Bibliographic Citation	Evidence Level	Study Design :	Population Inclusion	Exclusion	Patients Demographics	Outcome measures - data collection	Results	Conclusions	Study Limitations
		timing							
Am FLS, Rang CHL, Tan Y, Jong W. 4. Degradies of advected capabilities Comparison of contrast exhibitions (MFL with Comparison of contrast exhibitions) and the contrast exhibition of contrast imaging 2015; 39(6): 1061-1067.	Low	retrospective consecutive	Al patients undergoing CE MBI in registered time frame	49 partients were excluded date to the following reasons: previous history of treams (in-5) and spection (in-5), in the second second second second second inflammatory artific (in-5), calcfic trendinities (in-8), encycled (in-5), and (in-8), encycled (in-5), and inflammatory artific (in-5), and (in-1), and (in-1), and (in-1), trendinities (in-1), and (in-1), protocol for evaluation of thousder internal drangements (in-4).	Si AC patterbasers comprised of 21 Am and 34 words with manage of 33, years (ange 23 Ay was), whereas the 35 control of the second second second second second and and an ange of 32, years (ange 22 Ay was). There were no significant differences between the two propuse in terms of a sect second second pathelargies (whether based on physicisms ordering C1 MR for the shoulder)	The paper specifically focuse on some of the law provide structure such as 72 and $r_{\rm eff}$	with regret for a saftary port capacity bill chance, a clarff studie of 2.0 mm provided the hispheric securities y ad execution; y adsociation (1-0.50) in measuring the port capacity bill chances. T a signal internetly and contrast enhancement of the autility port capacity were hisplific in the measuring the port capacity bill bill chances. T a signal internetly and contrast enhancement of the autility port capacity were hisplific in the execution of the port capacity bill bill bill bill bill bill bill bil	To the knowledge, this is the scale report to compare the diagnost performance and document to the spectra performance and document to the spectra of the scale of the resonance of the scale of the scale of the scale of the scale of the scale of the	Stictch bias and its intrespective decign are the major institution of this study. These are neuroscied approximation of the sector was derived from the expertise of a regive emotion of the sector of a regive emotion of the sector of the sector of the sector of the sector of a regive emotion of the sector
Ahn K-S, Kang CH, Oh Y-W, Jeong W-K. Correlation between magnetic resonance	Low	retrospective	n all patients with presumed diagnosis of adhesive capsulitis that were evaluated by the orthopedic	Exclusion criteria included previous shoulder surgery; another condition	50 women and 47 men. Subjects' age ranged from 34 to 72 years, with a mean age of 56.	Joint capsule (thickness and contrast enhancement), rotator interval abnormality	Thickening of the axillary pouch ranged from 5.0 to 15.9 mm, with an average of 8.8 mm; There was a statistically significant negative linear correlation between external rotation in shoulder ROM and thickness of the joint capsule measured on MRI, but there was no	Findings on MRI aimed at defining the status of the joint capsule with regards to its structural	The main limitation of this study was potential for significant selection bias. In the study, authors examined structural abnormalities determined by MRI images of the shoulder
maging and clinical impairment in patients with adheuic equations. Safettal Radiol 2012, 41(10):1301-1306.		LuiseLuive	unggen department, boulder Mill seam were performed as a compared in factor and instant were performed as a comparison of notified the following instance notifies. Joint of adhesive could in instance notifies. Joint of adhesive could be part of them commend for adhesive could be internet of them commend of the seam of elevation, instant rations in 6 degrees of admonstration of the seam of the seam of elevation, instant rations in a degrees of admonstration of the seam of the seam of elevation, and the seam of the seam of elevation, and the seam of the seam of the elevation and the seam of the seam of the elevation and the seam of the seam of the elevation of the seam of the seam of the elevation of the seam of the seam of the elevation of the seam of the seam of the seam of the seam of the seam of the seam of the seam of the with diabetes mellities were accepted.	affesting the shoulder (e.g., rhomstold anthrins, obtactivity, sobastrati shoulder trauma, or HII Sach ission); nauroage defins affesting shoulder manage affesting shoulder instanza and physical examination indicating a cattor caff tear a demonstrated on MBL	There were \$1 donitions and 4 is non-dominant involved shulders. They be patients had a more based shulders. They patients had a more parameters in the donkingment of the severe regression in the donkingment of measures in patients are shown on Table 2. The time introval between physical 2 fast time introval between physical 2 fast, with a mean delay of 9.5 days.	regnal absormability in the subcroaced relation for rotatos curil participants, separation that suprangino terms and the suprangino set of the supranging	care controllation between thickness of the joint capacie and initiation is forward between to interval initiations. The joint capacie in an invest and then download and an and statistical processing of the state	indigrap are correlated with loans of the clinical impairment measures in patterns with advacue capatilist. Thickening and gasholism environment of the pattern to capatile in the advacue environment of the pattern to capatile in the advacue environment of the pattern of the pattern of the environment of the pattern of the pattern of the pattern of the pattern of the pattern of the pattern of the environment of the pattern of the pattern of the pattern of the pattern of the pattern of the pattern of the pattern of the pattern of the pattern of the pattern of the pattern of the environment of the pattern of the pattern of the pattern of the environment of the pattern of the pattern of the pattern of the pattern of the pattern of the environment of the pattern of the pattern of the pattern of the pattern of the environment of the pattern of the environment of the pattern of th	and the association between these advocmatities and chiracit forsure in a large, but continues during products. The study population was primarily contained based on data derived from patients with adhevine capavities undergrape. Will at a tricitary refrant to the study of the found in a more diverse gathers regulation. Adheving instances are used as gath standed datapoints (at a study of the study of the study of the found in a more diverse gathers regulation. Adheving instances are capavities based on patient history and parket associations. However, the referring discuss, based on patient history and parket associations. However, the referring discuss, based on patients history and parket associations. However, the referring discuss, parkets on the based on the clicical agates, at a dark the study association of hill static clicical clicical agates, at a dark the study association of a remain meaningful because it is the first lowership to directly corrected MII findings indicative of adhevine quality, but the detail of the clicical features.
