

# ICD-10 IN PRIMARY CARE

## An Approach to Clinical Documentation Improvement

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### Agenda

- The Challenge of ICD-10
- The Assessment of our Providers
- Actions Taken
- The Result

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### The Challenge

Train providers on ICD-10

- Coding guidelines
- Documentation
- EMR upgrades
- Paper vs. electronic
- Hospital and ambulatory

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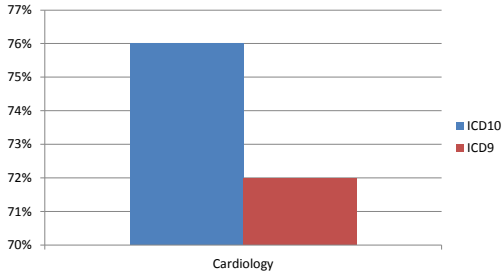
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### Summary Cardiology



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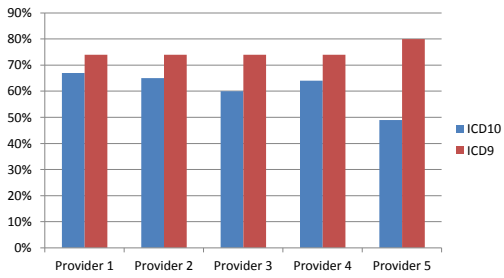
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### ICD9 vs. ICD10 Family Practice



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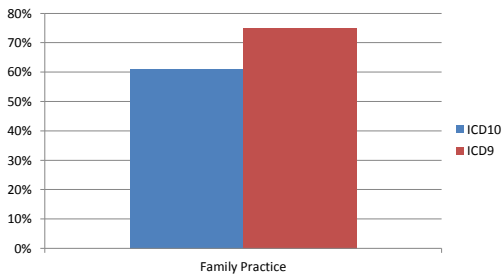
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### Summary Family Practice



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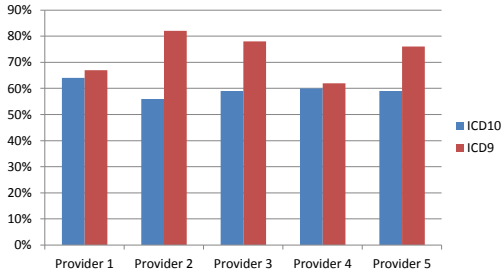
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### ICD9 vs. ICD10 Internal Medicine (not including hospitalists or LTAC)



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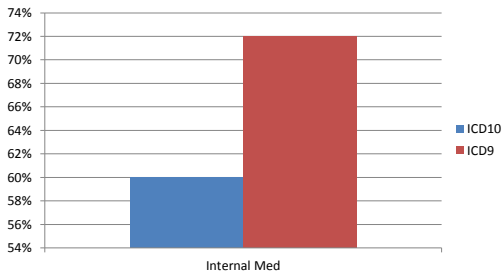
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### Internal Medicine Summary



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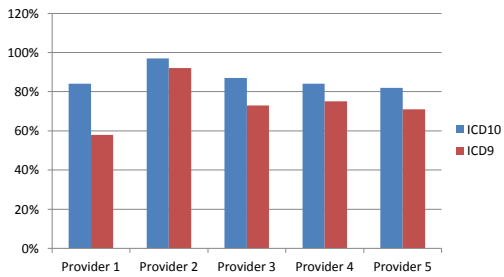
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### ICD9 vs. ICD10 Obstetrics/Gyn



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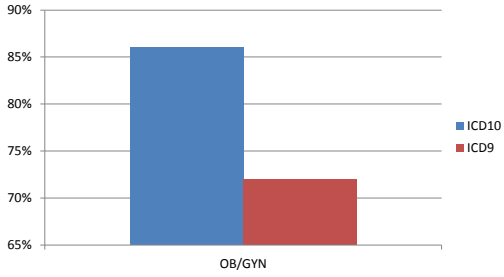
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### Summary OB/GYN



