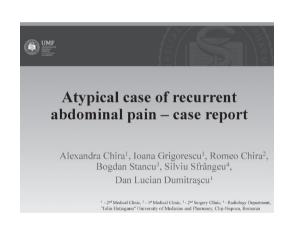


Sesja plakatowa

Atypical case of recurrent abdominal pain — case report



Case report

- At the last consultation, routine investigations were performed and was diagnosed as having a urinary tract infection being discharged and receiving treatment. Repeated ultrasound (US) examination revealed only gallstones
- Last physical examination that led to this admission revealed sensibility in the left side of the abdomen and a palpable elastic formation in the right iliac fossa, formation that disappeared the next day after admission

Introduction

Though abdominal pain (AP) is a common complaint in emergency rooms (ER) or departments, it may lead to misdiagnosis¹

Case report

- We present an unusual cause of intestinal obstruction in adults
- A 52-year-old patient was reffered from the ER with multiple complaints, AP being the cardinal one. Abdominal pain was present over the past month, for which was repeatedly examined (at least twice) in the ER

Case report

- In the day of the previewed discharge, the AP reappeared as well as the palpable elastic formation, in the right side paraumbilical
- US examination raised the suspicion of ileocolic intussusception due to a polypoid tumour
- Contrast-enhanced computed tomography confirmed the findings and precised that the polypoid tumour is more likely a lipoma
- Surgery (right hemicolectomy) was performed and a fatty tumour (macroscopically) of the ileocecal valve was also found

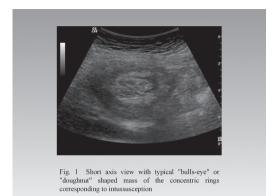


Fig .4 Contrast-enhanced CT scan, sagital section representing the intussuception tumour

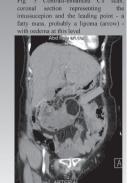
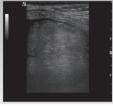
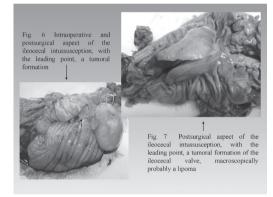




Fig. 2 Hyperechoic, spheric tumour having continuity with a laminary structure with layers of different echogenicities — intussucepted ileocolic segment with the tumoral formation

Fig. 3 With the linear transducer we visualize: the hyperechoic, homogenous tumour and anterior, the intestinal wall, with a minimal layer of peritumoral fluid localised between the enteral wall and the





Discussion

- If most of the intussusceptions are encountered in the pediatric population, adult intussusception is a rare condition² that accounts 5% of all cases of intussusceptions²-4
- An underlying cause is found in 70-90% of cases in adults3, 5, 6
- · Pre-operative diagnosis remains difficult and in approximately 50% of the cases diagnosis is established intra-operatively7

Conclusion

Intestinal intussusception in an adult caused by a benign tumour, typically asymptomatic if smaller than 2 centimeters, diagnosed first by US preoperatory renders peculiarity to our case

- Macaluso CR, McNamara RM, Evaluation and management of acute abdominal pain in the endepartment. Int J Gen Med. 2012;5:789-97.
- department. Int J Gen Med, 2012;57:89-97.

 2. Calir M. Tekin A. Kucukkartaller T. Belviranli M. Gundes E, Paksov Y. Intussusception: as the cause of mechanical bowel obstruction in adults. Korean J Gastroenterol. 2013 Jan 25:61(1):17-21.

 7. Nagorney DM, Sarr MG, Mellrath DC. Surgical management of intussusception in the adults. Ann Surg. 1981;191:200-6.

 4. More T. Parine DJ. Adult interconstrian. Ann Surg. 1007; 326: 124:138
- 1981/19329-0.6

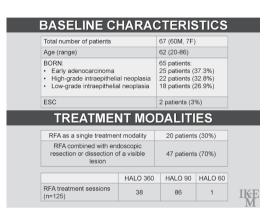
 Azar T Berger DL. Adult intussusception. Ann Surg 1997; 226: 134-138.

 Stubenbord WT, Thorbjarnarson B. Intussusception in adults. Ann Surg 1970; 172: 306-310.

 Mannis A, Yiallouron A, Samanides L, et al. Intussusception of the bowel in adults: a review. World J Gastroentreal 2009;15:407-41.
- ⁷. Barussaud M, Regenet N, Briennon X, et al. Clinical spectrum and surgical approach of adult intussusceptions: a multicentric study. Int J Colorectal Dis 2006;21:834-839.

