

# Confusion in Electronic Medical Records: Quantifying Selective Diagnoses

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The  
123  
to  
No  
Where

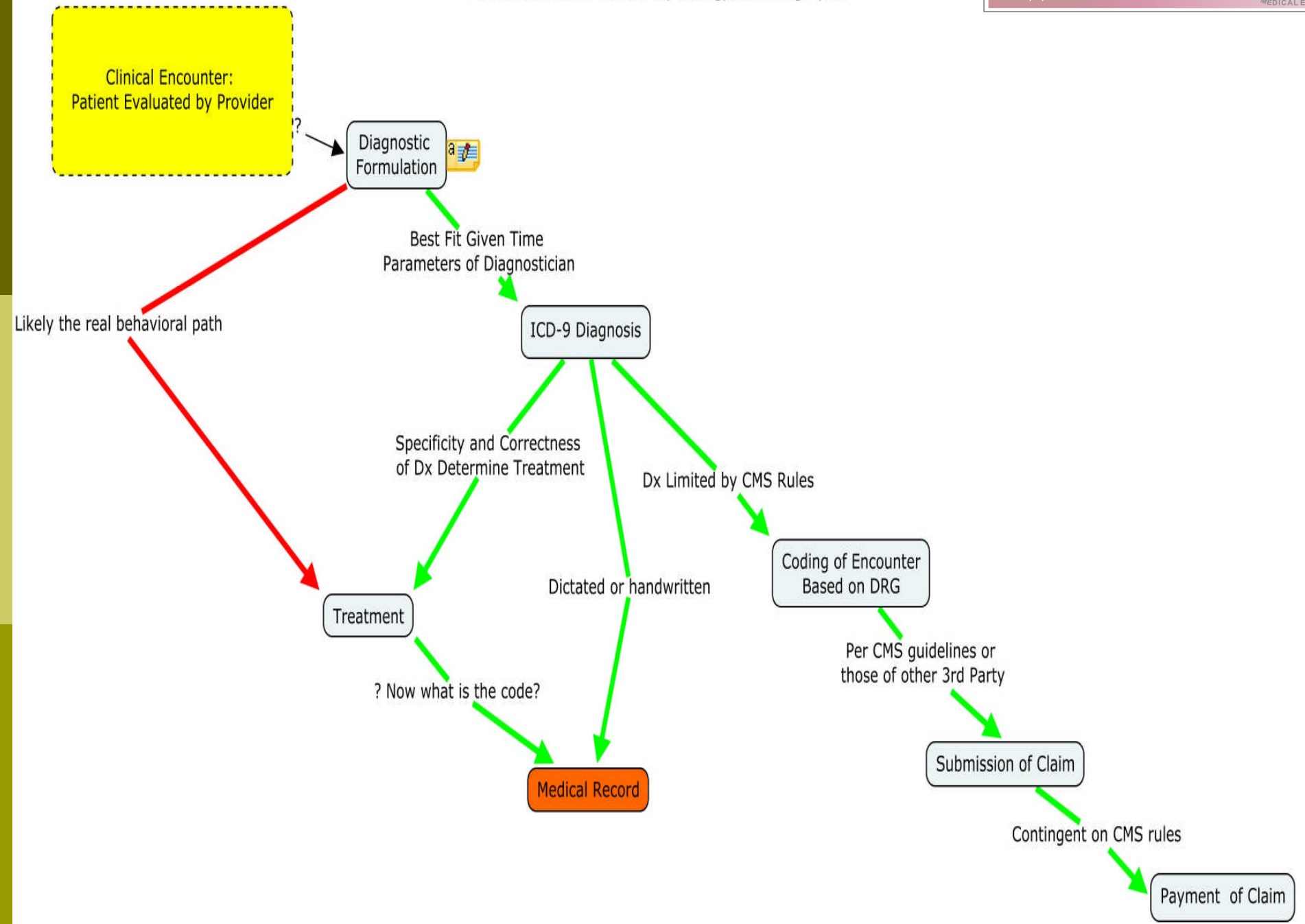


# Data Sources

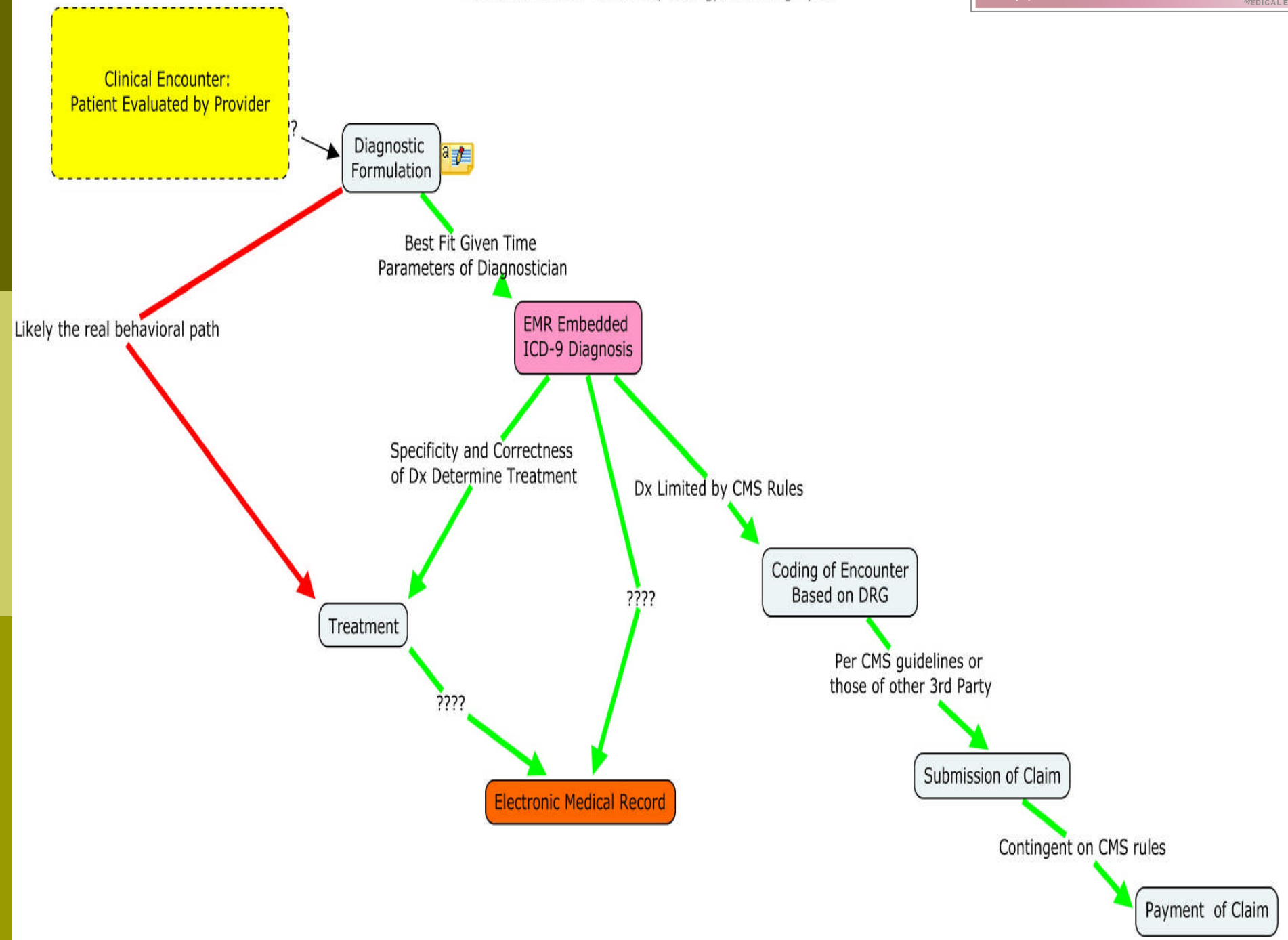
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- Centricity Electronic Medical Record (General Electric)
  - Screen shots of diagnostic alternatives
  - Flat file requested but not provided
  
- ICD-9-CM (ICD-9)
  - Hand entered from ICD-9-CM, Professional, for Physicians, Volumes 1 & 2 (6<sup>th</sup> Edition)

Flow of the Clinical Encounter, Coding, and Billing Cycle



### Flow of the Clinical Encounter, Coding, and Billing Cycle



# Centricity to ICD 9 Comparison

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	<u>Anxiety</u>	<u>Depression</u>	<u>Diabetes</u>	<u>Hypertension</u>	<u>Pneumonia</u>
Centricity Count	36	101	173	169	105
ICD 9 Count	83	200	344	325	45
Ratio (C/ICD)	0.43	0.51	0.5	0.52	2.33

# Anxiety Codes

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300.xx

ICD

82

Centricity

16

Ratio

0.2

