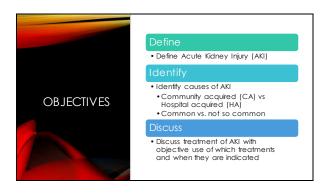
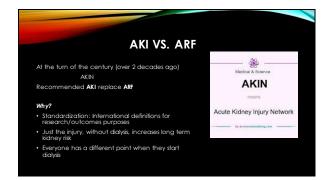


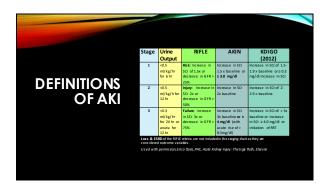
Non-Declaration Statement: I have no relevant relationships with ineligible companies to disclose within the past 24 months. (Note: Ineligible companies are defined as those whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients.)

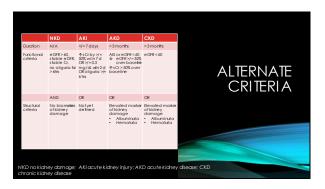


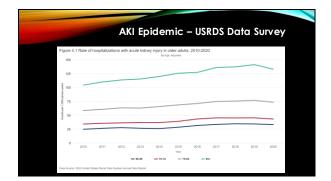
PRE-TEST QUESTION #1	Which of the following is the best term to define a patient with acute kidney function changes? A. Acute Renal Failure B. Acute Renal Injury C. Acute Kidney Injury D. Acute Kidney Dysfunction	
PRE-TEST QUESTION #2	Which of the following cause AKI? A. Dehydration B. Medications C. Obstructive uropathy D. All of the above	
PRE-TEST #3	Which of the following would NOT be an indication to initiate renal replacement therapy? A. Blood pt < 7.1, refractory to bicarbonate therapy B. Serum potassium > 6.5mEa/L with peaked therapy B. Serum potassium > 6.5mEa/L with peaked therapy	

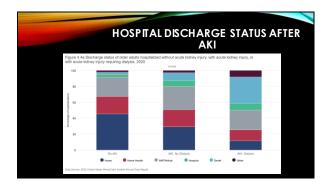
 c. Fluid overload w/ oliguria in a cardiac surgery patient not responding to diuretic therapy
 b. Blood Urea Nitrogen level > 100mg/dL, despite volume expansion with NS

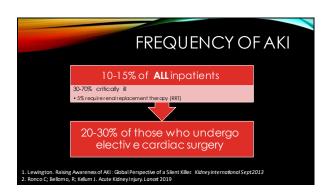


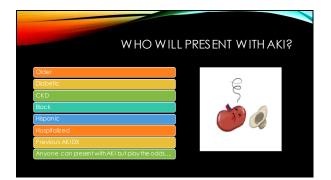




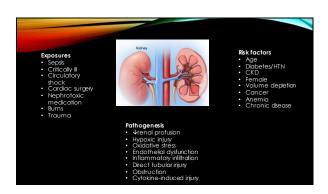




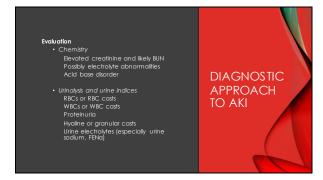






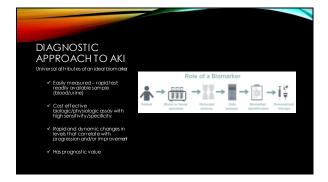




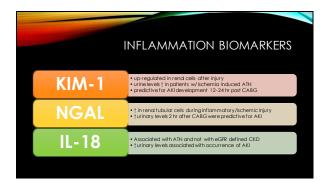




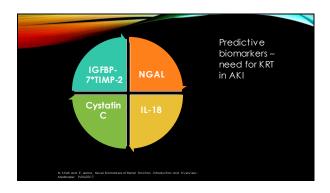




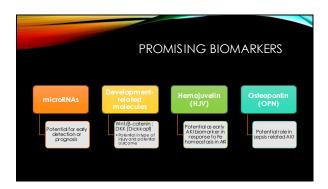


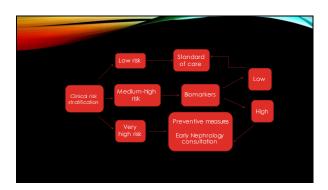


CELL CYCLE ARREST BIOMARKERS
IGFBP7
TIMP-2
First FDA approved biomarker: NephroCheck
Product of the two Urinary value predictive of development of moderate-severe AKI in post operative patients