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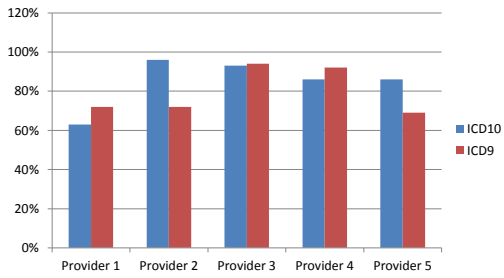
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### ICD9 vs. ICD10 Orthopedics



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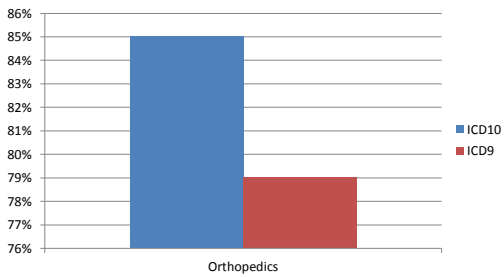
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### Summary Orthopedics



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### Diabetes E00-E89

- In ICD-9
  - 4<sup>th</sup> digit (if other than 0 or 9, requires add'l code)
  - 5<sup>th</sup> digit (describes control and type)
- In ICD-10-Combination codes
  - Type of DM
  - Body system affected
  - Complications affecting that body system

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### Diabetes E08-E13

- 5 categories
  - E08-DM due to underlying condition (secondary)
    - Cushing's, CF, pancreatitis, etc.
  - E09-DM induced by drug or chemical (secondary)
    - Steroids
  - E10-Type 1 DM (insulin deficiency)
  - E11-Type 2 DM (insulin resistance)
  - E13-Other specified DM (secondary)
    - Genetic defects, post-surgical

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### Diabetes

- Codes expanded to reflect manifestations and complications by use of 4<sup>th</sup> or 5<sup>th</sup> characters instead of additional 'companion codes'
- Inadequately controlled, out of control, poorly controlled are coded to diabetes, by type, with hyperglycemia

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### Diabetes-Key Terms

- Document insulin use! Z79.4
- Document the causal condition, drug or chemical
- Document the underlying associated condition
- Document insulin pump complications
  - Initial, subsequent or sequela
  - Overdose or under-dosing of insulin related to pump malfunction
- Document complications – Hyperglycemia, hypoglycemia, renal, ophthalmic, etc.

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### Diabetes in Pregnancy O24

- Document if
  - diabetes pre-dates pregnancy
  - gestational
- Document trimester
- Document treatment
  - Diet controlled
  - Insulin controlled
  - Unspecified control

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### Hyperlipidemia

- ICD-9 Ability to define hypercholesterolemia, hypertriglyceridemia, and mixed
- ICD-10 Similar format

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## Hyperlipidemia-Key Terms

Encourage specificity by documenting significant laboratory test data. Coders cannot code from lab report.

- Pure hypercholesterolemia
- Pure glyceridemia (hypertriglyceridemia)
- Mixed (elevated cholesterol and triglycerides)
- Lipoprotein deficiency

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## Definitions

	ICD-9	ICD-10	Comments
Pure Hypercholesterolemia	272.0	E78.0	Familial, inherited, elevated LDL
Pure Hyperglyceridemia	272.1	E78.1	Elevated Very Low Density Lipoproteins Elevated Triglycerides
Mixed	272.2	E78.2	Elevated cholesterol and triglycerides
Other and Unspecified Hypercholesterolemia	272.4	E78.4 E78.5	'Hyperlipidemia'
Lipoprotein Deficiencies	272.5	E78.6	Low HDL with normal cholesterol

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## Obesity-E66

- ICD-9 defined as
  - Overweight, morbid and unspecified
- ICD-10 Documented by type and severity and BMI
- Pediatrics should be documented in BMI percentile (0-20yrs)
  - Overweight (85<sup>th</sup> to less than 95<sup>th</sup> percentile)
  - Obese (equal to or greater than the 95<sup>th</sup> percentile)

