

# **Utah GME Retention Report**

**Utah Medical Education Council**

Prepared by: Andrew Salt

**Academic Year 2016-2017**

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# **Utah's GME Program Retention Summary**

*Academic Year 2016-2017*

The *Utah Medical Education Council* (UMEC) works with Utah's Graduate Medical Education (GME) institutions to monitor the retention of GME-trained physicians in Utah. The retention of these graduates is vital to maintaining a competent and adequately dispersed physician workforce in Utah. Indeed, monitoring the distribution of these physicians by geography and specialty provides insight to GME programs to help them meet the needs of both their individual institution as well as the health of Utah's communities.

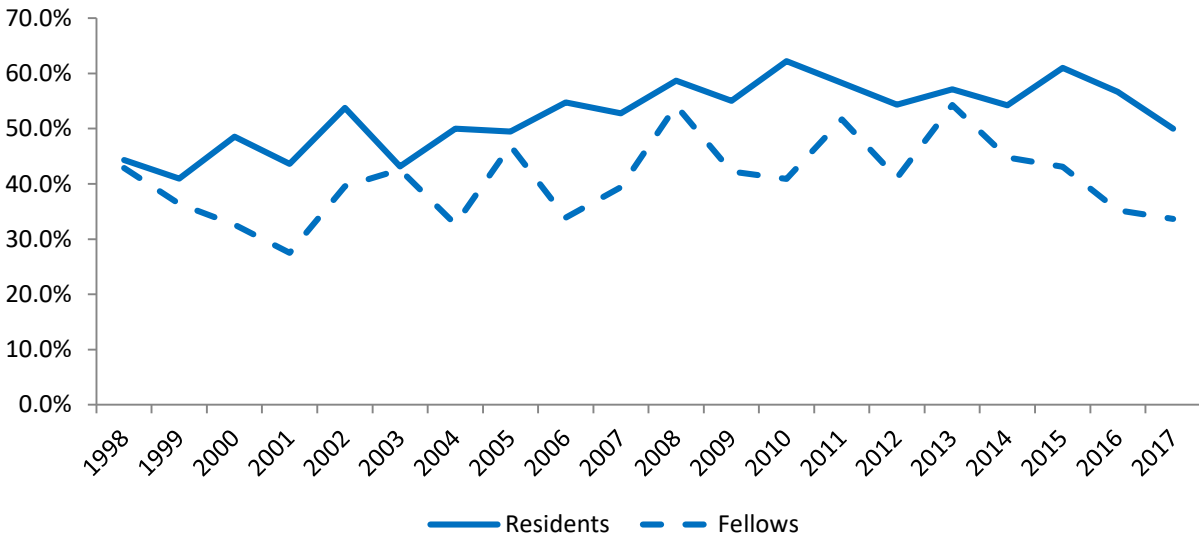
The retention rates are based on data received from the McKay Dee Family Medicine residency program, St. Mark's Family Medicine residency program, Utah Valley Family Medicine residency program, Intermountain Medical Center programs, and the University of Utah GME Office. In addition, the UMEC uses licensing data provided by the Utah Division of Occupational and Professional Licensing (DOPL), and works with each GME program in validating the accuracy of the information compiled by the UMEC.

## **Retention Formula**

$$\frac{\text{Active Utah program graduate physicians , practicing , teaching or conducting research in Utah}}{(\text{Utah program graduates}) - (\text{Residents who are deceased})}$$

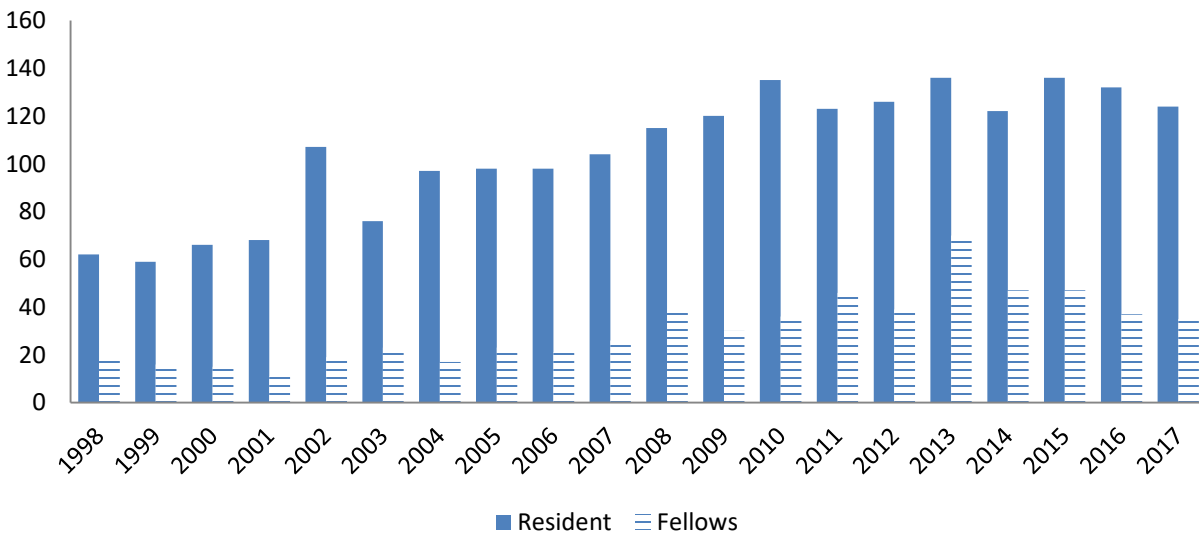
- Retention is program specific.
- International Medical Graduates (IMGs) are included in the program graduate count.

**Figure 1: Retention Rate of Utah Trained Residents & Fellows by Year (as of January 2018)**



The above graph illustrates the percentage of each graduating cohort in terms of those individuals who were Utah trained (either in a residency or fellowship program) and who are actively practicing in Utah as of January 2018. Individuals who are deceased, did not graduate, or are not practicing in Utah as of January 2018 are excluded from the overall retention percentage.

**Figure 2: Total Residents and Fellows Retained each Year (as of January 2018)**



**Table 1: Total Retention from 1998-2017 (as of January 2018)**

Utah Trained Residents/Fellows	Residents/Fellows
Total Residencies/Fellowships Completed*	5,430
Unique Graduates**	4,805
Unique Active in Utah	2,235 (45.5%)

\* This number includes the total number of residencies and fellowships that have been completed within Utah from 1998-2017. Residents/fellows who completed more than one program within Utah are counted as a graduate from each respective program.  
 \*\* This is the total number of *unique* individuals who have completed a residency or fellowship in Utah from 1998-2017. Specifically, this number excludes counting residents/fellows who have completed more than one program as representing more than one resident/fellow. Thus, 4805 individuals have completed 5430 total residencies/fellowships in Utah from 1998-2017.

**Table 2: Utah Trained Residents/Fellows Currently Practicing in the United States**

Region*	Number of Utah Trained Residents	Number of Utah Trained Fellows
West**	3,046 (76.9%)	984 (66.9%)
South	412 (10.4%)	203 (13.8%)
Midwest	321 (8.1%)	176 (12.0%)
Northeast	128 (3.2%)	73 (5.0%)
<b>TOTAL***</b>	<b>3,960 (98.7%)</b>	<b>1,470 (97.7%)</b>

\* Regions are here taken from the *Bureau of Labor Statistics*. See the Bureau’s “Economy at a Glance” for region specific information.  
 \*\*Includes Utah in region.  
 \*\*\*Not all Utah trained residents/fellows are currently practicing within the United States. In addition, not all residents are practicing medicine at this time.

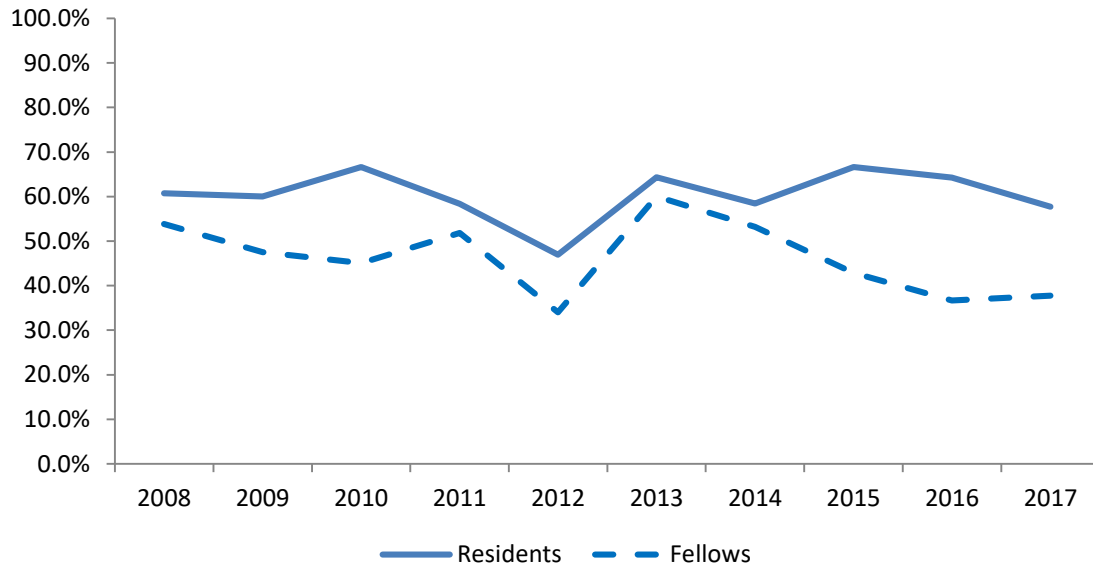
**Table 3: Top Five States containing Utah Trained Resident/Fellows (1998-2017)**

State	Number of Utah Trained Residents
California	284
Oregon	186
Washington	186
Colorado	177
Idaho	152

**Table 4: Retention of Primary Care (2008-2017)**

Year	Residency			Fellowship		
	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	84	51	60.7%	39	21	53.8%
2009	95	57	60.0%	40	19	47.5%
2010	99	66	66.7%	51	23	45.1%
2011	84	49	58.3%	54	28	51.9%
2012	98	46	46.9%	50	17	34.0%
2013	101	65	64.4%	65	39	60.0%
2014	101	59	58.4%	62	33	53.2%
2015	90	60	66.7%	56	24	42.9%
2016	98	63	64.3%	60	22	36.7%
2017	104	60	57.7%	53	20	37.7%
<b>Total</b>	<b>954</b>	<b>576</b>	<b>60.4%</b>	<b>530</b>	<b>246</b>	<b>46.4%</b>

