

World Journal of *Gastrointestinal Oncology*

World J Gastrointest Oncol 2012 September 15; 4(9): 202-206



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*World Journal of
Gastrointestinal Oncology*

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*World Journal of Gastrointestinal Oncology***ISSN**
ISSN 1948-5204 (online)**LAUNCH DATE**
October 15, 2009**FREQUENCY**
Monthly**EDITING**
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E-mail: bjpgooffice@wjgnet.com
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Multiple solid pancreatic hamartomas: A case report and review of the literature

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Received: January 18, 2012 Revised: July 26, 2012

Accepted: August 17, 2012

Published online: September 15, 2012

Abstract

Non-neoplastic tumor-like lesions in the pancreas are uncommon. Here, we present a case of multiple solid pancreatic hamartomas in a 78-year-old Japanese woman. Her computed tomography revealed a pancreatic mass, measuring 1.8 cm in maximum diameter. However, no symptoms were found. She was not an alcoholic and had no history of pancreatitis. The patient underwent a pancreatoduodenectomy, and three well-demarcated solid nodules measuring 1.7 cm, 0.4 cm, and 0.3 cm in diameter were found in the pancreatic head. Microscopically, the lesions were composed of non-neoplastic, disarranged acinar cells and ducts embedded in a sclerotic stroma with elongated spindle cells that lacked discrete islets. The stromal spindle cells were immunoreactive for CD34 and CD117. The histological diagnosis was multiple solid hamartomas of

the pancreas. There has been no recurrence 30 mo after surgery. So far, 18 cases of pancreatic hamartoma have been reported in the English literature, including our case. Six out of these 18 cases seemed to fit the criteria of solid pancreatic hamartoma. Although the number of cases was limited, solid pancreatic hamartomas seem to be benign tumor-like lesions, which are found incidentally in healthy middle-aged adults, but occasionally involve the whole pancreas, resulting in a poor prognosis. Solid pancreatic hamartoma was sometimes associated with minor pancreatic abnormality, and multiple small lesions other than the main tumors were detected in a small number of cases. From these findings, one may speculate that solid pancreatic hamartoma could be the result of a malformation during the development of the pancreas.

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Key words: Pancreatic tumor; Hamartoma; Multiple; CD117; CD34

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Kawakami F, Shimizu M, Yamaguchi H, Hara S, Matsumoto I, Ku Y, Itoh T. Multiple solid pancreatic hamartomas: A case report and review of the literature. *World J Gastrointest Oncol* 2012; 4(9): 202-206 Available from: URL: <http://www.wjgnet.com/1948-5204/full/v4/i9/202.htm> DOI: <http://dx.doi.org/10.4251/wjgo.v4.i9.202>

INTRODUCTION

Non-neoplastic tumor-like lesions in the pancreas are uncommon and include hamartoma^[1-12]. Mass-forming pancreatitis which is associated with autoimmune pancreatitis, congenital arteriovenous malformation, intra-

pancreatic accessory spleen, and others^[13,14]. Solid pancreatic hamartoma was first reported by Pauser *et al*^[9] to be pancreatic tumors that had features in common with both hamartomas and gastrointestinal stromal tumors. Pancreatic hamartomas are divided into two subgroups: solid and cystic lesion and solid lesion^[9]. Including the cases reported by Pauser *et al*^[9] and Nagata *et al*^[10], only three cases of solitary solid pancreatic hamartoma have been reported in the English literature, and the etiology of hamartoma remains unknown.

Here, we report on a patient with multiple solid pancreatic hamartomas. We also review the cases that were reported as pancreatic hamartomas to reclassify them into the two subgroups described above and summarize the clinicopathological features of solid pancreatic hamartoma.

CASE REPORT

A 78-year-old Japanese woman with no symptoms was found to have a pancreatic mass on computed tomography (CT) at her follow-up for a cyst of the pancreatic head, which had been detected by transabdominal sonography at her yearly health screening 2 years before admission. The mass was located at the tail side of the known cyst, and there was no connection between the two. She was referred to our hospital for further examination. She had a past history of uterine leiomyoma, which had been treated by hysterectomy 30 years earlier. She had been undergoing medical treatment for atrial fibrillation for 5 years. She did not smoke or consume alcohol. She had no history of pancreatitis. Physical examination found no abnormal signs, and laboratory data showed no elevation of tumor markers. Dynamic CT demonstrated a well-circumscribed nodule, measuring 1.8 cm × 1.2 cm, in the head of the pancreas, which showed weak enhancement in the portal venous phase (Figure 1). On magnetic resonance imaging, the nodule had a low signal on T1-weighted images (T1WI) and a high signal on T2WI. However, the pancreatic mass did not show any intense fluorine 18 fluorodeoxyglucose (FDG) by positron emission tomography (PET). The main pancreatic duct showed neither dilatation nor stenosis on endoscopic retrograde pancreatography. She underwent a pancreatoduodenectomy after the preoperative diagnosis of pancreatic cancer. The postoperative course was uneventful. She had no recurrence for 30 mo after surgery.

