

## Number of Publications by Clinical Department Fiscal 2002-2003

	<u>Refereed Journals</u>	<u>Book Chapters</u>
Anesthesiology	1	1
Diagnostic Radiology	12	1
Emergency Medicine	0	0
Family Practice	8	4
Internal Medicine	58	17
Neurology	25	7
Obstetrics and Gynecology	6	3
Ophthalmology	6	1
Pediatrics	21	3
Physical Medicine and Rehabilitation	1	0
Psychiatry	12	0
Radiation Medicine	3	0
Surgery		
<i>Cardiothoracic</i>	6	2
<i>General Surgery</i>	41	5
<i>Neurosurgery</i>	9	2
<i>Orthopaedics</i>	7	6
<i>E.N.T.</i>	4	0
<i>Urology</i>	3	1
<i>Pediatric Surgery</i>	0	0
<i>Plastic Surgery</i>	2	1
<i>Transplant</i>	0	0

<i>Division</i>	<i>2002-2003</i>				<i>2001-2002</i>			
	<i>Referred Journals</i>	<i>Book Chapters</i>	<i>Full-time Faculty</i>	<i>Full-time Clin. Fac.</i>	<i>Referred Journal</i>	<i>Book Chapters</i>	<i>Full-time Faculty</i>	<i>Full-time Clin. Fac.</i>
Cardiothoracic Surgery	6	2	10	8	9	2	8	6
General Surgery	41	5	23	22	34	4	22	21
Neurosurgery	9	2	10	6	4	3	11	6
Orthopaedic Surgery	7	6	16	16	9	5	14	14
ENT	4	0	7	6	2	3	7	6
Urology	3	1	4	3	5	3	6	5
Pediatric Surgery	0	0	2	2	0	0	3	3
Plastic Surgery	2	1	5	5	4	1	4	4
Transplant	8	0	4	4	1	0	4	4
<b>Total</b>	<b>80</b>	<b>17</b>	<b>81</b>	<b>72</b>	<b>68</b>	<b>20</b>	<b>79</b>	<b>69</b>

DEPARTMENT SURGERY STRATEGIC PLANNING DATA

Sum of All Divisions  
Research and Academic Productivity

	1998-1999		%Chng	1999-2000		%Chng	2000-2001		%Chng	2001-2002		%Chng	2002-2003		%Chng
	Number	Dollar		Number	Dollar		Number	Dollar		Number	Dollar		Number	Dollar	
<b>Grants Submitted</b>															
NIH	24	\$17,118,852	1750%	20	\$18,326,438	7%	10	\$5,825,882	(68%)	11	\$6,138,377	5%	18	\$11,344,483	85%
Other	16	\$2,775,323	(48%)	22	\$3,130,276	13%	21	\$1,707,334	(45%)	15	\$1,798,708	5%	31	\$8,450,591	370%
Contract	23	\$1,956,667	548%	13	\$2,164,657	11%	11	\$1,193,799	(45%)	19	\$1,724,779	44%	17	\$1,611,629	(7%)
Med Center	8	\$111,861		7	\$111,072	(1%)	5	\$68,056	(39%)	3	\$45,000	(34%)	6	\$89,887	100%
<b>Total</b>	<b>71</b>	<b>\$21,962,703</b>	<b>236%</b>	<b>62</b>	<b>\$23,732,443</b>	<b>8%</b>	<b>47</b>	<b>\$8,795,071</b>	<b>(63%)</b>	<b>48</b>	<b>\$9,706,864</b>	<b>10%</b>	<b>72</b>	<b>\$21,496,590</b>	<b>121%</b>
<b>Grants Funded</b>															
NIH	17	\$2,150,288	(21%)	17	\$1,513,423	(30%)	15	\$2,186,482	44%	18	\$2,271,763	4%	14	\$2,210,592	(3%)
Other	18	\$1,028,656	47%	23	\$1,362,702	32%	19	\$1,360,127	(0%)	16	\$1,439,374	6%	21	\$2,705,248	88%
Contract	49	\$568,036	(14%)	47	\$575,724	1%	40	\$635,748	10%	49	\$668,242	5%	40	\$643,441	(4%)
Med Center	4	\$62,064	315%	5	\$43,676	(30%)	3	\$33,090	(24%)	4	\$43,947	33%	3	\$86,000	96%
<b>Total</b>	<b>88</b>	<b>\$3,809,044</b>	<b>(7%)</b>	<b>92</b>	<b>\$3,495,525</b>	<b>(8%)</b>	<b>77</b>	<b>\$4,215,447</b>	<b>21%</b>	<b>87</b>	<b>\$4,423,326</b>	<b>5%</b>	<b>78</b>	<b>\$5,645,281</b>	<b>28%</b>

