with cranial nerve palsy decreases poor attention and loss of appetite53-55 and malnutrition56 is common in patients with stroke. Although patients with difficulty eating poststroke often reported feelings of depression 56,57 and lack of energy, 58 people were more likely to experience depression. One study reported that patients with PSF more often had lower appetite than those without, 14 percent of whom had no appetite. Suggest possible relationships. Sleep disturbances associated with breathing disturbances (Sleep Apnea Index ≥10) In 50% to 70% of stroke patients, 59 Hypersomnia and excessive daytime sleepiness are observed in 27% of patients, 59, while insomnia occurs in 57% of patients in the early months after stroke.60 PSF was associated with sleep disturbances 21,26,31,35,50,61–63 and daytime sleepiness46,63–65 in many studies. However, these associations have not been consistently demonstrated. The role of sleep disturbances as they relate to PSF is therefore still uncertain. Two studies reported a correlation between postpartum pain and PSF.67,68, but this association was not confirmed in two other studies, 33,35 studies reported that fatigue was present in 53% of patients with central postpartum pain and in 61% of those with nasal pain and it was associated with both conditions of 66, although postpartum fatigue seemed to be more closely associated with fatigue than depression.52,96 26Prestroke FatigueSeveral studies reported a correlation between prestroke fatigue and PSF.14,16,27,31,45,70, one study reported in patients. The severity of fatigue increased after stroke and PSF was more severe than in patients without prestroke fatigue14, the study said with an inherent bias. However, due to prestroke fatigue, it is assessed in a retrospective manner. There have been reports that Prestroke fatigue is a risk factor for stroke, and patients with prestroke fatigue are more likely to have medical comorbidities than those without prestroke fatigue.14 It is possible that prestroke fatigue may, at least partially, be attributed to premorbid medical conditions that increase the risk of stroke such as diabetes or heart disease. Depression and anxiety patients with PSF often The relationship between PSF and depression is difficult to assess because many tools for assessing depression have a list about fatigue. Fatigue is one of the most powerful symptoms of high discrimination for predicting depression. Depression 22 appears to play a more important role in the long-term stage of stroke.76 Many studies report a correlation between PSF and anxiety.13,16,21,22,32,32,45,46,77 Even in those studies that found a correlation between anxiety and fatigue, association softened after controlling depression10, moreover, poor coping patterns were associated with PSF.20,79Although 21. First, PSF is more prevalent than postpartum depression, so there are patients with fatigue who are not depressed. One study found that only 38% of patients with PSF depressed for 40 seconds, pharmacological therapy for postpartum depression was ineffective in treating SF. Although it improves depression.80,81 Finally, PSF It seems to be associated with tissue injury because fatigue is more common in individuals with completely recovered infarction, while poststroke depression occurs similarly among individuals with temporary ischemic attacks and no tissue injuries, and those with inconsistencies and complete recovery39 this suggests that PSF occurs as a result. Biochemical changes precipitate from tissue injury, while depression tends to be associated with the psychological aspects of the event. Many of these studies of cognitive impairment failed to find a correlation between cognitive impairment and PSF.21,30,62,77,78. What's more, patients with severe cognitive impairment or aphasia are generally excluded in the PSF.14,37Evidence study, showing that cognitive impairment, mental impairment and difficulty in concentration may lead to decreased psf mental energy. 22 others found that processing speed was associated with mental fatigue at 3 and 6 months after 34,83,84 strokes and psf-related memory disorders at 6 months after stroke.34, so even if PSF is unlikely to be associated with general cognitive impairment. Management functions, memory, etc.) may be related to certain components (mental) of PSF in summary. Research with strict design suggests understanding more complex interactions among demographic factors, neurological/physical deficits, medical comorbidities, smoking, medications, sleep disturbances, pain, fatigue, prestroke, depression and PSF, and PSF. In a neutral manner, it is necessary to determine how these factors play into PSF. Unknown pathology of PSF pathology of PSF the factors mentioned include the excitement of the brain membrane, wound position, inflammation, immune response, and genes. Changes in the exertion capacity of the cortex and Lesion LocationLines of the inquiry suggest that PSF is a medium and not an expression of neurological disorders. Some researchers theorize that PSF may be associated with interference in the excitement of the neck membrane. One study examining patients after a stroke with the least neurological deficit85 found that PSF had been explained, in part, by a higher motor threshold measured with magnetic stimulation. It