Cortes A. Quirlan RU, Nazal Mer et al. A wilden based care analysis of magnetic resonance imaging in patients with Stagecarder datase of translosation y and management. J Soulder Elbow Surg. 2019; 28(11):2135-2160.	tew	prospective consecutive	age 11 years or older, chel comparis of shoulder pain (located in antervitarial shoulder, workneid by overhad activities, nighting hand, alde to tolera (hysical acuministanti, nighting hand), alde to tolera (hysical acuministanti and correnge) or tolera (hysical acuministanti and correnge) or tolera (hysical acuministanti in noticales) point space narrowing and on significant ottolego/hysical, and oc call at thospithy (well centered hasis with no superior migration).	Previous/diagnosed RC based on ML, prior shador uragen, physical insability to biorate physical examination, implemente Mill incompatible device, physical examination and the shadow of the shadow of the excluded relationation and the shadow of the excluded relationation through for the current epinode of shadow pain.	A total of 13 patients were included in this divid, 33 were mile (CAT) and 13 were formed (EA3). The average agree with 51.1 v/- 113 years. The barding patient 43.5 v/- 113 years. The barding patient 43.6 v/- and patients. The average data from presentation. The average time from presentation. The With/MA was 10.4 v/-11.8 dop.	The primary outcome measure of this study were supportsion to sugger, All patients were supportsion to sugger, All patients and on chinal fulling and complete subsets of the support of the support of the support of the support read by both a macculoaldetal support of the support of the support read by both a macculoaldetal support of the support of the support read by both a macculoaldetal support of the support of the support read by both a macculoaldetal support of the support of the support read by both a macculoaldetal support of the support read by a support of the support of the support of the support of the support of the support of the support of the support hereage, relation of the support of the support obtained from the medical record. Support of the support of the	Of the clore, 44 (POZ.74) patients do reg on to surgical intervention, whereas 3 (3.284) patients did at an average BBJ days after langing. These results argues PL and version 2206 patients (46 of 51) had premature MBL posing an unnecessary economic burden of 5331,619 in advanced imaging charges.	The use of MMI before a trial of conservative management in platent with atruanula: shoulder pair, minimal to os strepelt defots on physical examinations, and suspected call on physical examinations, and suspected call provides regardly walks in the management of here patients, at both the individual and population level.	Init, the took was performed at the specialized can of a spectrometric clinic, of a single, large training health. This could lake only none homogeneous on heplera auity sample population, due to referral patterns arguing of patterns as they head and head the second second lake the spectra of the second lake only and/or table of the second lake the spectra of the second lake of the second lake of the second lake on the spectra of the second lake of the second lake on the spectra of spectra of the second lake on the spectra of spectra of the second lake on the spectra of spectra of the spectra of the spectra of the spectra of the spectra of the spectra of spectra of the spectra of the spectra of spectra of spec
On Matesomer M, Bould C, Poulut N, ett. J. Accentance of two long hand of the bacegos tended of the shoulder with 11 magnetic resonance attractography and CT anthrography. Eur J Radiol. 2012;31(5):934- 9.	Low	prospective non- consecutive	veteran for CT or MB ambringingshy otherwise not defined	fre patients with metallic implants creating sever artifacts were excluded.	here were 21 mm and fill women in the mody prove. The most gain well the water day prove, the maximum gain well the water day prove the most gain well the provide the start of the start	diagnostic accuracy, sensibility and specificity, kappa	The pode security for kinot detection for C1 arthrography uss 31% and the specificity 35%. The podel security for MI anthrography uss 37% and the specificity 54%. There are no additionally significant differences between C1 and ML is introducence agreement calculated with the lappa statistic use poor for C1 and for ML. Both C1 arthrography and MI arthrography perform poorly in the detection of bicspt toxing pathology of the shoulder.	The authors found no statistically regularized, difference between 4 and Mat strategraphysic for diagnosis of tenden abnormalities. Soft techniques could be used for the evaluation of the bicegs tendon, although there is a low sensitivity and a high specificity	Initiations of the study include the study large true Studies would have to be endermost with large discuss to draw used of cardication. There were shall differences in the CT and MIP protocols between patients but be autors doubt the may be influenced the results. The submrt shall be point the stoges random the true of a low sensitivity and high, specificity, was eviden for all absormables, no the true of a low sensitivity and high, specificity, was eviden for all absormables and the store of a low sensitivity and high, specificity, was eviden for all absormables to use for the other of a low sensitivity and high, specificity, was eviden for all absormables to use finding may not be evident using this technique. Avoither limitation is the use of proton density and 17 sequipher dimension.
Feti G, Mantoani W, Catana M, et al. Evaluation of gleodi labril tastri: Comparison between dual-energy CT arthrography and MB arthrography of the shoulder. Radiol Med. 125(1):39-47.	moderate	prospective consecutive	patients who underwent DC-CTA and MRA the same day (mean interval 30 min) were included.	Seven patients were excluded becaue of the lack of BCCF ARI studies (n = 2,) lack of surgical confirmation (n = 4), or incomplete MRI protocol (n = 1).	A total of 47 patients (28 males, 19 females; means age of 34 2 years, range 31-60 years) were included.	Diagnostic accuracy values were calculated by uning suggery as standard of reference. Interobserver and intra-observer agreements were calculated with k statistics. A value of $p < 0.05$ was considered statistically significant.	Surgary revealed the presence of laborat trass in 30.47 patients (80.29%). Sensitivity and specificity values in disposing laborat trass were 84.25% of 70.4% (50.4% Cold 201, 34.2 × and 72.5%) for CTA (Rest 21, 34.2 × and 8.8 %) for CTA (Rest 21, 34.2 × and 8.9 %) for CTA (Rest 21, 34.2 × and 8.9 %) for CTA (Rest 21, 34.2 × 34.2	DE-CTA and MRA were not different in terms of diagnostic performance.	of label tera and subsequently received surgery, possibly introducing a selection bias with respect to partice possibles. Interference, the surgeous were assessed MBI finding, DHI shard leastons were statistically analysed. A qualitative assessment of detailed analysis of advances and the selection of the selection of the selection details of advances and the selection of the detailed analysis of advances and the detailed analysis of advances and an excession. And one manger findings including laws thankst and HBI-decise lasions and anticular cartilage defects and an excession and a selection of the detailed analysis of advances and an excession. And the advances is now study population.
