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UDC: 616.366-003.7-089- 06 Our opinion on some preventive measures for repeated surgery on the biliary tract for cholelithiasis

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Summary: Today, not "complicated" cholecystolithiasis (CCLT) mainly is treated by laparoscopic cholecystectomy (LCHEC) in up to 95-98.7% of cases, choledocholithiasis (CDL) and stenosis of the papilla of Vater (SPV), mainly by endoscopic papillasphincteratomy (EPST), laparoscopic choledocholithotomy (LCDLT) up to 75 - 85%, and sometimes also by laparoscopic choledochoduodenoanastomosis (LCDA), etc. If these operations cannot be performed or they were inadequate, then surgeons are forced to use the open of variants of these operations.

But the results of some of them (especially LHEC, LCDLT and CDA) are not yet fully positive (comforting), due to the development of recurrent or residual CDL and SPV, even supposedly performed for not "complicated" CCLT. Not to mention such a high percentage of the so-called controversial concept of "postcholecystectomy syndrome" (PCHES), which occurs in up to 40% or more of cases. Which force patients to continue treatment after surgery, even they are sometimes subjected to re-operation for recurrent or esidual CDLT and SPV up to 10 - 15%. This means that in the treatment of this pathology there are still a number of problems leading to PCHES.

The work studied and analyzed the results of more than 14,000 LHEK and 84 OHEK, regarding not "complicated" CCLT, 57 - OCDLT, 61 - OHDA, 74-OPSP and 37 open double internal drainage (ODID), i.e. PST+CDA for HDLT and SPV.

At the same time, it was noted that PCHES is often observed after CDLT and CDA, including after CHEC (especially after LCEC) performed allegedly for not "complicated" CCTL.

At the same time, after adequate OPSP and double internal drainage of bile ducts, despite their use in more advanced - complicated forms of cholelithiasis, as well as after unsuccessful results or inadequate EPST or OCLT, CDA, reports on the frequency of recurrent or residual CDL and SPV in periodicals much less frequently, and their results are much better than even after LCHEC performed for not "complicated" CCLT. The results were even worse after CDLT with bougienage of SPV and CDA.

This means that the basis for repeated operations on the biliary tract for CLT is often inadequately eliminated bile stasis (either undiagnosed or most likely inadequately corrected). Namely, bile stasis can serve not only as a reason for repeated operations, but also in general, often as the initial cause of CLT in general. This is evidenced by the indicated mechanism of formation of gallstones, their migration and their consequences.

Keywords: Cholelithiasis (GI), laparoscopic cholecystectomy (LCHEC), endoscopic papillosphincterotomy (EPST), choledocholithotomy (CLT), choledochodenoanastomosis (CDA), papillosphincterotomy (PST), laparoscopic choledocholithotomy (LCDLT), transduodenal papillosphincteroplasty (TDPSP), benign stenosis of the Fater nipple (DSFS), terminal part of the choledochus (TCH), Nipple vater (FS), obstruction of the terminal part (OTP), common bile duct (CBD, Vater's papilla stenosis (VPS).

<u>Relevance of the work.</u> Today, throughout the world, "uncomplicated" (UC) cholelithiasis (CLT) - cholecystolithiasis (CCLT) is treated by laparoscopic cholecystectomy (LCHEC) in up to

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95-98.7% of cases (4, 10, 14 and etc.), when there is an obstruction of the terminal part (OTP) of the common bile duct (CBD) and Vater's papilla (VP) due to choledocholithiasis (CDL) and Vater's papilla stenosis (VPS), (basically) also mainly treated, By endoscopic papillosphincterotomy (EPST), laparoscopic choledocholithotomy (LCDLT) up to 75 - 87%, and recently, for the same indication, a number of surgeons have begun to widely use laparoscopic choledochoduodenastomosis (LCDA), etc. 15, 18, 19, 20 and etc.).

If the above mentioned operations (endoscopic, laparoscopic, etc.) can't be performed or they were inadequate, then surgeons are forced to use opening methods of these operations, such as opening (O) variants of CHEC (OCHEC), choledocholithotomy (OCDLT), choledochoduodenastomosis (OCDA), papillosphicnterotomy (OPST), papillosphincteroplasty (OPSP), etc.