suggests that the low excitement of the whole output. Some researchers believe that disruption of key central pathways leads to perceived fatigue, although there is little data to support this view. There is little credible evidence linking PSF to 77.86 specific wound positions, some studies suggest a correlation between PSF and subcortical infarcts26,74,87,888 and infratentorial infratentorial infarcts.30,77. It appears to be associated with low excitement of corticospinal output and synaptic inputs facilitated by the cortex and subcortical.85 impaired motor control site, as assessed by the Fugl-Meyer test, seems to be the prediction of PSF.41Inflammation, immune response, and genesis role for inflammation in the genesis of PSF is relevant. Firstly, fatigue is a common symptom in patients with immunotherapy 89-93 seconds, fatigue occurs in healthy individuals who develop infections.94,95 Third, cytokine administration announced to healthy individuals leads to 96 perceived fatigue, eventually adjusting inflammation with cytokine opponents, increasing fatigue in many diseases. Most efforts to identify PSF biological markers are based on small groups of patients and have serious systemic problems. For example, interleukin (IL)-1β increased IL-1 antagonist receptors and decreased IL-9 at onset of stroke was linked to the onset of PSF.47. Other significant severity, age, or co-variance However, essentially, if fatigue is caused by cytokine, cytokine should be measured at the time of assessment of fatigue, not at the time of acute stroke. When the biomarker assessment is done in conjunction with the protein fatigue assessment, the biomarker is the same as the protein fatigue assessment. C-reactive is widely reported to be associated with PSF.103-105 These studies are relatively small, however, and large-scale studies that regulate for underlying comorbidities and stroke traits are sufficiently needed to deal with the relationship between C-reactive proteins and THE PSF the assessment of genetic contributions to PSF is relatively immune timing to PSF, and it appears that single-nucleotide polymorphisms in genes modulate inflammation are associated with PSF, specifically. PSF is associated with the C allele of IL1RN rs4251961.38 This single-nucleotide polymorphism is commonly associated with a decrease in IL-1 receptor antagonist and an increase in proinflam Matory cytokines such as IL-1β and C-reactive protein.106,107 In addition, functional polymorphisms in the gene for toll-like receptor 4 that render toll-like receptor 4 less Responsive to its ligands are associated with less PSF.38Another possible biochemical link to PSF is glutamate.108 In a small study, plasma glutamate levels in the week after minor stroke correlated with the degree Of fatigue at 6 months after stroke.109 Glutamate is an excitatory neurotransmitter that is released after stroke .110, but inflammation leads to significant changes in neurotransmitter metabolism.111–113 These data suggest that the majority of PSF causes are associated with and share the immune system.114–114–1116 biomarkers Additional measurements in the acute phase and linked to later development of fatigue include glucose 47,48 and homocysteine.48Table 1 provide a summary of biomarker research conducted to determine PSF Table 1. Summary of Biomarker research conducted to determine PSFBiomarkerBiomarker Description / Features of Blood SampleFatigue ScaleRelationship to PSFnCommentsGlutamateExcitatory Amino Acids / Neurotransmitters, Acute Stroke immunity (within 1 wk)Chalder Fatigue ScaleIncreased PSF at 6 o'clock after stroke, published only in abstract form 109IL-1βProinflamm cytokine Acute stroke (within 72 hours)FSSIncreased PSF at 6 mo after stroke45Small cohort; Inhibits acute stroke inflammation (within 72 hours) FSSDecreased PSF at 12 mo after stroke45Small cohort; 12 mo after stroke45Small cohort; d After stroke on set214 time frame early for determining the appearance of SF; 48at Acute stroke severity (stroke) Within 72 hours) Fssin CREASED SF 6 and 12MO after stroke 45small cohort; Uncontrolled for the severity of

stroke, depression⁴⁷homocysteineAmino; Higher levels associated with vascular diseaseConcomitant with PSF assessment(10-15 of after the onset of stroke)FSSincreased PSF In 10-15 d after stroke214Early time frame for determining the presence of PSF; In 3 mo after stroke28Significant only after excluding those with prestroke fatigue and mood disorders; Small sample size 103concomitant with PSF rating false association in the year after stroke 65 is part of a large study 48Vcam-1 moleculeadhesion shown on blood vessels; bind lymphocytesConcomitant with PSFFASDecrad PSF assessment in the year after stroke 40Small cohort0.04LRN1 rs4251966C allele associated with reduced production of IL-1ra and increased inflammation NAFASincreased PSF In the year after the sample size stroke39Small; In the years after the sample size stroke39Small; few patients with polymorphisms38Given, the limitations of research done to date, it is clear that no clear biomarkers have been identified for PSF. In assessing patients, there are concerns about the best tools to measure PSF patient reports, pharmacological and non-pharmacological management of PSF is complex. All instruments have been developed to measure