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1. Introduction

Endometriosis is defined as the presence of endometrial-like stroma and glands outside the uterine cavity (Giudice and Kao, 2004). Laparoscopy has been recognized as the gold standard for endometriosis diagnosis and has been used for the surgical treatment of endometriosis. Diagnosis of endometriosis is currently made following laparoscopic inspection of the pelvis, preferably with histological biopsy confirmation (Mettler et al., 2003), although the correlation of biopsy with visual inspection depends on the experience of the endoscopist, inter-observer variability, the technique of excision and the care and experience of the pathologist (Poncelet and Ducarme, 2007). In one recent study, only 67% of lesions identified at laparoscopy as possible endometriosis proved to have the histological features of endometriosis (Stratton et al., 2003). Moreover, visual inspection of the pelvis also has its own limitations, particularly for the diagnosis of atypical and non-peritoneal endometriosis.

Endometriotic lesions can vary in colour, mostly non-black, red, white or like burned powder. In clinical observation the age of a lesion can be estimated from the colour of these lesions. It appears that clear papules are limited to a younger age group (17-31 years), than the red (16-43 years) and black (20-52 years) lesions (Redwine, 1987).

Many studies have clearly shown that there is a substantial delay in endometriosis diagnosis which inevitably has negative effect on quality of life of endometriosis patients (Matsuzaki et al., 2006, Hadfield et al., 1996, Zrubek et al., 1999, Ballard et al., 2006, Stratton, 2006). Ballard et al. demonstrate that the definitive diagnosis of endometriosis is frequently delayed for many years (2006). In a series of patients from southeastern England the mean delay from onset of symptoms to definitive diagnosis was 102 months (9.5 years). Delays usually occurred at every stage in the diagnostic process. An average patient waited for 18 months before been seen by a family doctor. The general practitioner subsequently waited 3 years before referring the patient for a specialized opinion by a gynaecologist, and it takes a further 9 months before the diagnosis is made. This delay is even longer in cases with deep infiltrating endometriosis and advanced endometriosis stage IV (Matsuzaki et al., 2006).

The review by Wykes, C. B showed that there are very few good quality studies in the literature regarding the role of laparoscopy in the diagnosis of endometriosis (Wykes et al., 2004). A negative laparoscopy for endometriosis is helpful and women can be adequately reassured without the need for further testing, while a positive laparoscopy is less informative without histological confirmation. A false positive laparoscopy can hugely affect the woman's quality of life, perception of her own health, fertility and even sexual life.
The aim of surgical management is to remove visible areas of endometriosis and restore anatomy by division of adhesions. Yet, treatment frequently must be individualized. However, distinguishing patients who need no treatment from patients who need intermediate or extensive treatment can be difficult. There are three recognized types of endometriosis: peritoneal endometriosis, ovarian endometriomas and deep adenomyotic nodules of the rectovaginal septum (Nisolle and Donnez, 1997).

Few principles have to be considered regarding the surgical management of endometriosis:

- Severe disease must be treated differently from mild to moderate disease.
- Patients with pain symptoms associated with endometriosis must be approached differently from patients seeking fertility.
- Clinicians and patients should be aware that the expected benefit is depending on operator skills (Vercellini et al., 2009).

Jansen and Russell have shown that peritoneum which looks completely normal does not contain histological features of endometriosis, therefore excision of all abnormally looking peritoneum, deep nodules and ovarian lesions should remove the disease (1986). Yet a downside of this approach is the risk for future adhesion formation.

2. Background

Endometriosis is a common and frequently chronic disease, characterized by the presence of endometrial-like glands and stroma outside the uterine cavity. Endometriosis is still an enigmatic disease as it is still represent itself as a big challenge for patients to coup with the disease and for medical professionals dealing with this category of patients. The challenge is primarily in the diagnostic process of endometriosis as it’s clinical features may cross with the clinical features of other conditions such as adenomyosis, interstitial cystitis and irritable bowel syndrome. Another problem with endometriosis diagnosis is the general normalization of pain symptoms by. Moreover, there yet no diagnostic tool with significantly enough specificity and sensitivity for the diagnosis. may be difficult to diagnose, yet may cause considerable distress with pelvic pain and infertility. However, some women will be completely asymptomatic although, having severe stage of the disease incidentally found during laparoscopy for other reasons. Laparoscopy with or without histological confirmation is the gold standard for endometriosis diagnosis. However, there is often a considerable delay in diagnosis of endometriosis, partly because there is no simple tool for effective diagnosis. For many decades, surgical removal of endometriotic lesions was the primary basis for the management of endometriosis and radical removal of ectopic lesions is still the preferred way for most surgeons when dealing with endometriosis (Redwine et al., 2000). However, there is no correlation between findings at laparoscopy and symptoms and prognosis in terms of fertility and recurrence rate (Vercellini et al., 2006). It seems to be that the patient’s own preference and plans for her fertility are becoming more important in controlling the management plans (Vercellini et al., 2003).

