CONSERVATIVE MANAGEMENT OF END-STAGE RENAL DISEASE WITHOUT DIALYSIS: A SYSTEMATIC REVIEW

主報者:劉秋芬 2016.04.26.



動機

- o 病人接受透析治療到底是「延長痛苦」(prolong suffering)還是「延長生命」(prolong life)?
 - 中央健保局自2009年9月1日起,新增八類非癌末期疾病包括 急慢性腎臟衰竭(預期生命期≦六個月),納入安寧療護給付範圍 內,提供全方位(全人、全家、全程、全隊、全社區)的人性 化照護。
 - 老年病人轉介緩和醫療的時機,已經不再是考量其存活期(survival)的長短,而是在於「需求」(need)為何
 - 影響慢性腎臟病病人對於治療方式選擇的因素,包括
 - 與家人、朋友的關係 (例如會對家人造成什麼影響)
 - 對生死抉擇、生活品質的看法 (例如是否能繼續目前的生活方式或工作)
 - o 獲得的治療資訊 (例如醫師告知他決定採用之治療方式的資訊,但 病人不知道有其他治療選擇;或醫師對病人分析不同治療方式及利 弊,並協助病人做決策) (Morton,2010; Murray, 2009)

透析安寧現況

2014年6月腎臟醫學會調查報告(2013年12月31日)

目前罹患ESRD而接受透析治療的人口數已達52萬多人,每年仍有八千人 進入透析,其中佔46.5%是65歲以上的老年末期腎臟病患。

- o透析病患接受安寧療護者: 180人
- ○慢性腎臟病(CKD)病患進展到ESRD, 放棄進入 透析治療者:118人
- ○其他病況合併急性腎損傷必須接受透析治療, 卻放棄進入透析治療者: 71人
- ○透析病患已簽署同意接受安寧療護者:344人
- ○尚未透析之CKD病患已簽署同意接受安寧療護者:244人

How Can We Better Manage End-of-life Care ...?



CONSERVATIVE MANAGEMENT OF END-STAGE RENAL DISEASE WITHOUT DIALYSIS: A Systematic Review

系統性文獻回顧

步驟 1: 系統性文獻回顧探討的問題為何?

P: The patient of End-Stage Renal Disease

I: Conservative Management

C: Dialysis

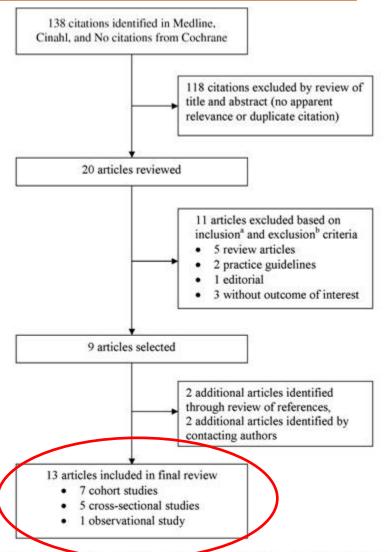
O: prognosis, symptoms, or QOL

F - 研究是否找到 (Find) 所有的相關證據?

Medline, Cinahl, and the Cochrane Library were searched for records in any language indexed between the beginning of the database and March 1, 2011. Searches combined the following terms: (end-stage renal disease OR end-stage renal failure OR stage 5 CKD OR advanced CKD) AND (nondialytic OR conservative management OR palliative care). "Palliative care" is a Medical Subject Headings (MeSH) term; the other search terms were entered as keywords. For consistency, the same search strategy was used in each database. Given the difficulty in translating our particular research questions into concise search terms, extensive additional strategies were pursued to capture any articles that might have been missed in the database searches. Bibliographies of identified articles were reviewed. Authors of included articles and several academic nephrologists were contacted. Finally, abstracts were reviewed from the most recent meetings of the American Society of Nephrology, the World Congress of Nephrology, the Renal Association, and the British Renal Society.