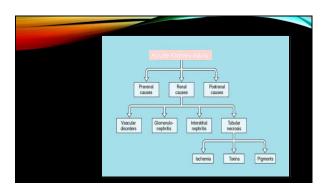


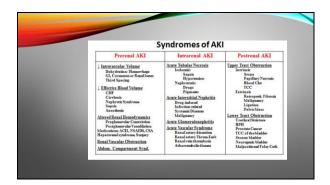


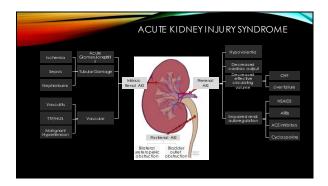


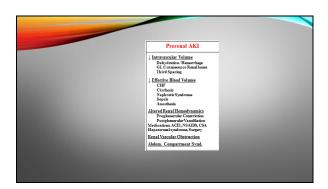








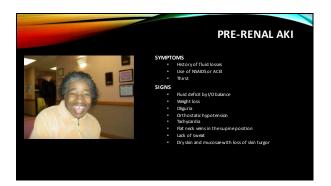


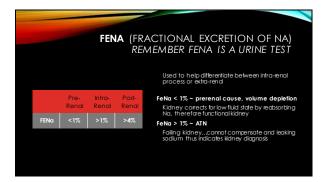








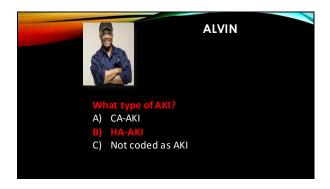




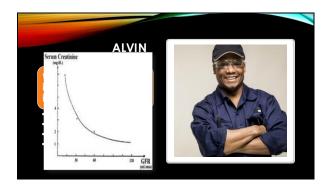


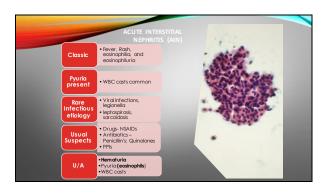


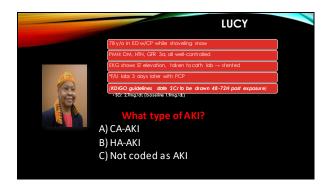




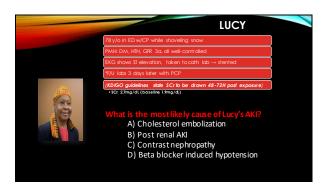


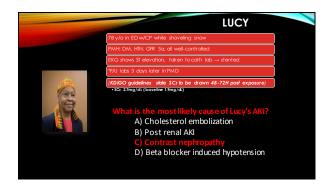


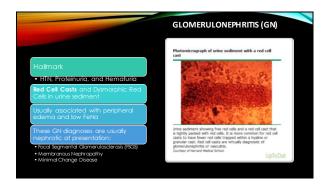


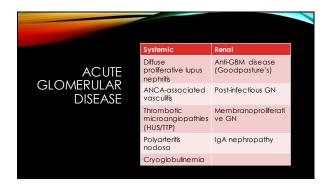






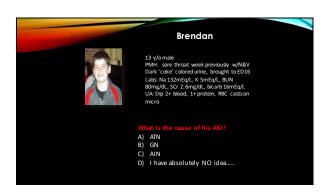








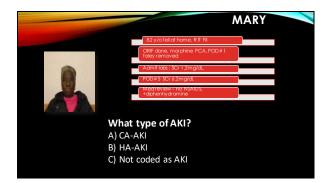


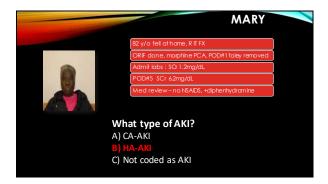


























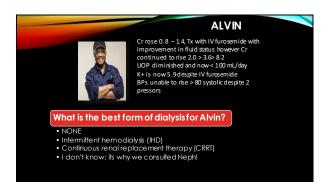
INPATIENT TREATMENT OF AKI	Volume status • Mast important aspect of HA-AKI • Volume responsiveness vs. Volume unresponsiveness • Often existing as a continuum

