

Data Dictionary	Variable/Label	Definitions of measurements	Instrument used for measurement
Sheet Objective 1			
1	dp (um)	Aerodynamic diameter of particles in micrometer	
2	Background ortho	Bckground size distribution of particles in orthodontics settings when no procedure being done	GRIMM
3	High Speed Ortho	Size distribution of particles when high speed drilling was used in a procedure in orthodontics setting	GRIMM
4	Background Pediatrics	Background size distribution of particles in pediatrics settings when no procedure being done	GRIMM
5	High Speed Pediatrics	Size distribution of particles when high speed drilling was used in a procedure in pediatrics setting	GRIMM
6	Background Periodontics	Bckground size distribution of particles in periodontics settings when no procedure being done	GRIMM
7	Periodontics- Ultrasonic scalar	Size distribution of particles when ultrasonics scalr was used in a procedure in periodontics setting	GRIMM
8	Background Endodontics	Bckground size distribution of particles in endodontics settings when no procedure being done	GRIMM
9	High Speed Endodontics	Size distribution of particles when high speed drilling was used in a procedure in endodontics setting	GRIMM
Sheet Objective 2a			
1	dp (um)	Aerodynamic diameter of particles in micrometer	
2	AIR Flow Ortho	Size distribution of particle emissions during high speed drill in orthodontic setting with ventilation	GRIMM
3	No Air flow Ortho	Size distribution of particle emissions during high speed drill in orthodontic setting with minimal ventilation	GRIMM
4	Ortho Conical HVE	Size distribution of particle emissions during high speed drill in orthodontic setting with conical shape high vacuum evacuator	GRIMM
5	Ortho Tip hve	Size distribution of particle emissions during high speed drill in orthodontic setting with tip shape high vacuum evacuator	GRIMM
Sheet Objective 2b			
1	dp (um)	Aerodynamic diameter of particles in micrometer	
2	Periodontics Tip	Size distribution of particle emissions during high speed drill in orthodontic setting with tip shape high vacuum evacuator	GRIMM
3	Periodontics ISOVAC Continuous	Size distribution of particle emissions during continuous ultrasonic scalar cleaning in periodontic setting with ISOVAC as aerosol mitigation technique.	GRIMM
4	Periodontics ISOVAC Discontinuous	Size distribution of particle emissions during discontinuous (on/off)ultrasonic scalar cleaning in periodontic setting with ISOVAC as aerosol mitigation technique.	GRIMM
Sheet Objective 3a			
1	Time	Time	
2	PM 2.5_multioperatory	particulate matter mass concentration for particle of aerodynamic size less than 2.5 um in a multioperatory setting during the use of high speed drill	APT Sensor
Sheet Objective 3b			
1	Time	time	
2	PM 2.5_general	particulate matter mass concentration for particle of aerodynamic size less than 2.5 um in a private single unit setting during the use of high speed drill	3 APT Sensor
Sheet Objective 4			
1	dp (um)	Aerodynamic diameter of particles in micrometer	
2	Front Ortho	Size distribution of particle emissions while operating in the anterior portion using high speed drill in orthodontics settings	GRIMM
3	Back Ortho	Size distribution of particle emissions while operating in the posterior portion using high speed drill in orthodontics settings	GRIMM
4	Front Perio	Size distribution of particle emissions while operating in anterior portion using ultrasonic scalar in periodontics setting	GRIMM
5	Back Perio	Size distribution of particle emissions while operating in posterior portion using ultrasonic scalar in periodontics setting	GRIMM
6	Front Pedia	Size distribution of particle emissions while operating in the anterior portion using high speed drill in pediatrics settings	GRIMM
7	Back Pedia	Size distribution of particle emissions while operating in the posterior portion using high speed drill in pediatrics settings	GRIMM