
ATR-FTIR Spectroscopy & Machine Learning for PMI
ATR-FTIR Spectroscopy
It is a non-destructive vibrational technique that provides a biochemical fingerprint of biological samples by measuring infrared absorpti
lting from molecular bon
(Deng et al., 202


ATR-FTIR Spectroscopy & Machine Learning for PMI
ATR-FTIR Spectroscopy
It is a non-destructive vibrational technique that provides a biochemical fingerprint of biological samples by measuring
resulting from


pectroscopy & Machine Learning for PMI
ring decomposition, biological
ue undergo biochemical
gradation. These molecular
nges lead to progressive
difications in the infrared
ctrum. Consequently, the
erated spectral changes
elate with PMI




MEN


ATR-FTIR Spectroscopy & Machine Learning for PMI
Least Squares- Discriminant Analysis (PLS-DA)
supervised
classification
uses predefined
during model
How PLS-DA Works
PLS-DA Model


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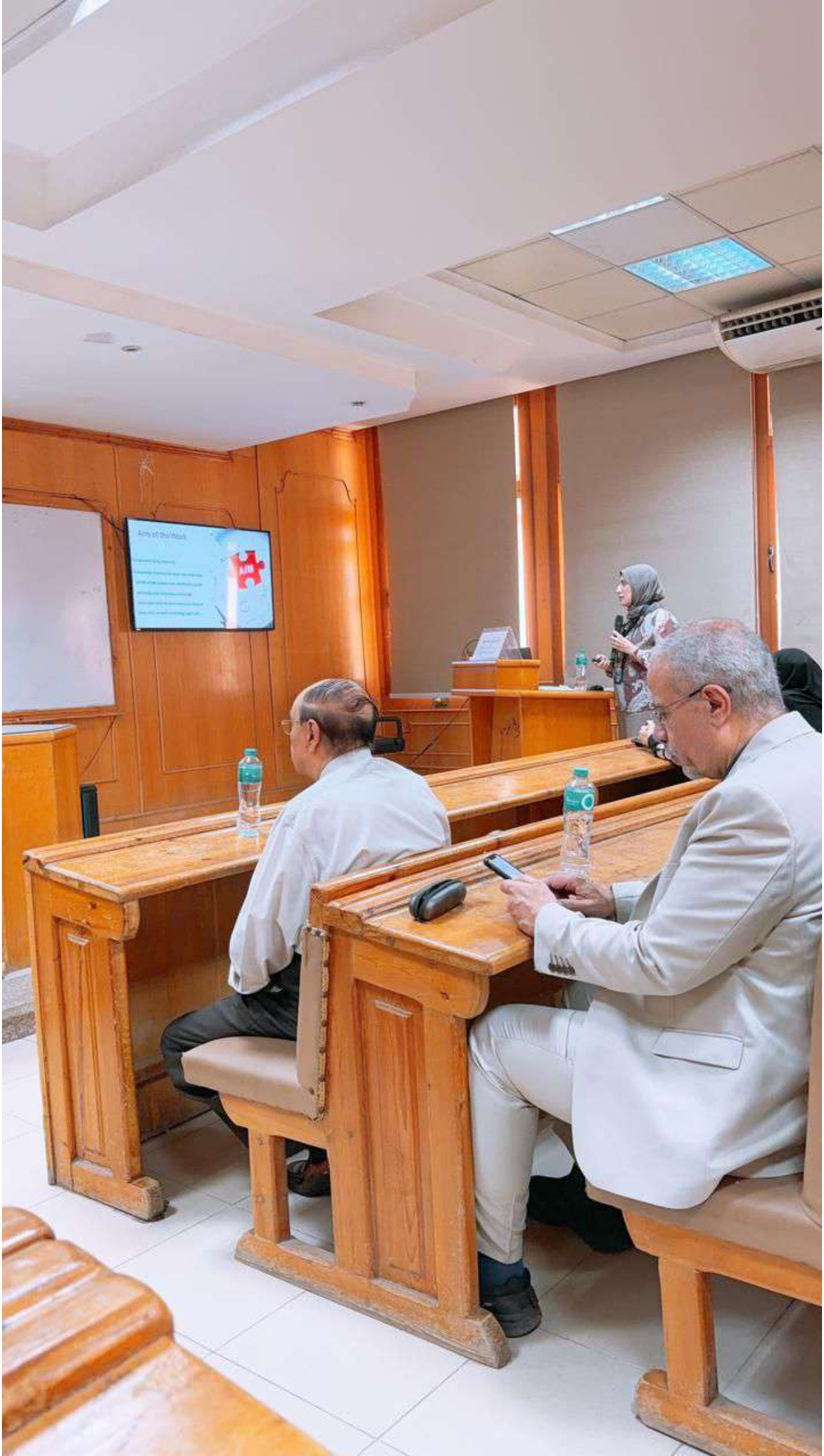









