高 等 医 药 院 校 教 材

临床医学双语教材

外科学 麻醉学 妇产科学 眼科学 耳鼻咽喉科学



临床医学双语教材

外科学麻醉学 妇产科学 眼科学 耳鼻咽喉科学

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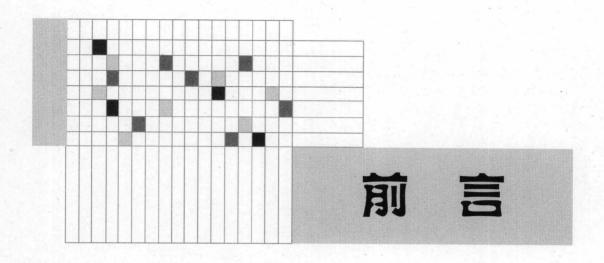
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随着高等教育步伐的加快,双语教学日益成为培养国际化人才的重要手段,临床医学教育是医学院校的主体,其双语教学的开展和应用是高校办学水平的标志。为此我们组织一批有着丰富临床医学教育经验的归国留学教师,共同编写这本实用性较强的双语教材,为推进高等临床医学双语教学的教材建设尽微薄之力。

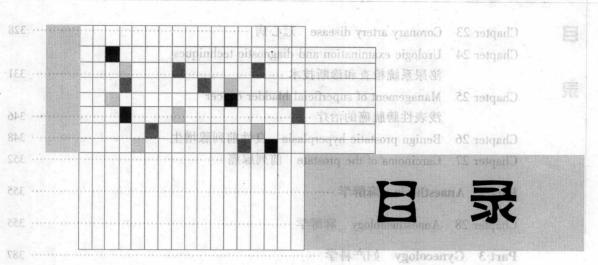
本书分为外科学、麻醉学、妇产科学、眼科学、耳鼻咽喉科学五大部分,外科学共分五节,涉及普外、血管乳腺、骨科、胸科、泌尿等五个系统。内容均以原版英文教材为基础,重点选择了常见病、多发病和易理解的疾病进行编写,难易适中,便于学生学习和理解,可用于五年制、七年制医学生临床教学使用。

由于水平有限,书中错误之处,敬请读者指正。

编者

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Abdominal trauma Chapter 1

The abdomen is frequently injured after both blunt and penetrating trauma. Approximately 25% of 部。约 25%的伤者需要开腹探查。 all trauma victims will require an abdominal 仅通过腹部体格检查确定有无腹 exploration. The clinical evaluation of the abdomen 腔内损伤是不充分的。因为有相当 by means of physical examination is inadequate to 一部分病人由于头部损伤、醉酒或 identify intra-abdominal injuries. This is due to the 服用药物而伴有意识障碍,此外盆 high number of patients with altered mental status 腔脏器伤上腹部损伤以及腹膜后 secondary to head trauma, alcohol, or drugs and 脏器损伤难于用触诊的方法确诊。 because of the inaccessibility of the pelvic, upper 因此在过去 30 年发展了一些诊断 abdominal, and retroperitoneal organs to palpation. 一方法,包括诊断性腹腔盥洗、超声、 For these reasons, several diagnostic modalities CT 和腹腔镜,所有这些方法既有 evolved during the past three decades, including 优点也有缺点和局限性。 diagnostic peritoneal lavage, ultrasound, CT, and worse base slews self at emind between the laparoscopy, all of them with advantages, disadvantages, and limitations.

生儿费和他互任新由率

Mechanism of injury

Blunt trauma secondary to motor vehicle 由于机动车事故、摩托车事 accidents, motorcycle accidents, falls, assaults, and 故、坠落伤、袭击伤和行人撞击伤 pedestrians struck remain the most frequent

钝性及穿通性损伤常伤及腹

al bleeding will present in a 一、损伤机制

新加州的所致的钝性伤仍然是腹部损伤最

7 H 昌

mechanisms of abdominal injury. Penetrating abdominal wounds are usually caused by either gunshot or stab wounds and by a significantly smaller number of shotgun wounds.

Based on the high frequency of intra-abdominal organ injury after gunshot wounds, mandatory abdominal exploration, with rare exceptions, remains the standard form of management. Stab wounds to the abdomen, however, carry a significantly lower risk of intraabdominal organ injury when compared with gunshot wounds, and recently several studies have favored a more selective approach, as opposed to mandatory exploratory laparotomy.

In children, besides the previously mentioned mechanisms of injury, child abuse and trauma secondary to recreational activities, such as bicycling, swimming, and roller skating, should also be considered.