評讀結果: ■是 □否 □不清楚 說明:

Study inclusion and exclusion flow diagram.



^aInclusion criteria: 1) study of chronic kidney disease, 2) patients have stage 5 or "end-stage" disease, 3) at least some patients in the study are managed without dialysis, 4) outcomes include prognosis, symptoms, and/or quality of life, 5) original research.

⁶Exclusion criteria: 1) study of acute renal failure, 2) review article, practice guideline, editorial, or letter.

沒有顯而易見的關

聯或雙重的引證

A - 文獻是否經過嚴格評讀 (Appraisal) ?

Articles were assessed for quality using the SORT system. ¹⁴ This system was chosen because it includes extensive guidelines for cohort and cross-sectional studies, the most common research designs among included articles. It assigns level of evidence 1, 2, or 3 based on study design and specific validity criteria; level of evidence 1 is the highest rating.

評讀結果:	■是	□否	□不清楚	說明:
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I - 是否只納入 (included) 具良好效度的文章?

Articles were assessed for quality using the SORT system. ¹⁴ This system was chosen because it includes extensive guidelines for cohort and cross-sectional studies, the most common research designs among included articles. It assigns level of evidence 1, 2, or 3 based on study design and specific validity criteria; level of evidence 1 is the highest rating.

TABLE 1. STUDIES INCLUDED IN SYSTEMATIC REVIEW

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Reference	Study design	Study follow-up	Level of evidence ^a
Carson et al., 2009 ²¹	Prospective cohort study of patients with GFR < 30 and age ≥ 70 receiving either CM or dialysis	95.0%	1
Chanda et al., 2010 ¹⁷	Retrospective cohort study of patients with GFR < 15 receiving either CM or dialysis	n/a	2
Ellam et al., 2009 ¹⁹	Retrospective cohort study of patients with GFR < 15 receiving CM	n/a	2
Joly et al., 2003 ²⁰	Prospective cohort study of patients with CrCl<10 and age ≥80 receiving either CM or dialysis	100%	1
Murtagh et al., 2007 ¹⁸	Retrospective cohort study of patients with GFR < 15 and age > 75 receiving either CM or dialysis	n/a	2
Smith et al., 2003 ¹⁵	Prospective cohort study of patients with GFR < 15 recommended for CM by multidisciplinary team	100%	1
Wong et al., 2007 ¹⁶	Prospective cohort study of patients with GFR < 30 receiving CM	100%	1
DeBiase et al., 2008 ²⁹	Observational study of patients with age >75 and GFR<15 recommended for CM	n/a	2
Murphy et al., 2009 ²⁵	Cross-sectional survey of patients with GFR < 30 receiving CM	n/a	2
Murtagh et al., 2007 ²²	Cross-sectional survey of patients with GFR < 15 receiving CM	n/a	2
Murtagh et al., 2010 ²³	Longitudinal survey of patients with GFR < 15 receiving CM, data presented from the month prior to death	n/a	2
Saini et al., 2006 ²⁴	Cross-sectional survey of patients with GFR < 15 receiving CM; survey also administered to comparison group of patients with terminal malignancy	n/a	2
Yong et al., 2009 ²⁸	Cross-sectional survey of patients with GFR < 15 receiving either CM or dialysis	n/a	2

GFR, glomerular filtration rate; CM, conservative management; CrCl, creatinine clearance; n/a, not applicable.

^aBased on Strength of Recommendation Taxonomy (SORT) criteria: level of evidence 1=good-quality, patient-oriented evidence; level of evidence 2=limited-quality, patient-oriented evidence; level of evidence 3=other evidence.

評讀結果:

是

一香

■ 不清楚

說明:

T-作者是否以表格和圖表「總結」 (total up) 試驗結果?