Materials and Methods


Aims of the Week


Results - Acute Toxicity


Methods



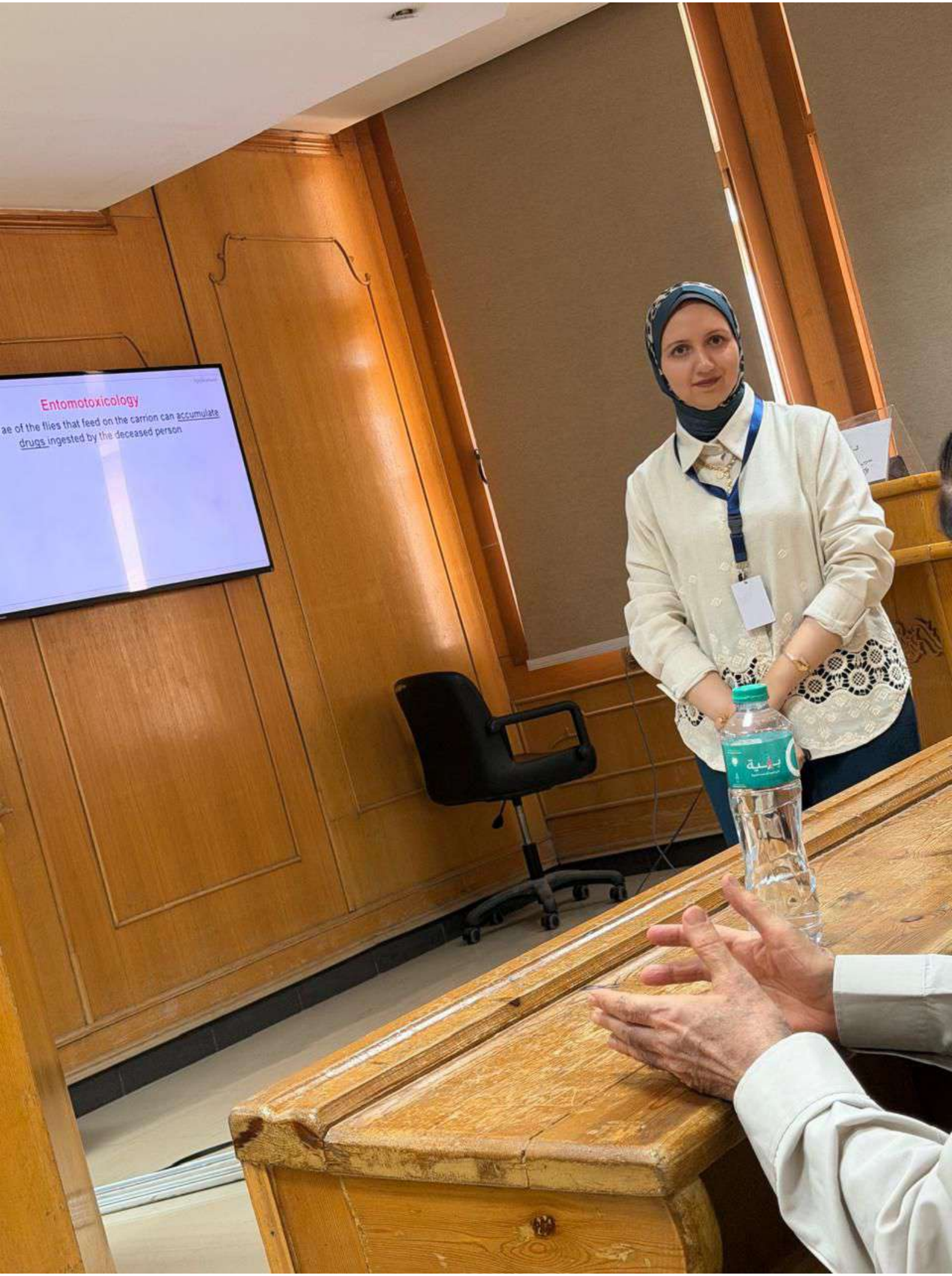



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Thank
you!




