Common mental problems in elderly

Delirium, Confusion, Dementia, Depression

本講義表格資料取自Dains, J.E., Baumann, L.C., & Scheibel, P. (2007). Advanced assessment and clinical diagnosis in primary care. (3rd ed). St. Louis: Mosby.

圖片取自Seidel HM, Ball JW, Dains JE, Benedict GW. (1999). <u>Mosby's guide to physical examination</u>. St. Louis, MO: Mosby.

Delirium

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- Onset abrupt;
- Fluctuation over course of day common with lucid intervals during day and worst symptoms at night
- Lasts hours to weeks
- Unable to maintain attentions to external stimuli;
- Disorganized thinking, perceptual disturbance
- Disturbed sleep/wake cycle
- Hallucinations, usually visual
- Decreased LOC, impaired arousal, decreased psychomotor activity, Disoriented most commonly to time
- Exhibits asterixis(蹼翼樣震顫), tremor, and difficult in motor relaxation
- Speech incoherent, hesitant

DSM-IV-TR Criteria for Diagnosis of Delirium

- A. Disturbance of consciousness (i.e. reduced clarity or awareness of the environment) with reduced ability to focus, sustain, or shift attention.
- B. Change in cognition (i.e. memory deficit, disorientation, language disturbance) or the development of perceptual disturbance that is not better accounted by preexisting, established, or evolving dementia.
- C. Disturbance develops over a short period of time (usually hours to days) and tends to fluctuate during the course of the day.
- D. History, physical examination, or laboratory evidence indicates that the disturbance is a direct physiological consequence of a general medical condition, substance intoxication, or medication side effect.

Confusion



- Less abrupt, less severe than delirium;
- Diurnal variation less severe than delirium
- Concentration impaired; easily distract; errors in thinking
- Apathetic, drowsy, disoriented esp. for time, but less for place, almost never for self

Dementia

- Chronic generalized impairment of brain function, affects thinking but not level of consciousness
- Onset insidious, course stable through day and night
- Present for months or years, with progressive deterioration;
- Recent and remote memory impaired
- Hallucinations usually absent until late in course of disease
- Sleep often fragmented
- Alert, attentive, orientation usually impaired
- Tries hard on mental examine and provide near miss answers
- Demonstrate one or more of the following cognitive disturbance: aphasia失語症, apraxia失用症, agnosia認識不能
- Disturbance in executive functioning
- Speech usually unimpaired although difficult with finding words.

Cause of Dementia

Reversible cause of dementia

D drugs/medications

E emotional illnss/depression

M metabolic/edicrine disorders

E eye/ear involvement/environmental

N nutritional/neurological

T tumors/trauma

I Infection

A alcoholism/anemia/ atherosclerosis

Modifiable cause of dementia

- Normal pressure hydrocephalus
- Hepatic encephalopathy
- HIV encephalopathy

Irreversible cause dementia

- Alzheimer's disease
- Multi-infarct dementia
- Huntington chorea

DSM-IV-TR Criteria for Diagnosis of Dementia

- A. The development of multiple cognitive defects manifested by both:
 - 1. memory deficit (cannot learn new or previous information)
 - 2. one or more of the following cognitive disturbance
 - a. aphasia (language disturbance)
 - b. apraxia (impaired ability to carry out motor activities despite intact motor function)
 - c. agnosia (failure to identify or recognize objects despite intact sensory function)
 - d. Disturbance in executive functioning (planning, organizing, sequencing, abstrscting)
- B. The cognitive deficit in A1 and A2 cause considerable impairment in social or occupational functioning and represent substantial decline from a previous level of functioning.