Reference	Conservative management group	Dialysis group	Results
Carson et al., 2009 ²¹	median age 83.0 13.8% diabetes mean age-adjusted CCI score 7.4 n = 29	median age 75.0 29.5% diabetes mean age adjusted CCI score 7.2 n=173	median survival from first known date GFR ≤ 10.8°: 13.9 months (range 2-44) with CM 37.8 months (range 0-106) with dialysis p<0.01
Chanda et al., 2010 ¹⁷	mean age 77.5 68.4% over age 75 35.5% diabetes 49.7% high comorbidity n=155	mean age 58.5 11.2% over age 75 34.3% diabetes 17.3% high comorbidity n=689	median survival from first known date GFR < 15: 21.2 months with CM ^b 67.1 months with dialysis ^b p < 0.001
Ellam et al., 2009 ¹⁹	median age 80 38% diabetes 32% ischemic heart disease n=69	None	median survival from first known date GFR< 15: 21 months (range 1–100) with CM
Joly et al., 2003 ²⁰	mean age 84.1 51.4% late referral to nephrology 21.6% diabetes 48.6% ischemic heart disease 43.3% socially isolated n=37	mean age 83.2 28.9% late referral to nephrology 65% diabetes 42.5% ischemic heart disease 14.7% socially isolated n=107	median survival from first day of dialy: or decision not to perform dialysis: 8.9 months (95% CI 4–10) with CM 28.9 months (95% CI 24–38) with dialys p < 0.0001
Murtagh et al., 2007 ¹⁸	median age 83 23.4% diabetes n=77	median age 79.6 25.0% diabetes n=52	median survival from first known date GFR < 15: 18.0 months (range 0.1–73.1) with CM 19.6 months (range 2.2–84.2) with dialy
Smith et al., 2003 ¹⁵	n=34 ^c	n=10°	median survival from proposed date of dialysis initiation: 6.3 months (range 0-46) with CM 8.3 months (range 2-20) with dialysis
Wong et al., 2007 ¹⁶	median age 79 mean GFR 12 28% diabetes 34% ischemic heart disease n=73	None	median survival from decision not to perform dialysis: 23.4 months with CM ^b

CCI, Charlson Comorbidity Index; GFR, glomerular filtration rate; CM, conservative management.

[&]quot;Mean GFR at time of dialysis initiation was 10.8 in the dialysis group, so this was used as the "threshold GFR" from which survival was measured.

^bRange/confidence interval not reported.

^cDemographic variables were only reported for conservative management and dialysis groups combined: mean age 71, mean modified Kamofsky Performance Scale score 55, 27% diabetes.

Symptoms or QOL IENT

Refere	ence	CM group	Comparison group	Symptoms in CM group	Other outcomes
DeBia	ase et al., 2008 ²⁹	mean age 815 mean GFR 112 mean number of comorbidities 5.7 n=11	mean age 79.4 mean GFR 9.0 mean number of comorbidities 2.6 n=5 (dialysis patients)	not reported	similar quality of life between groups*
Murp	hy et al., 2009 ²⁵	mean age 82 mean GFR 12.75 n=55	none	weakness 75% poor mobility 75% poor appetite 58% pain 56% pruritus 56% dyspnea 49%	mean number of symp- toms 6.8 (range 1–14)
Murta	agh et al., 2007 ²²	mean age 82 mean GFR 11.2 n=66	none	lack of energy 76% pruritus 74% drowsiness 65% dyspnea 61%	mean number of symp- toms 11.58 (range 0-22)
weakness, lack of pruritus, drowsine and difficulty slee	ess, dyspr			edema 58% pain 53% dry mouth 50% muscle cramps 50% restless legs 48% lack of appetite 47% poor concentration 44% dry skin 42%	
Murt	agh et al., 2010 ²³	mean age 80.9 mean GFR 11.0 n=49	none	sleep disturbances 41% lack of energy 86% pruritus 84% drowsiness 82% dyspnea 80% poor concentration 76% pain 73% poor appetite 71% swelling 71% dry mouth 69% constipation 65% nausea 59%	median number of symptoms 16.6 (range 6–27)
Saini	et al., 2006 ²⁴	median age 67 median GFR 11.4 median KPS 90 n=11	median age 63 median GFR 81.3 median KPS 80 n=11 (patients with termi malignancy ^b)	lack of energy 100% dyspnea 82% difficulty sleeping 82% swelling 73% pain 64% numbness/tingling 64% food taste changes 55% pruritus 55% lack of appetite 55% changes in skin 55%	median number of symptoms: 17 (range 11–24) in CM group; 15 (range 5–23) in malignancy group similar quality of life between groups ^c
Yong	et al., 2009 ²⁸	mean age 73.1 mean CCI score 8.5 n = 45	mean age 58.2 mean CCI score 6. n=134 (dialysis patients)	cold aversion 78% fatigue 69% pruritus 58% lower torso weakness 58% difficulty sleeping 49%	mean number of symp- toms±SD: 82±3.9 with CM 93±4.7 with dialysis similar quality of life
評讀結果:■是	□否	□不清楚	說明:	pain 49% dvspnea 47%	between groups ^a