Hoenecke HR, Jr., Hermida JC, Flores- Hernandez C, et al. Accuracy of CT-based measurements of glenoid version for total shoulder arthroplasty. J Shoulder Elbow Surg. 2010;19(2):166-71.	low	prospective consecutive	patients with osteoarthritis scheduled for total shoulder arthroplasty.		The mean patient age was 75 years (range, 56- 90 years). There were 11 males and 22 females.	Glenoid version and maximum wear of glenoid articular surface; inter-observer error tested.	In this clored of patients, the true version (as measured on DLC ("reconstruction) years mean 8.8. degrees (+) 4.9. degrees (-) the average activation error in the version measured on the DCI clore passing (hower the top of the concision of maximum year). In 8.8 were degrees, P. 4001. When the high-resolution 3D CT reconstructions were analyzed, the location of maximum wear in artificing denoids are most commonly possitorifier (1) Biot In the patient's method and the patient's inferior position (B c'local). This maximum wear was detected accurately in only 45% of cases in the directal 3D axial CT allces.	Moderate difference between 20 and 30. The maximum wear was detected accurately in only difference of the control of the state of the assessments of glenoid version. We cannot, however, recommend a CT scan in each case, because we have yet to collect evidence in the form of better clinical outcomes.	Under if progradmine er retrogenter, suggest progentier review was not blinded incorporation reference studied is 10 CT - constraints and reference and the same no inter-rater reliability no post operable outcome measures, direct or indirect.
Smark SC Walker MJ, Smargij PP, bu MBA an interestary reparation in the smarghment of a clinically unstable blockford A comparison of MTA and anthroscope findings in 90 patients. Acta Orthop 2012; 83(3): 267-270.	Low	retrospective consecutive	All patients undergoing anthroncopic reteriors stabilization surgery over a 3-year period.	none stated	At men. 12 annexe. Maken legt was 22 / Farege 13 - Shy gears. All methods that history of transmits anthrier shoulder dislocation with presistent symptoms of installing. At land dislocated twice or less, 47 had dislocated more than twice, and in had a taktory of persistent sublaution. At clinical assimutation, apprehension lass, Thray all had a prosperative MAC, this was thought to help in surgical planning.	MRA diagnosis, surgical diagnosis	In of the 90 optimets the 3 glored blowm tisse identified are arthroncopy. These were all described as barge solutantial blow languages by with available of the superior ameteric from blowm consistent with a Stark Line (since, with a value) of the prastrum is thus, and with available of the superior ameteric to posterior laborum consistent with a Stark Line (Stark). The superior ameter is the superior ameter of the prastrum is thus, and with available data with starger of anterior regulation lines, the bar superior and the superior ameter of the superior the superior ameter of the superior ameter of the superior these superiors the superior the superior the sup	One findings highlight the importance of an accurate history and finical estimation to indicate estimation the management of glowodrumeral instability. The management of glowodrumeral instability. The management of the set bigh as is currently believed.	Although the study has a similar sample size to those reporting previous), at his several solutionnings that can be altered de bet erestropaction ratios of the lardy design. All the arthreacogene were preformed by a specialiti budder surgeon, but the surgeone size of the arthreacogene were preformed by a specialiti budder surgeon, but the surgeone size of the arthreacogene were preformed by a speciality budder surgeon, but the surgeone size of the arthreacogene were preformed by a speciality budder surgeon, but the surgeone size of the structure of the structure based on the structure surgeone size of the structure size of the structure is a standard hospital.

Will EL, Chin JA, Lee EL, Ohi M, Subcapularis (SC), tendon tares: Liganosite parformance and reliability of magnetic resonance and reliability of magnetic resonance and reliability of magnetic resonance correlation and comparison with clinical tarts. Seletella Radid. 2021; 50(8):1647- 1655.	low	retrospective consecutive	patients who underward clinical tests and underward arthrococopic surgery within 90 days of the MOR.	Of 348 patients, we excluded 276 due to the following reason: 313 with MR technical causes, sch as nontadardeed protoco (n = 38), poor image quality (n = 34), and excessive contrast tackage from the joint (n = 3), 80 with previous SSC tendors surger (n = 53), and an interval of more than 90 days between MRA and arthrocogy (n = 23), condening tha 3 month conservative treatment and observation period.	A Katal of 222 patients (107 males and 185 manu, 53 Array Kars), The median time between Joint of an thermospy one 47.7 days (1-88 days).	Dagnotic performance was determined uing arthrocopy aged standert and compared with results of four clinical tests. Here: and inter-downer ineliabilities of the reviewers were evaluated using tappa statistics.	For full thickness tears, mean values of sampting, specificity, and accurscy of reviewer 2 were 72. T/D// 213, 923, 923, 924, 924, 924, 924, 944, 945, 936, regimently, For partial thickness tears, mean value of sampting, specificity, and accurscy were 72.284/72.484, 72.334, 92.484, 943, 944, 945, 944, 944, 944, 944, 944, 944	MRA showed high diagnostic reformance for the diagnosis of S24 tendos hars, especially full theiness team, with good intere and intra- duction of the second state of the level of experience of the reviewer.	First, the was a retrospective study, which may include a settedno base. Second, although anthrocopy averal as intervence studied; this tick owe limitation, expecting the inform appendix and the location of the SIC includes, which may have caused and the studied of the studies of the studies of the studies of the studies according to location bases the mathemist in a long may avoid become too small for statistical analysis. Fourth, the time interval between preparative MMA and arthrocopy and MMC. BioSC team may have progression of became too small for statistical analysis. Fourth, the time interval between preparative MMA and arthrocopy of MMC. BotSC team may have progression of beam partially instead during the time and MMC. BotSC team may have progression of beam partially instead during the time and statistical beam of the statistical according to the dialogies, such as overlapping clinical histories and authors: did not want to make incorrect assumptions.