簡易智能量表 (MMSE)

簡易智能量	表(MMSE)	×磨绳×
項目	情况描述	
定向感 (共十分)	□ 1分:今年是那一年? □ 1分:我們現在是在表現 1分:我們現在是在表現 1分:今天是幾日? □ 1分:這棟建築是做付 □ 1分:這種的名稱或 1分:現在是什麼季節? □ 1分:現在是什麼季節? □ 1分:現在我們是在我們是在我們是在我們是在我們是在我們是在我們是在我們是在我們是在我們是	那一個郷、鎮? 什麼用的? 這裡是哪一科?
記錄登錄 (共三分)	□ 1分:樹木『牡丹』 請重複這三個名稱,按第一次複述結果計 □ 1分:剪刀『汽車』 最多只能重複練習三次;練習次數: □ 1分:火車『石頭』	分 [,]
注意力與計算能力 (共五分)	 □ 1分:93	主到我說停為止。
記憶 (共三分)	□ 1分:樹木『牡丹』 請病人回想記錄登錄所記的三個 5 □ 1分:剪刀『汽車』 □ 1分:火車『石頭』	東西。
語言 (共八分)		
建構能力 (共一分)	□ 1分:這裡有一個圖形,請在旁邊畫出一個相同的圖形。	8

簡易心智狀態問卷 (SPMSQ)



分數 情况描述	
□ 1分 □ 現在是幾年? □ 現在是幾月? □ 現在是幾日? □ 現在是幾 全都對才算分。	急時?
□ 1分 今天是星期幾?	
□ 1分 您現在身在何處?	
□ 1分 您家裡的電話或地址?	
□ 1分	
□ 1分 您的出生年月日或生肖?	
□ 1分 現任總統是誰?	
□ 1分 前任總統是誰?	
□ 1分 您的母親姓氏為何?	
請從20開始減3,共減五次,每減一次請回答是多少? □ 1分 □ 20-3=17, □17-3=14 □14-3=11 □11-3=8 □ 8-3=5 全都對才算分。	5
10至8分表認知功能完整 7至6分表輕度認知功能損傷 分數說明 5至3分表中度認知功能損傷 2至0分表重度認知功能損傷	
	9

Depression

- Onset of confusion often abrupt, with some diurnal variation, generally more consistent over time than delirium.
- Confusion of short duration
- Cognitive losses fluctuating rather than stable over time
- Sleep/appetite disturbance
- Hallucination usually absent although person may have suicidal thoughts.
- Depressed or anxious mood; tends to highlight disabilities, esp. memory
- Memory loss equal for recent and remote events
- Physical examination often normal.
- Depression as a cause of confusion esp. in elderly, is considered a reversible cause of dementia.
- When anxiety symptoms are also present, depression may manifest as mild delirium

老人憂鬱量表(GDS)簡式

S 462	1± m 101 x 12
分數	
□ 1分	請評估過去一星期中的情況:基本上,您對您的生活滿意嗎?(否,得1分)
□ 1分	您是否常常感到厭煩? (是,得1分)
□ 1分	您是否常常感到無論做什麼,都沒有用?(是,得1分)
□ 1分	您是否比較喜歡待在家裡而較不喜歡外出及不喜歡做新的事?(是,得1分)
□ 1分	您是否感覺您現在活得很沒有價值?(是,得1分)
□ 1分	您是否減少很多的活動和嗜好?(是,得1分)
□ 1分	您是否覺得您的生活很空虛? (是,得1分)
□ 1分	您是否大部份時間精神都很好?(否,得1分)
□ 1分	您是否害怕將有不幸的事情發生在您身上嗎? (是,得1分)
□ 1分	您是否大部份的時間都感到快樂?(否,得1分)
□ 1分	您是否覺得您比大多數人有較多記憶的問題?(是,得1分)
□ 1分	您是否覺得現在還能活著是很好的事?(否,得1分)
□ 1分	您是否覺得精力很充沛?(否,得1分)
□ 1分	您是否覺得您現在的情況是沒有希望的? (是,得1分)
□ 1分	您是否覺得大部份的人都比您幸福?(是,得1分)
	分數說明:分數≥10分:憂鬱症;5至9分:可能憂鬱

譜忘、意識混亂、失智症、憂鬱常見原因 <i>之鑑別診斷</i>			
診斷	病史	身體評估發現	診斷性檢查
· · · · · · · · · · · · · · · · · · ·	發情於晚重時法刺無考睡期多突動天症持數持的織知/亂為然;清狀續週對注性覺覺;幻然;精醒最數;外意的障醒幻覺病見和嚴小無界力思礙週覺	降醒活向方發原出震難吞快、運乏時查妄人姿弛、慢災力力面現因現顫;吐然, 是 是 是 是 是 是 是 是 是 是 是 是 是 是 是 是 是 是 是	全電尿酐(L檢BC)、由酸 (CBC)。血 (CBC)。血 (CBC)。血 (CBC)。血 (BUN)。 (BUN) (BUN