**Figure 3: Primary Care Retention, 2008-2017**

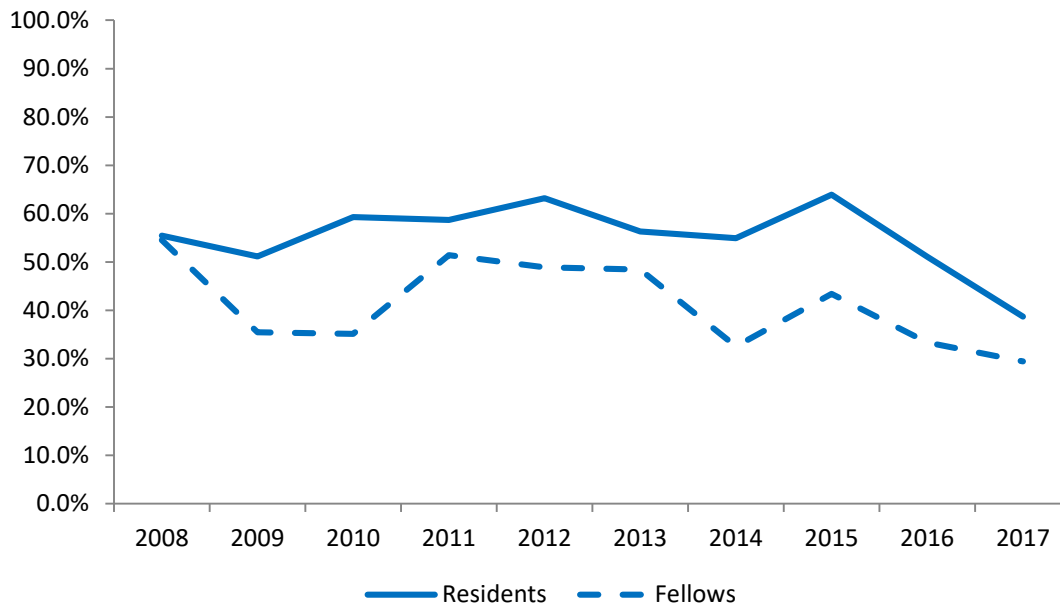


**Table 5: Retention of Specialty Care (2008-2017)**

**Residency Fellowship**

Year	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	83	46	55.4%	33	18	54.5%
2009	88	45	51.1%	31	11	35.5%
2010	86	51	59.3%	37	13	35.1%
2011	92	54	58.7%	35	18	51.4%
2012	95	60	63.2%	45	22	48.9%
2013	103	58	56.3%	64	31	48.4%
2014	91	50	54.9%	43	14	32.6%
2015	97	62	63.9%	53	23	43.4%
2016	94	48	51.1%	45	15	33.3%
2017	106	41	38.7%	51	15	29.4%
<b>Total</b>	<b>935</b>	<b>515</b>	<b>55.1%</b>	<b>437</b>	<b>180</b>	<b>41.2%</b>

**Figure 4: Specialty Care Retention, 2008-2017**



**Table 6: Total Retention by Specialty (Over last decade, 2008-2017)**

<b>Specialty</b>	<b>Residency</b>	<b>Fellowship</b>
Adult Psychiatry	84.8%	100.0%
Anesthesiology	76.1%	48.4%
Child Psychiatry	87.5%	60.0%
Dental	54.0%	-
Dermatology	64.3%	-
Diagnostic Radiology	68.4%	68.6%
Emergency Medicine	77.1%	57.1%
Family Medicine	69.4%	21.9%
General Surgery	54.3%	50.0%
General Surgery - PRELIM	66.7%	-
Internal Medicine	59.2%	51.0%
Internal Medicine - PRELIM	59.7%	-
Internal Medicine - PEDIATRICS	44.0%	0.0%
Medical Genetics	-	25.0%
Neurology	44.4%	60.0%
Neurosurgery	22.2%	26.7%
OBGYN	46.7%	40.0%
Occupational Medicine	45.7%	-
Ophthalmology	46.7%	-
Orthopedics	39.2%	16.8%
Otolaryngology	17.2%	50.0%
Pathology	56.6%	50.5%
Pediatrics	51.0%	41.3%
Physical Rehabilitation	38.3%	20.0%
Plastic Surgery	23.5%	18.2%
Podiatry	56.9%	-
Radiation Oncology	21.1%	-
Transitional Year	32.0%	-
Triple Board	57.9%	-
Urology	33.3%	-

**Table 7: Total Retention (4 year intervals, 1998-2017)**

<b>Period</b>	<b>Total Graduates</b>	<b>Retained in Utah (2017)</b>	<b>Percent Retained</b>
1998-2001	748	315	42.1%
2002-2005	970	460	47.4%
2006-2009	1,061	553	52.1%
2010-2013	1,299	711	54.7%
2014-2017	1,352	680	50.3%
<b>Total</b>	<b>5,430</b>	<b>2,719</b>	<b>50.1%</b>



## Retention by Specialty

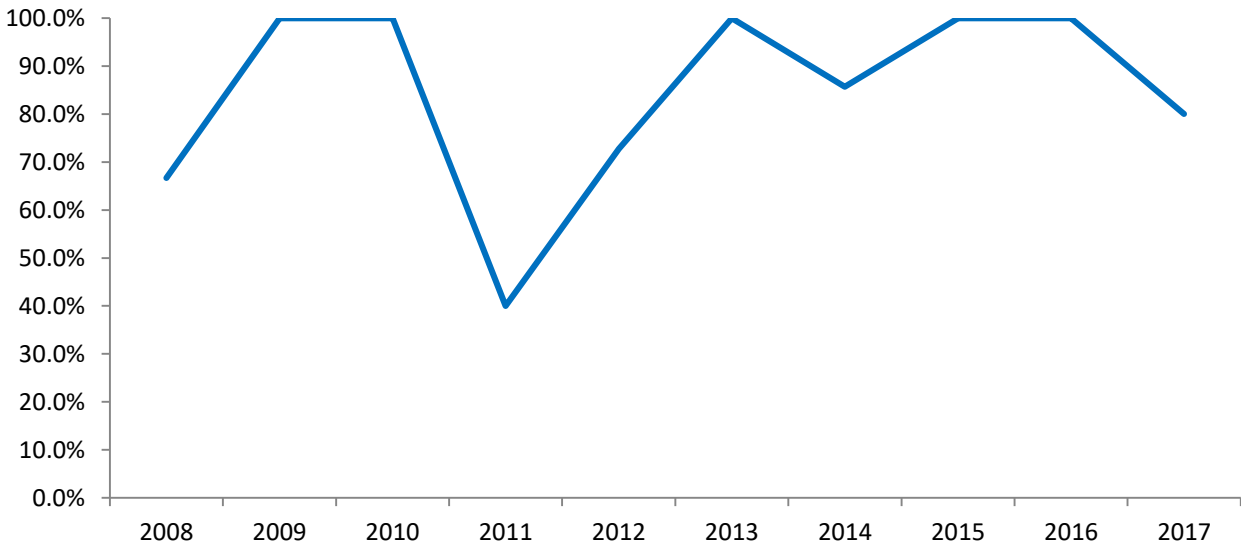
### Adult Psychiatry – Residency and Fellowship Graduates

**Table 8: Annual Adult Psychiatry Retention, 2008-2017**

Year	Residency			Fellowship		
	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	3	2	66.7%	0	0	-
2009	8	8	100.0%	0	0	-
2010	4	4	100.0%	0	0	-
2011	5	2	40.0%	0	0	-
2012	11	8	72.7%	0	0	-
2013	5	5	100.0%	2	2	100.0%
2014	7	6	85.7%	0	0	-
2015	7	7	100.0%	1	1	100.0%
2016	6	6	100.0%	1	1	100.0%
2017	10	8	80.0%	0	0	-
<b>Total</b>	<b>66</b>	<b>56</b>	<b>84.8%</b>	<b>4</b>	<b>4</b>	<b>100.0%</b>

\*\* Fellowship programs contain: *Addiction Psychiatry*

**Figure 3: Adult Psychiatry Retention, 2008-2017**



With so few residents and fellows, their numbers have been combined.

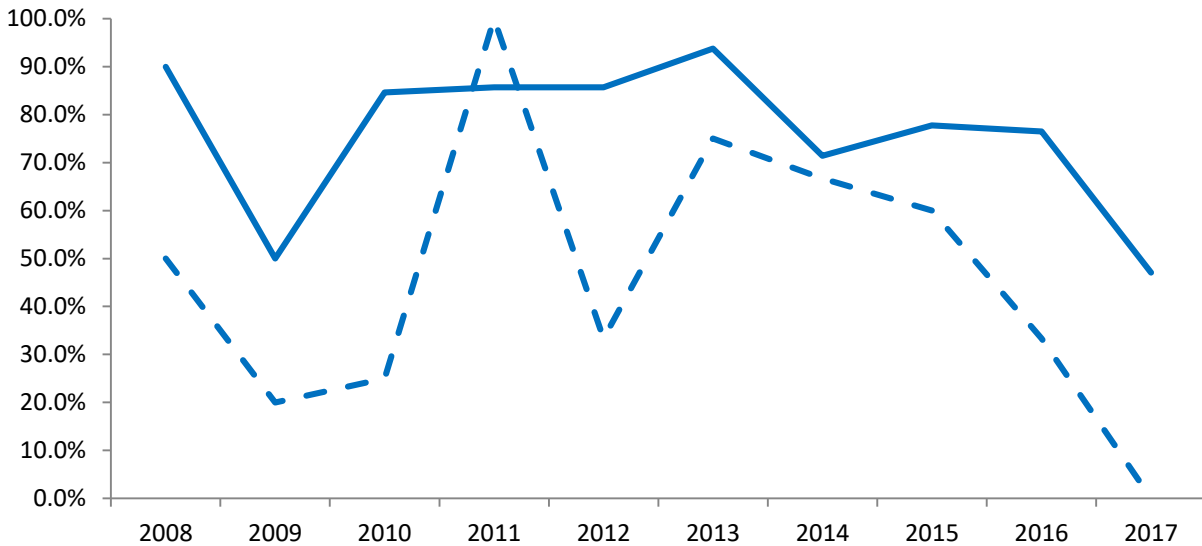
## Anesthesiology – Residency and Fellowship Graduates

**Table 9: Annual Anesthesiology Retention, 2008-2017**

Year	Residency			Fellowship		
	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	10	9	90.0%	2	1	50.0%
2009	10	5	50.0%	5	1	20.0%
2010	13	11	84.6%	4	1	25.0%
2011	14	12	85.7%	2	2	100.0%
2012	14	12	85.7%	3	1	33.3%
2013	16	15	93.8%	4	3	75.0%
2014	14	10	71.4%	3	2	66.7%
2015	9	7	77.8%	5	3	60.0%
2016	17	13	76.5%	3	1	33.3%
2017	13	4	30.8%	4	4	100.0%
<b>Total</b>	<b>130</b>	<b>98</b>	<b>75.4%</b>	<b>35</b>	<b>19</b>	<b>54.3%</b>

\*\* Fellowship programs contain: *Anesthesia Pain Management* and *Pain Medicine*