Diagnosis

The history of the traumatic event is particularly 受伤病史在确定有无腹腔内 important in determining the likelihood of an intra- 脏损伤时非常重要。应尽可能获得 abdominal organ injury. All possible information 人院前病人的情况,包括受伤机 should be obtained from the prehospital personnel, 制、坠落高度、机动车事故中是在 including mechanism of injury, height of a fall, a sub a 车内还是车外、事故现场其他伤者 damage to the interior and exterior of a vehicle in a small 的死亡情况、排泄物、生命体征、精 motor vehicle accident, other deaths at the accident 神状态、外出血情况以及武器的类 scene, ejection, vital signs, mental status, presence of 型等信息。 external bleeding, type of weapon, and so on, notized an of energy lands of en

On arrival to the hospital, history and physical 病人到达医院后,对清醒及反 examination are usually accurate in determining 应正常的病例,病史及体格检查常 intra-abdominal injury in the awake and responsive L. 是确定腹腔内脏损伤较准确的方 patient, although the limitations of the physical examination are significant. Many patients with moderate intra-abdominal bleeding will present in a compensated hemodynamic condition and will not have peritoneal signs. Furthermore, retroperitoneal 仅通过体格检查予以除外。我们认 and pelvic injuries cannot be ruled out based only on 为客观的腹部检查评价是必要的 physical findings. We consider that an objective

常见的受伤机制。腹部贯通伤常由 枪弹伤或刀刺伤引起,极少数是猎 枪至损伤。

由于枪弹伤发牛腹腔内脏损 伤的几率高,必须行剖腹探查,除 极个别情况外,手术探查仍然是标 准的治疗方式。与枪弹伤相比,腹 部刀刺伤发生腹腔内脏损伤的危 险非常低,近来一些研究更趋于有 选择性手术探查而反对必须进行 剖腹探查。

在儿童, 除上述受伤机制外, 虐待儿童和娱乐活动中受伤,如骑 车、游泳、四轮鞋滑冰也是导致腹 部损伤的原因。

The abdomen is requently injured after both

法,尽管其有局限性。许多有中度 腹腔内出血的病例血流动力学有 一定的代偿,可能并无腹膜炎体 征。此外,腹膜后和骨盆损伤不能 并应通过各种可能的诊断方法获 abdominal evaluation is necessary and should be 得体格检查以外的资料。检查方法 obtained by utilizing any of the available diagnostic 的选择有赖于病人的血流动力学 modalities in addition to the physical examination. 稳定及损伤的严重程度。 The test of choice will depend on the hemodynamic works on leg to will be said and makes while stability of the patient and the severity of associated of vivuliance beautiful and it tadd bebulances pelvic fractures compared with CT. Stable patients 雙部和骨盆 CT 检查者不必.esiruini

Hemodynamically stable patients sustaining 在获得腹部损伤客观资料前。 blunt trauma are adequately evaluated by an 除非有其它更严重损伤需先行手 severe injuries take priority and the patient needs to 应行超声学或 CT 检查。在这些有 go to the operating room before the objective 如 如 如 其它严重损伤的病人可在手术室 abdominal evaluation. In such instances, a diagnostic peritoneal lavage is usually performed in the 剖腹探查的腹内损伤。 accurately identify patients at high risk for pe vrujni lanimobda-artni tuo dur on moor gnitarao requiring an immediate surgical exploration.

Blunt trauma patients with hemodynamic instability should be evaluated by ultrasound in the 应在抢救室行超声学检查,或行腹 resuscitation room, if available, or by peritoneal 腔盥洗以除外腹腔内脏损伤导致 lavage to rule out intra-abdominal injuries as the 的失血或低血压。 source of blood loss and hypotension.

Patients with isolated penetrating abdominal 对单纯腹部贯通伤有低血压、 trauma who are admitted hypotensive, in shock, or 体克或腹膜刺激征者不论受伤机 with peritoneal signs should go to the operating room 制如何应先手术治疗。无腹膜刺 despite the mechanism of injury. Stab wound victims 激征、内脏脱出或低血压的刀刺 without peritoneal signs, evisceration, or hypotension 伤病人行伤道探查或腹腔盥洗有 benefit from wound exploration and peritoneal lavage. 助于诊断。枪弹伤者一般需行伤道 Gunshot wound victims generally should undergo 探查。探查。 exploration of the wound.

