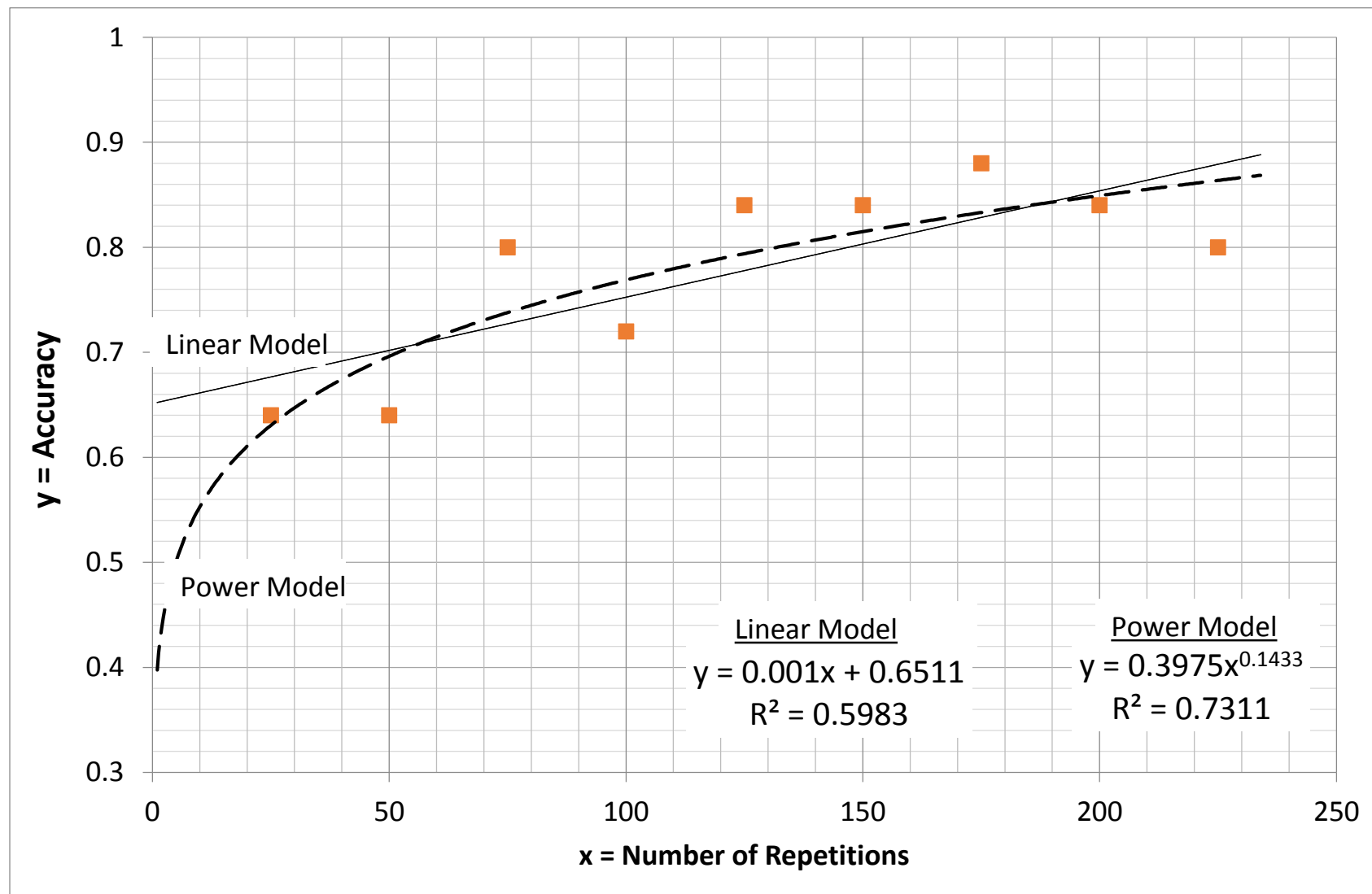


Supplemental Digital Figure 1



Definitions for Supplemental Digital Figure 1

- **First column:** Sequence number in the total dataset. The first case encountered by this student is numbered 235, the second 236.... and so on until they completed their 234th case (numbered 468).
- **PersonID:** MS002 – this was the second Medical Student to complete the case set.
- **Sequence:** In the Figure, the x-axis (“Number of repetitions”) is generated from this column. Determined by subtracting 234 from the First Column number, this directly shows the sequence in which the student encountered the cases, numbered from 1 to 234.
- **Accuracy:** Shows whether the student correctly diagnosed this case. 0=Incorrect; 1=Correct.
- **Acc25:** Every 25th case, we calculate the average proportion correct over the prior 25 cases. Each Acc25 calculation is *independent* of the prior calculation (i.e. this is NOT a moving average).
 - **Excel command** for calculating Acc25:
 - **Cell E26:** “=AVERAGE(D2:D26)
 - **Cell E51:** “=AVERAGE(D27:D51)
 -
 -
 - **Cell E226:** “=AVERAGE(D202:D226)