譜忘、意識混亂、失智症、憂鬱常見原因 <i>之鑑別診斷</i>			
診斷	病史	身體評估發現	診斷性檢查
意識混亂	突然發作,沒	冷漠、啫睡;失去	全血球計數、電解質、
	像譫妄那麼嚴	定向感特別是時間	血糖、血中尿素氮、
	重;病情日夜	定向感,但少對地	肌酸肝、肝功能檢查、
	變化但沒有譫	點失去定向感,幾	甲狀腺功能檢查、維
	妄明顯;注意	乎沒有自身定向感	生素B ₁₂ 、梅毒血清檢
	力受損、容易	障礙;運動徵象比	查、動腦血液氣體分
	分神;常見思	譫妄輕微	析、葉酸、毒物篩檢、
	考錯誤		血酒精濃度、尿素氮
			/肌酐比值、腦波圖、
			胸部X光攝影、腰部
			穿刺、電腦斷層掃描
			或核磁共振攝影(當懷
			疑有腦中風或損傷時
			應安排檢查)

譫忘、意識混亂、失智症、憂鬱常見原因 之鑑別診斷			
診斷	病史	身體評估發現	診斷性檢查
失智症	潛一穩幾年衰和受覺病眠段伏天定個;退遠損一晚經的性中;月進;期;直期常發病持或展近記無到;是作程續幾性期憶幻疾睡片、	清受當表失而不感劃 體能,失徵射異常力案括失而不感劃 體能,失徵射異常力案括失而不感劃 體能,失徵射異常力案括失而不感劃 體能,失徵射異常力紊活,而不感劃 體能,失徵射異常力紊活,而不感劃 體能,失徵射異常力紊活,而不感劃 體能,失徵射異常力紊活,而不感劃 體能,失徵射異常力紊光,	全血肌甲生查析血/胸穿或疑對用造

譜忘、意識混亂、失智症、憂鬱常見原因 <i>之鑑別診斷</i>			
診斷	病史	身體評估發現	診斷性檢查
憂鬱	常日一現識症有史診、伏睡~與有但突夜般更混時過,斷認相眠;自通然有比穩亂間去包的知當/雖殺常務些譫定比短精括憂喪穩食然想無病變妄;失;神未鬱失定慾病法幻,化表意智常病被 起;障人,覺	憂傾別近憶 動強制 動態 動態 動態 動態 動態 動態 動態 動態 動態 動態 動態 動態 動態	老血血肌甲生查析血/胸穿或疑等質氮檢、清體節素與 無點 無點 無點 要有 在 那 是 在 那 那 的 的 , 的 是 , 他 是 , 他 是 , 他 是 , 他 是 , 他 是 , 他 是 , 他 是 , 他 是 , 他 是 , 他 是 , 他 是 , 他 是 , 他 是 , 他 是 , 他 是 , 他 是 , 他 是 , 他 是 , 他 是 是 , 他 是 , 他 是 是 , 他 是 是 , 他 是 是 , 他 是 是 , 他 是 是 , 他 是 是 , 他 是 是 是 , 他 是 是 , 他 是 是 , 他 是 是 , 他 是 是 是 , 他 是 是 , 他 是 是 是 , 他 是 是 , 他 是 是 是 , 他 是 是

Diagnostic Reasoning: Focused Hx

Is This a Condition That Requires Immediate Intervention?

- How suddenly did the confusion start?
- Is the patient alert and aware of time, person, and place?
- Has the patient expressed thoughts of suicide (in word or actions)?
- Does the patient use alcohol or other drugs?

Confusion that is acute onset and persistent may indicate delirium.

If the onset is gradual and the patient is not seriously ill, consider depression or dementia

Suicidal ideation may accompany depression requires immediate intervention

Distinguishing Characteristics of confusion.