Plain radiographs

The chest radiograph is a useful test to reveal 胸部 X 线检查有助于发现腹 pneumoperitoneum, abdominal contents in the chest (ruptured hemidiaphragm), or lower rib fractures. 膈肌破裂)或低位肋骨骨折。如有 Fractures increase the probability of splenic and 低位肋骨骨折可能导致脾脏和肝 hepatic injuries.

An intravenous pyelography and a retrograde 对有血尿的外伤病例静脉肾 cystogram are useful tests in the evaluation of a 盂造影及逆行膀胱造影是一有价 trauma patient with hematuria. 值的诊断方法。

With the current frequent use of CT to objectively 在病情稳定的腹部钝性伤病 evaluate the abdomen after blunt trauma in stable 人现在常用 CT 客观评价腹部情

行腹腔诊断性盥洗以除外需立即

对血流动力学不稳定的病员

腔积气,腹腔内容进入胸腔(一侧 retroperitoneal hematomas a 伪加 pancreatic.

9人

3

4

patients, the use of routine anteroposterior pelvic 况,在进一步损伤救治程序中推荐 radiographs, as recommended by the advanced trauma 使用骨盆前后位 X 线检查的建议 life support course, has been questioned. One recent 值得怀疑。最近一项研究显示与 study examining the utility of pelvic radiography CT 检查相比较 X 线检查骨盆骨折 concluded that it has limited sensitivity for detecting 的敏感性有限。病情稳定的病人行 pelvic fractures compared with CT. Stable patients undergoing CT of the abdomen and pelvis do not a 盆 X 线检查。然而在病情不稳定需 need a pelvic radiograph. Unstable patients, however, 确定有无骨盆骨折的病人,适于行 may continue to benefit from a pelvic radiograph 骨盆 X 线检查。 because other priorities may take place that will an insurance and bus virious asks samulai energies require prompt diagnosis of a pelvic fracture in the vipseido ad eroled moor gardenedo ed ot or trauma resuscitation room. In such instances, a diagnostic

Other studies suggest that clinical factors could 其它研究显示,临床资料能准 accurately identify patients at high risk for pelvic 确判断有骨盆骨折高危因素的病 fractures, making routine films unnecessary.

Diagnostic peritoneal lavage

Diagnostic peritoneal lavage is a rapid and 对纯性损伤后低血压或无反 accurate test used to identify intra-abdominal injuries 应能力又无开腹探查指征的病 after blunt trauma in the hypotensive or unresponsive 员,诊断性腹腔盥洗是一快速准 patient without obvious indication for abdominal exploration. Standard criteria for a positive peritoneal 诊断标准是:引流全血至少 lavage include aspiration of at least 10mL of gross 10mL、灌出液呈血性、红细胞计数 blood, a bloody lavage effluent, a red blood cell count 大于 100 000/mm³, 白细胞计数大 greater than 100 000/mm³, a white blood cell count 于 500/mm³, 淀粉酶大于 175IU/dL greater than 500/mm³, an amylase value greater than 或检测到胆汁、细菌或食物纤维。 175IU/dL, or the detection of bile, bacteria, or food 腹腔盥洗对诊断腹腔内出血敏感 fibers. This test is highly sensitive to the presence of 性高,但特异性低,因盥洗阳性病 intraperitoneal blood; however, specificity is low and because a positive test prompts surgical exploration, a significant number of explorations will be nontherapeutic.

Significant injuries also may be missed by 在严重损伤者,诊断性腹腔盥 diagnostic peritoneal lavage. Diaphragmatic tears, 洗亦可造成漏诊。膈肌撕裂、后腹 retroperitoneal hematomas, and renal, pancreatic, duodenal, minor intestinal, and extraperitoneal 肠及腹膜外膀胱损伤常会漏诊。腹 bladder injuries are frequently underdiagnosed by 腔盥洗并发症较少,多与置管时医 peritoneal lavage alone. Complications are infrequent and are mostly related to iatrogenic injuries caused 法可避免或减少并发症的发生。 during insertion of the catheter into the abdominal meanurer third refle nemelods and enables

腹部和骨盆 CT 检查者不必再行骨

人,无需常规 X 线检查。

确的诊断方法。腹腔盥洗阳性的 人需手术探查而导致相当一部分 病例为非治疗性探查。

膜血肿、肾脏、胰腺、十二指肠、小 源性损伤有关。半切开或切开置管

cavity. A semi-open or open technique should be the usual berimper anon but a smooth begradually preferred method to avoid or reduce the incidence of the delignment of the preferred method to avoid or reduce the incidence of the delignment of the preferred method to avoid or reduce the incidence of the delignment of the preferred method to avoid or reduce the incidence of the delignment of the preferred method to avoid or reduce the incidence of the delignment of the preferred method to avoid or reduce the incidence of the delignment o such complications. 科月末 文獻态