Macroscopically, a firm, solid mass was noted in the pancreatic head, which was not exposed to the serosal surface of the pancreas. On a cut section, it was a well-demarcated, homogeneously white- to yellow-colored solid nodule, measuring 1.7 cm at the largest diameter (Figure 2A). In addition, two smaller nodules, measuring 0.4 cm and 0.3 cm, which were similar to the main lesion, were observed (Figure 2B). These small nodules were located in the pancreatic tail side of the main lesion. They were not in communication with the pancreatic duct.

Microscopically, the lesions were composed of non-

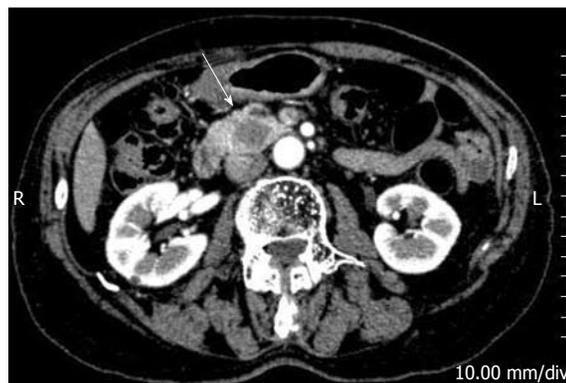


Figure 1 Dynamic computed tomography scan of the abdomen. An arterial-phase image shows a relatively well-circumscribed nodule, measuring 1.8 cm in the pancreatic head (white arrow). R: Right; L: Left.

neoplastic acinar and ductal cells embedded in a hypocellular fibrous stroma with some amount of adipose tissue (Figure 3A). The acinar cells were well-differentiated, but the normal lobular structures were lost at the center of the mass. The ducts were mainly small and lined by cuboidal to columnar epithelium without atypia. These two components were embedded in a sclerotic, hypocellular stroma containing elongated spindle cells without nuclear atypia. Small numbers of lymphocytes and mast cells had infiltrated the stroma. Islets of Langerhans were not evident within the lesion. Immunohistochemically, both acinar cells and ductal cells were positive for epithelial markers (CAM5.2, AE1/AE3 and EMA), and the acinar cells were positive for exocrine markers (amylase and trypsin). The stromal spindle cells were positive for CD34 (Figure 3B) and CD117 but negative for S-100 protein, α -SMA, desmin, and bcl-2. Based on these findings, the histological diagnosis of multiple solid hamartomas of the pancreas was made.

Pancreatic intraepithelial neoplasia 1B (PanIN-1B) was observed in the adjacent normal pancreatic tissue. The known cyst at the uncinus process of the pancreas was a retention cyst measuring 1.4 cm in the largest diameter histologically.

DISCUSSION

The term hamartoma refers to an excessive, focal overgrowth of cells and tissues native to the organ in which it occurs^[15]. Each component consists of mature well-differentiated cells without atypia. Thus, hamartoma seems to be a malformation rather than a true neoplasm. To our knowledge, 17 cases of pancreatic hamartoma have been reported so far in the English literature, and the present case is the 18th^[11-12]. In 2005, Pauser *et al*^[9] divided pancreatic hamartomas into two subgroups: solid and cystic lesions and solid lesions, and the authors reported two cases of solid hamartoma of the pancreas as a cellular hamartoma resembling a gastrointestinal stromal tumor. They described the main features of the tumors as focally exocrine and endocrine tissue elements