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## Obesity-Key Terms

- Obesity due to excess calories *E66.0*
  - Morbid (severely) obese due to excess calories (Adult BMI 40+) *E66.01*
  - Other obesity due to excess calories (Adult BMI 30+) *E66.02*
- Drug-induced obesity *E66.1* (use additional code for adverse effect of drug)
- Morbid severe obesity with alveolar hypoventilation syndrome *E66.2* (Pickwickian syndrome)
- Overweight (Adult BMI 25-29.9) *E66.3*
- Adult BMI codes are assigned for patient age 21+

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## Chapter IX i00-i99 Diseases of the Circulatory System

- Heart disease
- Cerebrovascular diseases
- Vascular diseases

**This chapter contains the following blocks:**

- 100-102 Acute rheumatic fever
- 105-109 Chronic rheumatic heart diseases
- 110-115 Hypertensive diseases
- 120-125 Ischaemic heart diseases
- 126-128 Pulmonary heart disease and diseases of pulmonary circulation
- 130-152 Other forms of heart disease
- 160-169 Cerebrovascular diseases
- 170-179 Diseases of arteries, arterioles and capillaries
- 180-189 Diseases of veins, lymphatic vessels and lymph nodes, not elsewhere classified
- 195-199 Other and unspecified disorders of the circulatory system

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## Hypertension i10-i15

- In ICD-9
  - Requires documentation of benign, etc.
  - Combination codes/dual code requirement
    - Hypertensive heart + disease code
    - Hypertensive renal + renal disease code
    - Hypertensive heart and renal + both and renal codes
- In ICD-10
  - Combination codes
  - Dual code requirement remains
  - Hypertension in pregnancy is not included in Chapter IX

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### Hypertensive Heart Disease i11 Documentation

- Causal relationship “due to”
  - Echocardiogram
  - ECG findings
  - Exam findings of JVD and edema
- Type of heart failure- *i50.*-

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### Hypertensive Kidney Disease i12 Documentation

- Causal relationship may be assumed
- Stage of CKD included with the code
- Still requires additional code for CKD (*N18.*-)

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### Hypertensive Heart and Kidney Disease i13 Documentation

- Causal relationship
- Additional codes for heart failure (*i50.*-) and CKD- (*N18.*-)
- Stage of CKD included in the code

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## Heart Failure i50

- Be sure that associated hypertensive heart and/or hypertensive heart & renal disease are documented
- Documentation must identify the cause-and-effect relationship between HTN and CHF.

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## Heart Failure i50.- Key Terms

- Cardiac asthma
- Edema of lung with heart disease
- Edema of lung with heart failure
- Left heart failure
- Pulmonary edema with heart disease
- Pulmonary edema with heart failure
- Biventricular (heart) failure
- Cardiac or myocardial failure
- Congestive heart disease or failure
- Right ventricular failure (secondary to left heart failure)

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## Heart Failure-Definitions

- Systolic HF i50.2 *A dilated ventricle that does not empty properly. 'Exacerbation' indicates an acute flare. If the patient has chronic HF, use the 'acute on chronic' CHF codes*
- Diastolic HF i50.3- *40-60% of CHF; Impaired myocardial relaxation results in increased diastolic pressure*

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### Cerebrovascular Disease i60-i67

#### Key Terms

- Type
  - Cerebral infarction
  - Occlusion
  - Hemorrhage
- Site
  - Cerebral
  - Subarachnoid
  - Carotid
- Cause
  - Embolism
  - Occlusion
  - Thrombosis
- Use Additional Code for
  - Alcohol abuse/dependence
  - Exposure to tobacco smoke
  - History of tobacco use
  - Tobacco dependence
  - Tobacco use

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#### CVA or Stroke Documentation

- Acute diagnosis within the first 24 hours, so not usually an ambulatory diagnosis
- Need specific information
  - Acute process
    - Cause, site, type
  - Late residual deficits (Sequela) if not acute-(i69)

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### Sequela of Cerebrovascular Disease

#### Key Terms

- Type of sequela
  - Apraxia
  - Dysphagia
  - Ataxia
  - Paralysis
  - Hemiplegia
  - Monoplegia
- Dominant or non-dominant side of the brain

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### Peripheral Vascular Disease