Diagnostic peritoneal lavage results can be in language 在有骨盆骨折的病例,诊断性 misleading in the presence of a pelvic fracture. 腹腔盥洗可能误导医生。腹膜后出 False-positive results are expected owing to bleeding b血流入腹腔可至假阳性结果。 from the retroperitoneum into the peritoneal cavity. Alosid visits ad ano abnuow data gninistaus

Anterior abdominal and flank wounds can be 腹腔盥洗可准确诊断前腹部 accurately evaluated by peritoneal lavage. False- 和侧腹部损伤。假阳性结果多由于 owing to bleeding of the abdominal wall, thus 网络探查的比例。腹腔盥洗另一不 increasing the number of negative explorations. Another potential disadvantage of peritoneal lavage is the low accuracy in the diagnosis of hollow viscus 盥洗最恰当的阳性标准进行手术 injuries. Debate still exists regarding the most 探查仍有争议。如果在红细胞计数 appropriate positive criteria to determine the 1 000/mm³ 水平探查、则阴性探查 threshold for surgical exploration after a stab wound 率为 20%。如在 100 000/mm³ 水平 to the abdomen. If a red blood cell count of 1 000/ 探查, 损伤漏诊率为 5%。虽然多数 mm³ is considered, the number of negative explorations 创伤中心采用更低的手术探查标准 may be above 20%. If a count of 100 000/mm³ is (红细胞计数在 1 000~5 000/mm³), considered, the missed injury rate will approach 5%. 但目前仍无一致标准。 There is no consensus on this matter, although most and a second or its for all tends, revewed trauma centers use a low threshold (cell count between notational and ni beau ed may semidam 1 000 and 5 000/mm³) for exploration.

Diagnosis of abdominal penetration in anterior 诊断性腹腔盥洗已用于评估前 abdominal stab wounds has been evaluated by 腹壁刀刺伤所致的贯通伤病人,并 diagnostic peritoneal lavage in an attempt to 确定哪些病例可离开急诊室。体格 determine who should potentially be discharged from 检查正常且血流动力学稳定的病例 the emergency department. Hemodynamically stable 可纳入此研究并行腹腔盥洗。如果盥 patients with normal physical examination were 洗液中红细胞计数超过1 000/mm³, entered in the study and evaluated with closed peritoneal lavage. If the red blood cell count in the 无腹部触痛的内脏脱出病人可在急 lavage fluid was greater than 1 000/mm³, patients 诊室还纳内脏并观察。44 例腹腔盥 were admitted for observation. Hemodynamically 洗液红细胞计数小于 1 000/mm³ 的 stable patients with evisceration but without abdominal tenderness had the viscera reduced to the 手术探查亦无并发症。38 例病人因 peritoneal cavity in the emergency department and 红细胞计数大于 1 000/mm³ 而留院 they were admitted for observation. In 44 patients the 观察。8 人出现腹膜刺激征并行剖 red cell count was less than 1 000/mm³,34 were 腹探查,其中 5 人为阳性探查。作

足之处是在诊断空腔脏器损伤时 准确性差。在刀刺伤后是否按腹腔

病人应留院观察。血流动力学稳定但 病人中34例离院回家,并且无需

discharged home; and none required laparotomy or and 者认为如果刀刺伤病人红细胞计 developed complications. Thirty-eight patients were 数少于 1 000/mm³, 血流动力学状 observed because of a red blood cell count greater than 1 000/mm3. Eight developed peritoneal signs 查的明确指征,则病人可以离院回 and underwent exploratory laparotomy, which was word 家。这种方法有待进一步验证。 positive in five. The authors concluded that patients a guivo betoegge are attract evidence of the patients of sustaining stab wounds can be safely discharged so be notined and out in muentine out and another stab wounds. home if the red blood cell count is less than 1 000/ shows shall be laring bla rought. mm³, provided that they are hemodynamically stable ... as a large of the state of and have no clear indication, based on physical examination, for operative intervention. This approach they be imposed and to gribe ald of gribe needs further validation.