**Grants Submitted** - represents the number and dollar amount of any grant submitted during a given fiscal year.

- NIH

- Other - any grant submitted which is not NIH or Contract or Medical Center

- Contract - industrial sponsored agreements; generally human clinical studies

- Med Center - internally sponsored awards (eg. awards through the Dean or Vice Chancellor)

**Grants Funded** - represents the number and dollar amount of any grant funded during a given fiscal year. Grant dollars awarded are credited only to the fiscal year in which the dollars were received. If the award year crosses fiscal years, a grant is included as active for both fiscal years, but award dollars are only reported if they are actually received during a fiscal year.

Research Space Allocated (Net Ft <sup>2</sup> )	12,097	12,196	1%	11,495	(6%)	12,099	5%	11,427
Funding/Square Foot (\$/Ft <sup>2</sup> )	315	\$287	-9%	\$367	28%	\$366	(0%)	\$494

**Research Space Allocated** - represents the sum of all square feet of laboratory space assigned to a division.

**Funding per Square Foot** - is a calculated number, sum of all award dollars per fiscal year divided by a division's research space allocated.

	1998-1999		1999-2000		2000-2001		2001-2002		2002-2003	
	Number	%Chng	Number	%Chng	Number	%Chng	Number	%Chng	Number	%Chng
<b>Publications</b>										
Refereed Journal Articles	79	-2%	107	35%	116	8%	73	-37%	80	10%
Books/Book Chapters	25	79%	14	-44%	25	79%	20	-20%	17	-15%
Abstracts	32	-16%	26	-19%	41	58%	13	-68%	13	0%
<b>Total</b>	<b>136</b>	<b>2%</b>	<b>147</b>	<b>8%</b>	<b>182</b>	<b>24%</b>	<b>106</b>	<b>-42%</b>	<b>110</b>	<b>4%</b>
<b>Presentations</b>										
National	135	63%	91	-33%	145	59%	110	-24%	106	-4%
International	44	-21%	43	-2%	80	86%	41	-49%	41	0%
<b>Total</b>	<b>179</b>	<b>29%</b>	<b>134</b>	<b>-25%</b>	<b>225</b>	<b>68%</b>	<b>151</b>	<b>-33%</b>	<b>147</b>	<b>-3%</b>
<b>Professional Activity</b>										
Study Sections	24	4%	21	-13%	18	-14%	20	11%	20	0%
Grant Reviewer	18	64%	26	44%	20	-23%	23	15%	19	-17%
Editor/Editorial Board	40	18%	47	18%	39	-17%	40	3%	46	15%
Manuscript Reviewer	118	15%	130	10%	134	3%	178	33%	163	-8%
<b>Total</b>	<b>200</b>	<b>17%</b>	<b>224</b>	<b>12%</b>	<b>211</b>	<b>-6%</b>	<b>261</b>	<b>24%</b>	<b>248</b>	<b>-5%</b>

**Publications** - All information is taken from the Faculty Database; Annual Report-Faculty Productivity Statistics. To ensure the highest quality of publication activity is reported, only the categories Refereed Journal Articles, Books Published as Primary Author & Book Chapters, and Abstracts are included, i.e., categories such as Other Publications are not included. All publications of faculty in the divisions for these categories are reported per fiscal year.

**Presentations** - All national and international presentations made by division faculty are reported by fiscal year.

**Professional Activity** - To ensure the highest quality of professional activity is reported, only regional, national and international professional activities in the categories of Study Section, Grant Reviewer/Review Panels, Editor of a Professional Journal, Editorial Board/Manuscript Reviewer, and Journal Manuscript Reviewer were reported, i.e., no state or local professional activity is reported in any category and categories such as Public Service were not included.