Medical treatment for endometriosis is mainly for pain symptoms, while medical treatment for infertility purposes has no benefit or may even delay pregnancy, ‘more harm than good can be done by drug treatment, because of side effects and the lost opportunity to conceive’ (RCOG, 2000). It seems to be that a combined medical and conservative surgical approach is beneficial for most women with endometriosis associated pelvic pain (Davis and McMillan, 2003). Moreover, evidence showed that laparoscopic surgery in terms of excision and or ablation of mild to moderate disease can in fact enhance fertility (Marcoux et al., 1997, Olive and Pritts, 2002). However, an Italian RCT showed that ablation of endometriotic lesions did not markedly improves fertility rates (Parazzini, 1999).
3. Anatomy of the anterior abdominal wall related to laparoscopic surgery for endometriosis

Any surgeon intending to perform laparoscopic surgery for endometriosis must have a complete understanding and a thorough knowledge of the anterior abdominal wall vascular anatomy. This knowledge will reduce vascular complications associated with laparoscopy especially trocar placement. Of particular concern are the superior and inferior epigastric vessels. The superior epigastric artery, one of the terminal branches of the internal thoracic artery, enters the rectus sheath first and then the rectus muscle coursing near its lateral border. This artery and its adjacent vein often can be visualized by transillumination of the abdominal wall with the laparoscope.

Visualization of the ventral abdominal wall laparoscopically will often locate the deep inferior epigastric vessels. The artery, a branch of the external iliac, and its accompanying vein course along the abdominal wall peritoneum just lateral to the rectus muscle until midway between the symphysis pubis and umbilicus, where it blends into the body of the rectus muscle. These vessels may be seen medial to the insertion of the round ligament at the deep inguinal ring. Therefore, placement of the trocar lateral to the deep inguinal ring and lateral border of the rectus muscle will avoid injury to these vessels.

If placement of the trocar is too far laterally, branches of the superficial circumflex iliac vessels may be injured. Again, transillumination of the anterior abdominal wall by using the laparoscope will assist in avoiding these vessels.

As a general guideline, the superficial and inferior epigastric vessels are located approximately 5.5 cm from the midline. The superficial circumflex iliac vessels are approximately 7 cm from the midline. Theoretically, a “safe area” would be 8 cm above the symphysis pubis and 8 cm from the midline. If transillumination is not effective due to a thick abdominal wall, the surgeon may consider insertion of a spinal needle through the abdominal wall at the selected trocar insertion site. If no bleeding is observed after removal of the needle, the location is likely safe for trocar placement.

4. Delay in diagnosis of endometriosis

Many studies have clearly shown that there is a substantial delay in endometriosis diagnosis which inevitably has negative effect on quality of life of endometriosis patients (Matsuzaki et al., 2006, Hadfield et al., 1996, Zrubek et al., 1999, Ballard et al., 2006, Stratton, 2006). Ballard et al. demonstrate that the definitive diagnosis of endometriosis is frequently delayed for many years (2006). In a series of patients from southeastern England the mean delay from onset of symptoms to definitive diagnosis was 102 months (9.5 years). Delays usually occurred at every stage in the diagnostic process. An average patient waited for 18 months before been seen by a family doctor. The general practitioner subsequently waited 3 years before referring the patient for a specialized opinion by a gynaecologist, and it takes a further 9 months before the diagnosis is made. This delay is even longer in cases with deep infiltrating endometriosis and advanced endometriosis stage IV (Matsuzaki et al., 2006).