Ultrasound has been used more frequently in 近年来在美国超声已更多用 recent years in the United States for evaluation of the 于腹部钝性损伤的检查。超声诊断 patient with blunt abdominal trauma. The objective of 的客观依据是发现腹腔内游离液 intraperitoneal fluid. It can be done expeditiously, 腹腔盥洗准确度相当。如果发现有 and it is as accurate as diagnostic peritoneal lavage 游离液体还可检查肝脏和脾脏,但 to detect hemoperitoneum. It can also evaluate the 这不是超声检查的主要目的。便携 liver and the spleen once free fluid is identified, 式超声仪可在抢救地或急诊室对 however, that is not its main purpose. Portable 血流动力学不稳定的病人进行检 machines can be used in the resuscitation area or in 查面不影响复苏。与腹腔盥洗相 the emergency department in the hemodynamically unstable patient without delaying the resuscitation. 性。超声检查阴性病情稳定的病人 Another advantage of ultrasound over peritoneal lavage 不需进一步检查。CT 常用于超声 is its noninvasiveness. No further work-up is necessary 检查阳性病情稳定的病人。CT 检 after a negative ultrasound in a stable patient. CT of 查敏感性为 85%~99%, 特异性为 the abdomen usually follows a positive ultrasound in 97%~100% a stable patient. The sensitivity ranges from 85% to modern make hope the monthly stable patient. 99%, and the specificity from 97% to 100%.

The use of ultrasound for the evaluation of 超声评价腹部贯通伤仅有有 in limited, small series. Recently, a prospective study 瞻性研究已开始评价超声检查在 was carried out to evaluate the usefulness of ultrasound as a screening test in penetrating trauma 同样在腹部钝性损伤中进行。总体 to the same extent it is used in blunt trauma. The 上超声检查的敏感性为 46%、特异 study included stab as well as gunshot wounds. The 性为94%。此研究显示,超声检查 overall sensitivity of ultrasound was 46% and the 在贯通伤诊断中不如其在钝性伤

态稳定,并且体格检查又无手术探

increasing the number of negative explorations.

比,超声检查的另一优点是无创

贯通伤筛查中的作用,类似研究也

specificity was 94%. This study shows that 中可靠。如果超声检查阳性,病人 ultrasound in penetrating trauma is not as reliable as 应手术治疗。如为阴性则需进一步 it is in blunt trauma. If ultrasound is positive, the sound 检查。and in almost an insurance and it is in blunt trauma. patient should be operated on. If it is negative, Issuedines of bloom NCA assences to visitely a further studies should be performed.

Abdominal CT

CT is the most frequently used method to CT 检查常用于病情稳定的腹 trauma. The retroperitoneum is best evaluated by CT. The drawback of CT is that the patient needs to be 点是病人需转运至放射科,与其它 transported to the radiology department, and it is 检查相比 CT 检查费用较高。CT 也 expensive compared with other tests. CT also 用于实质性脏器损伤的检查,超声 evaluates solid organ injury, and in the stable patient 检查阳性且病情稳定的病例应行 with a positive ultrasound it is indicated to grade CT 检查确定脏器损伤的程度并确 organ injury and to evaluate contrast medium 定有无造影剂溢出。如果发现有造 extravasation. If contrast medium extravasation is 影剂溢出,即使是小的肝脏或脾脏 seen, even in minor hepatic or splenic injuries, an 损伤也应行剖腹探查或行血管告 exploratory laparotomy or, more recently, angiography and embolization are indicated. Another indication for CT is in the evaluation of patients with solid 非手术治疗红细胞压级下降者。CT organ injuries initially treated nonoperatively who 检查最大的缺点是不能有效诊断 present with a falling hematocrit. The most important 空腔脏器损伤。一般如 CT 检查发 disadvantage of CT is its inability to reliably diagnose 现腹腔有游离液体但无实质性脏 hollow viscus injury. Usually, the presence of free abdominal fluid on CT without solid organ injury should raise the suspicion of mesenteric, intestinal, or an add, massaudiae laiting and adjaced bladder injury, and an exploratory laparotomy is often drive inside and in vigoscorned of some all

One of the most intriguing problems regarding 令医生困惑的是如何处理 CT the objective evaluation of blunt abdominal trauma 检查腹腔有游离液体但无实质性 by CT is what to do when free fluid without signs of 脏器损伤或肠系膜损伤的病员。CT solid organ or mesenteric injury is found. Coupled 对诊断空腔脏器损伤敏感性差,这 with the relatively poor sensitivity of CT to diagnose 是创伤外科医生面临的棘手问题。 hollow viscus injury, it creates a dilemma for most trauma surgeons. The options are either to surgically 当比例的病人为非治疗性剖腹手 explore all patients and accept a significant rate of 术,或进行观察至有腹膜刺激征时 nontherapeutic laparotomies or to observe and "act" 再手术,我们必须了解延误肠管损 when peritoneal signs develop, keeping in mind that 伤的诊断可能带来灾难性后果。最 a delay in diagnosis of bowel injury may be 近对创伤外科医生进行的调查即

ns teacer 1 4. 腹部 CT 检查 wee will share

CT 检查非常有价值。CT 检查的缺 影并栓塞出血血管。CT检查的另 一指征是实质性脏器损伤经初步 器损伤者应怀疑肠系膜、肠管或膀 胱损伤,这些病人常需手术探查。

