COMPSCI 367 Assignment 2

Prototype Knowledge-Based System

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Introduction to Domain

The domain chosen is called the DSM-IV Classification and is used to in diagnosing a patient's mental disorder(s) and to rule out other mental disorders. It is intended to be relevant in a wide array of circumstances and used by clinicians and researchers of many different orientations (e.g., biological, psychodynamic, cognitive, behavioural, interpersonal, family/systems). DSM-IV is designed for use across different settings, inpatient, outpatient, partial hospital, consultation-liaison, clinic, private practice, and primary care, and with community populations and by psychiatrists, psychologists, social workers, nurses, occupational and rehabilitation therapists, counsellors, and other health and mental health professionals.

The various types of disorders are:

- Disorders due to a General Medical Condition (A nodes).
- Substance-Induced Disorders (B nodes).
- Psychotic Disorders (C nodes).
- Mood Disorders (D nodes).
- Anxiety Disorders (E nodes).
- Somatoform Disorders (F nodes).

Knowledge Sources and Methods of Elicitation

Elicitation of the knowledge was done through the Internet, and various books. Knowledge was also obtained from my partner, as she is studying to be a nurse, and is currently working at a mental hospital, because of this I considered her to be an expert. She helped to ensure that the system made sense and is easy to understand.

Websites include:

- <u>http://www.psyweb.com</u>
- <u>http://aafp.org</u>
- <u>http://www.findarticles.com</u>

Books include:

- Diagnostic and Statistical Manual of Mental Disorders DSM-IV-TR (Text Revision), by Task Force on DSM-IV, American Psychiatric Association.
- DSM-IV Made Easy by James Morrison.
- Interview Guide for Evaluating DSM-IV Psychiatric Disorders and the Mental Status Examination by Mark Zimmerman.

Intermediate Knowledge Level Representation – Decision Trees









Knowledge description (using pseudocode (IF THEN rules))

lf	А	then	AA	else	В	lf	CF	then	CE	else	CG	lf	FG	thenF5		
	В	then	BA	else	С	lf	CG	then	C10	else	C9	lf	FH	thenFL	else	FI
lf	С	then	CA	else	D	lf	СН	then	CJ	else	CI	lf	FI	thenF3	else	FJ
lf	D	then	DA	else	E						C3	lf	FJ	thenF2	else	F1
lf	Е	then	EA	else	F	lf	CJ	then	C6	else	C5	lf	FK	thenF11	else	F10
lf	F	then	FA	else	1	lf	DA	then	DA1	else	DB	lf	FL	thenCA	else	F4
lf	AA	then	AK	else	AB	lf	DB	then	DB1	else	DC	lf	C9	thenDA		
lf	AB	then	AL	else	AC	lf	DC	then	DC1	else	DD	lf	DA1	thenDC		
lf	AC	then	A9	else	AD	lf	DD	then	DD1	else	DE	lf	DB1	thenDC		
lf	AD	then	A8	else	AE	lf	DE	then	DM	else	DF	lf	DC1	thenDD		
lf	AE	then	A7	else	AF	lf	DF	then	D10	else	DG	lf	DD1	thenDE		
lf	AF	then	A6	else	AG	lf	DG	then	D9	else	DH	lf	D13	thenCA		
lf	AG	then	A5	else	AH	lf	DH	then	D8	else	DI	lf	D12	thenCA		
lf	AH	then	A4	else	AI	lf	DI	then	DO	else	DJ	lf	D7	thenCA		
lf	AI	then	A3	else	AJ	lf	DJ	then	D4	else	DK	lf	D6	thenCA		
lf	AJ	then	A2	else	A1	lf	DK	then	D3	else	DL	lf	E7	then		
lf	AK	then	A17	else	A16	lf	DL	then	D2	else	D1	lf	F3	thenCA		
lf	AL	then	AM	else	A10	lf	DM	then	DN	else	D11					
lf	AM	then	A15	else	AN	lf	DN	then	D13	else	D12					
lf	AN	then	A14	else	AN	lf	DO	then	DP	else	D5					
lf	AO	then	A13	else	AO	lf	DP	then	D7	else	D6					
lf	AP	then	A12	else	A11	lf	ΕA	then	ΕK	else	EB					
lf	ΒA	then	ΒK	else	BB	lf	EΒ	then	E12	else	EC					
lf	BB	then	ΒM	else	BC	lf	EC	then	E11	else	ED					
lf	BC	then	B9	else	BD	lf	ED	then	E10	else	EE					
lf	BD	then	B8	else	BE	lf	EE	then	E9	else	EF					
lf	ΒE	then	B7	else	BF	lf	EF	then	E8	else	EG					
lf	ΒF	then	B6	else	BG	lf	EG	then	EL	else	EH					
lf	BG	then	B5	else	BH	lf	ΕH	then	ΕM	else	EI					
lf	BH	then	B4	else	BI	lf	ΕI	then	E3	else	EJ					
lf	BI	then	B3	else	BJ	lf	EJ	then	E2	else	E1					
lf	BJ	then	B2	else	B1	lf	ΕK	then	E14	else	E13					
lf	ΒK	then	B15	else	BL	lf	EL	then	E7	else	E6					
lf	BL	then	B14	else	B13	lf	ΕM	then	EN	else	EI					
lf	ΒM	then	ΒN	else	B10	lf	ΕN	then	E5	else	E4					
lf	ΒN	then	B12	else	B11	lf	FA	then	F12	else	FB					
lf	CA	then	CD	else	СВ	lf	FB	then	FK	else	FC					
lf	СВ	then	СН	else	CC	lf	FC	then	F9	else	FD					
lf	CC	then	C2	else	C1	lf	FD	then	F8	else	FE					
lf	CD	then	CF	else	CE	lf	FE	then	F7	else	FF					
lf	CE	then	C8	else	C7	lf	FF	then	F6	else	FG					