- Diabetic PVD coded in combination codes indicating type and nature of DM and PVD
  - Type 1 or 2 DM
  - Gangrene, peripheral angiopathy without gangrene
- Raynaud’s syndrome -With or without gangrene *i73.0*
- Buerger’s disease

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### Peripheral Vascular Disease Key Terms

- Type
  - Aneurysm
  - Atherosclerosis
- Site
- Laterality
- Complications
  - Ulceration
  - Gangrene
- Type of vessel
  - Native
  - Autologous vein bypass
  - Non-autologous biological

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### Ischemic Heart Disease i20-i25 Documentation

- Combination codes for atherosclerotic Coronary Artery Disease & Angina *i20*
  - Native coronaries
  - Bypass grafts
  - Transplant
- With AMI *i21*

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## Mental, Behavioral & Neurodevelopmental Disorders

- ICD-9 is grouped by psychotic, nonpsychotic or mental retardation
- ICD-10 is grouped in blocks

F01-F09 Due to known physiologic issues  
 F10-F19 Due to psychoactive substance use  
 F20-F29 Schizophrenia, etc.  
 F30-F39 Mood [affective] disorders-depression  
 F40-F48 Anxiety, dissociative, etc.  
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## Dementia F01-F03

- Progressive decline in mental ability
  - Usually >60 y/o
  - Due to trauma, disease, toxins
- Often diagnosed by symptoms and behavior
  - Confirmation of diagnosis sometimes at autopsy
- Document the type of dementia AND any behavioral component
  - None
  - Aggressive, combative, violent, wandering off

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## Dementia-Key Terms

- Vascular-with or without behavioral disturbance
- Other causes-with or without behavioral disturbance
- Identify underlying disease as causative
  - Alzheimer’s with dementia
  - Creutzfeldt-Jakob
  - Lewy body disease
  - Fronto-temporal
  - Due to hypercalcemia, MS, syphilis, etc.

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### Depression F30-39

#### Key Terms

- Very much like ICD-9!
- Single, recurrent, persistent
- Mild, moderate, severe
- Remission
  - Full
  - Partial
- Psychosis
  - With
  - Without

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### Alzheimer's Disease G30.-

- Currently coded to 331.0
- Key terms
  - Early onset- before age 65 - *New!*
  - Late onset-*New!*
  - Other type causing diffuse atrophy of cerebrum
  - Unspecified

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### Injury and Poisoning S00-T88

- Injuries
- Traumatic fractures
- Burns and corrosions
- Adverse effects
  - Poisoning, under-dosing and toxic effects
- Child and Adult abuse and neglect
- Complications of care

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## Injuries

- Specific types of injuries are arranged by body region beginning with the head and concluding with the ankle and foot
- External cause codes capture the cause of the injury or condition, the intent, the place where the event occurred and the activity of the patient at the time of the event and the person's status (military, etc.)
- Most diagnoses will have 7<sup>th</sup> character
  - A-initial encounter
  - D-subsequent encounter
  - S-sequela

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## Injuries

- Documentation of most serious injury is critical
  - Primary injury with minor damage to peripheral nerves or vessel
  - Primary injury to nerves, spinal cord or vessels

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## Traumatic fractures

- A-patient receiving active treatment
  - Surgical
  - ED encounter
  - Evaluation by new physician
- D-routine care during recovery
  - Cast change or removal
  - Removal of external or internal fixation device
  - Medication adjustment
  - Other aftercare and follow up following treatment
- S-complications or conditions that arise as a direct result of a condition
  - scar

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### Traumatic Fractures Documentation

- Site
- Laterality-(if bilateral, and no bilateral code is provided, both sides are coded)
- Open or closed
- Displaced
- Initial or Subsequent encounter
- Complications
  - Malunion or nonunion?
- Presence of Osteoporosis (M80)

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### Late Effects (Sequela)

- The residual effect after the acute phase of an illness or injury has terminated
- No time limit
- Document the nature of the sequela as well as the cause of the sequela

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### Burns and Corrosions

- Burn codes are for burns that come from a heat source such as fire, a hot appliance, electricity & radiations
  - Depth
    - 1<sup>st</sup>- erythema
    - 2<sup>nd</sup> – blistering
    - 3<sup>rd</sup> – full thickness
- Corrosions are burns due to chemicals