外科医生或选择剖腹探查但有相

catastrophic. A recent survey of trauma surgeons who 遇到此情况如何恰当治疗时,调查 were asked what would be the appropriate 结果差别较大:42%的医生认为应 management of patients in this circumstance showed 该作腹腔盥洗,28%的医生认为可 a variety of responses: 42% would do peritoneal 进行观察, 16%认为应手术探查, lavage, 28% would observe the patient, 16% would surgically explore, and 12% would repeat an abdominal CT. The accuracy of CT ranges from 92% 之间, 假阳性率和假阴性率较低。 to 98% with low false-positive and false-negative amobds tould driv undeg alders and standard CT 检查非常有价值。CT 检查 rates

Although the use of abdominal CT in the 虽然在腹部贯通伤者腹部 CT evaluation of penetrating abdominal trauma has been 检查在诊断肠管和膈肌损伤中的 limited owing to low sensitivity in diagnosing bowel 敏感性低,但新技术(螺旋 CT)已 and diaphragmatic injury, newer technology(spiral 能对此情况进行评估并对一些经 CT)has been evaluated in this circumstance and thus 选择的病例进行非手术治疗。对前 has led to considering nonoperative management in 腹部刀刺伤者行非手术治疗已得 selected cases. Nonoperative management of stab 到认同,因为对这些病例进行非治 wounds to the anterior abdomen has been emphasized 疗性剖腹手术后并发症较高。 because of the high morbidity rate after and analysis of the high morbidity rate after nontherapeutic laparotomies.

In one study, triple-contrast helical CT was 一项使用三期造影螺旋 CT 对 evaluated as a diagnostic tool after penetrating 贯通伤者进行评估的研究尚未完 injuries to the torso. The authors concluded that CT 成。作者认为 CT 可在 95%的病例 accurately predicted the necessity of laparotomy in 准确预测剖腹手术的必要性。 95% of the patients.

Other diagnostic modalities

Despite the initial enthusiasm, the use of sides in the property 对腹部钝性损伤者行诊断性 diagnostic laparoscopy in the patient with blunt a various 腹腔镜探查除最初使用阶段较乐 trauma is very limited. It is an invasive and expensive method and does not seem to be superior 具有侵入性且费用高,在确定治疗 to other methods used for decision making. Missed 决策方面并不优于其它方法。已有 small bowel, splenic, and retroperitoneal injuries have 行腹腔镜探查遗漏小肠、脾脏和腹 been reported. It seems that laparoscopy is the best 膜后损伤的报道。在胸腹部贯通伤 method to evaluate diaphragmatic injuries after 看着行腹腔镜探查对判断有无膈肌 thoracoabdominal penetrating injuries.

A study analyzing laparoscopy as a diagnostic 对 对腹腔镜作为腹部贯通伤的 modality in patients sustaining penetrating abdominal 诊断方法的资料分析显示腹腔镜 trauma revealed a progressive reduction in the 探查可减少阴性剖腹探查的比例。 incidence of negative laparotomies. These findings 这与先前的研究结果相似,即腹腔

12%认为可反复多次腹部 CT 检 查。CT 检查的准确率再 92%~98%

white responding 5. 其它诊断方法 all leaderlooks

观外此方法作用有限。腹腔镜探查 teom to smi 损伤可能是最好的方法。serv wolled

that laparoscopy has a place in the diagnosis of 者的诊断中能协助诊断。在血流动 peritoneal penetration after stab wounds to the 力学稳定的胸腹部刀刺伤者腹腔 anterior abdominal wall. It is particularly useful in 镜对发现隐匿性膈肌损伤有帮助。 thoracoabdominal stab wounds for detecting occult is a specific property of the property stable and the stable property of the stable pro diaphragmatic wounds in the hemodynamically stable box beautrashi ad ton year sainting north. patient.

Angiography is used to evaluate renal artery thrombosis and to manage pelvic hemorrhage in 动脉血栓形成、治疗由于骨盆骨 patients with pelvic fractures and bleeding from 析导致的出血及轻度肝脾外伤后 minor hepatic and splenic injuries.