Lee H, Ahn, MA, Kang Y, et al Evaluation of the subscapularity tendon tears on 31 magnetic resonance arthrography: Comparison of dignostic performance of T1-weighted spectral prostaturation with inversion recovery and T2-weighted turbo spin echo sequences. Korean J Radiol. 2018; 3/9(2):320-327.	low	retrospective consecutive	Patients who had undergene MAA within 3 months between April and December 2015.	Patients who had not performed subsequent athroaccopy within 3 months, patients without detailed attroaccopic results of 35C tendon, patients who had previously undergone inhubit rungery, patients younger than 16 years of age.	A total of 120 patients were included in the toty/(mean egs, C-7) vers; gar erange, 36-81 year; 50 mean and 70 women). The mean interval between MRI and arthroscopic surgery wai 31 days (range, 1-84 days).	T1 SPR and T2 TSL images in separate sessions for the integrity of the SSC tendor, examining normal/articular surface partial- thichness tear ("TTL-TJ_Mith-Thickness tear (TTL). Tagenostic performance of T1 SPR and T2 TSL was calculated with anthroscopic and T2 TSL second scalar service and the thickness compared using the McHemar test. Interobserver agreement was measured with kappa («) statistics.	There were 74 SIC tendor tears (LB PTT) and LB TT] confirmed by arthrocopy. Specificant differences were found in the seculety, and coursor between 19 MB of TT LB could be Michaen test, with respective rates (45 – 54 – 540 × 16 – 57. Xm of 0.9 – 9.1 × 17. – 7.2 – 7.2 × 18.5 – 7.2 × 18.5 – 7.2 × 18.5 – 7.2 × 18.5 – 7.2 × 18.5 – 7.2 × 18.5 – 7.2 × 19.5 –	T1-weighed spectral prestrutation with inversion recovery sequences is more sensitive and accurate compared to 12 TSE in detecting SSC tendon tear on 3T MRA.	Stady was performed in the pattern who had undergone attractory, certator cell regul- s population expected has an attelvely high pervalence of high pactor onbors cell tars. Concealed interstatis item and turnal-unface interseven not includent in this study, as the reference method of arthroscopy could not provide the information regarding there types of SSC tenden harmonic allogening the square diagonal performance of AMB and an automational looping memory performance of AMB and an automational looping memory memory performance of AMB and an automational looping memory AMB as an attrively search and the attractory allogening and suppression, our results of the T1 STE de not represent the true diagnostic accuracy of 31 MBL
ise AI, Yoo YC, Ling JY, Yoo JZ, Roteite caff tears noncontrol MR (compared to AM arthrography, Saideat Radol. 2015;4(12):176:54	Low	retropective cosecutive	patients who underware arthrocorgic support and executions till to inderect M arthrography evaluation for shoulder disconflort, between March 2011 and September 2013.	Interval between MR and arthroxopy 302 days, history of previous surgery on ipushateral shoulder, newtoin surgery for infection	Group A use comprised of 46 mm (age rungs, 22 de) versum mean gas 55 k years) and 55 k wennen lager rangs, 73 r 44 years (mma age, 14 mm (age rangs, 77 r 44 years), mean age, 33 de years) and 123 women (age rangs, 21 - 77 years), mean age, 61 years), the mean minumal beams in Mit assimilation and an 4 (mgrago, 92 r 43 years). The mean minumal beams in Mit assimilation and an 4 (mgrago, 92 r 43 years), the mean minumal beams in Mit assimilation and an 4 (mgrago, 92 r 43 years), the mean and the state of the state of the state of the graps (12 mgrago, 92 a) adays). Primary patient complicities were shown, showling an welf or without in motion weaklens.	Mit Gagnosi, Kinka dagnosi, segral diagnosi, tandon tar severin, tendon location	In comparison with group E patients in the group A had higher providence of them is 50% of tendos (p-0.021). The providence of the functiones 50% of tendos in terms value in bight in group A (50% h) them providence of 4 4 5%, however, fifternee between groups were not statistically significant (p-0.05%). There was no significant differences in providence of a partial rhickness of 50% of tendos tras. SSE 50% of	In conclusion, Indirect MR arthrography was not superior to monocata MII for the displaciat of 30%-PR endors have, engineering for a displaciate of 30%-PR endors have, engineering for a displacing articular sectors partial fibtrates tans, Norwey, Improved sccuracy may be expected for prespective displaciat and fibtrate grading SSC tendent tans using indirect MR entroprise).	There were serveral innerations of the tady, Frich, the Mit ingens were analysed resourcedure) this into an endomesia dudy, and the surgeow was onlicited to the MBI fielding. Secondri, direct comparison between the two technologies in the same patient fielding. Secondri, direct comparison between the two technologies in the same patient profiles and the secondrift and the secondrift and the second of the sterilized and an analysis of patient profiles. The second is the sterilized and an analysis of patient profiles and the number and tage base second and the second is and analysis to sterilized and the second of the sterilized, are listed of an analysis and the second of the sterilized and analysis of the sterilized and the second of the sterilized of the sterilized and the second of the sterilized of the sterilized and the sterilized and the second of the sterilized of the sterilized and the sterilized and the sterilized and the storage and the sterilized of the sterilized and the sterilized and the storage and the sterilized and the storage and sterilized and the storage and sterilized and the storage and sterilized and the storage and storage were compared and the storage and and the storage and the storage and storage were compared and the storage and storage and the storage and storage were compared and the storage and storage and the storage and storage and storage and the storage and storage and the storage and storage and the storage the storage the storage the storage the storage that the storage and the storage storage storage and the storage stora
Omoumi P, Rubini A, Dubuc JE, Vande Berg, BC, Lecouvet FE: Diagnostic performance of CCT-arthrography and 1.51 MR-arthrography for the assessment of glenohumeral joint cartilage: A comparative study with arthroscopic correlation. European Radiology 2015; 25(4):961-969.	f Y	prospective consecutive	all consecutive patients who presented with chronic thouder pain of voulder installing requiring an arthroscogic treatment, based on clinical and imaging findings, addrograph, ultrasound and/or conventional MRI had been obtained in all patients.	The exclusion criteria were the presence of severe shoulder osteoarthritis (Kellgren Lawrence 3 or 4) or history of previous shoulder surgery.	Fifty-tic consecutive patients (mean age istandard deviation, 46 ±15 years; range, 16 71 years; 32 men) rotator cuff tendinosis 59% of patients (m=3), rotator cuff tendinosis in 18 % of patients (m=3), rotator cuff calcifications in 14 % of patients (m=8) and laborlogamentous instability lesions in 29 % of patients (m=16) (more than one diagnosis per patient was possible).	Sentitivity, specificity, accuracy- of CTA and MRA in detecting both grade 22 and grade 4 tears of all cartilage, glenoidal cartilage areas and humeral head cartilage areas, interobserver agreement, intraobserver agreement	1) When considening all caretage laces with adutance loss (grade 32), degrades performance of CA was trattatically upfiltcarily better has MAR for both modes, and doth bytecoid and human all areas (grade) 32). Both Considening grade 4 careful laces in only, degrades performance of CA was before than MAR for all comparisons, but only reached statistical significance for the evaluation of all aduptions, performance of CA was before than MAR for all comparisons, but only reached statistical significance for the evaluation of all aduptions performance of CA (was before than MAR for all comparisons, but only reached statistical significance for the evaluation of all almost performance of CA (wob 03) and MAR (wob 83 047).	In conclusion, this prospective study comparing CTA and MRA in the same patients with arthroscopic correlation showed that the diagnostic performance in detecting glenohumeral cartilage lesions was moderate with both techniques, silthough statistically significantly better with CTA.	Our study has some initiations. This, is used compensioning patient care, the ordivalatic surgery as a work of the finding of properation lenging is to study as the cost topological patient in the careful patients. Second, the automoute of the catalous any catalows: careful weak too have the advances of deversioning the initiations to a the accurate correlation of the topography of cartilage lesions. However, the patient patiention models during a patient patient to the study of the general patiention models are any patient providences traverses the funding of the general patients of the study and the study of cartilage lesions. However, the patient patients on the date and patients in more proteomistics study of the general patients of the study and the study of cartilage lesions. However, the patient patients of the study and patients are generally institute to advance patients.