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### Burns-Documentation

- Site
- Source of burn and place of occurrence
- Degree
- Focus of treatment (most severe)
- Non-healing or necrosis
- Infection
- Late effect (scar or contracture)
- Rule of 9s
  - 9% -Head & neck
  - 9% -Each arm
  - 18%-Each leg
  - 18%-Anterior trunk
  - 18%-Posterior trunk
  - 1% -Genitalia

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### Adverse Effects T36-T6 Documentation

Combination codes that include the substance as well as the intent

Adverse Effect: effect of a drug properly prescribed and administered

Examples of Effect: tachycardia, delirium, gastro-intestinal hemorrhaging, vomiting, hepatitis, renal failure, respiratory failure

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### Poisoning-Documentation

- A reaction to the improper use of a medication
  - Overdose
  - Wrong substance given in error
  - Wrong substance taken in error
  - Wrong route of administration
- Intent
  - Accidental
  - Intentional self-harm
  - Assault
  - Undetermined

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### Poisoning-Examples

- Error in drug prescription or administration of the drug by the provider, nurse, patient or other person
- Overdose of a drug intentionally taken
- Non-prescribed drug taken with correctly prescribed and properly administered drug
- Interaction of drug and alcohol

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### Under Dosing Documentation

- New code available to describe taking less of a medication than is prescribed by a provider or a manufacturer's instruction
  - Financial reasons
  - Side effects
- Relapse or exacerbation of the medical condition for which the drug is prescribed should be documented
- Noncompliance should be documented, if known

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### Toxic Effects-Documentation

- When a harmful substance is ingested or comes in contact with a person
- Document intent
  - Accidental
  - Intentional self-harm
  - Assault
  - Undetermined

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## GERD

- ICD-9 Gastroesophageal Reflux vs. Reflux Esophagitis
- ICD-10 Gastroesophageal Reflux Disease is now a combination code

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## GERD Key Terms

With esophagitis *K20.9*  
Without esophagitis *K21.9*

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## Sinusitis

- ICD-9 Acute vs. chronic and location
- ICD-10 Similar structure
  - Document acute vs. acute recurrent by site (use additional code to identify infectious agent – e.g., Staphylococcus)
  - Chronic (include tobacco exposure)

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## Sinusitis

Documentation for *acute sinusitis* may support specific codes based upon which sinuses are involved, and the causative organism. In primary care, the causative organism is often unknown, as indicated by the word 'unspecified' in the codes below. If the organism is known, a code from the B95-B97 series is also coded.

- J01.00 Acute maxillary sinusitis, unspecified
- J01.10 Acute frontal sinusitis, unspecified
- J01.20 Acute ethmoidal sinusitis, unspecified
- J01.30 Acute sphenoidal sinusitis, unspecified
- J01.40 Acute pansinusitis, unspecified
- J01.80 Other acute sinusitis-use for more than one sinus, but not pansinusitis

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## Key Terms-Sinusitis

- Frontal
- Maxillary
- Ethmoidal
- Sphenoidal
- Pansinusitis (inflammation of all paranasal sinuses on one or both sides)
- Tobacco details

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## Arthritis

### Chapter 13 M00-M99

- ICD-9 Type and site involved no designation for laterality
- ICD-10 Cause, Site & Laterality
  - For certain conditions the upper or lower end may be involved, the designation is still the bone and not the joint
  - Bone vs. joint
  - Document whether acute traumatic, chronic or recurrent
  - Some types include ability to code for multiple sites

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## Arthritis-Key Terms

- Pyogenic (infectious)(document organism)
- Primary
  - Rheumatoid, by site
  - Other symptoms
    - With/without RF
    - With/without rheumatoid nodule
    - Involvement of other organs or systems
  - Juvenile
  - Psoriatic
- Secondary arthritis
  - Post-traumatic
  - Osteoarthritis (polyosteoarthritis-multiple sites)

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## Tobacco Exposure

Many different categories suggest coding tobacco exposure  
 – Neoplasms, Heart Disease, Pulmonary, Obstetrics

Document specific types of exposure:

- Exposure to environmental tobacco smoke
  - Second hand exposure (acute)(chronic)
  - Passive smoking (acute)(chronic)
- History of tobacco use (personal)
- Occupational exposure to environmental tobacco smoke (servers)
- Document type of Nicotine dependence
  - Cigarettes, chewing tobacco, other types
- Document uncomplicated, withdrawal, remission, other nicotine-induced disorders

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## Tobacco

- Environmental exposure to tobacco smoke
- History of tobacco use
- Tobacco dependence
- Tobacco use-use when criteria for dependence is not met.