# Depression Codes

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	<u>296.xx</u>	<u>300.xx</u>
ICD	198	1
Centricity	45	9
Ratio	0.23	9.00

# Diabetes Codes

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	<u>250.xx</u>	<u>251.xx</u>	<u>253.xx</u>	<u>588.xx</u>	<u>648.xx</u>	<u>775.xx</u>
ICD	305	1	7	2	16	5
Centricity	130	2	2	3	15	1
Ratio	0.43	2	0.29	1.5	0.94	0.2

# Hypertension Codes

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	<u>401.xx</u>	<u>402.xx</u>	<u>403.xx</u>	<u>404.xx</u>	<u>405.xx</u>
ICD	67	24	65	96	72
Centricity	32	13	10	12	10
Ratio	0.48	0.54	0.15	0.13	0.14

# Pneumonia Codes

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	<u>480.xx</u>	<u>481.xx</u>	<u>482.xx</u>	<u>483.xx</u>	<u>484.xx</u>	<u>485.xx</u>	<u>486.xx</u>	<u>487.xx</u>
ICD	7	1	19	4	7	1	1	4
Centricity	9	4	25	6	6	2	12	1
Ratio	1.29	4	1.32	1.5	0.86	2	12	0.25

# Conclusions

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- Centricity and ICD9 Dx Coding Not Equal
- Does it matter?
  - It depends!
- What is the purpose of the diagnosis.
- If to accurately classify disease ...
  - Yes
- If to adequately code to bill and get paid...
  - Maybe
- Your thoughts?