Pessis E, Mihoubi F, Feydy A, et al. Usefulness of intravenous contrast- enhanced MR for diagnostic of adhesive capsulitis. Eur Radiol. 2020; 30(11):5981- 5991.	low	retrospective consecutive	patients with a clinical diagnosis of AC who underwent MRI of the shoulder with IV injection of a galdinium-based contrast and diagnostic and therapeutic arthrography	record, incomplete MRI protocol, or lack of arthrography	total of 42 patients in the AC group (mean age 53.1; age range 35-68; 69% women) and 42 patients in the control group (mean age 50.6; age range 18-82; 54.8% women)	Reliability and performance of MRI findings were compared between N contrast-enhanced measures and non- enhanced MRI measures in T2-weighted fras- staurated and T2-weighted mages. MRI findings were correlated with clinical stage, etiology, and pain.	Sensibility (27:61) and specificity (77:61) of aditory-recess capave signal inhancement for AC diagons) were significantly support of p- diagons by the sensibility of the sensibility of the sensibility (95.55, specificity 92.57). Mossives of the intenting signal of the area of the rotator internal were lies performant for AC diagons but coald be improved with joint capave enhancement. Norcence, we load were judge paceful; (20:00) of enhancement of the coarcolumental ignament granal for AC diagons. The early stage of adhesive capaulistic was positively coarcillated with joint capave enhancement in the rotator interval. Secondary etiology of capaulis was correlated with joint capave hyperimetrally signals of the rotator interval on 72 weighted fae-suppressed images.	W contrast injection with MRI can be helpful for AC diagnosis in difficult cases. The stage of AC seems related to joint capsule enhancement in the rotator interval.	
Raymond AC, McCann PA, Sarragi PP. Magnetic resonance scanning va sullary radiography in the assessment of glenoth version for otherwithmic. Journal of Shoulder and Elbow Sargery 2013; 22(8): 50% 1083.	Low	retrospective consecutive	Inclusion oritenta was a diagnosis of end-stage gierohumeral osteoarthritis.	Exclude aver patients who had previous using what would are the nationary of the glenoid, tuch as an open abalitation with bome lock, or those whole images could not be accurately assessed because the quality was too poor	There were 26 women and 12 men who were a men age of 68 years (ange, 44 ke years) at the initial assessment. There were 39 right builden and 29 ker Stoulders. Primary glocolumnard deteenthritis was the pathology in al shoulders.	morphology	The mean endrowersion measured on ARX was significantly grader than that measured on MIR, with the mean end difference of gleorid sections of 7.36 degree (P. 602), whereas the interdisencer and interdisencer relativities for MIR was greater than that ARX. The largest difference between MII and AXX of the same shoulder was -13 degrees. Gleorid retroversion was greater compared with MII in 23% of AXXs.	This study confirms that ARIs should be interpreted with calcion when assessing the pattern and extent of posterior glenoid wear bi- to consorthism. The authors suggest their the plan concorrision is a study of the plan properties templating in isolation but concels that they proved an assay accessible and ecconsults technique for exolutions gives the audigenetic purposes. MRI represents a precise and accessite technique for exolutions (in any, without exposure to isoning readinon, in assessment of the rotator cuff.	This work has some immutations. Finity, the observers were not binded to patient dentity when assessing the Maran add&Rs. This limitation was minimised by particular add of the observations consecutively, followed by the MM observations. The initial AMI reading was been binded to particular add the market of Minister and Consecutively, followed by the MM observations. The initial AMI reading was able to be more assessment theorem and subject to the market of the market work of the minister and the subject to the market of the market of the market and the minister and the market of the market of the market and the minister and the market of the market of the market work comparing MM and CT modalities would be particularly informative.
Razmjou H, Fournier-Gosselin S, Christakis M, Pennings A, ElMaraghy A, Holtby R. Accuracy of magnetic resonance imaging in detecting biceps pathology in patients with orators curf disorders: Comparison with arthroscopy. Journal of Shoulder and Elbow Surgery 2016; 25(1):38-44.	Low	retrospective non- consecutive	patients with implegement syndrome or rotato cuff tear, with (study group) or without (control group) bicgos disease, who had participated in previous studies from 2003 to 2014 were reviewed. For the purpose of consistency, only patients whose noncontrast MRI study was performed in the institution were included.	extent of biceps disease on the MRI report were excluded.	183 (120 study and 53 control) patients (73 women [40%], 110 men (60%); mean age, 62 years (standard deviation (SD), 9; range, 41- 84])	Sensitivity and specificity of ARI at finding partial thickness biceps tear; Sensitivity and specificity of MRI at finding full-thickness biceps tear;	<ul> <li>• full thickness tars accuracy, 3F, enabled, 35, specificity, 91, 201, 81, 47</li> <li>• Full thickness tars accuracy, 3F sensitivity, 27 specificity, 91, 81, 92, and 18, 44</li> <li>• Dislocation accuracy, 92 sensitivity, 120 specificity, 43, 18+ 61, 8- 92</li> </ul>	98% specificity for biceps tendon tears, 100% sensitibily for biceps subluxation/dislocations	The tably and retrographic in stature with deficiencies inherent in such tables. However, insing data applied only to the Michings, as the reached database had details on becape datase that was completed prospectively. In addition, patients with unknown regionese with detacted and actication for analysis. In this status, Mill regards were interpreted by raidedgist trained in muculate/abledge ables, Mill regards approximation of the result, considering level of training data Millione degraphics actionsy.