The fundamental question about such delays is whether they matter. The work of Ballard et al. suggests that they do. The absence of a specific diagnosis left patients fearful of what was wrong with them and unable to communicate about their problems to others, particularly their employers. Learning of the correct diagnosis was associated with positive experiences in terms of reassurance about the absence of more sinister problems and in improving access to social support and accurately tailored treatment.
An open, mutually understanding relationship between doctor and patient is necessary if the diagnosis is to be made without undue delay (Kennedy, 1991) thus improving the chances of getting better results in treatment and compliance.

5. Laparoscopy as the gold standard for the diagnosis of endometriosis

5.1 Laparoscopy as gold standard

Laparoscopy (figure 2) in endometriosis is based on the visualization of superficial implants, endometriomas, adhesion distribution, bowel disease and ureteric disease. In doubtful cases, biopsies showing glands and stroma have been the basis of the diagnosis. Endometriotic lesions can vary in colour, mostly non-black, red, white or like burned powder. In clinical observation the age of a lesion can be estimated from the colour. It appears that clear papules are limited to a younger age group (17-31 years), than the red (16-43 years) and black (20-52 years) lesions (Redwine, 1987).

Fig. 1. Laparoscopy

In some cases asymptomatic women endometrial implants have been found in biopsies from normal peritoneum, resulting in the suggestion that mild endometriosis is not a disease and that all women have this mild form of endometriosis (Koninckx, 1994, Evers, 1994).

In the years 1994–1996 378,100 women with pelvic/abdominal pain underwent ambulatory diagnostic laparoscopy for pelvic pain. This figure excluded women undergoing laparoscopy as an in-patient procedure and represents 34% of the 1.1 million diagnostic laparoscopies performed in the U.S. during that period (Natuzzi et al., 1993). One-third of all diagnostic laparoscopies revealed endometriosis, one-third revealed no visible pathology, and the remaining one-third demonstrated a variety of other

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gynecologic conditions (Howard, 1993). Thus, two-thirds of all patients who undergo this invasive diagnostic procedure will not have endometriosis. To avoid false negative endometriotic lesion biopsy a multiple biopsy approach was proposed (Kazanegra et al., 2008).

The review by Wykes, C. B showed that there are very few good quality studies in the literature regarding the role of laparoscopy in the diagnosis of endometriosis (Wykes et al., 2004). A negative laparoscopy for endometriosis is helpful and women can be adequately reassured without the need for further testing, while a positive laparoscopy is less informative without histological confirmation (Wykes et al., 2004). A false positive laparoscopy can hugely affect the woman’s quality of life, perception of her own health, fertility and even sexual life. Recently other diagnostic tools been proposed for the diagnosis of endometriosis such as blood markers and most recently an endometrial biopsy looking for nerve fibres in the functional layers been proposed (Al-Jefout et al., 2007, Al-Jefout et al., 2009), however, more studies are needed for further confirmation.

5.2 Risks of laparoscopy
As an invasive surgical procedure, laparoscopy still carries occasional risks of injuring vessels, ureter or intestine. An estimated risk of death of 0.1/1000 mainly due to vascular injuries and the risk of injury to bowel, bladder, or blood vessel of 2.4%, of whom two-thirds will require a laparotomy and this concern is still a significant contributor to the delay in diagnosis (Hadfield et al., 1996, Arruda et al., 2003, Brosens et al., 2003, Ballard et al., 2006, Schenken, 2006).

5.3 Laparoscopic conscious pain mapping
Laparoscopic conscious pain mapping was first described when it was used for laparoscopic evaluation of the appendix (Almeida et al., 1998). Pelvic pain mapping during laparoscopy performed under conscious sedation can provide useful information about visceral and somatic sources of chronic pelvic pain (Steege, 1998). Conscious laparoscopic pain mapping has been proposed as a way to improve information derived from laparoscopic evaluations in gynaecology even in an office set up (Howard, 2000, Almeida and Val-Gallas, 1998, Howard, 2003). Conscious pain mapping can be done with reasonable success in women with prior surgical evaluations and treatments for chronic pelvic pain. Chronic visceral pain syndrome, adhesions, and endometriosis were the most common diagnoses (Howard et al., 2000) Although, long term results needs to be verified in larger scale studies(Tytherleigh et al., 2004).