List of Rules in CLIPS syntax

• Whenever a question or answer appears in "", please refer to the list of values in the appendices.

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Test problems

Patient has had Delusions and Catatonic Behaviour that has lasted longer than 6 months, has no general medical condition and does not abuse drugs or medication. This results in a diagnosis of **Schizophrenia Disorder**. Inputs: No, No, Yes, Yes, No, Yes. Output: Schizophrenia Disorder.

Patient has an irritable mood that has lasted 4-6 days, depression for more than 2 weeks, has no general medical condition, does not abuse drugs or medication, has never had a manic or mixed episode, but a hypomanic and major depressive episode. This results in a diagnosis of **Bipolar II Disorder**. Inputs: No, No, No, No, Yes, Yes, No, No, Yes.

Output: Bipolar II Disorder.

Installation Instructions

Should be able to run on any operating system that can run JESS. Ensure all files are in the main JESS directory and then just run using the following instructions.

- java jess.Console
- (batch disorders.clp)

Questions can then be answered using "yes" or "no" answers to obtain a diagnosis.

Problems and Observations

It was fairly difficult finding all the information for the domain, this was probably due to the size of the domain. I considered narrowing the domain, but I thought it would not be complete if reduced at all.

It is fairly interesting to note that if the questions are asked on yourself how you can have some symptoms but not have them last long enough or have enough of them to be diagnosed with a disorder. This is fairly scary, as it is also fact that 1 in 5 are diagnosed with a disorder.

Appendix

List of question and answer values.

```
No Disorder Found.
1
  Symptoms due to a general medical condition?
А
Al No Mental Disorder Due To A General Medical Condition.
A10 SEE: Amnestic Disorder Due To A General Medical Condition.
All SEE: Dementia NOS.
A12 SEE: Dementia Of The Alzheimer's Type.
A13 SEE: Dementia Due To A General Medical Condition.
A14 SEE: Vascular Dementia.
A15 SEE: Dementia Due To Multiple Etiologies.
A16 SEE: Delirium Due To A General Medical Condition.
A17 SEE: Delirium Due To Multiple Etiologies.
A2 SEE: Mental Disorder NOS Due To A General Medical Condition.
A3 SEE: Personality Change Due To A General Medical Condition.
A4 SEE: Catatonic Disorder Due To A General Medical Condition.
A5 SEE: Sleep Disorder Due To A General Medical Condition.
A6 SEE: Sexual Dysfunction Due To A General Medical Condition.
A7 SEE: Anxiety Disorder Due To A General Medical Condition.
A8 SEE: Mood Disorder Due To A General Medical Condition.
A9 SEE: Psychotic Disorder Due To A General Medical Condition.
AA Disturbance in consciousness and cognitive changes?
AB Impairment in memory?
AC Delusions or hallucinations?
AD Persistent mood disturbance?
AE Persistent anxiety, panic attacks, or obsessions / compulsions?
AF Clinically significant sexual dysfunction?
AG Clinically significant disturbance in sleep?
AH Catatonic?
AI Personality changes?
    Clinically significant symptoms etiologically in nature and related to the general medical
AJ condition?
AK Evidence of more then one etiology?
AL One or more cognitive deficits?
AM Evidence of more then one etiology?
AN Evidence of cerebrovascular disease etiologically related to disorder?
    Evidence of central nervous system disorder or a sytemic disorder that is known to be related to
AO dementia?
AP Evidence of continuing cognitive decline with a gradual onset?
в
   Are the symptoms due directly to substance? (e.g. Drug abuse, alcohol abuse, ...)
B1 No Substance-Induced Disorder.
B10 SEE: Substance-Induced Persisting Amnestic Disorder.
B11 SEE: Substance-Induced Persisting Dementia.
B12 SEE: Dementia Due To Multiple Etiologies.
B13 SEE: Substance-Induced Intoxication Delirium.
B14 SEE: Substance-Induced Withdrawal Delirium.
B15 SEE: Delirium Due To Multiple Etiologies.
B2 SEE: Substance Related Disorder NOS.
B3 SEE: Substance withdrawal.
B4 SEE: Substance Intoxication.
```