Thank you!

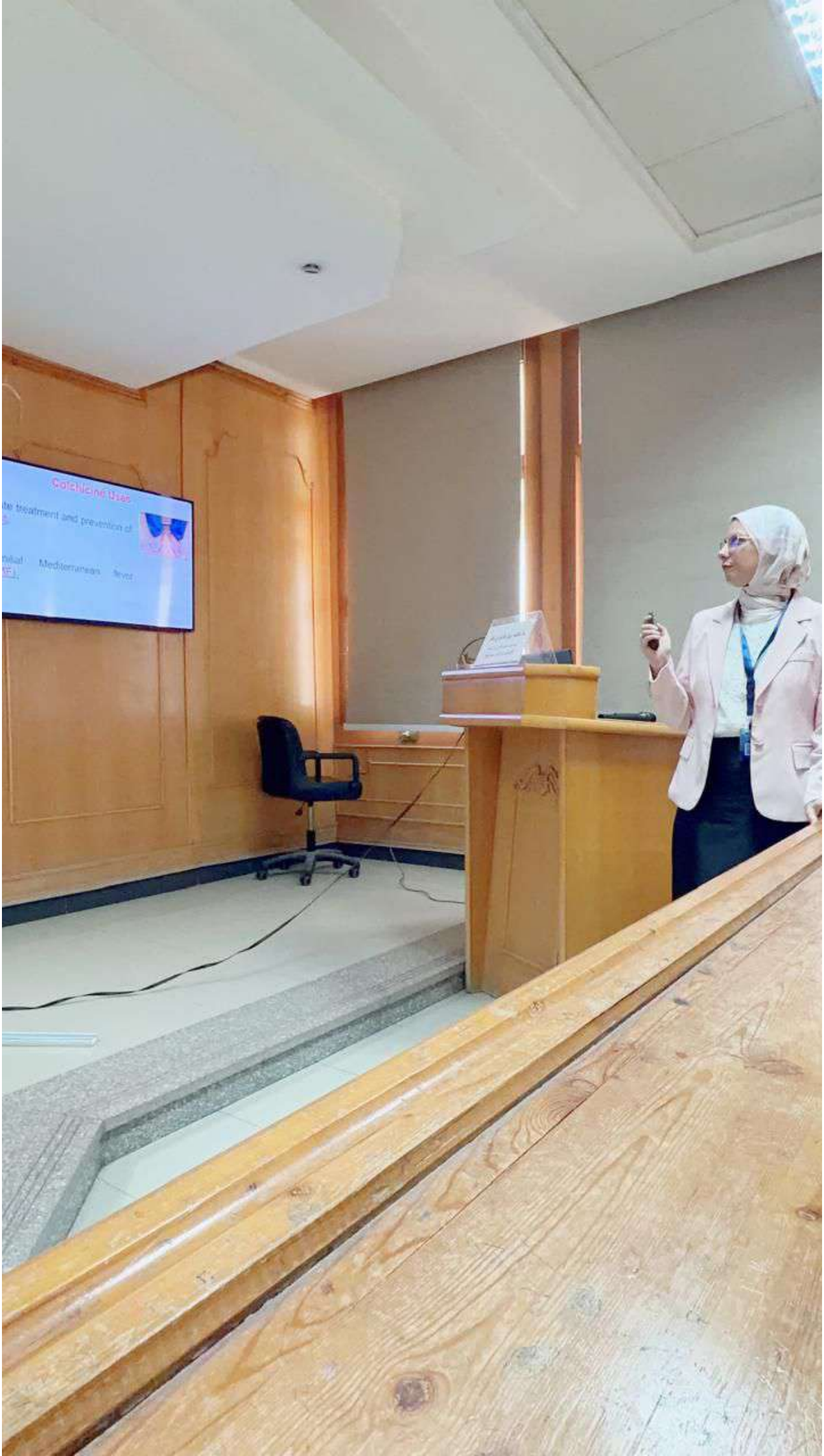

Entomotoxicology
ae of the flies that feed on the carrion can accumulate
drugs ingested by the deceased person


Determination the sites of trauma
arge numbers of maggots
Feeding on surfaces of the body
Away from natural body orifices
Suggest the presence of wounds.