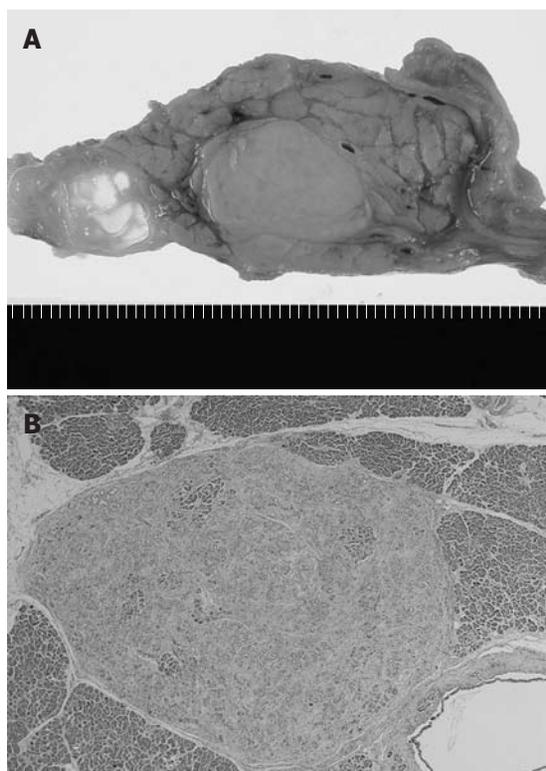


Figure 2 Macroscopic and loupe slide images of the tumors. A: On a cut section, the tumor is a well-demarcated, white- to yellow-colored solid nodule, measuring 1.7 cm; B: One of two small nodules measuring 0.3 cm is observed on the loupe slide (HE stain, 20x).

with stromal cells with coexpression of CD34, CD117, and bcl-2^[9].

When we reviewed the cases reported as pancreatic hamartomas to reclassify them into two subgroups and identify the solid pancreatic hamartomas among them, we excluded the cases with evidence of chronic pancreatitis, according to the criteria of pancreatic hamartoma, because chronic pancreatitis with depletion of acinar cells in the fibrous stroma mimicked hamartomas lacking acinar cells in Pauser *et al*^[9] and Nagata *et al*^[10]. Especially for multiple mass-forming lesions of the pancreas, we should consider the possible diagnosis of chronic alcoholic pancreatitis (CAP) and pancreatitis of unknown etiology more carefully than for solitary mass lesions because the fibrosis of CAP and pancreatitis of unknown etiology have been shown to be dense in the interlobular or perilobular areas, not uniformly distributed, and having multinodular cirrhosis-like appearances^[16]. In the present case, minimal infiltration of lymphocytes and mast cells was noted in the sclerotic stroma. In addition, the islets of Langerhans, usually preserved in the case of chronic pancreatitis, were completely lost within the lesion. Neither squamous metaplasia of the ductal epithelium nor pancreatic lithiasis was observed. Only PanIN-1B was observed in the adjacent normal pancreatic tissue. The only other differential diagnosis of multiple mass-forming lesions of the pancreas is a patchy type of fibrosis of the pancreas in aged non-alcoholics^[17] because the atrophic acini with fibrosis may mimic hamar-

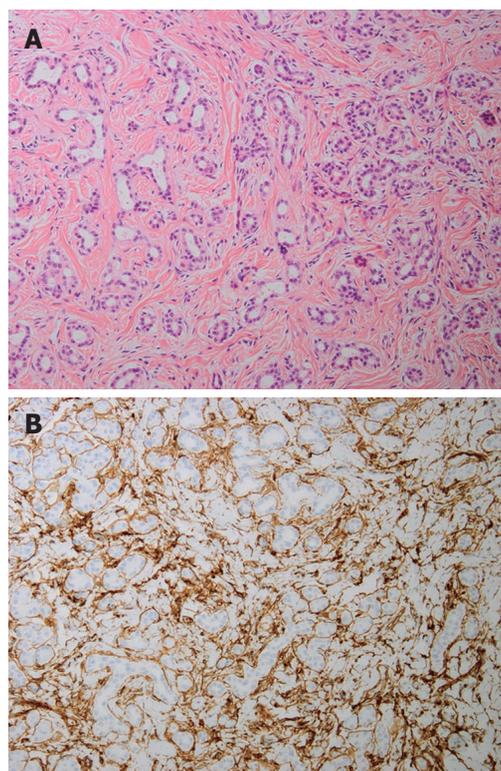


Figure 3 Microscopic images of the tumors. A: The lesion is composed of non-neoplastic acinar and ductal cells embedded in hypocellular fibrous stroma (HE stain, 100 x); B: Immunohistochemically, stromal spindle cells are positive for CD34 (100 x).

toma. However, islets of Langerhans are also preserved in such cases.