Is a complete remission of intestinal metaplasia a suitable endpoint in patients undergoing radiofrequency ablation (RFA)? Long-term results of rfa treatment in 67 consecutive patients





INTRODUCTION

- · Radiofrequency ablation (RFA) in combination with endoscopic resection (ER) is a method of choice for treatment of early esophageal
- · Complete remission of intestinal metaplasia (CR-IM) and complete remission of dysplasia (CR-D) are commonly used as the endpoints of successful treatment
- The relevance of CR-IM (in patients with macroscopically normal neo-Z-line) has recently been challenged IĶĒ

TREATMENT RESULTS I. (Analysis of 54 patients (82%) who have already finished the treatment) 65% (95% CI 63-70%) 94% (95% CI 93-99%) CR-N Recurrences of intestinal metaplasia Recurrences of neoplasia 3.7% Detection of buried glands 0%

AIMS & METHODS · To assess the long-term efficacy of RFA • A prospective, single center study (1/2009-4/2014) • 67 patients were included (mean age 62) **Indications for treatment:** a. <u>Barrett's Oesophagus Related Neoplasia</u> (BORN)

- b. Early squamous carcinoma (ESC)

Treatment:

- RFA with HALO system (HALO 360, HALO 90 and 60)
- · ER multiband ligation method

Follow-up: median 30 months (range 0.5-64)



TREATMENT RESU	LTS II.
Patients without CR-IM	35% (18 pts)
Macroscopically normal neo-Z-line	83% (15 pts)
Neo-Z-line with visible islands or tongues	17% (3 pts)
Recurrences of IM at the level of neo-Z-line	29% (10 pts
Macroscopically normal neo-Z-line	90% (9 pts)
Neo-Z-line with visible islands or tongues	10% (1 pts)
re 2. Normal neo-Z-line after ER Floure 3; Irres	jular neo-Z-line with reccur

CONCLUSION

- RFA is effective and safe in treatment of early esophageal neoplasia
- A majority of patients without CR-IM or with a recurrence of IM have macroscopically normal neo-Z-line
- CR-IM and a recurrence of IM might not be clinically relevant endpoints in patients with macroscopically normal neo-Z-line after RFA



Cost-effectiveness of colonoscopy in the screening program (PCSP, Polish Colonoscopy Screening Platform); methodology deliberations

Cost-effectiveness of colonoscopy in the screening program (PCSP, Polish Colonoscopy Screening Platform); methodology deliberations.

> Bartlomiej Krzeczewski, Michał F Kaminski, Milena Laskowska, Jaroslaw Regula.

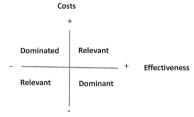
Cost-effectiveness analysis (CEA)

- CEA has been applied for colorectal cancer already.
- Lack of such studies concerning situation in Poland.

Cost-effectiveness analysis (CEA)

- CEA is a technique designed to measure costs and health benefits attributable to two or more medical interventions (or no intervention).
- Conducting cost-effectiveness analysis in medicine is becoming more and more important; however, methodology and access to reliable data for calculations is not readily available.

Cost-effectiveness analysis (CEA)



Cost-effectiveness analysis (CEA)

Pros

- · Synthetic tool.
- Helpful in decisionmaking process.
- Compares different medical interventions in complex system.

Cons

- Availability and accuracy of data.
- Modeling vs. real world.
- Uncertainty due to unclear information.

Methodology

- · Comparing colonoscopy with no screening.
- · Conducting sensivity analysis.
- Crucial variables: personnel costs, administrative costs and health benefits' data.
- Cost-effectiveness comparisons between different types of screening centres taking part in the program according to their founding.

Aim of the study

• To use data from screening colonoscopy program within the TEAM project -"Experimental population based platform to evaluate and monitor the effectiveness of screening colonoscopy: a population based comparative effectiveness study. (PCSP, Polish Colonoscopy Screening Platform)".

Expected results

- Data collected from approximately 80 screening centres will allow for reliable assessment and comparisons.
- It is expected that ICER calculated for the program will be lower than cost-effectiveness threshold in Poland.
- Significant differences in CEA between screening centres of different types are also expected.

Methodology

- Analyzed period: 2012 2015.
- Data for the cost-effectiveness analysis obtained from Polish Ministry of Health and from the program databases.
- Calculating cost-effectiveness ratio (ICER).
 - <u>Costs</u>: personnel costs, administrative costs, histopathology costs, medical materials' costs, medical equipment costs, depreciation data, invitation to screening costs.
 - Effects: e.g. life-years gained.