5.4 Transvaginal hydrolaparoscopy (THL)
In order to avoid the risks accompanied with laparoscopy a new diagnostic procedure trans-vaginal hydro-laparoscopy (Figure 2) has been proposed as an office based procedure (Gordts et al., 2000, Campo et al., 1999). Because it is done under local anaesthetic; the risks of general anaesthesia are avoided. The use of saline for visualization gives surgeons more sensitivity for identifying adhesions (Brosens et al., 1999). Use of this technology resulted in a 50% increase in finding peri-ovarian adhesions in comparison with conventional laparoscopy. THL also gives the surgeons and the patients more options in planning future treatment plans.
6. Laparoscopy for the staging of endometriosis

6.1 Historical background of endometriosis classification
Wicks and Larson proposed the first classification of endometriosis (1949) which was based on pathological and histological examination of the endometriotic lesions. The next step was a proposed system based on macroscopic evidence of the disease (Huffman, 1951). However, this staging system did not include adhesions. The next staging system included the adhesions and for the first time guidelines were proposed to determine which patients should be treated medically and which ones surgically (Riva et al., 1962). Beecham suggested a new classification which recorded the medical data of patients(1966). It was not until 1973 that the first acceptable classification appeared and was known as the Acosta classification (Acosta et al., 1973). It was the first classification to take into account the size of the lesions, scarring and fibrosis around the implants, as well as all adhesions. However, this system did not clarify if the lesions were uni- or bilateral and did not provide any prognosis about recurrence.

6.2 The perfect classification, is there such a thing?
Endometriosis is one of the most studied diseases in gynaecology, yet the mechanisms underlying the development of endometriosis are not understood. Nor is there understanding of the relationship between the clinical picture in terms of infertility and pain symptoms with the extent of the disease. Despite numerous clinical studies and intensive research, there are still no convincing answers to these questions and probably will not be for many years to come. The perfect classification should give clinicians the ability to correctly anticipate the prognosis for conception, relief of pelvic pain and the risk of recurrence. A perfect classification should also use common medical terminology, which clinicians from all over the world can interpret in the same way.

7. The revised american society of reproductive medicine (rASRM) previously (rAFS)
The American fertility Society proposed a new classification which was at that time simple and the most informative (1979). Now a widely used classification of endometriosis (renamed as the revised American Society for Reproductive Medicine (rASRM) (Figure 1)
includes number, size and location of endometrial implants, endometriomas and if present adhesions. It is based (1) on the appearance, size, and depth of peritoneal and ovarian implants; (2) on the presence, extent and type of lesions: red (red, red-pink, and clear), white (white, yellow-brown, and peritoneal defects) and black (black and blue); (3) on the presence, extent, and type of adnexal adhesions and the degree of cul-de-sac obliteration. This helped to establish the stage of the disease as Stage I (minimal disease), Stage II (Mild disease), Stage III (Moderate disease) and Stage IV (Severe disease).

In a following meeting of the AFS this classification was revised after some comments from many experts and now it is widely for in the diagnosis of endometriosis (1985).

**Fig. 3. Revised classification of endometriosis according to American Society for Reproductive Medicine.**

![Revised classification of endometriosis](www.intechopen.com)
7.1 Advantages of rASRM
The rASRM requires thorough description of the lesions and their extent, so in order to complete the classification form clinicians need to be thorough in their inspection of the abdominal cavity, thus enabling them to decrease false positive results at laparoscopies. Finally, this system can be used electronically to analyse the data later on.

7.2 Disadvantages of rASRM
The American Fertility Society classification does not reflect the intensity of endometriosis-associated symptoms, probably underestimating the most active forms of this disease, and does not facilitate tracking the likely natural progression of the disease (Marana et al., 1991).

7.2.1 The ENZIAN-Score
German Authors tried to substitute the rASRM by the ENZIAN-Score which was proposed as a new system to stage and classify deep infiltrating endometriosis. The endometriotic nodules are assigned to different subgroups depending on their localization and expansion. The authors of this system claimed that the still used rASRM (rAFS)-score is of no clinical significance especially in patients with severe intestinal endometriosis (Tuttlies et al., 2005).