But, the long-term results of some of them (especially LCHEC, LCDLT, EPST and CDA) are not always and not everywhere positive yet [1,2,7,21,22] due to the development of recurrent or residual CDL, VPS, even allegedly (definitely) carried out (it should be especially emphasized) for UC CCLT. Without even mentioning such a high percentage of the so-called controversial concept as "postcholecystectomy syndrome" (PCHECS), occurring in up to 51.3% or more cases, which take place more often in the republics of the former Soviet Union [1,3,10,13,16,18]. Which force patients to continue treatment after surgery, even sometimes they undergo re-operation, mainly for recurrent (repeated) or remaining (residual) CDL and SPV up to 10 - 15% [2,4,11,22,23,24]. This means that there are still some problems in the diagnosis and treatment of this pathology . especially in these - in the above-mentioned regions. As a result, the population's low level of medical knowledge.

Purpose of the study. To improve the quality of treatment of patients operated on for CLT. by identifying some of the reasons for unsatisfactory results of surgical treatment requiring repeated operations. Especially in developing countries.

<u>Research objectives.</u> To find out some of the reasons for the unsatisfactory results of existing methods of surgical treatment of CLT, requiring repeated operations.

<u>Materials and research methods.</u> Since 1995, we have performed more than 14,000 LCHEC and 84 OCHEC, for UC CCLT, 57 - OCDLT and 26 LCDLT, 61 - OCDA, 74 - OPSP and 37 open double internal drainage (ODID) of the biliary tract (BT), i.e., made by OPST or OPSP+OCDA for (regarding) CDL and SPV.

After them, 1688 patients returned again due to their condition not improving after surgery. Of these, 1603 patients were after CHEC, 46 after CDLT, 39 after CDA. More than half of whom (858 patients) required a comprehensive examination (Clinical and laboratory examination, ultrasound, gastroduodenoscopy, contrast X-ray examination of the gastrointestinal tract, RPCG, MRI cholangiography, etc.) for PCHECS.

At the same time, in 162 patients after CHEC, CDL and SPV were detected, and they were re-operated and underwent EPST (128 cases) with sanitation (with removal of stones) of the bile ducts. In 34 patients who failed to adequately perform EPST (with repeated attempts to remove, more often than not, large multiple, fissured - strangulated stones from the bile ducts), opening surgery was performed (OPST or OPSP and CDA), especially in more advanced - severity cases (with 3 degrees of pathology) disease (see Table 1), which occurs more often in our regions. Due to the late presentation appeal - receipt of patients for CCLT. The remaining patients continue conservative treatment for chronic pancreatitis, cholangitis, hepatitis, gastroduodenitis, etc.

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Slide 14 (Table 1).

The main signs of an OTP of the CBD and VP due to CDL and VPS in cholangiography (ERCP, MRCP, intraoperative cholangiogram etc.), cholangioscopy, choledochoscopy, balloon cholangio-papillography and probing.

Investigations	Degrees of the OTP CBD and the VP		
Intraoperative/on table cholangiogram, choledochoscopy, balloon	Ι	п	III
cholangiopapillography			
Narrowing of the TPof	> 2-1	>1	<1
CBD and the VP(in mm)			
Flow of the		Moderate	Severely
radiocontrast agent through the	Mildly	to severely	decreased or no
VP	decreased	decreased	flow
Dilatation of the	< 15	15-19	>20
CBD(in mm)			
Probe	4 mm probe	3 mm	-
	is not passing but 3	probe is not	r
	mm probe is passing	passing	
	with some effort.		
Choledochoscopy	Luminal narroy	wing of the TP CBI	D and the VP due to
	inflammatory-fibrotic deformity, polyps, lack of "motor		
	play" of the terminal CBD and the sphincter of the VP.		
	Choledochoscope does not pass through the VP.		

<u>The discussion of the results.</u> As is known, CHEC (They are regardless of whether these operations are performed independently by LCHEC or OCHEC) is indicated only for UC CCLT, i.e. without obvious (noticeable, clear) signs of CDL and SPV (i.e., in the absence of signs of obstructive jaundice, visible (noticeable) dilated of the diameter of the hepaticocholedochus, stones in it, etc.). CDLT and EPST for CDL with - or without SPV, and CDA or DVD of BT in advanced (with 2 and especially 3 degrees) cases of pathology (see table). CDL and SPV.