INCIDENTAL HEPATOCELLULAR CARCINOMA:

Risk factors and long-term outcome after liver transplantation

enkerikova kenata-, Frankova Sona-, Speri Jan-, Oliverius Martin-, Kiesiicnova Kautznerova Dana⁴, Honsova Eva⁵, Trunecka Pavel⁶, Spicak Julius¹.



- ¹ Department of Hepatogastroenterology, Institute for Clinical and Experimental Medicine, Prague, Czech Republ
- Department of Transplant Surgery, Institute for Clinical and Experimental Medicine, Prague, Czech Republic
 Department of Anesthesiology and Resuscitation, Institute for Clinical and Experimental Medicine, Prague, Czech Republic
- Department of Anesthesiology and Resuscitation, Institute for Clinical and Experimental Medicine, Prague, Czech Republic
 Department of Radiodiagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague, Czech Republic
- ⁵ Department of Clinical and Transplant Pathology, Institute for Clinical and Experimental Medicine, Prague, Czech Repul ⁶ Transplantacenter, Institute for Clinical and Experimental Medicine, Prague, Czech Republic
- ⁶ Transplantacenter, Institute for Clinical and Experimental Medicine, Prague, Czech Repul

Conflict of interest: The authors have declared that no competing interests exist

Financial support: The study was supported by the project (Ministry of Health, Czech Republic) for development of research organization 00023001 (IKEM, Prague, Czech Republic) – Institutional support.

INTRODUCTION

- Orthotopic liver transplantation (OLT) currently represents the treatment of choice in patients with early hepatocellular carcinoma (HCC)
- Despite the increasing quality of HCC screening methods in patients at risk, distinction of HCC from dysplastic nodules in cirrhotic liver before OLT remains challenging
- Therefore, hepatocellular carcinoma detected incidentally in the liver explant after OLT, denoted as incidental HCC (iHCC), is not infrequent
- However, the data describing the characteristics of iHCC patients and their clinical outcomes

Histology

Abdominal ultrasound, CT scan and/or MRI



RESULTS – ETIOLOGY & RISK FACTORS

Etiology of underlying	Ci group	iHCC		
disease	N=606	N=33	value	
ALD	176 (29.1%)	17 (51.5%)*		
HCV	99 (16.3%)	11 (33.4%)*		
HBV	38 (6.3%)	3 (9.1%)		
Cholestatic	169 (27.9%)	0*	<.001	
Metabolic	27 (4.5%)	1 (3.0%)		
AIH	34 (5.6%)	0		
Cryptogenic	45 (7.4%)	1 (3.0%)		
Other	18 (3.0%)	0		

Incidental HCC was predominantly found in patients transplanted for alcoholic liver cirrhosis (51.5%) and liver cirrhosis owing to hepatitis C (33.4%), whereas none of iHCC occurred in cholestatic liver

Variables		95% CI	P value
Age > 57 years	3.37	1.75 - 8.14	< 0.001
ALD or HCV	3.89	1.42 - 10.7	< 0.001
AFP > 6,4 ug/l	6.65	2.82 - 15.7	0.002

In the multivariate analysis we identified the age > 57 years, HCV or alcohol liver sease (ALD) and AFP level > 6.4 µg/l to independent predictors for occurrence of iHCC

AIMS & METHODS

Aims

•Comparison of their survival rate with patients with preoperatively known HCC (pkHCC)

•To identify risk factors of incidental HCC occurrence in cirrhotic liver

Patients and methods

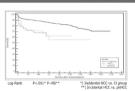
•We retrospectively reviewed 33 adult cirrhotic patients with incidentally found HCC (IHCC group) and compared them with 606 tumor-free cirrhotic patients (Ci group)

•All patients underwent OLT in our center between 1/1995 and 8/2012

•Within the same period, a total of 84 patients were transplanted for pkHCC

•In the group of cirrhotic patients (Ci + iHCC) we searched for risk factors of iHCC occurrence

RESULTS – SURVIVAL



Survival	1-year	3-year	5-year
Cl group	93 %	90 %	87 %
IHCC	79 %	72 %	68 %
pkHCC	78 %	71 %	67 %