**Figure 4: Annual Anesthesiology Retention, 2008-2017**



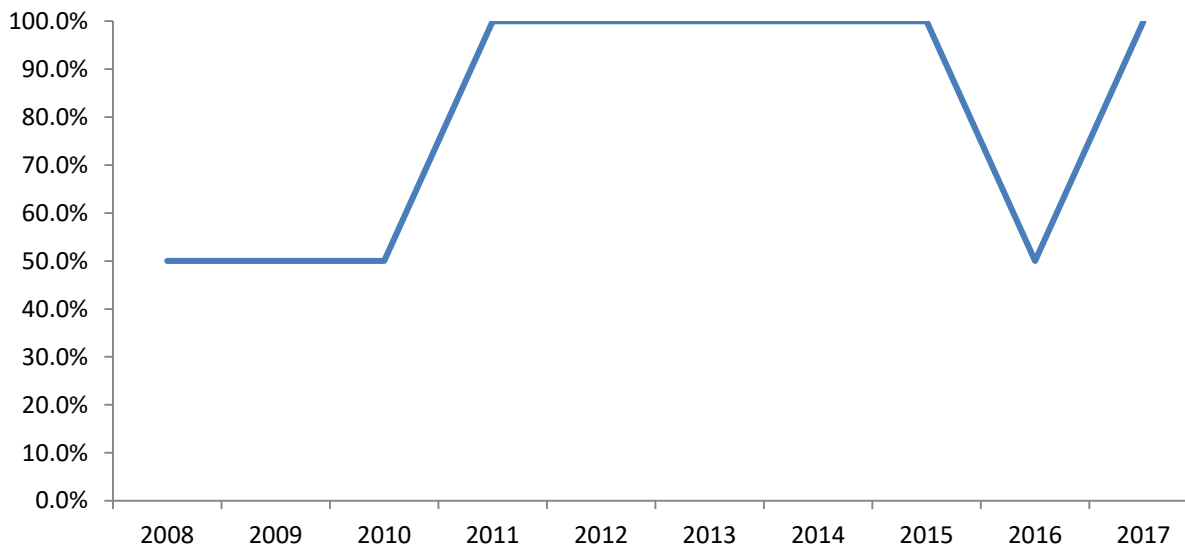
## Child Psychiatry – Residency and Fellowship Graduates

**Table 10: Annual Child Psychiatry Retention, 2008-2017**

Year	Residency			Fellowship		
	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	0	0	-	2	1	50.0%
2009	0	0	-	2	1	50.0%
2010	2	1	50.0%	0	0	-
2011	3	3	100.0%	0	0	-
2012	1	1	100.0%	0	0	-
2013	2	2	100.0%	0	0	-
2014	0	0	-	1	1	100.0%
2015	3	3	100.0%	0	0	-
2016	2	1	50.0%	0	0	-
2017	3	3	100.0%	0	0	-
<b>Total</b>	<b>16</b>	<b>14</b>	<b>87.5%</b>	<b>5</b>	<b>3</b>	<b>60.0%</b>

\*\* Fellowship programs contain: *Child Psychiatry*

**Figure 4: Annual Child Psychiatry Retention, 2008-2017**



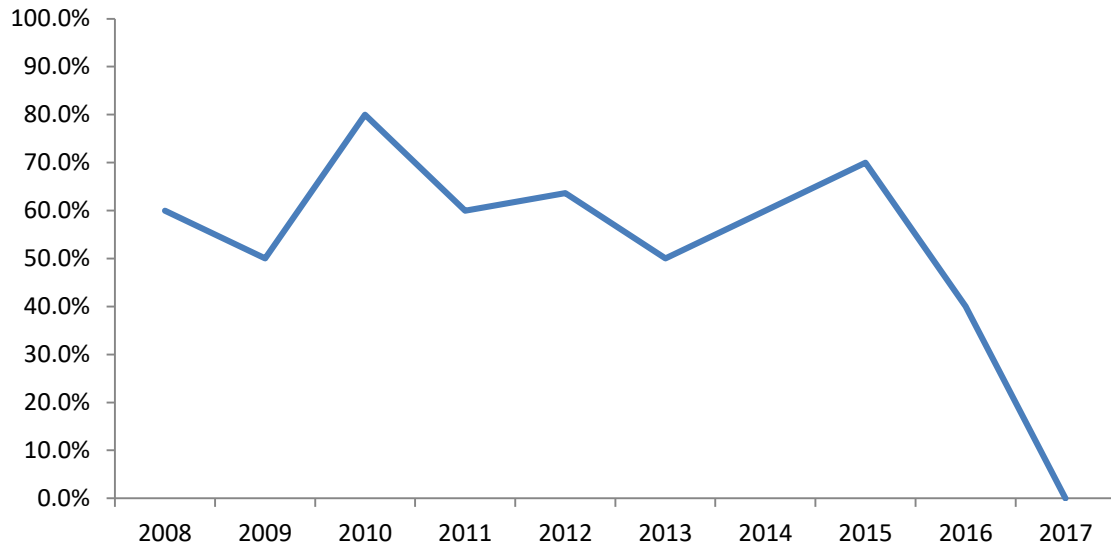
With so few residents and fellows, their numbers have been combined.

## Dental – Residency Graduates Only

**Table 11: Annual Dentistry Retention, 2008-2017**

Year	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	10	6	60.0%
2009	10	5	50.0%
2010	10	8	80.0%
2011	10	6	60.0%
2012	11	7	63.6%
2013	10	5	50.0%
2014	10	6	60.0%
2015	10	7	70.0%
2016	10	4	40.0%
2017	9	0	0.0%
<b>Total</b>	<b>100</b>	<b>54</b>	<b>54.0%</b>

**Figure 5: Annual Dentistry Retention, 2008-2017**



## Dermatology – Residency Graduates Only

**Table 12: Annual Dermatology Retention, 2008-2017**

Year	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	2	2	100.0%
2009	3	2	66.7%
2010	2	2	100.0%
2011	3	0	0.0%
2012	1	1	100.0%
2013	3	3	100.0%
2014	4	2	50.0%
2015	4	3	75.0%
2016	3	3	100.0%
2017	3	0	0.0%
<b>Total</b>	<b>28</b>	<b>18</b>	<b>64.3%</b>

**Figure 6: Annual Dermatology Retention, 2008-2017**



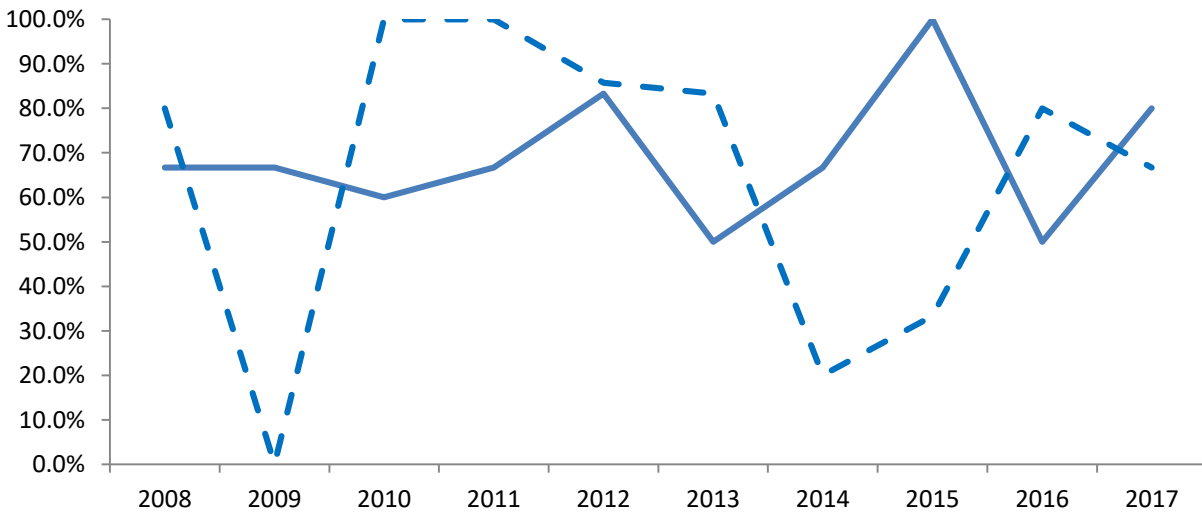
## Diagnostic Radiology – Residency and Fellowship Graduates

**Table 13: Annual Diagnostic Radiology Retention, 2008-2017**

Year	Residency			Fellowship		
	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	6	4	66.7%	5	4	80.0%
2009	6	4	66.7%	2	0	0.0%
2010	5	3	60.0%	5	5	100.0%
2011	6	4	66.7%	4	4	100.0%
2012	6	5	83.3%	7	6	85.7%
2013	6	3	50.0%	6	5	83.3%
2014	6	4	66.7%	5	1	20.0%
2015	5	5	100.0%	6	2	33.3%
2016	6	3	50.0%	5	4	80.0%
2017	5	4	80.0%	6	4	66.7%
<b>Total</b>	<b>57</b>	<b>39</b>	<b>68.4%</b>	<b>51</b>	<b>35</b>	<b>68.6%</b>

\*\* Fellowship programs contain: *Neurointerventional Surgery, Vascular/Interventional Radiology, Neuroradiology, and Nuclear Radiology.*

**Figure 7: Annual Diagnostic Radiology Retention, 2008-2017**

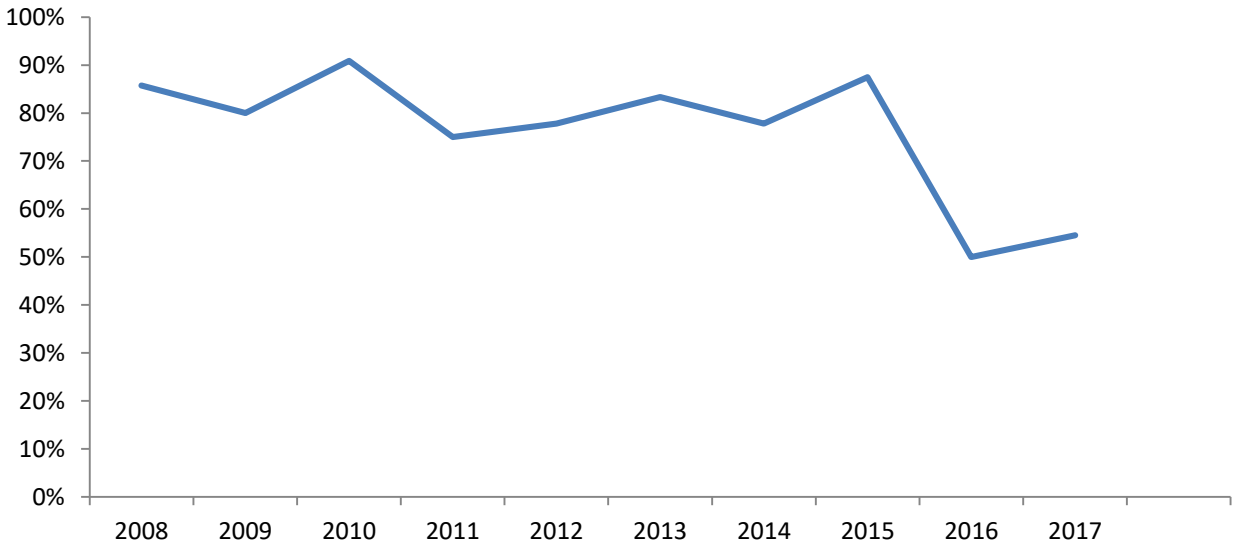


## Emergency Medicine – Residency and Fellowship

**Table 14: Annual Emergency Medicine Retention, 2008-2017**

Year	Residency			Fellowship		
	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	7	6	85.7%	0	0	-
2009	5	4	80.0%	0	0	-
2010	11	10	90.9%	0	0	-
2011	8	6	75.0%	0	0	-
2012	9	7	77.8%	0	0	-
2013	9	7	77.8%	3	3	100.0%
2014	8	7	87.5%	1	0	0.0%
2015	7	6	85.7%	1	1	100.0%
2016	9	5	55.6%	1	0	0.0%
2017	10	6	60.0%	1	0	0.0%
<b>Total</b>	<b>83</b>	<b>64</b>	<b>77.1%</b>	<b>7</b>	<b>4</b>	<b>57.1%</b>

