2022 年度美國消化道內視鏡外科醫師協會參與視訊會議及醫學壁報發表之心得報告

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摘要

因疫情取消出國,改以線上方式參加 2022 年美國內視鏡外科醫師協會年會。

發表電子醫學壁報,內容主要呈現台中榮總近兩年多來(2019-2021)總共 155 位病患運用術後加速康復療程(Enhanced Recovery After Surgery, ERAS)在大腸直腸微創手術上的成效與學習曲線分析。ERAS 是一項複雜且需要多專科團隊溝通、合作的照護模式,在我們的經驗中,為達到較高的 ERAS 順從性以及良好的臨床成效,學習曲線平均需要 31 例,與之前的國際發表文獻相當。除此之外,台中榮總在近一年多來積極發展達文西機器手臂微創手術,我們發現其不但不影響 ERAS 的順從性,在恢復進食時間、術後恢復狀況及住院天數方面,相比傳統腹腔鏡手術的臨床成效都來得更好。我們認為達文西機器手臂微創手術配合術後加速康復療程將會是未來趨勢,也證明建立一套新照護模式的學習曲線並不會比腹腔鏡手術還來得久。

關鍵字:術後加速康復療程(Enhanced Recovery After Surgery, ERAS)、大腸直腸微創手術、 達文西機器手臂微創手術、學習曲線

目

次

一、目的

配合院方鼓勵參與國內外醫學會議及發表文章投稿,我們整理台中榮總過去兩年多運用 ERAS 在微創大腸直腸手術的經驗,將其臨床成效及學習曲線分析以壁報形式發表在 2022 美國消化道內視鏡外科醫師協會年會上。本篇醫學壁報預計將資料完整製作成論文,投稿於 SAGES 的官方期刊 Surgical Endoscopy (IF:3.14),讓全世界看到台中榮總積極發展尖端醫療的努力與貢獻。

2021年12月29日,美國消化道內視鏡外科醫師協會(SAGES)回函接納我們投稿的題目,發表型式為電子醫學壁報,並邀請我們以實際親臨或線上方式參與年會。會議於2022年03月16日至03月19日在美國科羅拉多州丹佛市舉行,因疫情因素我們採以線上方式參與年會,演講及壁報內容全部皆可在 SAGES 官網搜尋瀏覽。

三、 心得

美國胃腸內視鏡醫師學會年會(Society of American Gastrointestinal and Endoscopic Surgeons)為全球內視鏡外科界的年度盛事。這次我們的主題能夠登上 SAGES 的壁報是很難得的機會,代表 ERAS 是現在外科的趨勢,也代表我們的經驗放眼國際也十分出色。雖然因為疫情因素無法出國,沒能夠親身觀摩國際重要年會的風采,但 SAGES 提供很便利的線上影音平台,可以即時參與所有的演講,能夠很輕鬆的挑有興趣的主題,看專家們的投影片,聆聽清晰的音頻,甚至所有的醫學壁報也都上傳在官網上,能夠自行瀏覽學習。

四、 建議(包括改進作法)

台中榮總是國內少數領先積極推行術後加速康復療程(ERAS)的醫院之一,ERAS 在大腸直腸手術的臨床成效不但十分良好,也已累積足夠病例數,能夠發表文 章呈現我們的成果。除此之外,台中榮總亦是國內積極推行達文西機器手臂微 創手術的領先醫院之一,將達文西微創手術結合 ERAS 照護在國內是創新的整合 醫療照護模式,我們應積極參與國內外重要醫學會議並盡速將成果論文發表以 推廣台中榮總的醫學品質。

五、附錄

- 1. The ePostersOnline Websiteof SAGES 2022

 <u>Posters | SAGES 2022 ANNUAL MEETING (epostersonline.com)</u>
- 2. 本篇提及之醫學壁報(圖片)



Implementation of an ERAS program in elective minimally-invasive surgery for colorectal surgery: An outcomes and learning curve analysis



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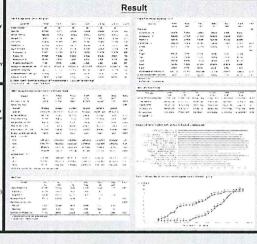
Background accepted worldwide. However, the Felicius Implammation of ERAS required close multidisciplinary teramwork and learning carects to adjust the proceeds into a daily practice. This primary objectors of this study was to present our real-world experience and establish the learning carees for the Implementation of an ERAS program in maintainly invasible surger for colorical reaccion), while also evaluate the impact of developing robotic tectivique to the outcomes of ERAS.

Method

- We collected walft patients who received elective minimally measive surgery including type-oxazpic and robotic surgery for colorectal resection with FRAS care during June 2019 to September 2021. Patients required conversion to open surgery and immediate postoperative intensive care well all excluded. Overall, a total of 155 patients were included in this retrespective analysis.
- retrospective analysis.
 All patients had received the same ERAS programs and equivalent treatment by the same multidisc planny team. Our tailored CRAS had 1d core programs consists of 4 proadmission items, 4 preaperative items, 3 intraoperative items and 7 pastoperative items.
- Items, 4 presperative Items, 3 intraoperative Items and 7 postoperative Items.

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 demographics, persiperative data, 1 mare characteristics, sungical outcomes and ERAS
 compliance were compared among unitities. Lectings conserve were evaluated 3 sacid on
 surgical outcomes and ERAS compliance.
 All statistical analyses were performed using the PAGW Statistics schware (EPSS weston 22.0
 Contilatous variables were equipased as mour = 20 or median finite-quartile congression).

 Walls text. Categorical that were a representative production of the CytisalWalls text. Categorical that were a representative for surgicial and were compared using the Pacinson On-Separate text or Fither exact proposability text. A P-value of 40.05 was
 considered statistically significant.



Discussion

- There is a growing trend worldwide in the adoption of robotic approach to colorectal surgery in the past descade. Abbotic surgery has been prowd to provide the latter clinical and oncological outcomes for colorectal cancer patients at compared to the conventional layeroscopic vuegery. We developed robotic approach and executive ERAS care simultaneously on patients undergoing colorectal tumor resection since Mar 2020. The case numbers of robotic group grew fast and exceeded that of layeroscopic group by July 2021 ¹⁰4.7.
- group by July 2011 ¹⁴ ²¹

 A prospective study of early implementation of ERAS program in laparocopy: observed with the process of the pro

Conclusion

Both robotic surgery and ERAS protocol care are prominent creation to colorectal surgery and become a global trend with rapid progress on safety and efficacy over the past decade. Our experience indicate that the combination of robotic approach and ERAS protocol care is a promising surgical approach and there is no impact on learning curve of ERAS care despite the early development of robotic surgery.