Overall survival 1-, 3- and 5-year overall survival differed in iHCC patients compared with Ci group (P<.001) There was not a significant difference in overall survival between iHCC and pkHCC

patients (P=NS) Recurrence of HCC Tumor recurrence was detected in

3 patients (9.1%) with iHCC on average 30 months (19.5 – 66) after OLT

RESULTS – PATIENT CHARACTERISTICS

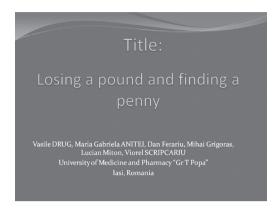
Variables	Ci group	iHCC group		
	N=606		value	
Men/Women	367/239 (61%/39%)	24/9 (73%/27%)	0.164	
Mean age at OLT (years)	49 ± 11	57 ± 7	< 0.001	
Median AFP (µg/l, range)	4 (0,5 - 474)	9,3 (1,8 - 293)	<0.001	
Mean Child-Pugh score at the time of enlistment on the WL (points)	9 ± 2	10 ± 2	0.012	
Child-Pugh A	38 (6.3%)	0		
Child-Pugh B	291 (48.0%)	12 (36.4%)		
Child-Pugh C	277 (45.7%)	21 (63.6%)	0.077	
Mean MELD score at the time of enlistment on the WL (points)	16 ± 5	16 ± 4	0.839	
Median time on the WL (days, range)	84 (0 - 1331)	75 (5 - 413)	0.819	

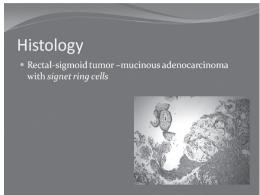
There was a significant difference in age, Child-Pugh score and alpha-fetoprotein level

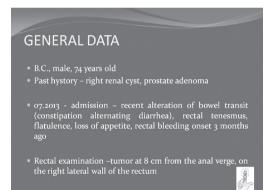
CONCLUSION

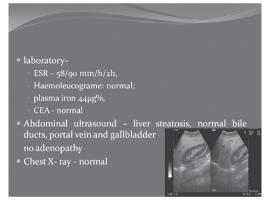
- We conclude that the survival of incidental HCC patients is worse than in tumor-free cirrhotic patients, but comparable with survival of preoperatively known HCC patients
- Independent risk factors for incidental HCC occurrence in cirrhotic liver are age, HCV or alcohol liver disease etiology of liver cirrhosis and AFP level

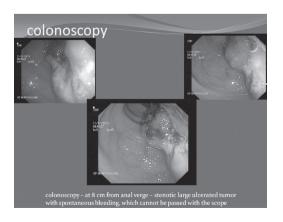
Losing a pound and finding a penny

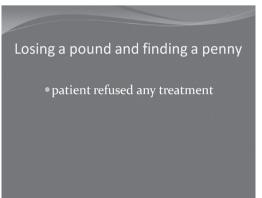




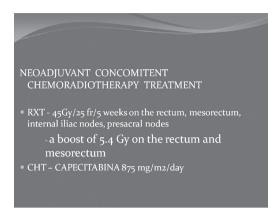


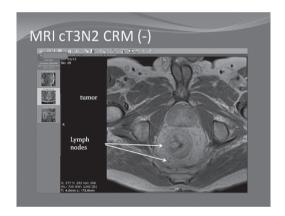






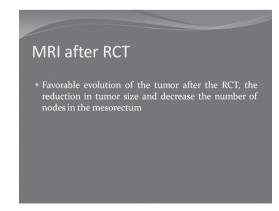
AFTER 7 MONTHS Losing a pound and finding a penny o 02. 2014 – weight loss, rectal bleeding, asthenia

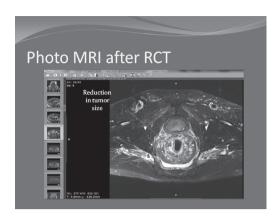


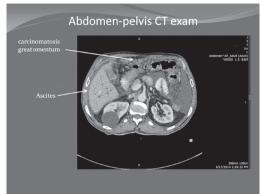


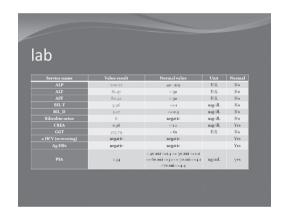


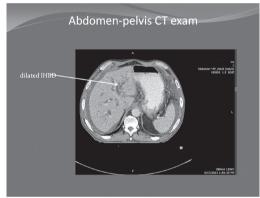
POSITIVE DIAGNOSIS • MUCINOUS ADENOCARCINOMA WITH SIGNET RING CELLS OF THE MIDDLE RECTUM cT3N2M0