- B5 **SEE:** Substance-Induced Sleep Disorder.
- B6 **SEE:** Substance-Induced Sexual Dysfunction.
- B7 **SEE:** Substance-Induced Anxiety Disorder.
- B8 SEE: Substance-Induced Mood Disorder.
- B9 SEE: Substance-Induced Psychotic Disorder. Disturbance in consciousness and cognitive changes, in excess of what's normally seen in BA intoxication or withdrawal?
- BB Ongoing impairment of memory?
- BC Delusions or hallucinations, in excess of what's normally seen in intoxication or withdrawal?
- BD Disturbance in Mood, in excess of what's normally seen in intoxication or withdrawal? Anxiety, Panic Attacks, or Obsessions / Compulsions actions, in excess of what's normally seen BE in intoxication or withdrawal?
- BF Clinically significant sexual dysfunction?
- BG Clinically significant disturbance in sleep?
- BH Symptoms from recently taking a substance and the symptoms are reversible?
- BI Symptoms due to reduction or stoppage, from taking the substance?
- BJ Clinically significant symptoms due to a substance(s)?
- BK Disorder in more then one etiology?
- BL Delirium started during withdrawal?
- BM Deficit in one or more cognitive areas?
- BN Disorder in more then one etiology?
- Symptoms include delusion(s), disorganised speech, grossly disorganised
- C behavior, or hallucination(s)?
- C1 SEE: Psychotic Disorder NOS.
- C10 **SEE:** Schizoaffective Disorder.
- C2 **SEE:** Brief Psychotic Disorder.
- C3 SEE: Psychotic Disorder NOS.
- C4 SEE: Mood Disorder With Psychotic Features. GO TO: Mood Disorder Flow Chart.
- C5 SEE: Psychotic Disorder NOS.
- C6 **SEE:** Delusional Disorder.
- C7 SEE: Schizophreniform Disorder.
- C8 SEE: Schizophrenia Disorder.
- C9 SEE: Mood Disorder With Psychotic Features. GO TO: Mood Disorder Flow Chart.
- CA One month or more of Schizophrenia active phase symptoms?
- CB One month or more of Non-bizarre delusions?
- CC Symptoms more then 1 day but less then 1 month?
- CD During Active phase, Major depressive or Manic Episode present?
- CE Symptoms 6 months or more?
- CF Duration of mood episode much less then the duration of the active and residual symptoms?
- CG Symptoms of delusions or hallucinations, with no prominent mood symptoms, 2 weeks or more?
- CH Duration of mood episode much less then the duration of the delusions?
- CI Delusions concurrent with mood episode?
- CJ Delusions but no other marked impairment?
- D Symptoms include depression, heighten, or irritable mood?
- D1 No Mood Disorder.
- D10 **SEE:** Bipolar II Disorder.
- D11 **SEE:** Bipolar I Disorder.
- D12 SEE: Bipolar Disorder NOS. (Superimposed on a Psychotic Disorder) GO TO: Psychotic Flow Chart.
- D13 <u>SEE:</u> Schizoaffective Disorder, Bipolar Type. GO TO: Psychotic Flow Chart.
- D2 SEE: Depressive Disorder NOS.
- D3 SEE: Adjustment Disorder With Depressed Mood.
- D4 SEE: Dysthymic Disorder.
- D5 SEE: Major Depressive Disorder.