Scalise JJ, Codsi MJ, Bryan J, et al. The influence of three-dimensional computed tomography images of the shoulder in preoperative planning for total shoulder arthroplasty. J Bone Joint Surg Am. 2008;90(11):2438-45.	low	retrospective consecutive	Each patient was required to have end-stage glenohumeral DA and a preoperative CT	Patiente with previous shoulder surgery, a history of glenohumeral trauma, or infection	The patients included seventeen men and six women with an average age of skty-two years (range, forty-two into to seventy-eight years).	to evaluate interrater agreement for continuous data. The kappa coefficient was used to evaluate inter-rater agreement for nominal data (zone of glenoid bone loss, glenoid implant fit, surgical decision).	1. inter-care initiality was high for bitm 7.2 and 30 CT (> 54) 2. Assessment of glowal varissions for AD 70 Jan 30 () 0.055, shakolute difference less than 2 degrees). 3. magnitude of bone loss assessment did not differ bitween 2 and 34. 4. For antitric bone bits there was marginally miglificatiny none assessment reliability for 32 versus 20. 5. increased assessment reliability for glewoid prosthesis fit for 30 versus 20 (or 6.056). 5. supratid action and gradue glavaged 39.6 of them in the 10 x 32 assessment most common management change from accept a reamed position other than physiologic "to "team to physiologic glemoid version" on 30	The use of three-dimensional data provided greater agreement among observers with regard to the zone of glenoid bone loss, glenoid prosthetic fit, and surgical decision-making	Introspective design cases selected by u-graon increase latelihood of imaging ulling constraints and a second selection of the selection of dividear arithmic but was excluded from the management options assessed conflict of interest - eleveeness model on the forware generation used the taduly age distandard to compare 20/3D outcomes, no post operative outcomes measured. Not blinded, no gold standard.
Spencer BA, Dalinska CA, Stymour PA, Homans SJ, Alkoda A, Ginshohman ettubal excitilige lesions: prospective comparison of non-contrast magnetic resonance imaging and findings at anthrozcopy. Arthrocopy 2013; 29(9):1466- 1470.	low (downgrade 2 levels for small sample size, partial non blinding to 5- arthroscopy results, no confidence intervals)	prospective consecutive	Inclusion ortheria avers a clinical disprots of buscnomia implement or robatic cuff tendinopathy who fulled consentative management, a non-context MU talkog obtained in a closed scamer at 1.5 Tor greater, and a surgical arthroscopy performed by the senior author	Exclusion criteria were any revision sugger or inflammatory activatorpathy or an MRI study of isoufficient strength. Patients with adaption pathe isolations of glenohumeral outerastrhitis including joint space. narrowing, inferior costephyte formation, subchondral science, or posterior glenoid ware were also excluded. Priferen patients were excluded from the study		The sensitivity, specificity, accuracy, PPU and MPV of determining anticular carrillage lesions on MBI were calculating anticular carrillage transport of the terministic of the terministic of the cargoing form ONE to bollow, with One being the work and 100% being perfect and gold standard. Detection of partial- versus full-thickness cartilage lesions was also evaluated.	The 2 readers combined read 11 of 91 humand lisions is possible and 46 of 91 known humand cardings updates as negative simularly, 23% operating, 20%, 20%, 20%, 20%, 20%, 20%, 20%, 20%	Effect sine detected were small, in the chuly be nevrall accuracy of detecting articular cartillage leases on MMI was 69%. The accuracy detecting human leases was 62% (sensitive), 36%, specificity, 80%), and the accuracy of detecting glowed leases was 73% (sensitive), 28%, specificity, 82%).	This study that serveral intractions. The authors used various MMI scanners from the community rather than 00 MMI scanner, which introduced inter-scanner which the Neuvers, IP as athors believed that the use of afferent MMI scanners throughout the grangeschild ylashifted study gradued all values as the time of arthrongony. The inclutions properties of the study of the study lease the time of arthrongony. The inclutions and the study of the study lease as the time of arthrongony. The inclutions of the low providence, as larger study of the study lease of the low providence, as larger study the study lease and the low providence, as larger study the study lease the study lease of the study lease the study lease of detecting glenohumeral cardiage leases, with the use of non-contrast MMI.

	Low (downgrade retrospective	The study cohort included all patients who	Patients were excluded if 12 months	199 patients (66 females, 133 males). The	Sensitivity, specificity, positive predictive	Sensitivity, specificity, PPV, NPV, and accuracy were reported in Table 3, Table 4, Table 5 for independent raters; For tendinosis, MRI	Both unenhanced MRI and direct MRA are fairly	
H.: Fronek, J.: Chang, E. Y. Long head of the		underwent arthroscopy. Although there were a	elapsed between MR imaging and	mean age of patients was 50.5 years (SD= 16.5		versus MRA showed 18 36 % and 15 38 % sensitivity, 69 79 % and 83 91 % specificity, 22 28 % and 18 50 % PPV, 74 76 % and 80 86		rather than a prospective design. Second, there may have been a bias related to
biceps brachii tendon: unenhanced MRI	comparability of	variety of indications for shoulder arthroscopy in the		years). There were 132 unenhanced MRIs and		% NPV, and 61 64 % and 70 81 % accuracy; respectively. For tears, MRI versus MRA showed 75 83 % and 64 73 % sensitivity, 73 75 %		inclusion of only patients with arthroscopy performed. Indeed, the prevalence of LHBT