7.3 Peritoneal endometriosis surgical management
7.3.1 Minimal or mild disease
The severity of pain symptoms in minimal disease are found not to be correlated with findings at laparoscopy (Chene et al., 2008). Surgical approaches like resection of peritoneal endometriosis; or monopolar electrocoagulation/ablation may be used. In the early stages, surgical treatment seems to reduce pain symptoms as effective as by drug therapy (Boing and Kimmig, 2007, Golfiere and Sabra, 2007, Frishman and Salak, 2006). In the resection technique the peritoneum is incised near the lesion using a monopolar electrode and is dissected bluntly, separating healthy tissue from endometriotic tissue. Resection seems to be more efficient than diathermy coagulation, yet, it is more difficult, increases the time of the operation, and the cost (Martin and O’Conner, 2003). Monopolar electrocoagulation is done by applying a monopolar electrode to the visible endometriotic lesion. Extra care must be taken when treating the lateral pelvic side wall to avoid thermal damage to the ureter. To minimize this thermal effect, the peritoneum on the pelvic side wall could be opened and dissected to allow visualization of the ureter. Alternatively, ‘hydroprotection’ can be used. This involves injection of 0.9% saline under the diseased peritoneum, which elevates the peritoneum, allowing safe vaporization or diathermy.

For peritoneal endometriotic implants, a power setting of 40–50 W (laser CO\textsubscript{2}) is usually used using a continuous firing mode (Donnez et al., 2004). To date, only one double-blind, RCT has been reported that examined the effect of laparoscopic treatment of endometriosis on pain (Sutton et al., 1994). This study has shown that laser excision of endometriosis significantly improves pain symptoms.However, this study has been criticized because the investigators performed semaltenously laparoscopic uterine nerve ablation and laser excision of the endometriosis and hence we cannot know which treatment has resulted in the pain relief. Sutton et al (1997) in a follow up study reported that 90% of responders had a pain relief for 1 year after laser excision, while 29% of patients had progressive disease and...
the same percentage (29%) had spontaneous regression. Finally, pain symptoms reported to be improved with the use of Helica TC (thermal coagulator) in women with stages I and II endometriosis. However, this approach requires further evaluation as part of randomized controlled trials (Nardo et al., 2005).

Laparoscopic uterine nerve ablation (LUNA) and presacral neurectomy were also suggested as a treatment of pain symptoms. LUNA was found beneficial for dysmenorrhea not associated with endometriosis (Johnson et al., 2004), while presacral neurectomy was found to reduce pain symptoms in endometriosis without significant side effects (Garcia Leon et al., 2003, Zullo et al., 2004).

7.3.2 Ovarian endometriomas
Surgical laparoscopic management of ovarian endometriomas can involve stripping of the cyst lining or laser vaporization of the internal wall of the cyst. If laser used, the depth of this vaporization may be superficial and only the glandular epithelium and the adjacent stroma have to be vaporized (Brosens et al., 1996).
Operative laparoscopy should be the first choice for management of ovarian endometrioma whenever possible (Ruhlmann et al., 1996) and seems to be effective in alleviating pain associated with ovarian endometriomas (Yoshida et al., 2002). Medical therapy alone has not generally been effective in reducing endometrioma size and formed adhesions (Donnez and Nisolle, 1991).

7.3.3 Deep infiltrating endometriosis (DIE)
Deep endometriosis has been defined as endometriosis infiltrating deeper than 5 mm under the peritoneum (Koninckx and Martin, 1994). Unfortunately, the current classification of endometriosis is unsuccessful in predicting the major clinical outcomes, including pain symptoms (Vercellini et al., 2006).