D6 SEE: Depressive Disorder NOS. (Superimposed on Psychotic Disorder) GO TO: Psychotic Flow Chart. D7 SEE: Schizoaffective Disorder, Depressive Type. GO TO: Psychotic Flow Chart. D8 **SEE:** Bipolar Disorder NOS. D9 SEE: Cyclothymic Disorder. Symptoms include 1 or more weeks of hospitalisation or marked impairment of heightened or DA irritable mood? DA1 Manic Episode. DB Symptoms include 4 or more days of heightened or irritable mood, less then Manic? DB1 Hypomanic Episode. DC Symptoms of depression 2 or more weeks, not from Bereavement? DC1 Major Depressive Episode. DD Symptoms include Manic Episode and Major Depressive Episode, ever day for 1 week or more? DD1 Mixed Episode. DE Symptoms include a Manic Episode or a Mixed Episode? DF Symptoms include a Hypomanic Episode and at least 1 Major Depressive Episode? DG Symptoms include Hypomanic Episodes and depressed mood for at least 2 years? Symptoms include Hypomanic or Manic Episodes, that are clinically significant but not a specific DH Bipolar Disorder? DI Symptoms include a Major Depressive Episode? DJ Symptoms include more days then not of depressed mood for at least 2 years? DK Symptoms include depression in response to a stressor? DL Symptoms include clinically significant depression? DM Symptoms Psychotic in nature, occur at times other then during Manic or Mixed Episodes? DN Symptoms only occur during Schizoaffective Disorder? DO Symptoms Psychotic in nature, occur only during Major Depressive Episodes? DP Symptoms only occur during Schizoaffective Disorder? E Symptoms include anxiety, avoidance, fear, or increased arousal? E1 No Anxiety Disorder. E10 SEE: Social Phobia. Ell **SEE:** Separation Anxiety Disorder. E12 **SEE:** Agoraphobia Without History Of Panic Disorder. E13 **SEE:** Panic Disorder Without Agoraphobia. E14 SEE: Panic Disorder With Agoraphobia. E2 SEE: Anxiety Disorder NOS. E3 SEE: Adjustment Disorder With Anxiety. E4 SEE: Acute Stress Disorder. E5 SEE: Posttraumatic Stress Disorder. E6 SEE: Generalized Anxiety Disorder. E7 SEE: Mood Disorder. SEE: Psychotic Disorder. E8 SEE: Obsessive-Compulsive Disorder. E9 SEE: Specific Phobia. Has there been unexpected reoccurring Panic Attacks and at least one month of concern about EA having another attack? Has there been anxiety about being in a place were escape would be embarrassing or difficult, in EB the event of another Panic Attack? EC Has there been anxiety from childhood about being separated from attachment figures? ED Has there been anxiety about being embarrassed or humiliated in a social or performance setting? EE Has there been anxiety setoff by objects or situations? EF Has there been Obsessions or Compulsions? High levels of worry and anxiety for at least six months along with symptom associated with the EG anxiety? EH High levels of worry and anxiety do to a severe traumatic event? EI Anxiety due to a stressor? EJ Anxiety is clinically significant?

Has there been anxiety about being in a place were escape would be embarrassing or difficult, in EK the event of another Panic Attack?

EL There is/was a Mood or Psychotic Disorder present in this six month period?

There is an increase in arousal and an avoidance of anything to do with the trauma, plus re- \mbox{EM} experiencing of the trauma.

- EN Symptoms for at least one month?
- F Symptoms include complaints or anxiety about illness or appearance?
- F1 No Somatoform Disorder.
- F10 **SEE:** Malingering.
- F11 **SEE:** Factitious Disorder.
- F12 **Psychological factor affect general medical condition in an adverse way:** Psychological Factors Affecting Medical Condition.
- F2 SEE: Somatoform Disorder NOS.
- F3 SEE: Body Dysmorphic Disorder. If Delusional GO TO: Psychotic Flow Chart.
- F4 **SEE:** Hypochondriasis.
- F5 SEE: Undifferentiated Somatoform Disorder.
- F6 **SEE:** Pain Disorder.
- F7 SEE: Sexual Dysfunction.
- F8 SEE: Conversion Disorder.
- F9 SEE: Somatization Disorder.
- There is a general medical condition that explains the physical complaints and the physical FA complaints do not seem excessive?
- FB Physical symptoms were self inflicted or produced?
- FC Symptoms of at least: 4 pain, 2 gastrointestinal, 1 sexual, and 1 pseudoneurological?
- FD Symptoms affecting voluntary motor or sensory function?
- FE Symptoms affecting sexual function?
- FF Pain centre of clinical attention and psychological factor play an important role?
- FG Six or more months of physical complaints?
- FH There is a preoccupation of having a serious disease?
- FI Preoccupation with an imagined defect in appearance?
- FJ Symptoms clinically in nature?
- FK Absents of external incentives?
- FL Preoccupation is delusional?