

The Microdialysis Technique: Clinical Implications



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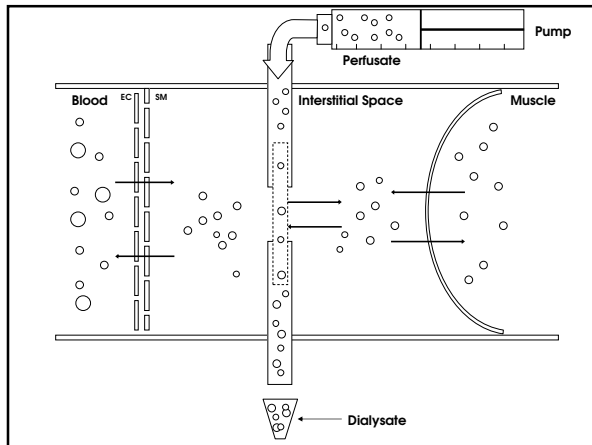
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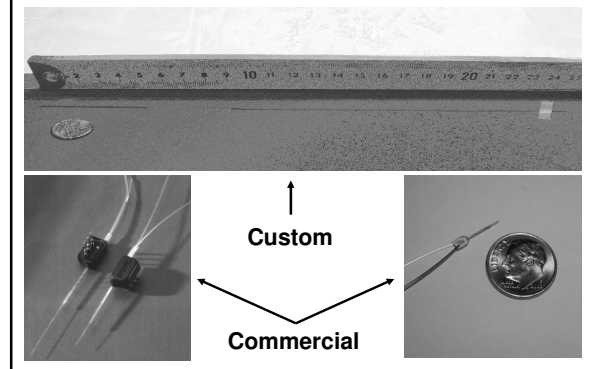
Microdialysis

- The microdialysis technique allows the measurement and quantification of compounds in the interstitial space.

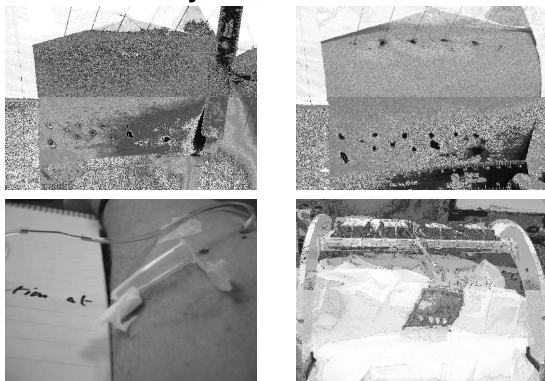
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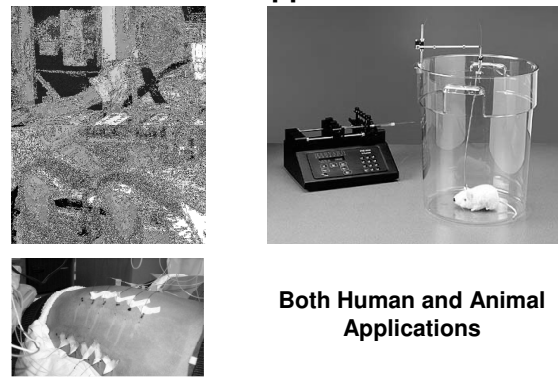
Microdialysis Probes



Microdialysis Probes Insertion

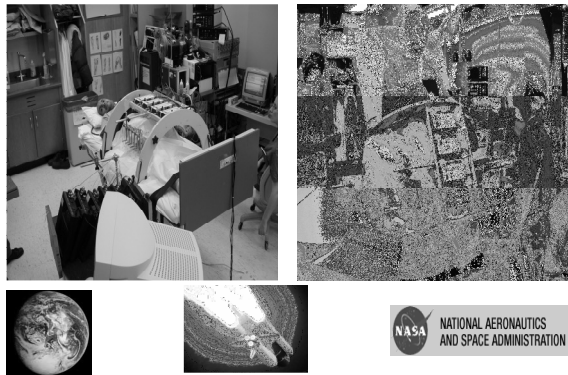


Clinical Applications



Both Human and Animal
Applications

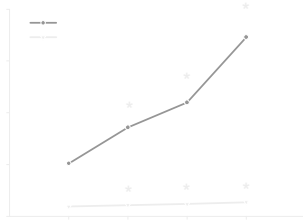
Clinical Applications



LBNP



Interstitial versus plasma water norepinephrine concentrations during LBNP in humans



Analyses

- Lactate
- Phosphate
- Potassium
- Hydrogen Ion
- Prostaglandins
- Bradykinin
- Adenosine
- Calcium
- Sodium
- Amino Acids
- Catecholamines



Summary

- The microdialysis techniques has multiple uses
 - Human
 - Animal
- It can be utilized in a number of different tissues:
 - Muscle
 - Fat
 - Skin
- Clinical uses include:
 - Drug discovery and testing
 - Disease mechanisms

Inserted Microdialysis Probe