**DEPARTMENT OF SURGERY STRATEGIC PLANNING DATA**

Fiscal Years 2000-01 to 2002-03

*Orthopaedic Surgery  
Research and Academic Productivity*

	1998-1999		%Chng	1999-2000		%Chng	2000-2001		%Chng	2001-2002		%Chng	2002-2003		%Chng
	Number	Dollar		Number	Dollar		Number	Dollar		Number	Dollar		Number	Dollar	
<b>Grants Submitted</b>															
NIH	1	\$169,730		0	\$0	(100%)	0	\$0		0	\$0		0	\$0	
Other	0	\$0		0	\$0		0	\$0		0	\$0		2	\$46,080	
Contract	1	\$18,075	(32%)	0	\$0	(100%)	3	\$97,146		0	\$0	(100%)	0	\$0	
Med Center	2	\$29,250		2	\$28,840	(1%)	0	\$0	(100%)	1	\$15,000		0	\$0	(100%)
<b>Total</b>	<b>4</b>	<b>\$217,055</b>	<b>720%</b>	<b>2</b>	<b>\$28,840</b>	<b>(87%)</b>	<b>3</b>	<b>\$97,146</b>	<b>237%</b>	<b>1</b>	<b>\$15,000</b>	<b>(85%)</b>	<b>2</b>	<b>\$46,080</b>	<b>207%</b>
<b>Grants Funded</b>															
NIH	0	\$0		0	\$0		0	\$0		0	\$0		0	\$0	
Other	2	\$38,075		4	\$10,000	(74%)	2	\$0	(100%)	1	\$0		3	\$46,080	
Contract	9	\$0	(100%)	4	\$0		2	\$3,750		2	\$68,346	1723%	1	\$0	(100%)
Med Center	2	\$14,400		2	\$19,600	36%	2	\$25,090	28%	0	\$0	(100%)	1	\$15,000	
<b>Total</b>	<b>13</b>	<b>\$52,475</b>	<b>(39%)</b>	<b>10</b>	<b>\$29,600</b>	<b>(44%)</b>	<b>6</b>	<b>\$28,840</b>	<b>(3%)</b>	<b>3</b>	<b>\$68,346</b>	<b>137%</b>	<b>5</b>	<b>\$61,080</b>	<b>(11%)</b>

*Grants Submitted* - represents the number and dollar amount of any grant submitted during a given fiscal year.

- NIH

- Other - any grant submitted which is not NIH or Contract or Medical Center

- Contract - industrial sponsored agreements; generally human clinical studies

- Med Center - internally sponsored awards (eg. awards through the Dean or Vice Chancellor)

*Grants Funded* - represents the number and dollar amount of any grant funded during a given fiscal year. Grant dollars awarded are credited only to the fiscal year in which the dollars were received. If the award year crosses fiscal years, a grant is included as active for both fiscal years, but award dollars are only reported if they are actually received during a fiscal year.

<b>Research Space Allocated (Net F</b>	0	0	0	0
<b>Funding/Square Foot (\$/Ft<sup>2</sup>)</b>	\$0	\$0	\$0	\$0

*Research Space Allocated* - represents the sum of all square feet of laboratory space assigned to a division.

*Funding per Square Foot* - is a calculated number; sum of all award dollars per fiscal year divided by a division's research space allocated.

DEPARTMENT OF SURGERY STRATEGIC PLANNING DATA  
Fiscal Years 2000-01 to 2002-03

Orthopaedic Surgery  
Research and Academic Productivity

	1998-1999		1999-2000		2000-2001		2001-2002		2002-2003	
	Number	%Chng	Number	%Chng	Number	%Chng	Number	%Chng	Number	%Chng
<b>Publications</b>										
Refereed Journal Articles	12	(14%)	16	33%	14	(13%)	9	(36%)	7	(22%)
Books/Book Chapters	5	67%	0	(100%)	9		5	(44%)	6	20%
Abstracts	0	(100%)	0		1		2	100%	1	(50%)
<b>Total</b>	<b>17</b>	<b>(15%)</b>	<b>16</b>	<b>(6%)</b>	<b>24</b>	<b>50%</b>	<b>16</b>	<b>(33%)</b>	<b>14</b>	<b>(13%)</b>
<b>Presentations</b>										
National	40	167%	37	(8%)	43	16%	22	(49%)	26	18%
International	11	(54%)	7	(36%)	12	71%	5	(58%)	2	(60%)
<b>Total</b>	<b>51</b>	<b>31%</b>	<b>44</b>	<b>(14%)</b>	<b>55</b>	<b>25%</b>	<b>27</b>	<b>(51%)</b>	<b>28</b>	<b>4%</b>
<b>Professional Activity</b>										
Study Sections	3	50%	0	(100%)	0		0		0	
Grant Reviewer	0		0		0		0		0	
Editor/Editorial Board	4	0%	9	125%	5	(44%)	10	100%	12	20%
Manuscript Reviewer	5	(29%)	6	20%	6	0%	7	17%	7	0%
<b>Total</b>	<b>12</b>	<b>(8%)</b>	<b>15</b>	<b>25%</b>	<b>11</b>	<b>(27%)</b>	<b>17</b>	<b>55%</b>	<b>19</b>	<b>12%</b>

**Publications** - All information is taken from the Faculty Database; Annual Report-Faculty Productivity Statistics. To ensure the highest quality of publication activity is reported, only the categories Refereed Journal Articles, Books Published as Primary Author & Book Chapters, and Abstracts are included, i.e., categories such as Other Publications are not included. All publications of faculty in the divisions for these categories are reported per fiscal year.