H - 試驗的結果是否相近 - 異質性 (Heterogeneity)?

Data was then abstracted independently by two authors (NO and PK). The data abstraction was cross-checked by both authors, and any differences were resolved by discussion and consensus. Meta-analysis was not performed due to wide variability in study populations and different methods of measuring outcomes. The articles were therefore analyzed descriptively with an emphasis on trends.

評讀結果: □是 ■ 否 □不清楚 説明:

如何應用於臨床

STEP 1: Begin at time of Diagnosis

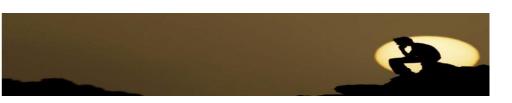
(1)辨識合適的病患

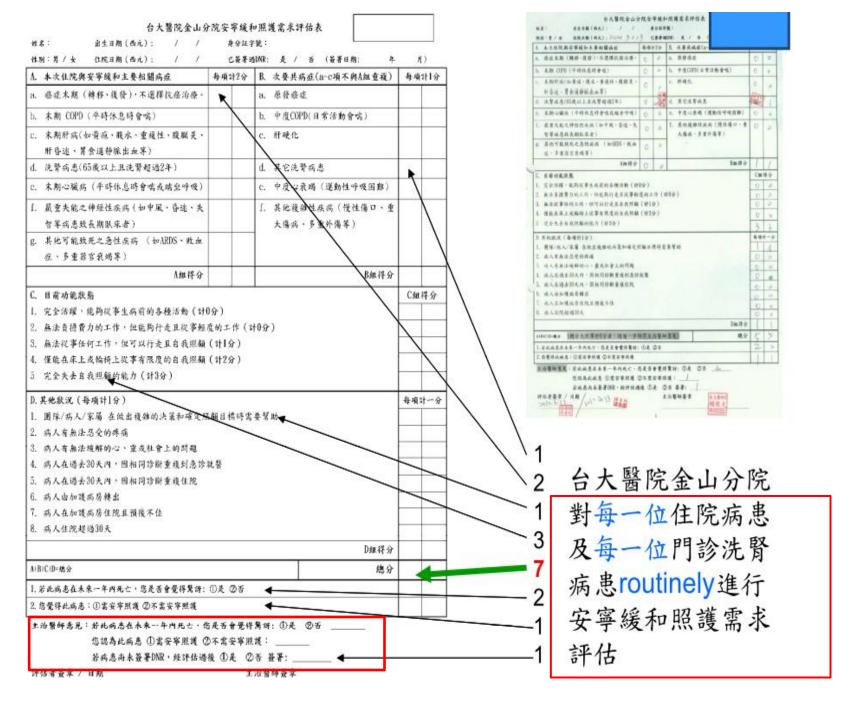
停止透析治療的臨床狀況

(美國腎臟科醫師協會共同決策 適當開始與停止治療透析指引2010)