**Figure 8: Annual Emergency Medicine Retention, 2008-2017**



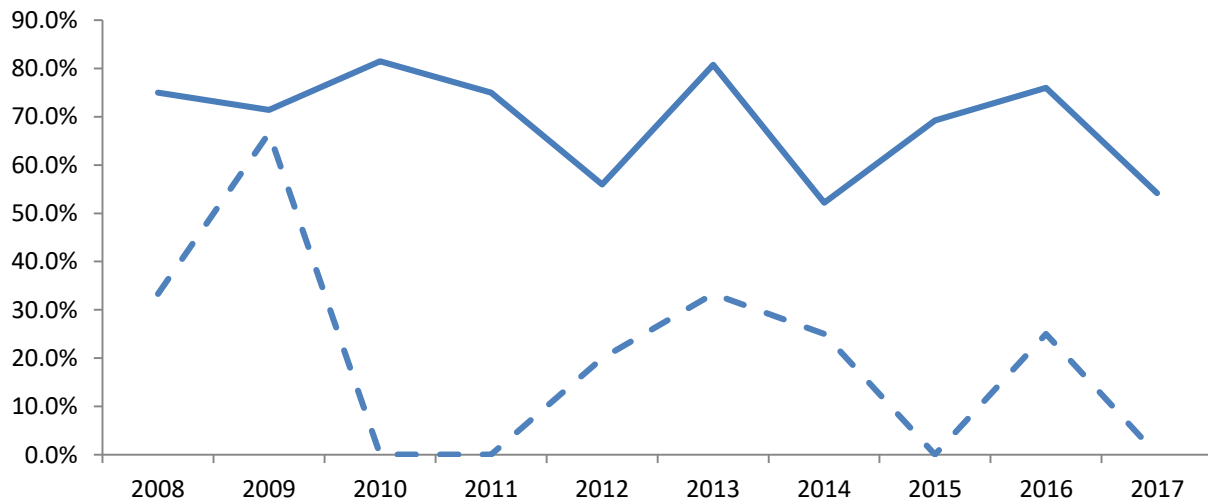
**Family Medicine – Residency and Fellowship for ALL Programs**

**Table 15: Annual Family Medicine Retention, 2008-2017**

Year	Residency			Fellowship		
	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	24	18	75.0%	3	1	33.3%
2009	21	15	71.4%	3	2	66.7%
2010	27	22	81.5%	2	0	0.0%
2011	24	18	75.0%	2	0	0.0%
2012	25	14	56.0%	5	1	20.0%
2013	26	21	80.8%	3	1	33.3%
2014	23	12	52.2%	4	1	25.0%
2015	26	18	69.2%	4	0	0.0%
2016	25	19	76.0%	4	1	25.0%
2017	24	13	54.2%	2	0	0.0%
<b>Total</b>	<b>245</b>	<b>170</b>	<b>69.4%</b>	<b>32</b>	<b>7</b>	<b>21.9%</b>

\*\* Fellowship programs contain: *Family Medicine (OBGYN)* and *Sports Medicine*

**Figure 9: Annual Family Medicine Retention, 2008-2017**



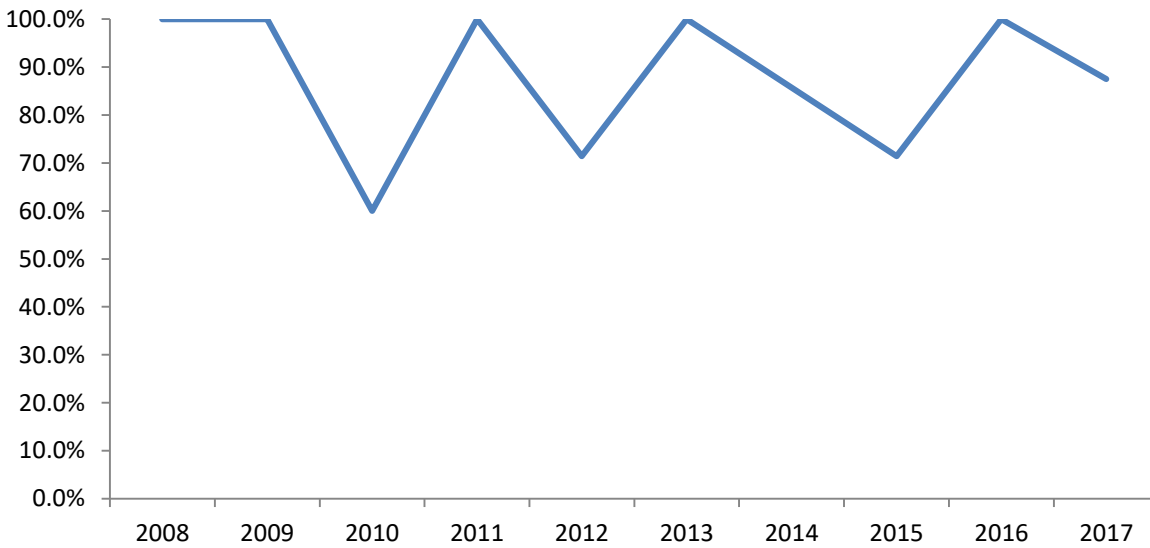


**Family Medicine Cont. – Residents and Fellows by Program**

**Table 16: Utah Valley: Annual Family Medicine Retention, 2008-2017**

Year	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	5	5	100.0%
2009	7	7	100.0%
2010	5	3	60.0%
2011	6	6	100.0%
2012	7	5	71.4%
2013	7	7	100.0%
2014	7	6	85.7%
2015	7	5	71.4%
2016	6	6	100.0%
2017	8	7	87.5%
<b>Total</b>	<b>65</b>	<b>57</b>	<b>87.7%</b>

**Figure 10: Utah Valley: Annual Family Medicine Retention, 2008-2017**

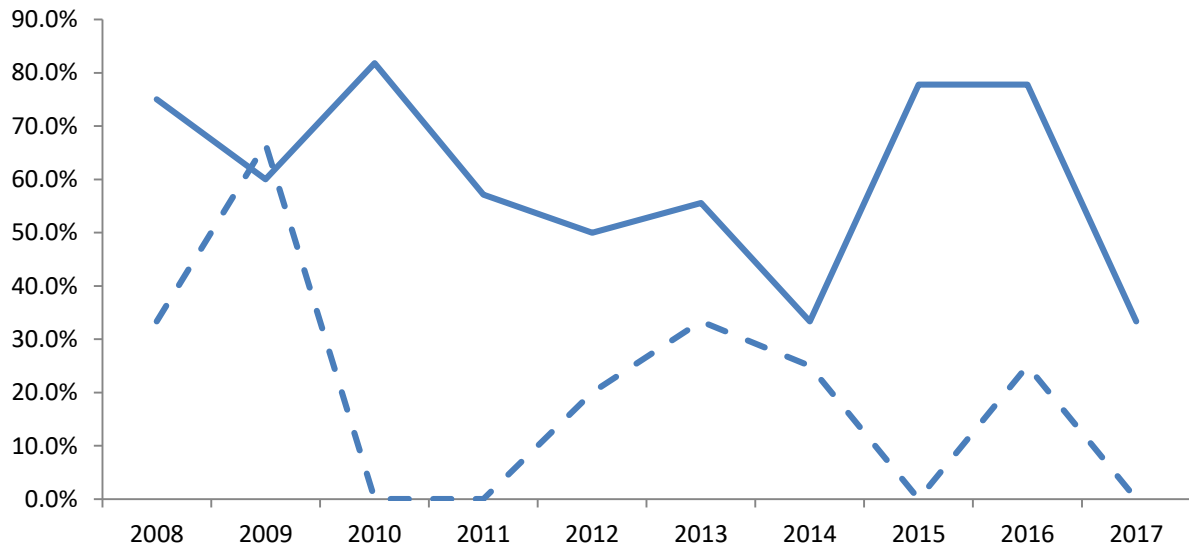


**Family Medicine Cont. – Residents and Fellows by Program**

**Table 17: University of Utah: Annual Family Medicine Retention, 2008-2017**

Year	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	8	6	75.0%	3	1	33.3%
2009	5	3	60.0%	3	2	66.7%
2010	11	9	81.8%	2	0	0.0%
2011	7	4	57.1%	2	0	0.0%
2012	8	4	50.0%	5	1	20.0%
2013	9	5	55.6%	3	1	33.3%
2014	6	2	33.3%	4	1	25.0%
2015	9	7	77.8%	4	0	0.0%
2016	9	7	77.8%	4	1	25.0%
2017	6	2	33.3%	2	0	0.0%
<b>Total</b>	<b>78</b>	<b>49</b>	<b>62.8%</b>	<b>32</b>	<b>7</b>	<b>21.9%</b>

**Figure 11: University of Utah: Annual Family Medicine Retention, 2008-2017**

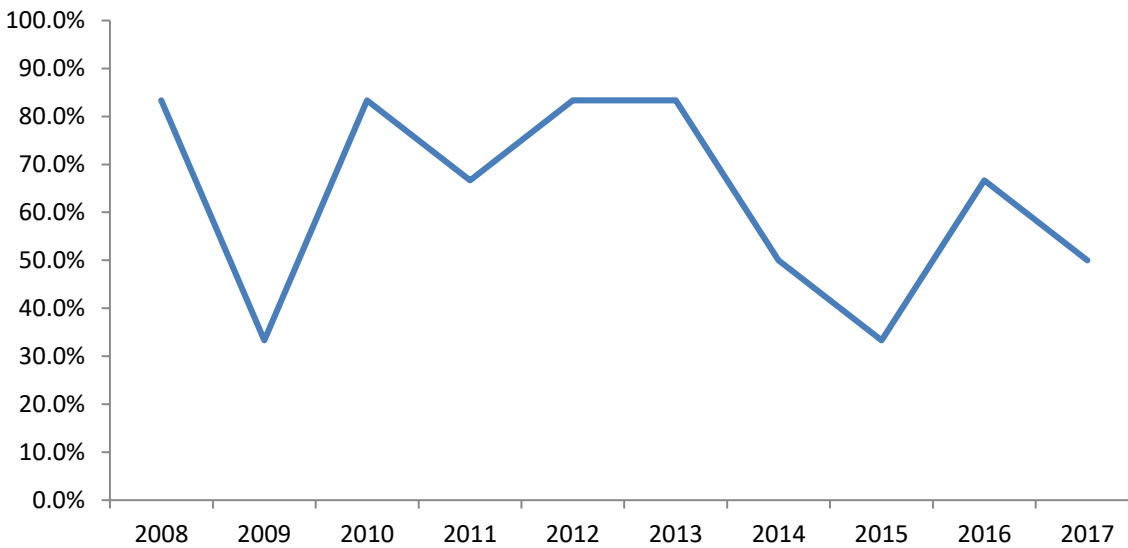


**Family Medicine Cont. – Residents and Fellows by Program**

**Table 18: St. Mark's: Annual Family Medicine Retention, 2008-2017**

Year	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	5	2	40.0%
2009	3	3	100.0%
2010	5	5	100.0%
2011	5	4	80.0%
2012	4	0	0.0%
2013	4	4	100.0%
2014	4	1	25.0%
2015	4	4	100.0%
2016	4	2	50.0%
2017	4	1	25.0%
<b>Total</b>	<b>42</b>	<b>26</b>	<b>61.9%</b>