Gastric injuries

Gastric injuries often result from penetrating 胃损伤常发生于贯通伤。源于 trauma. Less than 1% of such wounds are due to 机动车事故、坠落伤、心肺复苏或 blunt trauma secondary to motor vehicle accidents, falls, cardiopulmonary resuscitation, or interpersonal

The stomach is partially protected by the rib 由于部分胃有肋弓的保护,胃 cage, making blunt injuries rare occurrences and 纯性伤极少发生且难于诊断。引起 relatively difficult to diagnose. Causes of blunt gastric rupture include vigorous ventilation with an 错插人食管并行强烈通气、撞击至 endotracheal tube placed inadvertently in the 脊柱、心肺复苏、Heimlich 动作以 esophagus, crushing against the spine, cardiopulmonary 及其它导致胃腔压力突然升高的 resuscitation, the Heimlich maneuver, and other 因素。 Business constitution of the Heimlich maneuver, and other 因素。 causes leading to sudden increase in intraluminal pressure.

Blunt gastric trauma includes a wide range of 纯性胃损伤的严重程度差别 injuries, from mucosal lacerations to full-thickness 较大,可以是粘膜撕裂、全层破裂 disruption and gastric necrosis due to avulsion of 或由于供应血管的撕脱导致的胃 vascular pedicles. Other intra-abdominal and extra- 坏死。纯性胃损伤常伴有腹内其它 abdominal injuries are frequently present. Diagnostic 脏器损伤。诊断性腹腔盥洗或腹部 peritoneal lavage or CT of the abdomen may confirm CT 检查可明确诊断, 但多数是在 the diagnosis; however, in most instances the 手术探查时确诊的。 diagnosis will be made during surgical exploration.

Any penetrating abdominal injury, particularly 任何腹部穿通性损伤尤其是 in the upper abdomen, should be suspected of 上腹部伤,都应怀疑有无胃损伤。 causing injury to the stomach. During initial 首先应插鼻胃管观察,如果有血性 evaluation a nasogastric tube should be inserted; and 引流液应怀疑胃损伤。术中诊断包 if the aspirate is positive for blood, an injury to the 断插仔细观察食管胃结合部、胃前后 stomach should be suspected. The intraoperative 壁、打开胃结肠韧带以及完整观察

血管造影常用于确定有无肾 closure in lavers. Injuries with all tissue loss may

be best treated by 問损伤vd best treated by

个人之间暴力钝性伤者不足1%。

胃钝性破裂的原因有:气管内插管

evaluation includes good visualization of the 胃后壁。小的胃损伤难于发现需向 esophagogastric junction, examination of the anterior 胃内注入生理盐水或亚甲蓝有助 gastric wall, opening of the gastrocolic ligament, and 于明确诊断。 swissimobds with states complete visualization of the posterior gastric wall. grittened to about which is a large of the posterior gastric wall. Minor injuries may not be identified and require electromed and at about outsing ridgate distention of the organ with saline or methylene blue to evaluate for leaking.

Chapter 1

Most penetrating wounds are treated by means 多数穿通性损伤都可行创伤 of débridement of the wound edges and primary 边缘清创及一期分层缝合。有大量 closure in layers. Injuries with major tissue loss may be best treated by gastric resection. Postoperative complications include bleeding, usually from the 膜下血管)、腹腔内脓肿和极少见 more rarely, gastric fistula.

Due to its proximity with the diaphragm, the 由于邻近膈肌,胸腹部伤常伴 stomach is frequently injured after thoracoabdominal wounds. Depending on the severity of contamination 与溢出的胃内容物有关,腹腔脓肿 due to spillage of gastric contents, empyema is the defended by the desired by the desired by the defended by the desired by another frequent complication.