Of the 17 cases of pancreatic hamartoma, 5 cases seemed to fit the criteria of solid pancreatic hamartoma^[1,3,9,10]. In 1977, Anthony *et al.* reported three cases of pseudotumors of the pancreas. One of them, taken from a 46-year-old man, showed a well-defined ovoid mass, 1.6 cm in the largest diameter, consisting of lobulated connective tissue enclosing irregular, branching pancreatic ducts, acinar tissue, and islet cells in a disorderly arrangement without evidence of pancreatitis. In addition, a few tiny nodules of similar appearance in the other areas of the pancreas were also noted^[1]. In 1983, Burt *et al.* reported a solid pancreatic hamartoma in a premature infant with hypoglycemia and hypocalcemia. Her entire pancreas consisted of ductal elements with a minority of islets and acinar components, which were surrounded by delicate bands of connective tissue fibers^[3]. Three other cases of solid pancreatic hamartomas, reported by Pauser *et al.* in 2005 and by Nagata *et al.* in 2007, showed histologically well-circumscribed lesions composed of non-neoplastic acinar and ductal cells embedded in a fibrous stroma and lacking islets, which was the same histology as that in our case.

Table 1 shows the clinical features of the reported cases of solid hamartoma of the pancreas, which includes our case. The median age of the patients was 52.5 years (range 0-78 years). Four patients were asymptomatic, whereas the remaining two had slight abdominal

Table 1 Clinicopathological features of reported solid pancreatic hamartomas

Case	Sex	Age (yr)	Symptom	Location	Operation	Size (cm)	Pathology	Outcome	Ref.
1	Male	46	-	Head	PD	1.6, a few tiny nodules	Solid hamartoma, multiple	Unknown	[1]
2	Female	0	+	Entire pancreas	TP	11.5	Solid hamartoma, diffuse	Died 3 mo later	[3]
3	Male	51	-	Tail	LR	3	Solid hamartoma, solitary	Alive and well at 2 yr	[9]
4	Female	54	+	Body	DP	2	Solid hamartoma, solitary	Alive and well at 4 yr	[9]
5	Female	58	-	Body	DP	1.9	Solid hamartoma, solitary	Alive and well at 4 mo	[10]
6	Female	78	-	Head	PD	1.7, 0.4, 0.3	Solid hamartoma, multiple	Alive and well at 20 mo	Present case

PD: Pancreatoduodenectomy; TP: Total pancreatectomy; LR: Local resection; DP: Distal pancreatectomy.

Table 2 Pathological findings of reported solid pancreatic hamartomas

Case	Acini	Ducts	Islets	CD34	CD117	bcl-2	Ref.
1	Yes	Yes	Yes	ND	ND	ND	[1]
2	Yes	Yes	Yes	ND	ND	ND	[3]
3	Yes	Yes	No	+	+	+	[9]
4	Yes	Yes	No	+	+	+	[9]
5	Yes	Yes	No	+	+	-	[10]
6	Yes	Yes	No	+	+	-	Present case

ND: Not done.

discomfort^[9] and hypoglycemia and hypocalcemia^[3], respectively. The median size of the main tumor was 2.0 cm (range 1.6-11.5 cm). Two cases, including our case, revealed one index tumor with multiple tiny lesions^[1]. Regarding the outcome, all of the patients except one^[3] were alive and well during the entire duration of their follow-up periods. The one remaining patient experienced a prolonged postoperative complication related to metabolic problems, hepatic dysfunction and pulmonary disease and died 3 mo after the operation^[3]. Clinical imaging detailing findings of pancreatic hamartoma was described in 2 cases including our case. Solid pancreatic hamartoma showed some degree of enhancement in the delayed phase in both cases^[10]. In addition, the FDG-PET image did not show intense uptake in the tumor of our case. Based on the imaging findings, endocrine tumor of the pancreas might be the differential diagnosis, as well as pancreatic cancer.

Table 2 summarizes the histological features of solid pancreatic hamartoma. Histologically, all six cases showed well-circumscribed solid lesions composed of non-neoplastic acinar and ductal cells embedded in a fibrous stroma. Four cases lacked islets^[9,10]. In contrast with pancreatic solid and cystic hamartoma, the tumors did not show macroscopic cystic change even in a focal area^[1,3,9,10] and showed a characteristic spindle cell stroma with an immunohistochemical coexpression of CD34 and CD117^[9,10].

Although the number of cases is limited, solid pancreatic hamartomas seem to be benign tumor-like lesions, which are found incidentally in healthy middle-aged adults but occasionally involve the whole pancreas, leading to a poor prognosis. One case was associated with other minor pancreatic abnormalities, namely pan-

creas divisum^[10]. Multiple small lesions other than the main tumors were detected in two cases^[1]. From these findings, one may speculate that solid pancreatic hamartoma could be the result of a malformation during the development of the pancreas.