**Figure 12: St. Mark's: Annual Family Medicine Retention, 2008-2017**

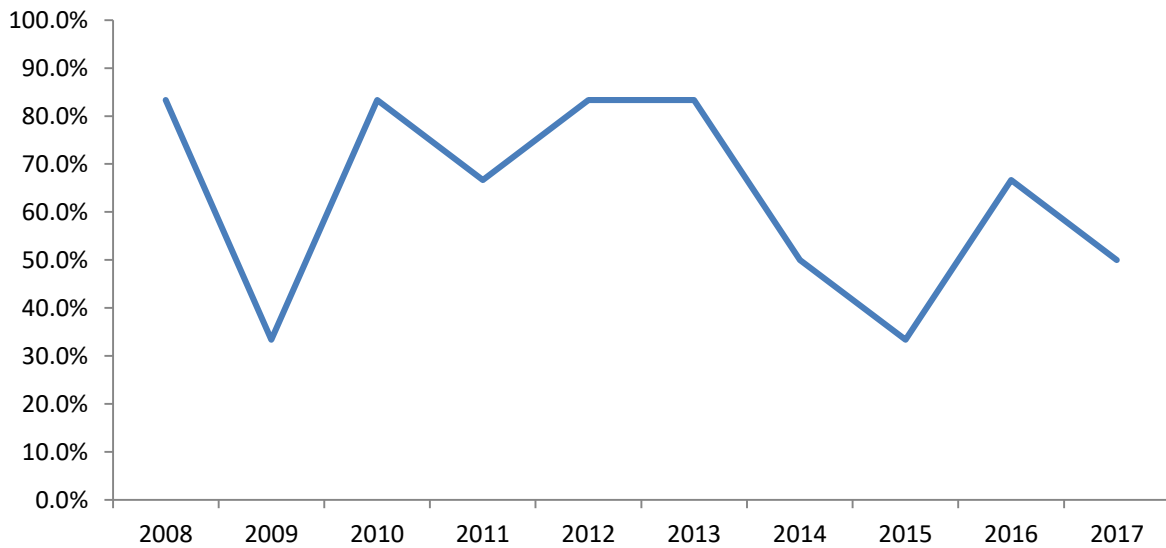


**Family Medicine Cont. – Residents and Fellows by Program**

**Table 19: McKay Dee: Annual Family Medicine Retention, 2008-2017**

Year	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	6	5	83.3%
2009	6	2	33.3%
2010	6	5	83.3%
2011	6	4	66.7%
2012	6	5	83.3%
2013	6	5	83.3%
2014	6	3	50.0%
2015	6	2	33.3%
2016	6	4	66.7%
2017	6	3	50.0%
<b>Total</b>	<b>60</b>	<b>38</b>	<b>63.3%</b>

**Figure 13: McKay Dee: Annual Family Medicine Retention, 2008-2017**



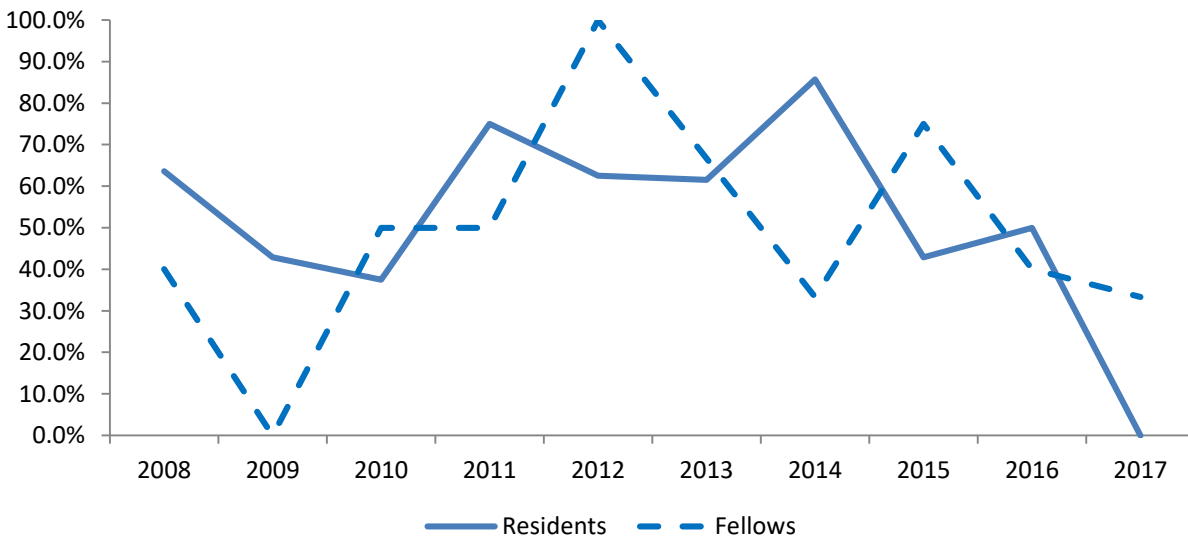
## General Surgery – Residency and Fellowship Graduates

**Table 20: Annual General Surgery Retention, 2008-2017**

Year	Residency			Fellowship		
	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	11	7	63.6%	5	2	40.0%
2009	7	3	42.9%	1	0	0.0%
2010	8	3	37.5%	2	1	50.0%
2011	8	6	75.0%	6	3	50.0%
2012	8	5	62.5%	3	3	100.0%
2013	13	8	61.5%	3	2	66.7%
2014	7	6	85.7%	3	1	33.3%
2015	7	3	42.9%	4	3	75.0%
2016	6	3	50.0%	5	2	40.0%
2017	6	0	0.0%	6	2	33.3%
<b>Total</b>	<b>81</b>	<b>44</b>	<b>54.3%</b>	<b>38</b>	<b>19</b>	<b>50.0%</b>

\*\* Fellowship programs contain: *Vascular Surgery, Surgical Critical Care, Pediatric Surgery, Cardiothoracic Surgery, and Colorectal Surgery (St. Mark's)*

**Figure 14: Annual General Surgery Retention, 2008-2017**



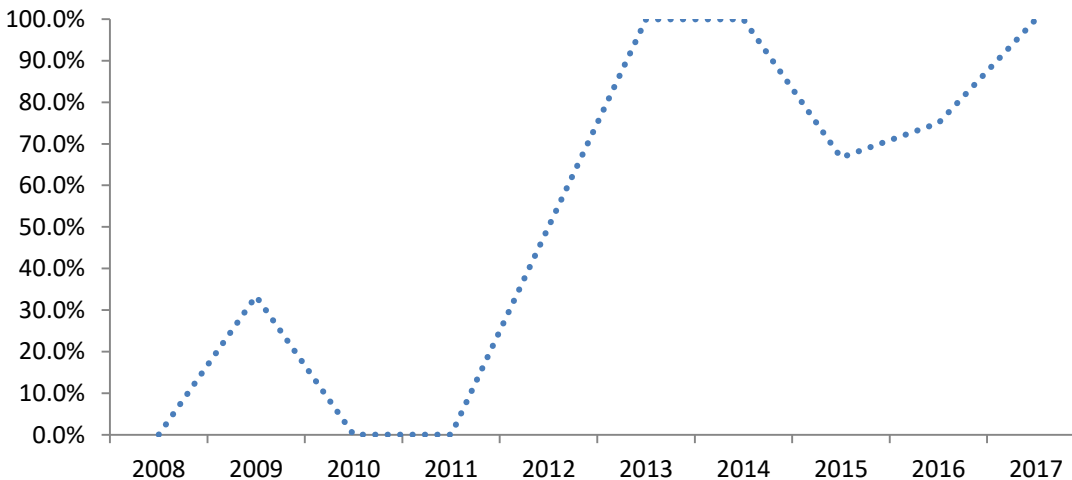
## General Surgery PRELIM- Residency Graduates Only

**Table 21: Annual General PRELIM Surgery Retention, 2008-2017**

Year	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	0	0	-
2009	3	1	33.3%
2010	1	0	0.0%
2011	1	0	0.0%
2012	4	2	50.0%
2013	2	2	100.0%
2014	3	3	100.0%
2015	3	2	66.7%
2016	4	3	75.0%
2017	3	3	100.0%
<b>Total</b>	<b>24</b>	<b>16</b>	<b>66.7%</b>

\*\* Residency programs contain: *Otolaryngology, Anesthesiology, General Surgery, Urology, Orthopedic Surgery, Diagnostic Radiology, and Plastic Surgery.*

**Figure 15: Annual General PRELIM Surgery Retention, 2008-2017**



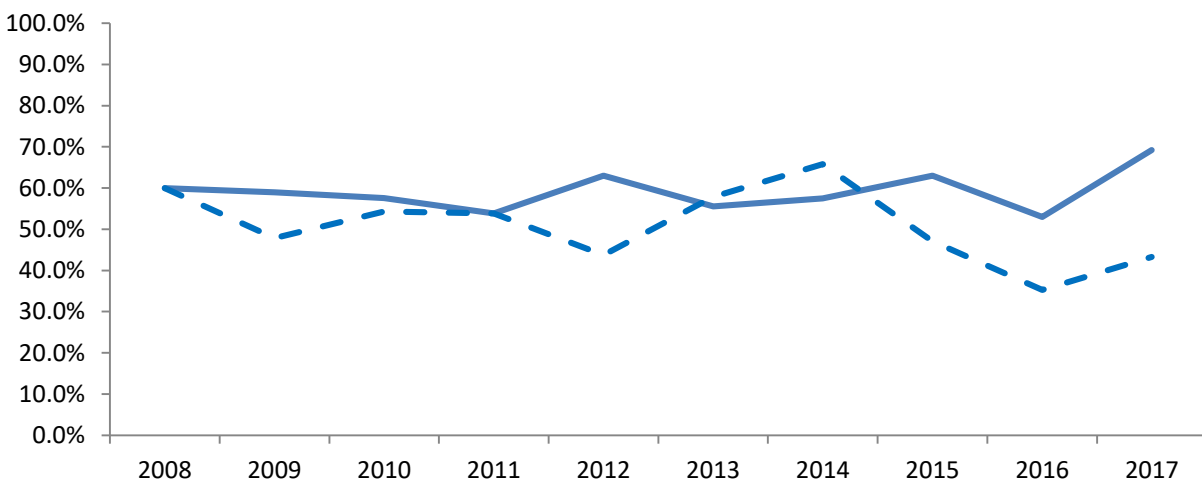
## Internal Medicine – Residency and Fellowship Graduates

