

**RESULTS OF VAGINAL CYTOLOGY STUDY USING TRANSITION MATRIX APPROACH**  
**Summary of Female Rats, Study C20617, Perfluorooctane Sulfonate**

<b>STAGE</b>	<b>COMPARISON</b>	<b>P_VALUE</b>	<b>TREND</b>
Overall Tests	Overall	<0.001	
Overall Tests	Low vs. Controls	<0.001	
Overall Tests	Mid vs. Controls	0.004	
Overall Tests	High vs. Controls	0.001	
Extended Estrus	Overall	0.034	
Extended Estrus	Low vs. Controls	0.059	N
Extended Estrus	Mid vs. Controls	0.097	
Extended Estrus	High vs. Controls	0.191	
Extended Diestrus	Overall	<0.001	
Extended Diestrus	Low vs. Controls	0.001	
Extended Diestrus	Mid vs. Controls	0.028	
Extended Diestrus	High vs. Controls	<0.001	
Extended Metestrus	Overall	0.917	
Extended Metestrus	Low vs. Controls	0.363	
Extended Metestrus	Mid vs. Controls	1	
Extended Metestrus	High vs. Controls	1	
Extended Proestrus	Overall	1	
Extended Proestrus	Low vs. Controls	1	
Extended Proestrus	Mid vs. Controls	1	
Extended Proestrus	High vs. Controls	1	

*Note: N under trend indicates that the dosed group had fewer departures from normal than the control group.  
Having no N under trend column indicates that the dosed group had more departures from normal than the control group.*

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<b>STAGE</b>	<b>COMPARISON</b>	<b>P_VALUE</b>	<b>TREND</b>
Skipped Estrus	Overall	0.012	
Skipped Estrus	Low vs. Controls	0.003	
Skipped Estrus	Mid vs. Controls	0.312	N
Skipped Estrus	High vs. Controls	0.312	N
Skipped Diestrus	Overall	1	
Skipped Diestrus	Low vs. Controls	1	
Skipped Diestrus	Mid vs. Controls	1	
Skipped Diestrus	High vs. Controls	1	

*Note: N under trend indicates that the dosed group had fewer departures from normal than the control group.  
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**Summary of Female Rats, Study C20617, Perfluorooctane Sulfonate**  
**Summary of Significant Groups**

<b>STAGE</b>	<b>COMPARISON</b>	<b>P_VALUE</b>	<b>TREND</b>
Overall Tests	Low vs. Controls	<0.001	
Overall Tests	Mid vs. Controls	0.004	
Overall Tests	High vs. Controls	0.001	
Extended Diestrus	Low vs. Controls	0.001	
Extended Diestrus	Mid vs. Controls	0.028	
Extended Diestrus	High vs. Controls	<0.001	
Skipped Estrus	Low vs. Controls	0.003	

**Note: N under trend indicates that the dosed group had fewer departures from normal than the control group.**  
**Having no N under trend column indicates that the dosed group had more departures from normal than the control group.**