In a retrospective study on 225 women with pelvic pain symptoms and DIE the anatomic locations of DIE implants and specific pain symptoms were recorded (including severe dysmenorrhea, deep dyspareunia, non-cyclical chronic pelvic pain, painful defecation during menstruation, urinary tract symptoms, and gastrointestinal symptoms)(Fauconnier et al., 2002). There was an association between the frequency of severe dysmenorrhea and DIE in the Douglas pouch adhesions, between the frequency of dyspareunia and DIE of uterosacral ligaments. The frequency of non-cyclical chronic pelvic pain was higher when it involved the bowel. The frequency of painful defecation during menstruation was higher when DIE involved the vagina; lower urinary tract symptoms were more frequent when DIE involved the bladder. The authors concluded that the types of pelvic pain can be broadly related to the anatomic location of DIE. Although, this study was retrospective, yet it gave good evidence of the correlation between locations of DIE and pain symptoms. Deep lesions need to be excised rather than vaporized (Koninckx and Martin, 1994). Coagulation, bipolar electrosurgery, argon laser, Potassium-Titanyl-Phosphate, (KTP) laser are also inadequate for management of lesions larger than 2 mm.
Operative laparoscopy in terms of complete excision of the disease is efficient for the treatment of painful symptoms related to deep endometriosis infiltrating uterosacral ligaments (Chopin et al., 2005). The segments of the rectum involved in the disease must be freed, leaving the deep endometriotic nodule attached to the posterior wall of the vagina. Resection of the whole lesion requires the posterior wall of the vagina to be
resected and the vagina is usually opened (Chapron et al., 2001), whereas ureterolysis is often unnecessary.
Because laparoscopic excision of deep bowel lesions has been associated with a residual of pelvic pain, laparotomy may sometimes be needed. Moreover, a new combined vaginal-laparoscopic-abdominal approach was compared with laparoscopy, laparotomy and laparoscopy followed by laparotomy for bowel resection or laparoscopy followed by vaginal bowel resection for rectovaginal endometriosis. The new approach allows intraoperative digital bowel palpation to assess bowel infiltration and reduce unnecessary bowel resections and found to minimize complication rate, re-hospitalization rate, and hospitalization time (Zanetti-Dallenbach et al., 2008).
Surgeons have been treating endometriosis using several approaches; either by laparoscopic excision, ablation or removal of endometriomata and endometriosis associated adhesions.
The laparoscopic approach seems to have more favorable outcome than open approach in terms of quality of surgery and patients acceptance. Laparoscopic surgical management is now recognized as the best approach for endometriosis associated infertility treatment followed by assisted reproductive techniques. However, for endometriosis associated pain symptoms there is no general consensus regarding the best way of dealing with these symptoms. The problems of comorbidity and recurrence is still a problem and under great debate.

7.4 Infertility and endometriosis
Infertility is common in endometriosis sufferers and is generally manifested as a reduced monthly chance of conceiving (reduced fecundability). Nevertheless, even in severe cases of endometriosis spontaneous successful conception and delivery of a healthy baby often occur. Despite enormous studies about the relationship between endometriosis and subfertility, this relationship still controversial issue. The main problems in those studies, that they don’t have a defined patient population, clinical features arising from different endometriosis types are not well defined and the fact that scientists investigating endometriosis are lacking enough clinical data about patients they are studying. They just deal with tissues blindly.
However, an association between endometriosis and infertility has repeatedly been reported in the literature, but an absolute cause-and-effect relationship has yet to be confirmed (Mahutte and Arici, 2002). Many mechanisms have been proposed to cause fertility problems in endometriosis. These include altered folliculogenesis (Doody et al., 1988), leading to ovulatory dysfunction and low quality oocytes, as well as luteal phase defects (Grant, 1966), impaired fertilization (Wardle et al., 1985), and abnormal embryogenesis (Garrido et al., 2002), abnormalities in peritoneal fluid (Minici et al., 2008), eutopic endometrium and immunological abnormalities (Akoum et al., 2006).
It seems that not one mechanism is responsible for the reduced fecundability in endometriosis it is rather a complex of several mechanisms rather than one mechanism. The problem of conflicting results in different studies about infertility in endometriosis may be due to the lack of proper characterization of patient population, the defects imbedded in the current classification of endometriosis and the difficulty of elimination of other factors that affect fertility such as sperm quality and different interpretation by different laboratories.
8. References


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The main purpose of this book is to address some important issues related to gynecologic laparoscopy. Since the early breakthroughs by its pioneers, laparoscopic gynecologic surgery has gained popularity due to developments in illumination and instrumentation that led to the emergence of laparoscopy in the late 1980's as a credible diagnostic as well as therapeutic intervention. This book is unique in that it will review common, useful information about certain laparoscopic procedures, including technique and instruments, and then discuss common difficulties faced during each operation. We also discuss the uncommon and occasionally even anecdotal cases and the safest ways to deal with them. We are honored to have had a group of world experts in laparoscopic gynecologic surgery valuably contribute to our book.

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