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## Defining Tobacco Dependence

At least 3 of the following in 12 months:

- Tolerance
- Withdrawal
- Nicotine is used in larger amounts or over a longer period than intended.
- The user has a persistent desire or makes unsuccessful attempts to cut down on tobacco.
- A great deal of time is spent in obtaining or using the substance (e.g., chain smoking).
- Reduction in activities because of tobacco use
- Recurrent use of the substance continues despite recurrent physical or psychological problems

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## COPD J44.Ø-J44.9

- ICD-9 Chronic bronchitis, obstructive chronic bronchitis, emphysema
- ICD-10 Chronic obstructive pulmonary disease

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## COPD-Key Terms

- Chronic bronchitis
- Chronic obstructive asthma
- Emphysema
- Exacerbation
- Decompensation
- Chronic lung disease
- Tobacco details

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## Asthma

- ICD-9 defined as intrinsic, extrinsic, exercise induced, other specified types
- ICD10 Document type includes allergic and non-allergic asthma.

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## Asthma Key Terms

- Mild intermittent
- Mild persistent
- Moderate persistent
- Severe persistent
- Tobacco Exposure

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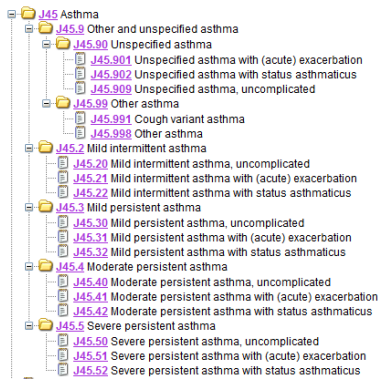
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## Asthma Documentation

	Intermittent	Mild Persistent	Moderate Persistent	Severe Persistent
Symptoms	2 or less days per week	More than 2 days per week	Daily	Throughout the day
Nighttime Awakenings	2 X's per month or less	3-4 X's per month	More than once per week but not nightly	Nightly
Rescue Inhaler	2 or less days per week	More than 2 days per week but not daily	Daily	Several times per day
Interference with Normal activity	None	Minor limitations	Some limitations	Extremely limited
Lung Function	FEV1 >80% predicted and normal between exacerbations	FEV1 >80% predicted	FEV1 60-80% predicted	FEV1 less than 60% predicted

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## Headache-Key terms

- Type
  - Migraine G43.-
  - Cluster G44.0-
  - Vascular G44.1-
  - Tension G44.2-
  - Post-traumatic G44.3-
  - Drug induced G44.4-
  - Menstrual G44.8-
- Aura (with or without)
- Intractable (or not)

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## Rhinitis J30-31 Key Terms

- Vasomotor & Allergic *J30.-*
- Allergic rhinitis
  - Vasomotor rhinitis
  - Allergic rhinitis due to pollen
  - Other seasonal allergic rhinitis
  - Allergic rhinitis, unspecified

Chronic rhinitis *J31.0*

Acute nasopharyngitis (common cold) *J00*

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## UTI Key Terms

- Site
  - Cystitis *N30.-*
  - Urethritis *N34.-*
  - Not specified *N39.Ø*
- Infectious Agent *B95-B97*

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## Training

- Make the most of ‘Teachable Moments’
- Regular newsletter publications
  - “**ICD-10 Coding Corner**”
- Audit Recommendations

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## Formal Training

- Leverage system resources
- Capitalize on existing educational offerings
  - Medicare Advantage
  - ACO
  - Meaningful Use

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**THANK YOU!**

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