- Was the onset of the confusion abrupt (i.e., over a period of minutes or hours) or gradual (i.e., a few days, weeks, or months)?
- Does the confusion change within a 24hour period (stable or fluctuating) ?
- Is there a change in the sleep pattern?
- Is the patient alert and aware?
- Has the patient experienced seeing, hearing, or feeling things that are not there? (common with delirium)
- Is there any history of head trauma?

Confusion that is abrupt onset but short-lived may indicate a TIA

Sudden onset, usually over a period of hours indicating delirium. (Delirium persists but no longer than 1 month.

With delirium, symptoms may fluctuate over the course of a day and are worst at night and with fatigue. The sleep/wake cycle is fragmented, and the patient tends to be restless and agitated and has hallucinations while awake during the night.

Person with depression and dementia is alert and aware, with delirium is decreased in consciousness.

Are there Any Associated Symptoms That Will Point Me in the Right Direction?

- Has the patient shown any tremor, especially at rest?
- Has the patient had any trouble walking?
- Has the patient complained of severe headache and/ or nausea?
- Has the patient had a fever?
- Does the patient engage in his/ her usual activities?

Tremors are associated with parkinsonism, HIV encephalopathy, and liver disease.

Gait disturbance is associated with parkinsonism, medication reaction, and head trauma.

Head and nausea are associated with head trauma, stroke and tumor

Fever is usually present with infection.

Patients with depression may exhibit vegetative symptoms and feeling of worthlessness

What Does the Pattern of Cognitive Losses Tell Me

- What specific problems with mental abilities or thinking have you noticed?
- What behavioral changes or personality Changes have you noticed?

Patients with delirium have global cognitive losses that involve memory, thinking, perception, and judgment. They may completely disoriented, irritable, and fearful. They may be difficult to arousal or conversely have insomnia. They may also present visual hallucination.

Dementia presents with selective cognitive losses, cannot remember recent events, disoriented, irritable or depressed, poor hygiene, poor judgment, make financial errors, socially withdrawn, have difficulty finding or saying right words, are clumsy or fall, have urinary incontinence, deteriorating interpersonal relationship and show personality change.

Person with depression exhibits apathy and drowsiness, impaired concentration, and errors in thinking, severe negative thinking.

Is the Confusion Caused by a Concurrent Health Problem?

- Does this patient have any chronic health conditions
- Has the patient been hospitalized recently, and if so, for what reason?
- Has the patient been acutely ill recently?
- Is there a history of mental illness or similar thought disturbance?

Many systemic conditions associated with confusional states: hypoxia, toxic metabolite, electrolyte imbalance, ...

Could the Confusion Be Caused by Medication ?

- What medications is the patient taking?
- Is the patient taking the medications correctly?

What Risk Factors Do I Need to Consider?

- How old is the patient?
- How many medications is the patient taking?
- Is the patient HIV positive?
- Has the patient experienced recent life losses?

Older adults are at risk for the development of confusion, delirium, dementia and depression.

Dementia occurs in approximately $5\sim10\%$ in age $65\sim80$, 20% in >80 y/o, and almost half of >85 y/o

Diagnostic Reasoning-Focused PE

- Take Vital Signs
- Note Level of Consciousness
- Perform a Mental Status Examination
- Perform a Complete Neurological Examination
 - Cranial Nerves
 - Proprioception and Cerebellar Function
 - Sensation (Primary and Cortical)

- Reflexes
- Moto Tone and Function
- Language
- Localizing and Lateralizing Signs in Central Nervous System
- Perform a Respiratory Examination
- Evaluate the Cardiovascular System
- **Examine the Abdomen**

Lab and diagnostic studies



- Complete Blood Cell Count
- Blood Chemistry
- Thyroid Function Tests
- Serum B12 and Folate
- Serology for Syphilis
- Arterial Blood Gases
- Toxicology Screen and Blood Alcohol Level

- Urinalysis
- Chest Radiograph
- Lumbar Puncture
- Electrocardiography
- Electroencephalography
- Computed Tomography or Magnetic Resonance Imaging
- Positron Emission Tomography (PET Scan)