- **Excel Macro to Generate Learning Curve:**

```
Sub LearningCurve()  
" LearningCurve Macro  
' Generates a learning curve with equation  
"  
' Hide the intervening column Accuracy as it does not figure in the learning curve  
Columns("D:D").Select  
Selection.EntireColumn.Hidden = True  
' Choose the data for the learning curve  
Columns("C:E").Select  
' Insert a Scatter Chart with Straight Lines  
ActiveSheet.Shapes.AddChart.Select  
ActiveChart.ChartType = xlXYScatterLines  
ActiveChart.SetSourceData Source:=Range( _  
    "Figure 5 - Single Learning Curv"!$C:$E")  
' Add a Trendline, Linear  
ActiveChart.SeriesCollection(1).Select  
ActiveChart.SeriesCollection(1).Trendlines.Add  
ActiveChart.SeriesCollection(1).Trendlines(1).Select  
' Select the Line and add its equation and r-squared value – will need to move this  
Selection.DisplayEquation = True  
Selection.DisplayRSquared = True  
' Add a Trendline, Power  
ActiveChart.SeriesCollection(1).Select  
ActiveChart.SeriesCollection(1).Trendlines.Add  
ActiveChart.SeriesCollection(1).Trendlines(2).Select  
' Select the Line and add its equation and r-squared value – will need to move this  
Selection.Type = xlPower  
Selection.DisplayEquation = True  
Selection.DisplayRSquared = True  
End Sub
```

Supplemental Digital Table 1 Data (see also Interactive Supplemental CSV File 1 containing these data)

	PersonID	Sequence	Accuracy	Acc25
235	MS002	1	0	
236	MS002	2	0	
237	MS002	3	1	
238	MS002	4	1	
239	MS002	5	1	
240	MS002	6	0	
241	MS002	7	1	
242	MS002	8	1	
243	MS002	9	1	
244	MS002	10	1	
245	MS002	11	0	
246	MS002	12	0	
247	MS002	13	1	
248	MS002	14	0	
249	MS002	15	1	

250	MS002	16	1	
251	MS002	17	1	
252	MS002	18	1	
253	MS002	19	1	
254	MS002	20	1	
255	MS002	21	0	
256	MS002	22	1	
257	MS002	23	1	
258	MS002	24	0	
259	MS002	25	0	0.64
260	MS002	26	1	
261	MS002	27	0	
262	MS002	28	1	
263	MS002	29	1	
264	MS002	30	0	
265	MS002	31	1	
266	MS002	32	0	
267	MS002	33	1	

268	MS002	34	1	
269	MS002	35	0	
270	MS002	36	1	
271	MS002	37	1	
272	MS002	38	1	
273	MS002	39	0	
274	MS002	40	1	
275	MS002	41	1	
276	MS002	42	1	
277	MS002	43	1	
278	MS002	44	0	
279	MS002	45	1	
280	MS002	46	1	
281	MS002	47	1	
282	MS002	48	0	
283	MS002	49	0	
284	MS002	50	0	0.64
285	MS002	51	1	

286	MS002	52	1	
287	MS002	53	1	
288	MS002	54	0	
289	MS002	55	1	
290	MS002	56	1	
291	MS002	57	1	
292	MS002	58	0	
293	MS002	59	1	
294	MS002	60	1	
295	MS002	61	1	
296	MS002	62	1	
297	MS002	63	1	
298	MS002	64	1	
299	MS002	65	1	
300	MS002	66	1	
301	MS002	67	0	
302	MS002	68	0	
303	MS002	69	1	