The role of the extravasation of gastric contents 胃内容物外溢引发术后并发 in the genesis of postoperative complications is 症与胃内菌群的动态变化有关。许 closely related to the dynamics of the gastric flora. 多微生物来自鼻咽和口咽部通过 Usually many microorganisms originating from the 唾液和鼻粘液抵达胃。胃内 pH 值 nasopharynx and oropharynx reach the stomach 常在餐后、饮水及吞咽唾液而改 through the saliva and nasal mucus. Changes in gastric pH are frequent after eating, drinking, and 值低于4时,胃液通过抑制细菌酶 saliva ingestion, which act in an attempt to neutralize 类而有杀菌作用。此时在胃液中可 gastric acidity. When gastric pH is below 4, gastric 发现低浓度唾液型链球菌、草绿色 juice has bactericidal properties that act to inhibit 链球菌、乳杆菌、拟杆菌、韦荣球 bacterial enzymatic activity. In this situation, 菌、微球菌、葡萄球菌和奈瑟菌,浓 microorganisms such as Streptococcus salivarium, 度常低于 1 000/mL。相反, 当胃内 Streptococcus viridans, Lactobacillus, Bacteroides, pH 值呈中性时, 胃液中杀菌成分 Veillonella, Micrococcus, Staphylococcus, and 明显受抑制导致胃内细菌生长。细 Neisseria are found in very low concentrations, 菌浓度可达 10%mL 并能保持 1 小 usually below 1 000/mL. Inversely, when the gastric 时再恢复至正常水平。如果胃酸被 pH is neutralized, bactericidal properties of the 长期中和,在胃内可发现来自下消 gastric juice are extremely suppressed, which leads to 化道细菌,如脆弱拟杆菌、大肠杆 prompt bacterial growth. Concentrations can reach as 菌和粪链杆菌。这在胃内有大量食 high as 106/mL and remain there for approximately 1 物及液体的外伤病例尤为重要。

胃组织缺损者最好行胃切除术。 术后并发症包括出血 (常来自粘

有胃损伤。损伤后的污染严重程度

变.这些因素可中和胃酸。胃内pH

associated with the development of intra-shdominal levels. If the animobal article intra-shdominal levels in the development of intra-shdominal levels. neutralization occurs for prolonged periods of time, solar villation daid bits, stages, seeses debacteria from the lower digestive tract such as Bacteroides fragilis, Escherichia coli, Streptococcus faecalis, and enterobacterias can be found inside the transfer in the boundaries and inside the transfer in the factor in the fa stomach. This fact is especially important in trauma 12003610 350011 bas notsigene select bloods patients who frequently have great amounts of food and liquid inside the stomach.

Morbidity and mortality rates after penetrating 尽管单纯胃损伤的并发症发 abdominal injuries associated with gastric wounds 生率近 6%, 但由于多数病例是复 have been reported close to 27% and 14%, 合伤,在伴有胃损伤的腹部贯通伤 respectively, in most cases due to the associated 病例的死亡率和并发症发生率分 injuries, although the risk of morbidity from gastric 别为 14%和 27%。 injury itself is close to 6%.

Injuries to the duodenum

The majority of duodenum injuries are caused 多数十二指肠损伤源于贯通 by penetrating trauma; however, blunt injuries, 伤, 在钝性损伤中尽管少见, 但由 although infrequent, are difficult to diagnose because 于病员在就医时症状轻微而难于 patients may present with subtle findings on admission. The incidence of duodenal injuries varies 5%。多数十二指肠损伤伴有腹内其 from 3% to 5%. Most of duodenal injuries are 它脏器损伤。这是由于十二指肠在 accompanied by other intra-abdominal injuries. This 解剖上与其它实质性脏器及大血 occurs owing to its close anatomic relationship with The utility of duodenography in the diagnosis of other solid organs and major vessels.

A motor vehicle accident causing a steering 机动车事故中十二指肠损伤 wheel blow to the epigastrium is the most common 最常见的原因是方向盘撞击上腹 mechanism of blunt duodenal injuries. Other 部。其它损伤机制包括,受袭击或 mechanisms, such as assault and falls, also cause 高处坠落也可伤及十二指肠。充满 duodenal injuries. A closed loop compression of an 气体的十二指肠闭袢在受到直接 air-filled loop after a direct blow can account for 打击后容易破裂。 as less of the good and account for 打击后容易破裂。 as less of the good account for the filled loop after a direct blow can account for the filled loop duodenum rupture.

The retroperitoneal location of the duodenum 十二指肠腹膜后部分(第二、 (second and third portions) exerts a protective effect 三段)不易受伤但也不利于伤后早 against injuries but also prevents an early diagnosis. 期诊断。孤立性十二指肠损伤少见 Isolated injury to the duodenum is rare and usually 并且常无明显临床腹膜炎体征或 does not cause significant clinical signs of peritonitis 血流动力学不稳定。需依据受伤机 or hemodynamic instability. A thorough search based 制详细检查以免延误诊断。误诊十 on mechanism of injury is necessary to prevent 二指肠损伤可引起腹腔内脓肿、脓 delays in diagnosis. Failure to recognize this injury is 毒症及增加死亡率。

lo noites yeard (二) 十二指肠损伤 saybound

确诊。十二指肠损伤发生率为3%~ 管邻近的缘故。 anima lo lesi adi al