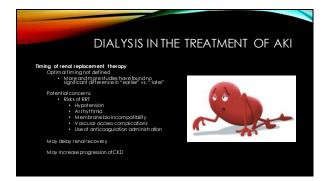
Fluid management Initial management of most AKI Choice of solution Crystalloid vs. colloid No significant difference in renal outcomes or mortality Colloid considerably more expensive In most case crystaloid is first choice Exceptions: Hemorrhagic shock Hepalorenal Syndrome Burn patients Massive fluid resuscitation	HEM ODYNAM IC SUPPORT
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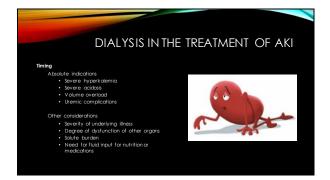
Vasopressors o Help in maintaining renal perfusion o Norepinephine o Angiotensin II o Use AFTER intravascular volume replete o Vasomotor shock – particularly helpful • Sepsis • Pancreatitis • Angphylaxis • Burns • Liver failure

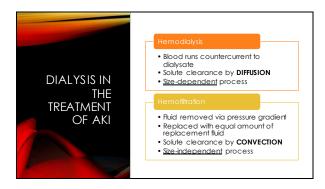
Glycemic control ICU Stress induced hyperglycemia is common in ICU patients Prior controversy in literature regarding high "light" glycemic control is needed KDIGO guidelines currently recommend target goal of 110-149 mg/dl.



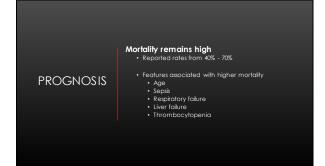


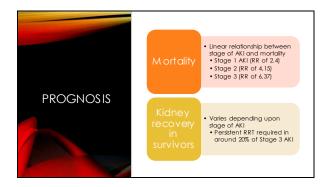




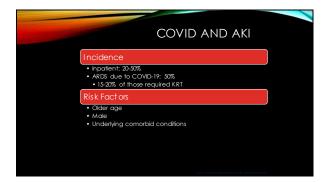


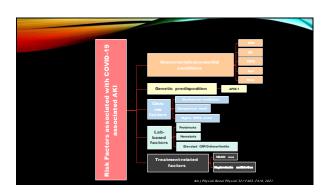


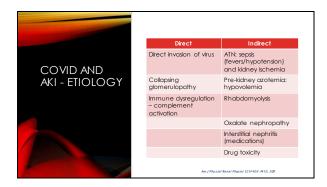


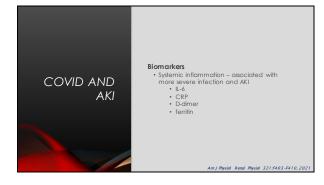






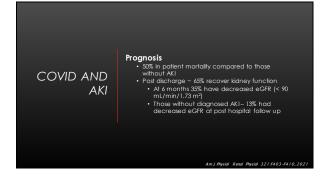


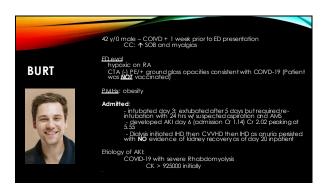






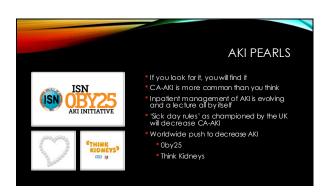












PRE-TEST	Which of the following is the best term to define a patient with acute kidney function changes? A. Acute Renal Failure B. Acute Renal Injury
QUESTION #1	C. Acute Kidney Injury D. Acute Kidney Dysfunction

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	PRE-TEST ESTION #1	١
QUI	-311ON # 1	ı
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- A. Acute Renal Failure B. Acute Renal Injury
- C. Acute Kidney Injury
- D. Acute Kidney Dysfunction

Which of the following cause AKI? A. Dehydration B. Medications PRE-TEST QUESTION #2 C. Obstructive uropathy D. All of the above

Which of the following cause AKI? A. Dehydration B. Medications PRE-TEST C. Obstructive uropathy D. All of the above QUESTION #2

PRE-TEST #3

Which of the following would **NOT** be an indication to initiate renal replacement therapy?

- A.Blood pH < 7.1, refractory to bicarbonate therapy
- therapy

 B. Serum potassium > 6.5mEq/L with peaked twaves on EKG, refractory to medical
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 C. Fluid avertoad w/ oliguria in a cardiac
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 D.Bload Urea Nitrogen level > 100mg/dL,
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