對於以下情形患者,可考慮不予或終止透析治療:

- 1.病人無法配合洗腎,例如dementia會自拔針
- 2.病人透析狀況不穩定,如透析過程嚴重低血壓
- 3.其他非腎臟病原因造成的生命末期狀態:如末期心臟、肺臟、肝臟疾病
 - ,嚴重不可逆神經病變等
- 4.75歲以上慢性腎臟病第5期病人且預後不良,符合2項標準以上:
- (1)驚訝問題:病人在一年內死亡,照護團隊病不驚訝(2)多重嚴重共病症
- (3)明顯生活功能不良(4)嚴重慢性營養不良,如血清白蛋白<2.5g/dl





如何應用於臨床

STEP 2: Continues throughout patients' Life

- (1)評估病人的意識與完整判斷能力
- (2)確定是否已有預立醫囑或醫療委任代理人
- (3)評估是否存在可矯正的因子 (treat / hold)
 - chronic debility(慢性衰弱), depression, pain,
 muscle cramp, repeat vascular access failure...
- (4)多專業團隊評估
- (5)家庭會議共同決策(shared decision-making)

CKD衛教師的 角色與功能

CKD與透析族群的教育

- 1.宣導安寧緩和醫療的觀念
- 2.建立全員共識將 "不透析的內科 治療" 視為 ESRD患者治療的第 四種選擇
- 3.提倡預立醫囑之觀念: advance care planning (ACP)
 - Health care proxy / decision maker
 - DNR / do not intubate (DNI) / allow natural death (AND)
 - POLST (Physician orders for life-sustaining treatment)
- 4.健保卡註記

Family meeting: 4 topics method

1.治療方案的臨床適應症	2.病人意願與喜好
● 病人的年齡(根據其生活功能判斷)	建立生活藍圖(例如「無病痛生活」、能待在家中、活得越
● 病人是健康、脆弱(vulnerable)或虚弱(frail)?	越好)
有哪些透析病患的存活率數據可以參考?	● 發掘病人的過去事蹟來講故事(narrative)
● 有哪些老化敏感因子(geriatric susceptibility factors)?	• 家屬的參與
護理之家病人是否不同?	▶ 認知功能障礙與無決定能力是普遍存在的
	▶ 醫療代理決定的狀況很常發生 scenario
根據以上項目評估病人是否適合進行透析或不透析治療處置?	● 應做好以下準備:
Dhysisians must advise nationts and	▶ 個人喜好可能因時間與新事件的發生而改變
Physicians must advise patients and	▶ 有些病人無法自己做決定或表達其喜好
guide them away from unwise	有些病人想要得到有限的資訊或不想要資訊,由別人
	, 万三的八心头们对为似的美丽老门心头美丽。田加八
decisions.	代為決定
decisions. 3 生活品質	
	代為決定
3 生活品質 → 沒有統一的標準	代為決定 4.社會經濟文化因素
3 生活品質 ◆ 沒有統一的標準	代為決定 4.社會經濟文化因素 ◆ 家屬是否文持病人的決定? ◆ 家屬之間是否存在意見分歧?
3 生活品質 ▼ 沒有統 的標準 ● 個人價值判断	代為決定 4.社會經濟文化因素 ◆ 家屬是否文持病人的決定? ◆ 家屬之間是否存在意見分歧?
3 生活品質 ◆ 沒有統一的標準 ◆ 個人價值判斷 ◆ 有些客觀評斷因素,但家屬可能並未想到,如:末期失智症	代為決定 4.社會經濟文化因素 ◆ 家獨是否支持兩人的決定? ● 家獨之間是否存在意見分歧? ◆ 對病人願望(wishes)的描述是否一致

NephSAP 2011;10:67-78

如何應用於臨床

STEP 3: Team Commitment & build-up caring Capabilities
(團隊的承諾與建立照護的能力)

- 1. Simultaneous care model.
- 2. Time-limited trial of dialysis.
- 3. Withdraw dialysis.