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**REPORT OF RESEARCH PRODUCTIVITY**

1993 - 2003

Division of Orthopaedic Surgery

University of Kentucky

Lexington, KY

1 April 2004

## Executive Summary

This report details the faculty research productivity over the period 1993 – 2003. All published and peer reviewed productivity was recorded from faculty that responded to inquiries within the time allotted.

Several noteworthy considerations must be remembered when reading this summary. First, there has been faculty turnover during this period, and some of the faculty was not available within the time allocated to prepare this report. Therefore, their productivity was not included. Notes indicating who such faculty was and their term of employment at UK Orthopaedics are provided. Therefore, the summary presented is a “worst-case” report. Additional information received from this faculty will result in an increased volume of productivity.

Second, the University of Kentucky maintains a database of faculty grant activity. This database is only accurate as far as faculty has completed Internal Approval Forms notifying the University of the receipt of such grant funding. In the past, this was not done on a rigorous basis. IAFs were not completed for an unknown number of funded grants, therefore the numbers presented in this report for grant activity will likely differ from those formally listed by the University.

Third, despite repeated notification to the contrary, the University often fails to recognize receipt of funded grants that do not include overhead dollars. New faculty commonly receives small grants to assist them with commencing their research activities. Such granting agencies often have as a matter of policy that they do not pay overhead expenses. Because of this policy, University accounting systems do not recognize these grants; nevertheless, they are included in this report because they do convey important information regarding faculty productivity. Such start-up grants are also responsible for a number of research publications as well as faculty involvement in the graduate student educational mission of the University.

The summarized University of Kentucky Orthopedic Faculty research productivity for the period 1993 to 2003 includes the following:

- A funded grant requests - \$2,251,064
- B peer-reviewed publications - 244
- C presentations at scientific conferences - 301  
and abstracts
- D United States Patent literature - 7
- E books written or edited - 5
- F book chapters written - 46

As noted previously, due to faculty underreporting, these are lower limit values for the productivity of the Division for this period.



Center for Bioengineering  
Interview with former director Charles Knapp  
Current acting director is David Puleo

Thirteen years ago when Herb Cowfer became head of the Division of Orthopedics he contacted the then director Jim Lafferty and said he had some start-up money and wondered about doing some joint biomedical engineering projects. Eventually, a tenure track line was created and Dr. David Pienkowski was hired into the position. He was to develop a joint research activity as liaison with residents and faculty in the division of orthopedics. A small area in the Wintergrin Lab was outfitted and made available for testing various cadaviee joint and bone models. It was expected that he would develop clinically related activities with business and industry as well as assisting the young faculty in their research efforts. It is Dr. Knapp's impression that the "revolving door" of faculty cause many of the activities and projects never to be finished and funding did not follow. Dr. Pienkowski finally did get promoted into a tenured track line but with great difficulty. A lot of the defense of thesis done by joint engineering students and orthopedics faculty was actually completed after the faculty had left. Dr. Knapp believes their need to be more commitment from the administration if joint venture is to be utilized.

On the appointment of Dr. Johnson, he noted some research funding but it was to be in a research title series and for three year only. Efforts to recruit a team fell short. Dr. Johnson was not personally involved and difficult to get through to. Dr. Metzger was originally not involved and when it came down to the hiring objected to hiring anyone in a tenure track position. Currently the Center reports to the Dean of the Graduate School.

It has just been reviewed by a 3 person team from Michigan State , University of Tennessee Memphis and a UK individual. The report should be out soon. Issues raised were reporting relations as well as funding and whether the Center should be moved to the Medical Center/College of Medicine or to the College of Engineering. The current center is self-supporting unit but because of this has not grown. When Dr. Knapp was asked directly about the relationship were Orthopedics to be a department or to stay as a division he was relatively non-committal stating that he felt the most essential thing was a commitment from "the administration" to the program and a clear understanding of the administrative relationships with the center.