Thanks to these operations, CLT (CCLT, CDL, SPV, etc.) is supposedly completely (evidently) eliminated. If so, then what is such a common reason for the development of CDL and SPV, including after LCHEC performed for UC CCLT, not to mention other unknown causes of PCHECS...!?

At the same time, after adequate OPSP and DVD of BT, despite their use in more advanced - complicated forms of CLT, as well as after unsuccessful performing or inadequate EPST or OCDT, OCDA, reports on the frequency of recurrent or residual CDL and VPS in periodicals much less often (and, in our practice, were not observed at all). Moreover, their results turned out to be much better than even after LCHEC performed for UC CCLT. The results were even worse after CDLT with bougienage of VPS and CDA.

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All this suggests suggests that during LCHEC, CDLT and CDA carried out for UN CCLT, CDL and SPV, do not undiagnosed CDLT and SPV remain (after LHEC, CDLT and CDA) and inadequate correction of the pathology as a result of EPST, CDLT and CDA.

It should be emphasized that today the diagnosis of CCLT and CDL, and their treatment by LCHEC, LCDLT and EPST are generally accepted, without any serious disagreement (1, 7, 9, 14 and etc). Therefore, more often than not, the true residual nature of CDL after LCHEC, it seems to us that CDL should not be so great (at least, it is unlikely), and as for SPV, supposedly its main cause is considered to be CCLT CDL, it also seems to be radically eliminated by LCHECS. If so, then where do recurrent or residual CDL and VPS come from...!?.

If during CLT (CCTL and CDL) diagnostic errors do not occur in 2-3%, and in the diagnosis of VPS there are almost no such clearly established, similar, almost identical data, i.e. So, the frequency of VPS during CLT ranges from 1-5% to 30 - 45% and even much more.

As is known, most authors believe that VPS as a complication of CLT is CCLT and CDL. They are eliminated by LCHEC, CDLT and EPST...! And after PSP and DVD of BT there is practically no relapse and there is no residual CDL and VPS.

Therefore, it seems to us that the main problem in this pathology, all such often lies not adequately eliminated bile stasis, but precisely at the level of VP, leading to repeated bile stasis. not only served as the cause of relapse of the pathology, and even at the beginning of CLT. Although many believe that the main causes of CLT are, first of all, dyscholia, inflammation, and then stagnation of bile (3, 5,6,8, 9,17, 12, 23, 24 and etc.). There is no doubt about it.

But, with dyscholia and inflammation, the sudden appearance of significantly large stones (more than 1.5 - 2 - 3 mm), often delayed and growing in size and increasing in number in the gallbladder and especially in the bile ducts, is difficult to imagine, given the data below.

Since, naturally, gallstones initially appear in the form of "microlites" - in the form of "biliary sludge" or stones of small size (up to 1 - 1.5 - 2 mm) and they should migrate freely along the bile flow from the gallbladder to common bile duct, further and especially through the VP into the duodenum, if there are no obstacles in the VP area leading to bile stasis (in the bile ducts).

Since, with an intact biliary system, the diameter of the narrowest parts of the bile ducts, which are the cystic duct and VP, is always larger than these microliths - small stones, which on average are 2 - 4 mm and 3 - 6 mm, respectively. For example, with intact bile ducts (on a corpse), 3-4 mm probes are often difficult to pass through the cystic duct into the common bile duct, but they pass through the VP almost without any difficulty. And when identifying stones in the bile ducts, it's the other way around.

It should be noted here that if there are stones in the gallbladder smaller than the diameter of the cystic duct, such stones are almost always found in the hepaticocholedochus (especially, during transillumination), very often especially in the ampulla of the VP during choledochoscopy.