TIME-LIMITED TRIALS OF DIALYSIS

限時透析治療嘗試

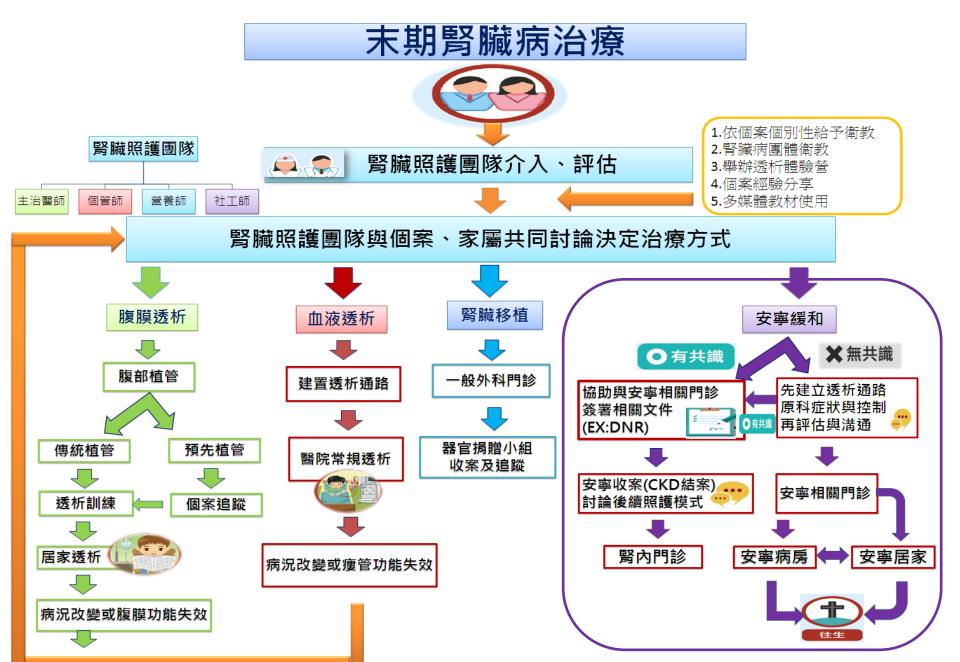
- ○合適對象:
- 1.需要透析,但預後不確定或暫時無法決定者,於尋求衝突解決過程或緊急情況時,先緊急透析。
- 2.選定1到3月並事前決定觀察指標及評估參數。
- 3.不論是腎臟科醫師、病人,委任醫療代理人,或在病人 授權下參與的家屬,都需取得共識。
- 4.於此期間親自經歷透析治療的利益與負擔,以便在觀察期結束時,根據指標判定透析治療對病人的利弊及是否應繼續透析治療之決策參考。

如何應用於臨床

停止透析後的症狀舒緩照護 (comfort care)

- 1.存活期中位數 存活期中位數: 8~10天
 - 常見症狀: pain, agitation, dyspnea, anxiety, myoclonus, fever, edema, pruritus, diarrhea, dysphagia, and nausea
- 2.病患與家屬心理宗教與心靈的支持
- 3.家屬的悲傷輔導與調適 家屬的悲傷輔導與調適
- 4.社區型的安寧緩和居家照護系統

腎臟照護團隊照護流程介紹



提問

針對CKD第五期未進入透析之個案,或已進入透析 之病人,以美國腎臟科醫師協會共同決策「適當開 始與停止治療透析指引2010」為依據,訂定「透 析安寧照護需求評核表」、並制定照護流程?





1人再評估

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謝謝聆聽 敬請指教