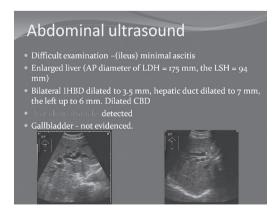


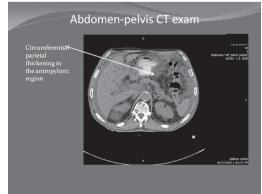










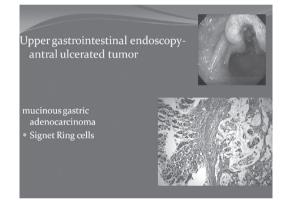


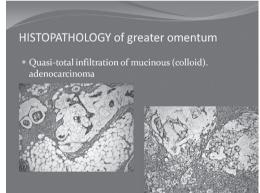
Abdomen-pelvis CT exam

- Dilated intrahepatic bile ducts with amputation of the ducts near the common bile duct due to adenopathy
 Increased thickness of the gastric antrum
- Micronodular aspect of peritoneum suggesting carcinomatosis
 Aortic-cave, latero-aortic multiples adenopathyies
 Medium size ascites

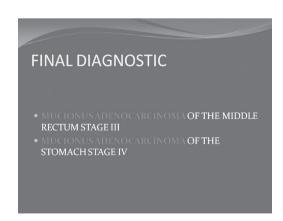
Abdominal surgery

- laparotomyserohematic ascites
- tumor mass in the right upper quadrant, which involves the liver, gastric antrum, angle of the right colon, great omentum





Losing a pound and finding a penny Significant pain in upper abdomen, vomiting, clinical and radiological signs sugesting obstruction



LABORATORY -3 DAYS AFTER **SURGERY**

Nume Serviciu	Valoare Rezultat	Valoare Normala	Unitate de masura	Normal
ALT	49.62	< 50	U/L	Da
	79-99	< 50	U/L	Nu
BIL-T	11.23	<=1	mg/dL	Nu
BIL_D	10.19	<= 0.3	mg/dL	Nu
	92.69	04 - 110	mmol/L	Nu
CREA	7-3	<1.2	mg/dL	Nu
K Na	5.71	37 - 54	mmol/L	Nu
Na	133.18	132 - 146	mmol/L	Da
Urea	254.81	< 71	mg/dL	Nu
Hematocrit	25.7	37 - 51	96	Nu
Hemoglobina {Hb}	8.9	12.6 - 17.4	g/dL	Nu
Numar leucocite	22-54	4-10	mii/µL	Nu
Numar trombocite	450	150 - 450	mii/µL	Da

Gastric mucinous adenocarcinoma

- invasion, more frequent lymph node metastasis, more advanced pathologic stage, more frequent lymphatic invasion and lower disease-specific survival rates than patients who had NMGC
- However, a mucinous histology per se was not identified as an independent prognostic factor.

Cancer 2009;115:3581-90

DISCUSSION -

mucinous adenocarcinoma-facts

- >60% for CRC and >50% for GC of tumor comprises a mucinous pattern upon histological examination
- Signet ring carcinoma: epithelial tumor >50% is made up isolated malignant cells containing intracytoplasmatic mucin
- Mucinous adenocarcinoma of rectum and colon: 10 -20% all colorectal cancers
- American Joint Committee and College of American Pathologist consider not to be a prognostic factor when matched with similar stage and grade (2000)
- NCCN guideline do not describe it that MA histology should influence the therapeutic decision (2014)

Gastric mucinous adenocarcinoma

- Negative mucin 1, cell surface associated (MUC1) status;
 positive mucin 2 (MUC2) status;
- Lower incidence of HER-2 protein over expression, HER-2 gene amplification, and EGFR protein over expression than NMGCs;

DISCUSSION -

mucinous adenocarcinoma-facts however

- Consorti (2000) survival better for non-mucinous
- Mucinous tumors (MT) seems to have different oncogenic and molecular pathways (Zhang H Int J Oncol
- MT have more K-ras, less p 53 mutation, less apoptotic
- Rectal mucinous: ADK poor response to neo-adjuvant chemoradiation (Simha V et al.) Gastrointest Oncology 2014)
 Perez (2012) identify a category of poor responders- not advisable to wait 6 weeks for completion of NACRT to the time of surgery

Gastric metastasis

- Gastric metastasis represents 1,2-1,8% of all gastric cancer (Zhou JJ, Miao XY WJG 2012)
- Majority of gastric metastasis were from breast cancer, melanoma lung cancer

- MUC1 positive in 50% gastric mucinous ADK and 10% of colorectal mucinous C
- MUC6 positive in 50-60% colorectal ADK and 10% gastric mucinous C