versus direct MR arthrography. Skeletal	populations with	cohort, in general, pain that was not responsive to	the LHBT had been performed.	67 direct MRAs. Mean age of patients who		and 82 91 % specificity, 66 69 % and 41 62%PPV, 82 87% and 92 94%NPV, and 74 78% and 79 88 % accuracy; respectively.	unenhanced MRI and direct MRA for the	disease was relatively high in the series of patients (55 % compared to 21 25 %). Third,
Radiol. 2015;44(9):1263-72.	significant	conservative treatment was the most common		underwent unenhanced MRI versus direct	MRA were calculated.			the study included a variable and sometimes lengthy time between MR imaging and
	differences - no	indication. Patients with suspected internal		MRA was 56.4 years (SD=14.3 years) and 38.8			therefore the addition of intra-articular	arthroscopy. However, other radiology-surgical comparison studies have utilized similar
	case control)	derangements, including abnormalities of the labrum		years (SD=14.4 years), respectively (p<0.001).				methods with similar average number of days between imaging and surgery. Of the 199
		with or without instability, rotator cuff disease with		The median number of days between MR			unenhanced MRI for the evaluation of LHBT	enrolled subjects, 169 had less than 180 days time lapse between imaging and
		or without subacromial impingement, adhesive		imaging and arthroscopy was 61 (range=1			pathology. Both MR techniques show poor	arthroscopy. Fourth, there was a higher frequency of abnormal LHBTs among patients
		capsulitis, glenohumeral arthritis, and biceps tendon		336). Median days from imaging to surgery for			sensitivity and PPV for detecting tendinosis,	who underwent unenhanced MRI compared to direct MRA. Given the institution's
		lesions were all included		unenhanced MRI versus direct MRA was 63 (range, 1 336) and 56 (range, 7 313),			which may be related to differences in grading criteria on imaging versus arthroscopy.	referring physician preference to perform unenhanced MRI over direct MRA in older patients (56.4 years versus 38.8 years of age, respectively), these findings are consistent
				respectively (p=0.621). Arthroscopic surgery			Knowledge of potential pitfalls and strategies	with previous work showing a direct relationship between abnormal histologic LHBT
				diagnosed 89/199 (45 %) of LHBTs as normal,				<ul> <li>findings and patient age. Fifth, arthroscopy was used as a reference standard and recent</li> </ul>
				46/199 (23 %) with tendinosis, 28/199 (14 %)			the radiologist to be confident when	studies have suggested that the LHBT near the pulley region cannot be entirely evaluated
				with partial thickness tears less than 50 %.			appropriate.	by pulling the tendon into the joint. As previously discussed, arthroscopy may also have
		1	1	21/199 (11 %) withpartial thickness tears			able ob are.	been subject to diagnostic error as the macroscopic appearance of the LHBT has been
		1	1	greater than 50 %, and 15/199 (8 %) with			1	shown to unreliably reflect its histopathologic grade. Finally, the results from this study
				complete tears.				likely represent one of the best-case scenarios. Unlike prior studies in which MRIs were
		1	1				1	prospectively interpreted in routine practice, the interpretations in this current study
								were performed without interruptions or time constraints, used all three imaging planes
								to score the LHBT, and only evaluated the LHBT rather than all structures in the field of
								view.
				at an investigation of the second				
VanBeek CL, B. J.: Narzikul, A.: Gordon, V.:	moderate prospective	Consecutive patients undergoing shoulder	none stated	There were 46 (55%) male patients, with a	Sensitivity, specificity, accuracy, PPV, NPV of	1) In evaluating the humeral articular cartilage, reader 1 correctly diagnosed lesions in 64 of 84 cases (76% accuracy). Reader 2 made	Overall accuracy of noncontrast MRI in	This study did have a few notable limitations. Shoulder MRI studies were performed at
Rasiej, M. J.: Kazam, J. K.: Abboud, J. A. Diagnostic accuracy of noncontrast MRI for	(downgrade for consecutive	arthroscopy for rotator cuff tendinopathy by the senior author were prospectively enrolled		mean age 54.8 years (range, 17-82 years). There were 59 right and 25 left shoulders in	MRI in detection of bot all glenohumeral cartilaze lesions (ICRS grades 1-4) and of	the correct diagnosis in 67 of 84 cases (80% accuracy). 2) For the glenoid cartilage, reader 1 correctly diagnosed lesions in 69 of 84 cases (82% accuracy). Reader 2 correctly diagnosed the presence of a cartilage lesion in 71 of 84 glenoid cases (85% accuracy). 3) For		multiple institutions and thus lacked a standardized protocol. Despite this variability, all studies were performed with at least a 1.5T magnet and overall were regarded as high-
detection of elenohumeral cartilage	events . no	preoperatively. To be included, patients had to have			high grade lesions (ICRS grades 1-4) and 01	detection of a humeral lesion on MRI, accuracy was 76% and 80%, sensitivity was 61% and 26%, and specificity was 82% and 100% for	lesions is good. However, detection of carciage lesions is reader dependent. Furthermore.	ouality images. To further substantiate the findings, additional analysis evaluating the
lesions: a prospective comparison to	reporting of	a noncontrast shoulder MRI study performed in a				reader 1 and reader 2, respectively. 4) For detection of glenoid lesions on MRI, the accuracy was 82% and 85%, the sensitivity was 55%	accurate characterization of a lesion by MRI,	cause for disagreement in the findings among the radiologists and orthopedic surgeon
arthroscopy. J Shoulder Elbow Surg.	confidence	closed scanner of 1.5T or 3.0T. and all MRI			interobserver agreement, intraobserver	and 50%, and the specificity was 91% and 95% for reader 1 and reader 2, respectively. 5) Low-grade lesions (ICRS grades 1 and 2) of the		(i.e., imaging artifact read as cartilage lesion) would have provided additional insight.