د. نيرة جمال
مدرس بقسم الطب الشرعي و السموم
(الإكلينيكية) بكلية الطب جامعة طنطا

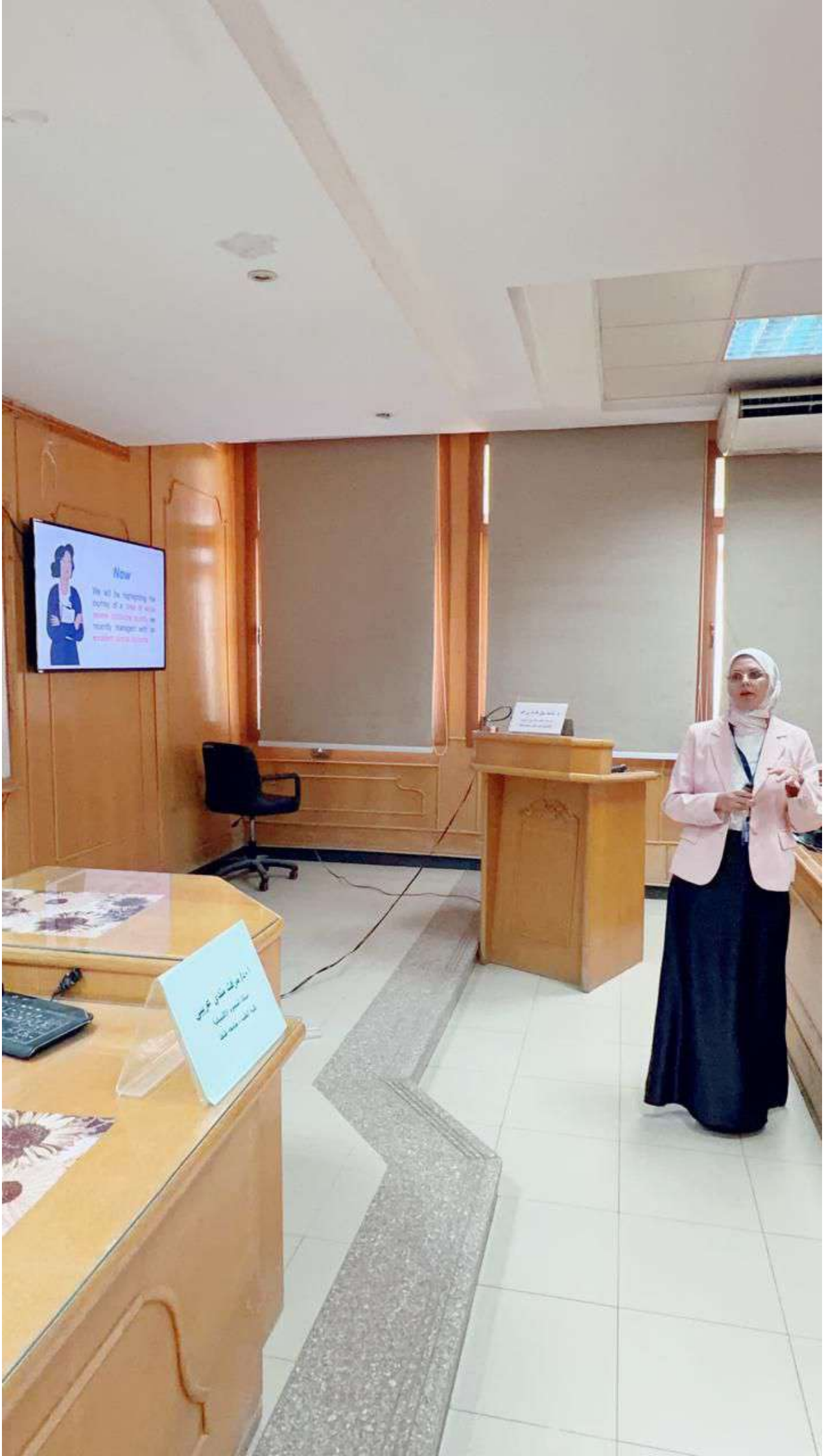



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Colchicine Uses
Mediterranean fever


Insects As Forensic Tools


Laboratory changes
CBC
ABG
Renal function test
Liver function test
Bleeding profile
Coagulation markers
Full electrolytes (Na,K,Mg,ph)
CRP


Now




Case of Acute Colchicine Toxicity
Treatment
Discharged from ICU on
Zurcal IV / 12 hr


THANK YOU!
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THANK YOU!