**Table 22: Annual Internal Medicine Retention, 2008-2017**

Year	Residency			Fellowship		
	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	30	18	60.0%	25	15	60.0%
2009	39	23	59.0%	23	11	47.8%
2010	33	19	57.6%	35	19	54.3%
2011	26	14	53.8%	39	21	53.8%
2012	27	17	63.0%	32	14	43.8%
2013	36	20	55.6%	38	22	57.9%
2014	40	23	57.5%	38	25	65.8%
2015	27	17	63.0%	34	16	47.1%
2016	34	18	52.9%	34	12	35.3%
2017	39	27	69.2%	37	16	43.2%
<b>Total</b>	<b>331</b>	<b>196</b>	<b>59.2%</b>	<b>335</b>	<b>171</b>	<b>51.0%</b>

\*\* Fellowship programs contain: *Infectious Disease, Hematology and Oncology, Gastroenterology, Cardiology, Interventional Cardiology, Cardiology Transplant, Pulmonary Disease and Critical Care Medicine, Cardiology/Sleep Medicine, Rheumatology, Nephrology, Endocrinology, Diabetes and Metabolism, Geriatric Medicine, Sleep Medicine, Clinical Cardiac Electrophysiology, Bone Marrow Transplant, Advanced Cardiac Imaging, and Wilderness Medicine.*

**Figure 16: Annual Internal Medicine Retention, 2008-2017**



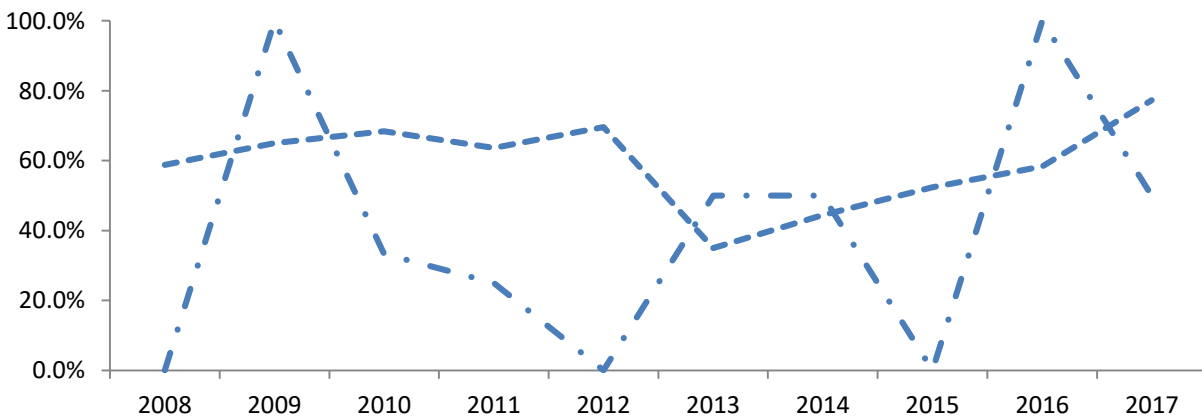
## Internal Medicine PRELIM and PEDIATRICS– Residency Graduates Only

**Table 23: Annual Internal Medicine PRELIM and PEDIATRICS Retention, 2008-2017**

Year	PRELIM			PEDIATRICS		
	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	17	10	58.8%	30	18	60.0%
2009	20	13	65.0%	39	23	59.0%
2010	19	13	68.4%	33	19	57.6%
2011	22	14	63.6%	26	14	53.8%
2012	23	16	69.6%	27	17	63.0%
2013	20	7	35.0%	36	20	55.6%
2014	18	8	44.4%	40	23	57.5%
2015	21	11	52.4%	27	17	63.0%
2016	24	14	58.3%	34	18	52.9%
2017	22	17	77.3%	39	27	69.2%
<b>Total</b>	<b>206</b>	<b>123</b>	<b>59.7%</b>	<b>331</b>	<b>196</b>	<b>59.2%</b>

\*\* Residency programs contain: Radiology, Pain Medicine, Dermatology, Anesthesiology, Ophthalmology, Neurology, Physical Med and Rehab, Diagnostic Radiology, Radiation Oncology, OBGYN, Occupational Medicine, Aerospace Medicine, General Practitioner, Internal Medicine, and Pediatrics.

**Table 17: Annual Internal Medicine PRELIM and PEDIATRICS Retention, 2008-2017**





## Medical Genetics – Fellowship Graduates Only

**Table 24: Annual Medical Genetics Retention, 2008-2017**

Year	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	0	0	-
2009	0	0	-
2010	0	0	-
2011	1	0	0.0%
2012	2	0	0.0%
2013	0	0	-
2014	0	0	-
2015	1	1	100.0%
2016	0	0	-
2017	0	0	-
<b>Total</b>	<b>4</b>	<b>1</b>	<b>25.0%</b>

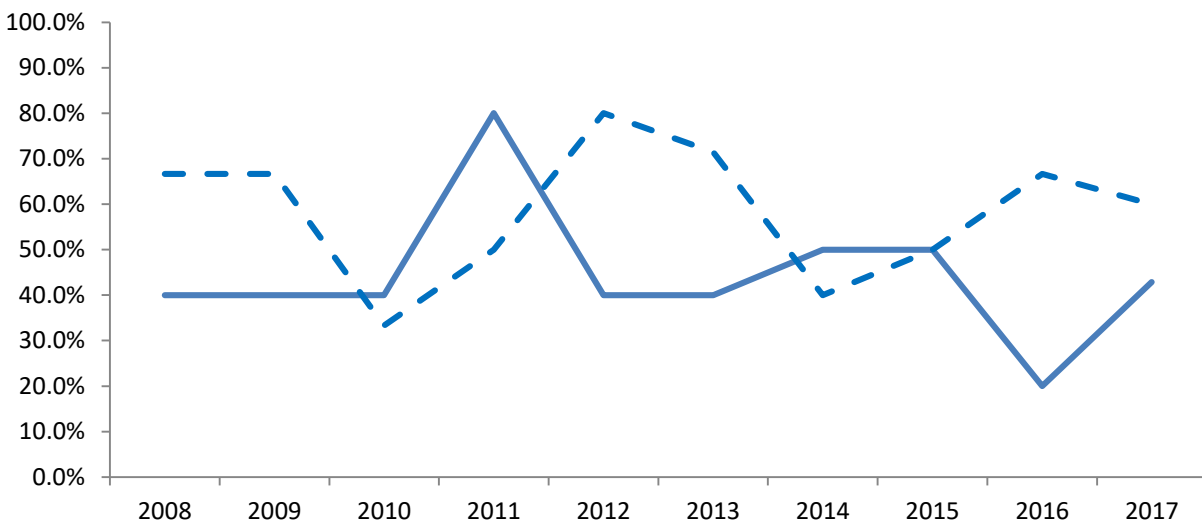
## Neurology – Residency and Fellowship Graduates

**Table 25: Annual Neurology Retention, 2008-2017**

Year	Residency			Fellowship		
	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	5	2	40.0%	3	2	66.7%
2009	5	2	40.0%	3	2	66.7%
2010	5	2	40.0%	3	1	33.3%
2011	5	4	80.0%	2	1	50.0%
2012	5	2	40.0%	5	4	80.0%
2013	5	2	40.0%	7	5	71.4%
2014	6	3	50.0%	5	2	40.0%
2015	6	3	50.0%	4	2	50.0%
2016	5	1	20.0%	3	2	66.7%
2017	7	3	42.9%	5	3	60.0%
<b>Total</b>	<b>54</b>	<b>24</b>	<b>44.4%</b>	<b>40</b>	<b>24</b>	<b>60.0%</b>

\*\* Fellowship programs contain: *Clinical Neurophysiology, Child Neurology, Neurogenetics, Neuro Critical Care, and Vascular Neurology.*

**Figure 18: Annual Neurology Retention, 2008-2017**



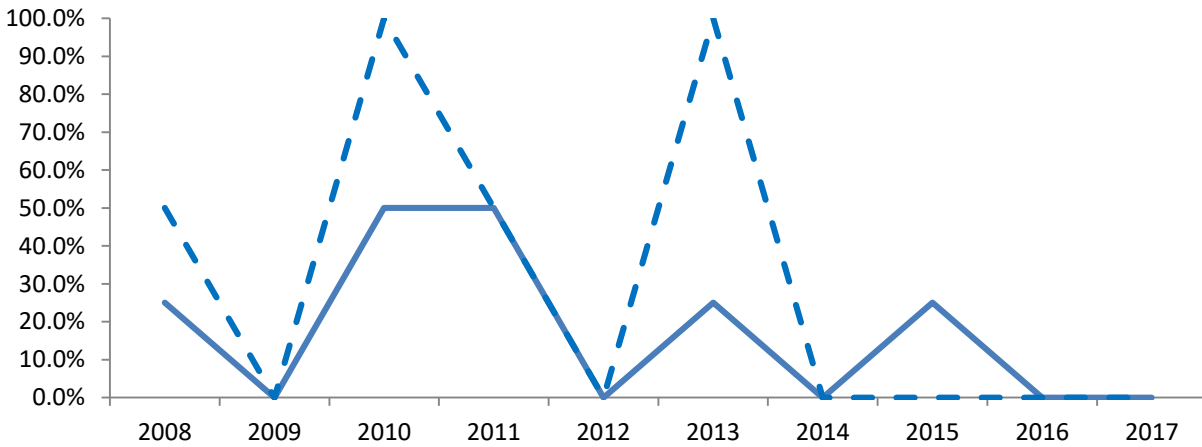
## Neurosurgery – Residency and Fellowship Graduates

**Table 26: Annual Neurosurgery Retention, 2008-2017**

Year	Residency			Fellowship		
	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	4	1	25.0%	2	1	50.0%
2009	3	0	0.0%	1	0	0.0%
2010	4	2	50.0%	1	1	100.0%
2011	2	1	50.0%	2	1	50.0%
2012	2	0	0.0%	2	0	0.0%
2013	4	1	25.0%	1	1	100.0%
2014	0	0	-	1	0	0.0%
2015	4	1	25.0%	1	0	0.0%
2016	2	0	0.0%	2	0	0.0%
2017	2	0	0.0%	2	0	0.0%
<b>Total</b>	<b>27</b>	<b>6</b>	<b>22.2%</b>	<b>15</b>	<b>4</b>	<b>26.7%</b>

\*\* Fellowship programs contain: *Spine, Skull Base, and Endovasc NeuroRadio*.