Stones migrated from the gallbladder through a narrow (2-4 mm in diameter) and relatively long (15 - 30 - 60 - ... mm) duct (often tortuous) should pass freely - migrate through a relatively wide (3- 6 mm in diameter) - and a short (from 4 - 25 mm) channel of the VP, moreover, the bile outflow from the VP into the duodenum is much faster than through the cystic duct. Moreover, after LCHEC, i.e. after elimination (as it is considered), the main thing is the main formation of stones, including their removal from the bile ducts, by LCDLT and EPST, we can say that CLT is almost completely eliminated. Then what is the cause of recurrent or residual CDL and VPS...!? According to the leading Ukrainian hepatologist Professor N.B. Gubergritsa, after CHEC

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(supposedly done for "uncomplicated" calculous cholecystitis), at least 55% of patients are not completely cured of the disease, and in her monograph published in 2007 ("Chronic abdominal-biliary pain" M., 2007. 420 p.), PCHES was noted in up to 87% of cases).

Based on this, it can be assumed that at the beginning of the pathology (as a trigger for the disease (cholelithiasis), it seems to us that it often lies in the VP, leading to bile stasis in the bile ducts, primarily in the gallbladder, taking into account its large volume - as a keeper - of the reservoir bile.

During inadequate activation of digestion, i.e. disorderly eating (in a flash, at the wrong time, without desire - without appetite, stressful situations, physical inactivity, etc.) and as a result of insufficient work of the sphincter apparatus of the VP (dysfunction, spasms, papillitis, etc.) it seems to us that bile is mostly emptied from the extravesical bile ducts, while not having time to completely empty the gallbladder. This leads to thickening of the bile and the formation of microliths - and then stones with their retention, of course, at the beginning of the gallbladder. The constant migration of stones through the cystic duct, especially through an altered VP, aggravates the change in VP (this is a universally recognized mechanism for the development of this pathology...!) with their subsequent accumulation in the common bile duct...!

This means that timely removal of the gallbladder seems to break this vicious circle in most cases, significantly preventing and stopping the further development of the pathology - continued stone formation and its complications, but it turns out that this is not always the case - and not always effective (see top...!).

As is known, diagnoses of CDL and especially VPS are often based on the degree of dilatation (expansion) of the diameter of the hepaticocholedochus and the presence of jaundice (at admission or in history, more often during an attack of biliary colic). As for jaundice, it can be absent in CDL and VPS up to 50% (3,7, 9 and etc.) It seems to us that the degree of dilatation (expansion) of the hepaticocholedochus also requires some clarification.

As is known, with intact bile ducts, the diameter of the hepaticocholedochus does not exceed 4–8 mm, and during LCHEC, the diameter of the hepaticocholedochus in almost more than half of the cases is 8–10 mm, and often up to 11–12 mm. Surgery usually completes the LCHEC operation in such cases, If a stone is not clearly identified in the hepaticocholedochus and PS.

If for a given patient the initial diameter of the hepaticocholedochus was 4-6 mm, then during LCHEC the diameter of the hepaticocholedochus was detected to be 8 - 12 mm, which occurs in more than half of the cases, then it turns out to be dilated almost 2 - 3 times. As for choledocholithiasis (which is also considered one of the main signs of VPS), it is often detected even with a non-dilated common bile duct in up to 10 - 15% of cases.

This means that not the absence of jaundice, the dilated (expansion) of the hepaticocholedochus (8 - 10 - 12 MM considered normal in many publications) and stones in the common bile duct does not exclude the diagnosis of VPS. What is evidenced by the presence of a fairly high percentage of recurrent or residual CDL and VPS...!?, even after LCHEC performed for UC CCLT.

This means that primary operations on the biliary tract are performed on time (especially during LCHEC, CDLT and CDA) or are not diagnosed (given the residual - recurrent nature of the pathology) or are not adequately corrected during the procedure. This means it is necessary to develop more advanced diagnostic methods and treatment of CLT complicated by CDL and especially SPV.

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Summary: Today, not "complicated" cholecystolithiasis (CCLT) mainly is treated by laparoscopic cholecystectomy (LCHEC) in up to 95-98.7% of cases, choledocholithiasis (CDL) and stenosis of the papilla of Vater (SPV), mainly by endoscopic papillasphincteratomy (EPST), laparoscopic choledocholithotomy (LCDLT) up to 75 - 85%, and sometimes also by laparoscopic choledochoduodenoanastomosis (LCDA), etc. If these operations cannot be performed or they were inadequate, then surgeons are forced to use the open of variants of these operations.

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