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 - · Design: 91 depressed & anxious women
 - Biomarker analysis: urinary cortisol, norepinephrine, & epinephrine
 - Conclusion #1: Depression and anxiety, issues related to central nervous system dysfunction, correlated with increased sympathetic nervous system activity as indicated by urinary cortisol & norepinephrine excretion.
 - Clinical correlation: Urinary neurotransmitter and adrenal hormone assessments may be useful to effectively address depression and anxiety due to autonomic nervous system dysfunction.
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 concluded that ELISA measures for urinary epinephrine and norepinephrine are appropriate
 for clinical applications where rapid, accurate, and reproducible measures were desired.
 - Design: ELISA methodology validated against established HPLC methodology.
 - · Biomarker analysis: urinary & plasma epinephrine and norepinephrine.
 - Conclusion: ELISA-based laboratory methodology was validated as a reproducible and accurate means to assess urinary epinephrine and norepinephrine.
 - Clinical Correlation: ELISA-based measures for urinary epinephrine and norepinephrine are accurate, cost effective, and efficient measures in clinical settings.

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 - Design: 37 children diagnosed with ADHD, administered methylphenidate
 - · Biomarker analysis: urinary PEA
 - Conclusion #1: Urinary PEA levels were significantly higher in children who responded to methylphenidate.
 - PEA levels did not significantly change in those who did not respond to treatment.
 - Conclusion #2: Urinary measures of the neurotransmitter PEA correlated with the positive response to a centrally-acting medication.
 - Conclusion #3: Urinary PEA correlated with ADHD, an issue associated with central nervous system imbalance.
 - Clinical correlation: Urinary measurements of PEA may provide valuable insight into intervention effectiveness in patients with ADHD.

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 norepinephrine and dopamine). Findings indicated a positive correlation between total wake
 time and urinary free cortisol and catecholamine levels. The authors concluded that, based
 on biomarker analysis, chronic insomnia was correlated with increased activity of the
 hypothalamic-pituitary-adrenal (HPA) axis and sympathetic nervous system.
 - Design: 15 Chronic insomniacs studied for 3 consecutive nights
 - · Biomarker analysis: urinary cortisol & catecholamines
 - Conclusion #1: In chronic insomnia, an up-regulated HPA axis and sympathetic nervous system was correlated to the degree of sleep disturbance, as indicated by urinary cortisol and catecholamine excretion

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 - Design: Renal catecholamine clearance in rat was investigated through administration of a monoamine transporter inhibitor
 - Biomarker analysis: urinary & plasma epinephrine and norepinephrine.
 - Conclusion: Administration of a renal monoamine transporter inhibitor led to significant increases in plasma catecholamine levels and significant decreases in urinary catecholamine levels.
 - Clinical Correlation: Urinary catecholamine measures are reflective of circulating catecholamine levels.

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