**Figure 19: Annual Neurosurgery Retention, 2008-2017**



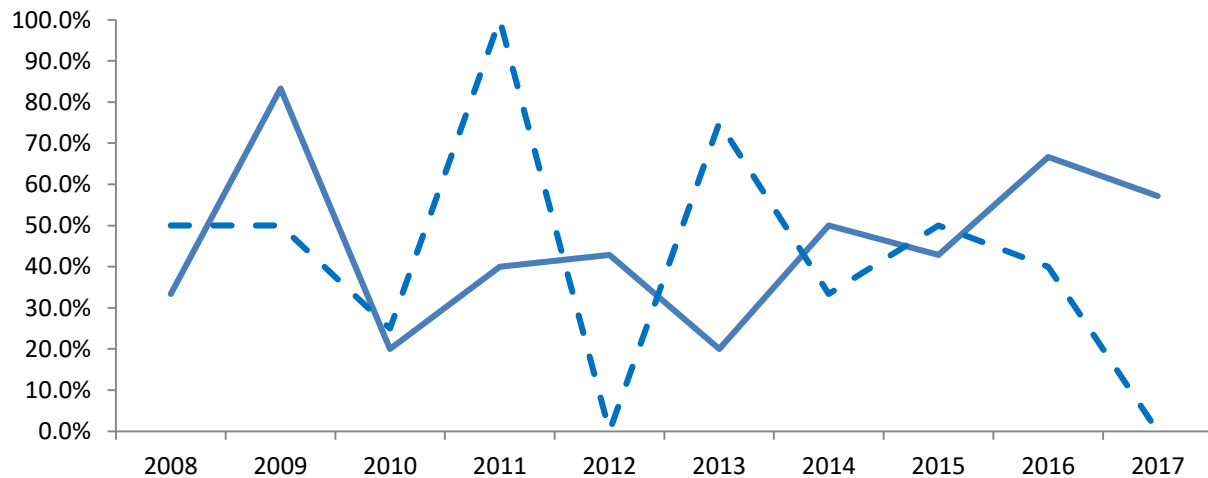
## Obstetrics & Gynecology – Residency and Fellowship Graduates

**Table 27: Annual Obstetrics & Gynecology Retention, 2008-2017**

Year	Residency			Fellowship		
	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	6	2	33.3%	2	1	50.0%
2009	6	5	83.3%	2	1	50.0%
2010	5	1	20.0%	4	1	25.0%
2011	5	2	40.0%	2	2	100.0%
2012	7	3	42.9%	3	0	0.0%
2013	5	1	20.0%	4	3	75.0%
2014	6	3	50.0%	3	1	33.3%
2015	7	3	42.9%	2	1	50.0%
2016	6	4	66.7%	5	2	40.0%
2017	7	4	57.1%	3	0	0.0%
<b>Total</b>	<b>60</b>	<b>28</b>	<b>46.7%</b>	<b>30</b>	<b>12</b>	<b>40.0%</b>

\*\* Fellowship programs contain: *Reproductive Endocrinology and Infertility, Maternal Perinatal Medicine, and OB Family Planning.*

**Figure 20: Annual Obstetrics & Gynecology Retention, 2008-2017**



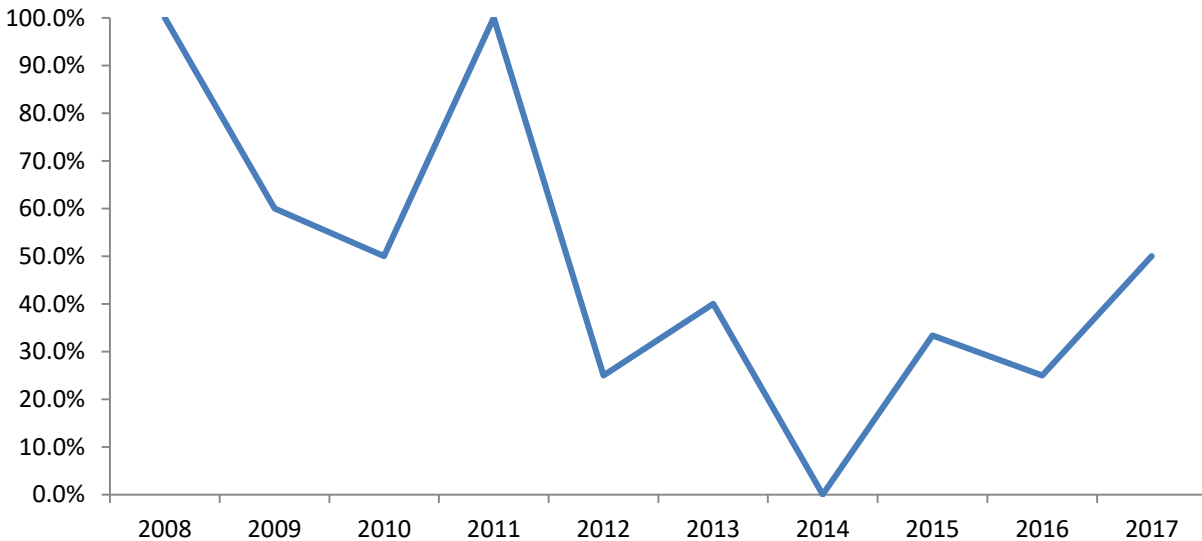
## Occupational Medicine – Residency Graduates Only

**Table 28: Annual Occupational Medicine Retention, 2008-2017**

Year	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	2	2	100.0%
2009	5	3	60.0%
2010	2	1	50.0%
2011	2	2	100.0%
2012	4	1	25.0%
2013	5	2	40.0%
2014	2	0	0.0%
2015	3	1	33.3%
2016	4	1	25.0%
2017	6	3	50.0%
<b>Total</b>	<b>35</b>	<b>16</b>	<b>45.7%</b>

\*\* Residency programs contain: *Family Practice/Occupational Medicine, Physical Medicine & Rehab, Aerospace Medicine, Clinical Genetics, Internal Medicine, Occupational Medicine, Public Health, Otolaryngology, Preventative Medicine/Occupational Environmental Medicine, and Family Medicine.*

**Figure 21: Annual Occupational Medicine Retention, 2008-2017**

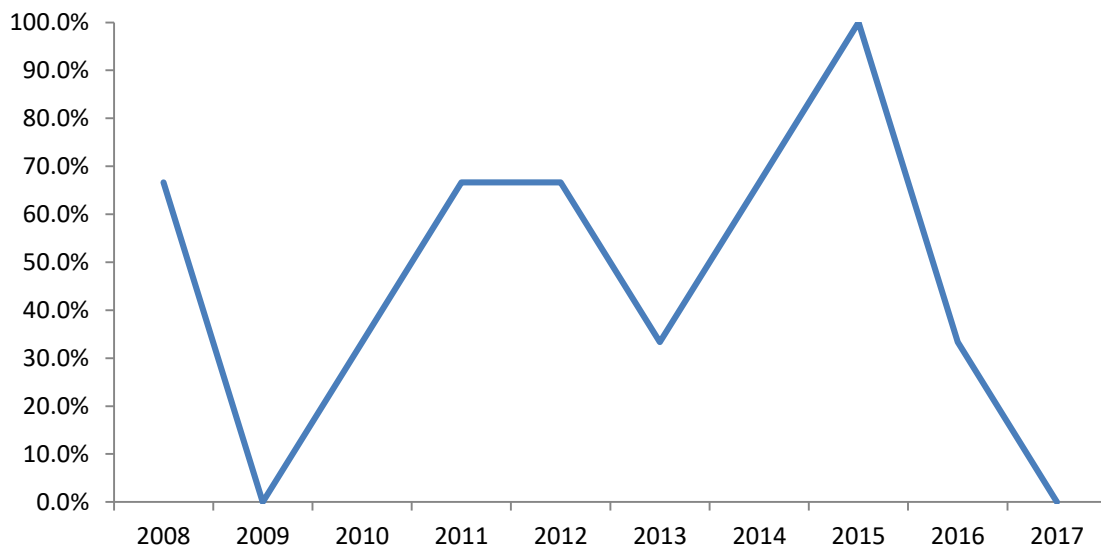


## Ophthalmology – Residency Graduates Only

**Table 29: Annual Ophthalmology Retention, 2008-2017**

Year	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	3	2	66.7%
2009	3	0	0.0%
2010	3	1	33.3%
2011	3	2	66.7%
2012	3	2	66.7%
2013	3	1	33.3%
2014	3	2	66.7%
2015	3	3	100.0%
2016	3	1	33.3%
2017	3	0	0.0%
<b>Total</b>	<b>30</b>	<b>14</b>	<b>46.7%</b>

**Figure 22: Annual Ophthalmology Retention, 2008-2017**



## Orthopedics – Residency and Fellowship Graduates

**Table 30: Annual Orthopedics Retention, 2008-2017**

Year	Residency			Fellowship		
	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	5	1	20.0%	8	3	37.5%
2009	6	4	66.7%	6	2	33.3%
2010	6	2	33.3%	13	0	0.0%
2011	4	2	50.0%	13	5	38.5%
2012	6	5	83.3%	13	4	30.8%
2013	4	0	0.0%	26	5	19.2%
2014	4	1	25.0%	13	2	15.4%
2015	6	4	66.7%	13	1	7.7%
2016	5	1	20.0%	13	0	0.0%
2017	5	0	0.0%	13	0	0.0%
<b>Total</b>	<b>51</b>	<b>20</b>	<b>39.2%</b>	<b>131</b>	<b>22</b>	<b>16.8%</b>

\*\* Fellowship programs contain: *Orthopedic Joint Surgery, Orthopedic Sarcoma, Pediatric Orthopedics, Orthopedic Spine Surgery, Orthopedic Sports Medicine, Orthopedic Spine Surgery/ Neurosurgery, Orthopedic Surgery- Hand, and Sarcoma Surgery.*