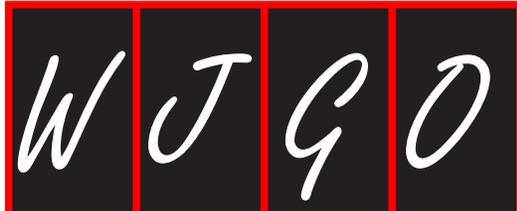
CD34, a myeloid stem cell marker, is known to be expressed by fibrocytes in neoplastic and inflammatory pancreatic lesions^[18]. It seems to play an important role in maintaining stromal integrity and inhibiting tumor cell migration^[19]. CD117, a transmembrane tyrosine kinase receptor of stem cell factor, is encoded by the proto-oncogene *c-kit*. The interaction between the kinase receptor and its ligand is essential for the development of several non-epithelial cells^[20-24]. Although the precise etiology remains unknown, the presence of CD34- and CD117-positive stromal cells may involve the pathogenesis of solid pancreatic hamartoma.

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Acknowledgments to reviewers of *World Journal of Gastrointestinal Oncology*

We acknowledge our sincere thanks to our reviewers. Many reviewers have contributed their expertise and time to the peer review, a critical process to ensure the quality of our World Series Journals. Both the editors of the journals and authors of the manuscripts submitted to the journals are grateful to the following reviewers for reviewing the articles (either published or rejected) over the past period of time.

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 Advances Update
 Steamboat Springs,
 CO, United States

January 19-21, 2012
 EASL Monothematic Conference:
 IMLI - Immune Mediated Liver
 Injury
 Birmingham, United Kingdom

January 19-21, 2012
 American Society of Clinical
 Oncology 2012 Gastrointestinal
 Cancers Symposium
 San Francisco, CA, United States

January 19-21, 2012
 2012 Gastrointestinal Cancers
 Symposium
 San Francisco, CA, United States

January 20-21, 2012
 American Gastroenterological
 Association Clinical Congress of
 Gastroenterology and Hepatology
 Miami Beach, FL, United States

February 2-4, 2012
 2012 Genitourinary Cancers
 Symposium
 San Francisco, CA, United States

February 6-8, 2012
 Pediatric Cancer Translational
 Genomics
 Phoenix, AZ, United States

February 8-10, 2012
 The 84th Annual Meeting of Japanese
 Gastric Cancer Association
 Osaka, Japan

February 10-11, 2012
 Cancer Survivorship for Clinicians
 Seattle, WA, United States

February 14-17, 2012
 ASCO Multidisciplinary Cancer
 Management Course
 Eldoret, Kenya

February 20-24, 2012
 Word Conference on Colorectal
 Cancer
 FL, United States

February 22-23, 2012
 National Cancer Institute Annual
 Biospecimen Research Network
 Symposium: "Advancing Cancer
 Research Through Biospecimen
 Science"
 Bethesda, MD, United States

February 22-25, 2012
 30th German Cancer Congress
 Berlin, Germany

February 24, 2012
 ASCO-German Cancer Society
 Joint Symposium, German Cancer
 Congress
 Berlin, Germany

February 24-27, 2012
 Canadian Digestive Diseases Week
 2012
 Montreal, Canada

March 7-8, 2012
 First International Gulf Joint
 Conference: Management of colon,
 breast, and lung cancer (Joint
 Symposium)
 Dammam, Saudi Arabia

March 9-10, 2012
 ESMO Conference on Sarcoma and
 GIST
 Milan, Italy

March 10-11, 2012
 Colorectal Polyps and Cancers: A
 Multidisciplinary Approach
 Scottsdale, AZ, United States

March 17-21, 2012
 Methods in Cancer Research
 Workshop (Advanced Cancer
 Course)
 Al Asha, Saudi Arabia

March 22-24, 2012
 The 1st St.Gallen EORTC
 Gastrointestinal Cancer Conference
 St.Gallen, Switzerland

April 13-15, 2012
 Asian Oncology Summit 2012
 Singapore, Singapore

April 15-17, 2012
 European Multidisciplinary
 Colorectal Cancer Congress 2012
 Prague, Czech

April 18-20, 2012
 The International Liver Congress
 2012
 Barcelona, Spain

April 19-21, 2012
 Internal Medicine 2012
 New Orleans, LA, United States

April 20-21, 2012
 OOTR 8th Annual Conference -
 Organisation for Oncology and
 Translational Research
 Kyoto, Japan