fatigue in conditions other than stroke. Measures that include questions about general intolerance may not be correct for stroke due to weakness after stroke, generally caused by hemiparesis rather than fatigue.117Table 2 Provides a description and assessment of the reliability and accuracy of different fatigue measures and examples of studies in which these measures are applied to patients after a stroke 17,117-120 Table2 Summary of commonly used fatigue measuresMeasureDescriptionReliabiltyValiditySpecific With strokefas10-item self-rating scale for individual methods มีความรู้สึกเหนื่อยล้า Likert 5 จุดตั้งแต่ 1 (ไม่เหนื่อย) ถึง 5 (เหนื่อย) Cronbach $\alpha = 0.58-0.62$ 117ความสอดคล้องระหว่างผู้ตอบ=0.71 ($p < 0.001$). n=52117Systematic review= reported= fas= used= in= 4= studies= of= psf12fatigue= impact= scaleself-report= measure= of= the= presence= and= severity= of= fatigue= and= its= impact= on= cognitive=, physical=, and= psychosocial= functions118internal= consistency=0.93119Concurrent= sickness= impact= profiteested= in= 60= community-dwelling= patients= after= stroke118discriminative= significant= difference= between= scores= of= patients= with= ms= and= hypertensives119ss10-item= self-rating= scale= for= how= a= person= has= felt= in= the= past= week= using= a= 7-point= likert= scaleinternal= consistency=0.88-0.95119Construct= factor= analysis= using= oblique= rotation= verifiedsystematic= review= reported= fss= used= in= 24= studies= of= psf12convergent= pearson= correlation= with= maf= (r=0.74, $p < 0.001$), > <0.005), vas= f= (r=0.37, $p < 0.001$), > <0.05), and= rotnen= fatigue= scale= (r=0.03, $p < 0.001$), n=117119 มาตราการวัดความเหนื่อยล้า 36 รายการใน Form 4 รายการจะสะท้อนคะแนนเฉลี่ยสำหรับวิธีการวัดความเหนื่อยล้าในมิติ 4 wkCronbach $\alpha = 0.76-0.78$ 117ความถูกต้องConstruct =0.58 ($p < 0.001$), n=55117Tested in= 55= patients= with= stroke117fatigue= domain= from= profile= of= mood= states6-item= self-rating= scale= for= how= a= person= has= felt= in= the= past= weekcronbach= $\alpha = 0.88-0.89$ 117Construct validity=0.75;> <0.001), > <0.001), n=55117Systematic review reported use in 1 study12,117Although clinicians acknowledge the need to assess for PSF, there is no consensus on which tool to use and when to use it. A systematic review reported that the Fatigue Severity Scale was used in 24 studies of PSF (Table 2).12 The review of 24 studies revealed that when PSF was measured varied widely, but several studies provided comparison data at 3 and 6 months.12The link between PSF and depression is acknowledged in the national stroke guidelines from Scotland, which state that patients with PSF should be screened for depression, but there is no mention of exact frequency and timing.15 Lynch and colleagues13 created case definitions for PSF based on interviews with hospitalized and community-dwelling patients. These case definitions may be useful for clinicians. In review, it is suggested that clinicians use the most commonly used scale, the Fatigue Severity Scale, or the case definitions created by Lynch and colleagues13 to screen for depression when assessing for PSF. It makes sense to assess at the time of discharge from acute care and then on a regular basis such as at 3 months, 6 months, 1 year and then yearly. This will not only help with case finding but advance research and provide comparison data for these time points.12Pharmacological InterventionAs a result of the multifaceted nature of PSF, the n=55117Systematic review= reported= use= in= 1= study12,117although= clinicians= acknowledge= the= need= to= assess= for= psf=, there= is= no= consensus= on= which= tool= to= use= and= when= to= use= it=, a= systematic= review= reported= that= the= fatigue= severity= scale= has= been= used= in= 24= studies= of= psf= (table= 2),12= the= review= of= 24= studies= revealed= that= when= psf= was= measured= varied= widely=, but= several= studies= provided= comparison= data= at= 3= and= 6= months.12= the= link= between= psf= and= depression= is= acknowledged= in= the= national= stroke= guidelines= from= scotland=, which= state= that= patients= with= psf= should= be= screened= for= depression=, but= there= is= no= mention= of= exact= frequency= and= timing.15= lynch= and= colleagues13= created= case= definitions= for= psf= based= on= interviews= with= hospitalized= and= community-dwelling= patients.= these= case= definitions= may= be= useful= for= clinicians.in= review,= it= is= suggested= that= clinicians= use= the= most= commonly= used= scale,= the= fatigue= severity= scale=, or= the= case= definitions= created= by= lynch= and= colleagues13= to= screen= for= depression= when= assessing= for= psf.= it= makes= sense= to= assess= at= the= time= of= discharge= from= acute= care= and= then= on= a= regular= basis= such= as= at= 3= months,= 6= months,= and= 1= year= and= then= yearly.= this= will= not= only= help= with= case= finding= but= advance= research= and= provide= comparison= data= for= these= time= points.12= pharmacological= interventions= a= result= of= the= multifaceted= nature= of= psf=, the= n=55117Systematic review reported use in 1 study12,117Although clinicians acknowledge the need to assess for PSF, there is no consensus on which tool to use and when to use it. 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