304	MS002	70	1	
305	MS002	71	1	
306	MS002	72	1	
307	MS002	73	1	
308	MS002	74	1	
309	MS002	75	0	0.8
310	MS002	76	1	
311	MS002	77	1	
312	MS002	78	0	
313	MS002	79	1	
314	MS002	80	1	
315	MS002	81	1	
316	MS002	82	1	
317	MS002	83	1	
318	MS002	84	1	
319	MS002	85	1	
320	MS002	86	0	
321	MS002	87	1	

322	MS002	88	1	
323	MS002	89	1	
324	MS002	90	0	
325	MS002	91	0	
326	MS002	92	1	
327	MS002	93	0	
328	MS002	94	1	
329	MS002	95	0	
330	MS002	96	1	
331	MS002	97	0	
332	MS002	98	1	
333	MS002	99	1	
334	MS002	100	1	0.72
335	MS002	101	1	
336	MS002	102	1	
337	MS002	103	0	
338	MS002	104	1	
339	MS002	105	1	

340	MS002	106	1	
341	MS002	107	1	
342	MS002	108	1	
343	MS002	109	0	
344	MS002	110	1	
345	MS002	111	1	
346	MS002	112	0	
347	MS002	113	1	
348	MS002	114	1	
349	MS002	115	0	
350	MS002	116	1	
351	MS002	117	1	
352	MS002	118	1	
353	MS002	119	1	
354	MS002	120	1	
355	MS002	121	1	
356	MS002	122	1	
357	MS002	123	1	

358	MS002	124	1	
359	MS002	125	1	0.84
360	MS002	126	1	
361	MS002	127	1	
362	MS002	128	1	
363	MS002	129	1	
364	MS002	130	1	
365	MS002	131	1	
366	MS002	132	1	
367	MS002	133	1	
368	MS002	134	1	
369	MS002	135	0	
370	MS002	136	1	
371	MS002	137	1	
372	MS002	138	1	
373	MS002	139	1	
374	MS002	140	1	
375	MS002	141	1	

376	MS002	142	1	
377	MS002	143	0	
378	MS002	144	1	
379	MS002	145	1	
380	MS002	146	1	
381	MS002	147	1	
382	MS002	148	1	
383	MS002	149	0	
384	MS002	150	0	0.84
385	MS002	151	1	
386	MS002	152	1	
387	MS002	153	1	
388	MS002	154	0	
389	MS002	155	1	
390	MS002	156	1	
391	MS002	157	1	
392	MS002	158	1	
393	MS002	159	1	

394	MS002	160	1	
395	MS002	161	0	
396	MS002	162	1	
397	MS002	163	1	
398	MS002	164	1	
399	MS002	165	1	
400	MS002	166	1	
401	MS002	167	1	
402	MS002	168	1	
403	MS002	169	1	
404	MS002	170	1	
405	MS002	171	0	
406	MS002	172	1	
407	MS002	173	1	
408	MS002	174	1	
409	MS002	175	1	0.88
410	MS002	176	1	
411	MS002	177	1	

412	MS002	178	0	
413	MS002	179	1	
414	MS002	180	1	
415	MS002	181	1	
416	MS002	182	1	
417	MS002	183	1	
418	MS002	184	1	
419	MS002	185	0	
420	MS002	186	1	
421	MS002	187	1	
422	MS002	188	1	
423	MS002	189	1	
424	MS002	190	1	
425	MS002	191	1	
426	MS002	192	0	
427	MS002	193	1	
428	MS002	194	1	
429	MS002	195	1	

430	MS002	196	0	
431	MS002	197	1	
432	MS002	198	1	
433	MS002	199	1	
434	MS002	200	1	0.84
435	MS002	201	1	
436	MS002	202	1	
437	MS002	203	1	
438	MS002	204	1	
439	MS002	205	1	
440	MS002	206	1	
441	MS002	207	1	
442	MS002	208	0	
443	MS002	209	0	
444	MS002	210	1	
445	MS002	211	1	
446	MS002	212	1	
447	MS002	213	1	

448	MS002	214	1	
449	MS002	215	1	
450	MS002	216	1	
451	MS002	217	0	
452	MS002	218	0	
453	MS002	219	0	
454	MS002	220	1	
455	MS002	221	1	
456	MS002	222	1	
457	MS002	223	1	
458	MS002	224	1	
459	MS002	225	1	0.8
460	MS002	226	1	
461	MS002	227	1	
462	MS002	228	1	
463	MS002	229	1	
464	MS002	230	1	
465	MS002	231	1	

466	MS002	232	1	
467	MS002	233	1	
468	MS002	234	1	