	intervals	sequences were available for review. None of the						
						glenoid and humerus were read as negative on MRI in 63% and 86% of cases, respectively. Interobserver agreement for the detection of humeral and glenoid lesions with noncontrast MRI was fair (k 0.24) and moderate (k 0.41), respectively. Intraobserver reliability for	probably secondary to the relatively thin	Frequently, orthopedic surgeons read magnetic resonance images before receiving the
		enrolled patients had prior shoulder surgery on the affected side				humeral and glenoid lesions with noncontrast MRI was fair (k 0.24) and moderate (k 0.41), respectively. Intraobserver reliability for	probably secondary to the relatively thin glenohumeral articular cartilage. On the basis	Frequently, orthopedic surgeons read magnetic resonance images before receiving the radiologist's report, and thus having the treating orthopedic surgeon blindly evaluate the
1		enrolled patients had prior shoulder surgery on the affected side.				humeral and glenoid lesions with noncontrast MRI was fair (k 0.24) and moderate (k 0.41), respectively. Intraobserver reliability for detection of humeral head lesions was very good (k 1) for reader 1 and moderate (k 0.53) for reader 2.6) For glenoid lesions,	probably secondary to the relatively thin glenohumeral articular cartilage. On the basis of these findings, the authors recommend that	Frequently, orthopedic surgeons read magnetic resonance images before receiving the radiologist's report, and thus having the treating orthopedic surgeon blindly evaluate the MRI study preoperatively would have proved beneficial. Lastly, the results suggest a trenc
						humeral and glenoid lesions with noncontrast MRI was fair (k 0.24) and moderate (k 0.41), respectively. Intraobserver reliability for	probably secondary to the relatively thin glenohumeral articular cartilage. On the basis of these findings, the authors recommend that	Frequently, orthopedic surgeons read magnetic resonance images before receiving the radiologist's report, and thus having the treating orthopedic surgeon blindly evaluate the
						hummaria and glenoid lesions with noncontrast MRI was fair (k 0.24) and moderate (k 0.41), respectively. Intraobserver reliability for detection of humeral head lesions was very good (k.1) for reader 1 and moderate (k 0.03) for reader 2.6) For glenoid lesions, intraobserver agreement was very good (k.0.21) for reader 1 and moderate (k.0.49) for reader 2. Agreement on size of the humeral head	probably secondary to the relatively thin glenohumeral articular cartilage. On the basis of these findings, the authors recommend that patients with rotator cuff tendinopathy	Frequently, orthopedic surgeons read magnetic resonance images before receiving the radiologist's report, and thus having the treating orthopedic surgeon blindly evaluate the MRI study preoperatively would have proved beneficial. Lastly, the results suggest a treo that larger cartilage lesions are more likely to be accurately detected. However, the
						humera and genood lealons, with noncontrast MW usos fair (h. 0.24) and moderate (h. 0.41), respectively, intraduserver reliability for detection of humera had lealons vas vas varies good (h. 1) for reads - 1 and moderate (h. 0.49) for reads - 1.2 angement on size of the humeral had lealons for all observations vas fair (KC - 207), whereas the KC for general design 4.2, and enable the leans f and all observations vas fair (KC - 207), whereas the KC for general design 4.2, and enable the leans for all observations vas fair (KC - 207), whereas the KC for general design 4.2, and enable the leans for all observations vas fair (KC - 207), whereas the KC for general design 4.2, and enables the leans for all observations vas fair (KC - 207), whereas the KC for general design 4.2, and enables the leans for all observations vas fair (KC - 207), whereas the KC for general design 4.2, and enables the leans for all observations vas fair (KC - 207), whereas the KC for general design 4.2, and the leans for all observations vas fair (KC - 207), whereas the KC - for general design 4.2, and the leans fair all observations vas fair (KC - 207), whereas the KC - for general design 4.2, and the leans fair all observations vas fair (KC - 207), whereas the KC - for general design 4.2, and the leans fair all observations vas fair (KC - 207), whereas the KC - for general design 4.2, and the leans fair all observations vas fair (KC - 207), whereas the KC - for general design 4.2, and the leans fair all observations vas fair (KC - 207), whereas the KC - 2000 for general design 4.2, and the leans fair all observations vas fair (KC - 207), whereas the KC - 2000 for general design 4.2, and the leans fair all observations vas fair (KC - 207), whereas the KC - 2000 for general text 4.2, and the leans fair all observations fair all observations fair all observations vas fair (KC - 2000 for general design 4.2, and the leans fair all observations fair (KC - 2000 for general design 4.2, and the leans fair all observations fair all observations f	probably secondary to the relatively thin glenohumeral articular cartilage. On the basis of these findings, the authors recommend that patients with rotator cuff tendinopathy undergoing arthroscopy be informed that the	Frequently, orthopedic surgeons read magnetic reasonance images before receiving the radiologist's report, and thus having the treating orthopedic surgeon bilindly evaluate the MRI study properatively would have proved beneficial. Lasily, the results suggest a trene that larger cartilage lesions are more likely to be accurately detected. However, the authors were unable to determine a cricial lesion site below which lesions are less likely to
						humera and genood lealons, with noncontrast MW usos fair (h. 0.24) and moderate (h. 0.41), respectively, intraduserver reliability for detection of humera had lealons vas vas varies good (h. 1) for reads - 1 and moderate (h. 0.49) for reads - 1.2 angement on size of the humeral had lealons for all observations vas fair (KC - 207), whereas the KC for general design 4.2, and enable the leans f and all observations vas fair (KC - 207), whereas the KC for general design 4.2, and enable the leans for all observations vas fair (KC - 207), whereas the KC for general design 4.2, and enable the leans for all observations vas fair (KC - 207), whereas the KC for general design 4.2, and enables the leans for all observations vas fair (KC - 207), whereas the KC for general design 4.2, and enables the leans for all observations vas fair (KC - 207), whereas the KC for general design 4.2, and enables the leans for all observations vas fair (KC - 207), whereas the KC for general design 4.2, and the leans for all observations vas fair (KC - 207), whereas the KC - for general design 4.2, and the leans fair all observations vas fair (KC - 207), whereas the KC - for general design 4.2, and the leans fair all observations vas fair (KC - 207), whereas the KC - for general design 4.2, and the leans fair all observations vas fair (KC - 207), whereas the KC - for general design 4.2, and the leans fair all observations vas fair (KC - 207), whereas the KC - for general design 4.2, and the leans fair all observations vas fair (KC - 207), whereas the KC - 2000 for general design 4.2, and the leans fair all observations vas fair (KC - 207), whereas the KC - 2000 for general design 4.2, and the leans fair all observations vas fair (KC - 207), whereas the KC - 2000 for general text 4.2, and the leans fair all observations fair all observations fair all observations vas fair (KC - 2000 for general design 4.2, and the leans fair all observations fair (KC - 2000 for general design 4.2, and the leans fair all observations fair all observations f	probably secondary to the relatively thin glenohumeral articular cartilage. On the basis of these findings, the authors recommend that patients with rotator cuff tendinopathy undergoing arthroscopy be informed that the presence and severity of cartilage lesions may	Prequently, onthoped: surgroom read magnetic resonance images before receiving the radiologist: report, and thus having the treating onthoped: surgeon billindly evaluate the MRI study preoperatively would have proved beneficial. Lastly, the results suggest a term that larger cartillage lesions are more listly to be accurately detected. However, the authors were unable to determine a critical lesion is the blow which lesions are less likely to be identified. This information could have bus out and the bus out to better inform patients and the surger cartillage start and the surger to better inform gateries and the surger cartillage start and the surger to better inform gateries and the surger start and the surger to better inform gateries and the surger start and the surger to better inform gateries and the surger start and the surger to better inform gateries and the surger start and the surger to better inform gateries and the surger start and the surger start and the surger to better inform gateries and the surger start and the
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