April 28, 2012
 Issues in Pediatric Oncology
 Kiev, Ukraine

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 Digestive Disease Week 2012
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 Pancreatic Cancer: Progress and
 Challenges
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 ESMO 14th World Congress on

Gastrointestinal Cancer 2012
 International Convention Center Of
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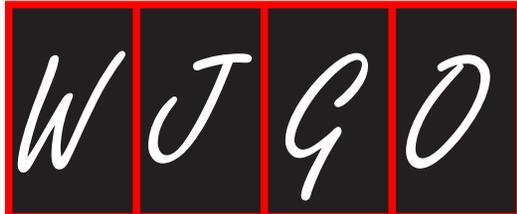
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 of the International Liver Cancer
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September 21-22, 2012
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 Venice, Italy

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Name of journal

World Journal of Gastrointestinal Oncology

ISSN

ISSN 1948-5204 (online)

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- 3 **Tian D**, Araki H, Stahl E, Bergelson J, Kreitman M. Signature of balancing selection in Arabidopsis. *Proc Natl Acad Sci USA* 2006; In press

Organization as author

- 4 **Diabetes Prevention Program Research Group**. Hypertension, insulin, and proinsulin in participants with impaired glu-

cose tolerance. *Hypertension* 2002; **40**: 679-686 [PMID: 12411462 PMID:2516377 DOI:10.1161/01.HYP.0000035706.28494.09]

Both personal authors and an organization as author

- 5 **Vallancien G**, Emberton M, Harving N, van Moorselaar RJ; Alf-One Study Group. Sexual dysfunction in 1, 274 European men suffering from lower urinary tract symptoms. *J Urol* 2003; **169**: 2257-2261 [PMID: 12771764 DOI:10.1097/01.ju.0000067940.76090.73]

No author given

- 6 21st century heart solution may have a sting in the tail. *BMJ* 2002; **325**: 184 [PMID: 12142303 DOI:10.1136/bmj.325.7357.184]

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- 7 **Geraud G**, Spierings EL, Keywood C. Tolerability and safety of frovatriptan with short- and long-term use for treatment of migraine and in comparison with sumatriptan. *Headache* 2002; **42** Suppl 2: S93-99 [PMID: 12028325 DOI:10.1046/j.1526-4610.42.s2.7.x]

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No volume or issue

- 9 Outreach: Bringing HIV-positive individuals into care. *HRS-A Careaction* 2002; 1-6 [PMID: 12154804]

Books

Personal author(s)

- 10 **Sherlock S**, Dooley J. Diseases of the liver and biliary system. 9th ed. Oxford: Blackwell Sci Pub, 1993: 258-296

Chapter in a book (list all authors)

- 11 **Lam SK**. Academic investigator's perspectives of medical treatment for peptic ulcer. In: Swabb EA, Azabo S. Ulcer disease: investigation and basis for therapy. New York: Marcel Dekker, 1991: 431-450

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- 12 **Breedlove GK**, Schorfheide AM. Adolescent pregnancy. 2nd ed. Wiczorek RR, editor. White Plains (NY): March of Dimes Education Services, 2001: 20-34

Conference proceedings

- 13 **Harnden P**, Joffe JK, Jones WG, editors. Germ cell tumours V. Proceedings of the 5th Germ cell tumours Conference; 2001 Sep 13-15; Leeds, UK. New York: Springer, 2002: 30-56

Conference paper

- 14 **Christensen S**, Oppacher F. An analysis of Koza's computational effort statistic for genetic programming. In: Foster JA, Lutton E, Miller J, Ryan C, Tettamanzi AG, editors. Genetic programming. EuroGP 2002: Proceedings of the 5th European Conference on Genetic Programming; 2002 Apr 3-5; Kinsdale, Ireland. Berlin: Springer, 2002: 182-191

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- 15 Morse SS. Factors in the emergence of infectious diseases. *Emerg Infect Dis* serial online, 1995-01-03, cited 1996-06-05; 1(1): 24 screens. Available from: URL: <http://www.cdc.gov/ncidod/eid/index.htm>

Patent (list all authors)

- 16 **Pagedas AC**, inventor; Ancel Surgical R&D Inc., assignee. Flexible endoscopic grasping and cutting device and positioning tool assembly. United States patent US 20020103498. 2002 Aug 1

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Write as mean \pm SD or mean \pm SE.

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