**Figure 23: Annual Orthopedics Retention, 2008-2017**

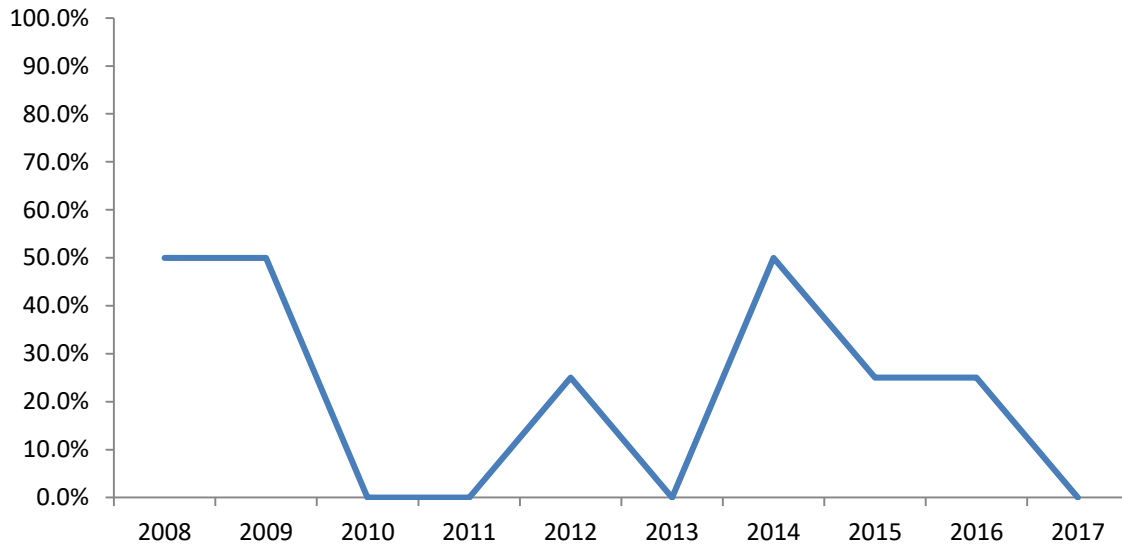


## Otolaryngology – Residency and Fellowship Graduates

**Table 31: Annual Otolaryngology Retention, 2008-2017**  
**Residency** **Fellowship**

Year	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	2	1	50.0%	0	0	-
2009	2	0	0.0%	0	0	-
2010	1	0	0.0%	0	0	-
2011	4	1	25.0%	0	0	-
2012	3	0	0.0%	0	0	-
2013	4	2	50.0%	0	0	-
2014	3	0	0.0%	1	1	100.0%
2015	3	1	33.3%	1	0	0.0%
2016	3	0	0.0%	0	0	-
2017	4	0	0.0%	0	0	-
<b>Total</b>	<b>29</b>	<b>5</b>	<b>17.2%</b>	<b>2</b>	<b>1</b>	<b>50.0%</b>

**Figure 24: Annual Otolaryngology Retention, 2008-2017**





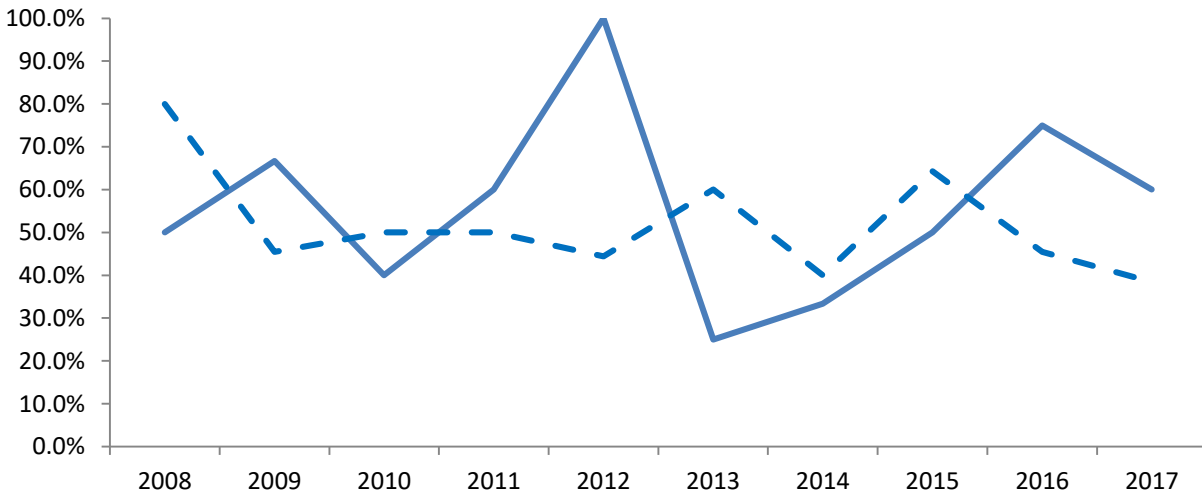
## Pathology – Residency and Fellowship Graduates

**Table 32: Annual Pathology Retention, 2008-2017**

Year	Residency			Fellowship		
	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	4	2	50.0%	5	4	80.0%
2009	6	4	66.7%	11	5	45.5%
2010	5	2	40.0%	8	4	50.0%
2011	5	3	60.0%	4	2	50.0%
2012	6	6	100.0%	9	4	44.4%
2013	4	1	25.0%	10	6	60.0%
2014	6	2	33.3%	10	4	40.0%
2015	8	4	50.0%	14	9	64.3%
2016	4	3	75.0%	11	5	45.5%
2017	5	3	60.0%	13	5	38.5%
<b>Total</b>	<b>53</b>	<b>30</b>	<b>56.6%</b>	<b>95</b>	<b>48</b>	<b>50.5%</b>

\*\* Fellowship programs contain: *Molecular Genetic Pathology, Pediatric Pathology, Surgical Pathology, Cytopathology, Hematopathology, Medical Microbiology, Hematology/Oncology, and Gastrointestinal Pathology.*

**Figure 25: Annual Pathology Retention, 2008-2017**



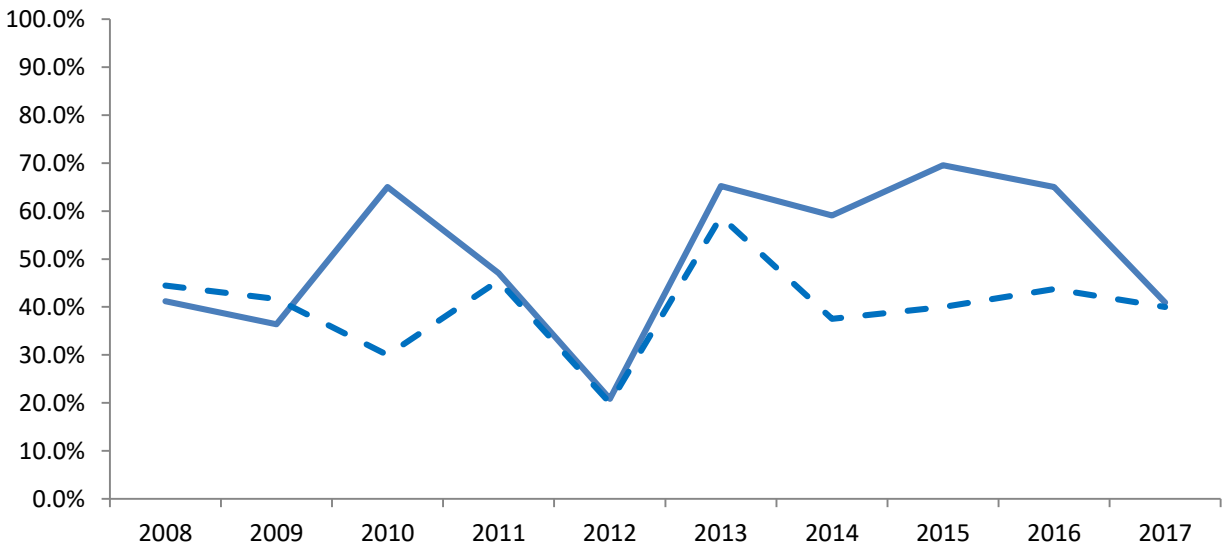
## Pediatrics – Residency and Fellowship Graduates

**Table 33: Annual Pediatrics Retention, 2008-2017**

Year	Residency			Fellowship		
	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	17	7	41.2%	9	4	44.4%
2009	22	8	36.4%	12	5	41.7%
2010	20	13	65.0%	10	3	30.0%
2011	17	8	47.1%	11	5	45.5%
2012	24	5	20.8%	10	2	20.0%
2013	23	15	65.2%	17	10	58.8%
2014	22	13	59.1%	16	6	37.5%
2015	23	16	69.6%	15	6	40.0%
2016	20	13	65.0%	16	7	43.8%
2017	22	9	40.9%	10	4	40.0%
<b>Total</b>	<b>210</b>	<b>107</b>	<b>51.0%</b>	<b>126</b>	<b>52</b>	<b>41.3%</b>

\*\* Fellowship programs contain: *Internal Medicine, Pediatric Critical Care, Pediatric Emergency Medicine, Pediatrics Neonatal-Perinatal, Pediatric Pulmonology, Pediatric Cardiology, Pediatric Neonatology, Pediatric Infectious Disease, Pediatric Gastroenterology, Pediatric Hematology/Oncology, and Pediatric Neurosurgery.*

**Figure 26: Annual Pediatrics Retention, 2008-2017**

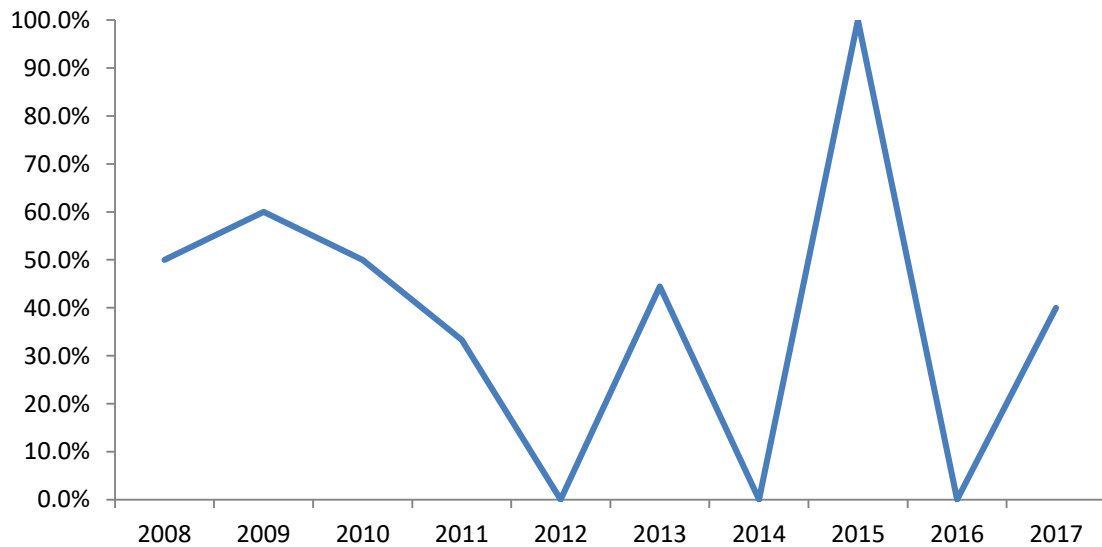


## Physical Rehabilitation – Residency and Fellowship Graduates

**Table 34: Annual Physical Rehabilitation Retention, 2008-2017**  
**Residency** **Fellowship**

Year	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	4	2	50.0%	0	0	-
2009	5	3	60.0%	0	0	-
2010	2	1	50.0%	0	0	-
2011	6	2	33.3%	0	0	-
2012	2	0	0.0%	1	0	0.0%
2013	9	4	44.4%	2	1	50.0%
2014	5	0	0.0%	1	0	0.0%
2015	4	4	100.0%	1	1	100.0%
2016	5	0	0.0%	1	0	0.0%
2017	5	2	40.0%	4	0	0.0%
<b>Total</b>	<b>47</b>	<b>18</b>	<b>38.3%</b>	<b>10</b>	<b>2</b>	<b>20.0%</b>

**Figure 27: Annual Physical Rehabilitation Retention, 2008-2017**



With so few fellows, their numbers have been combined with the residents.

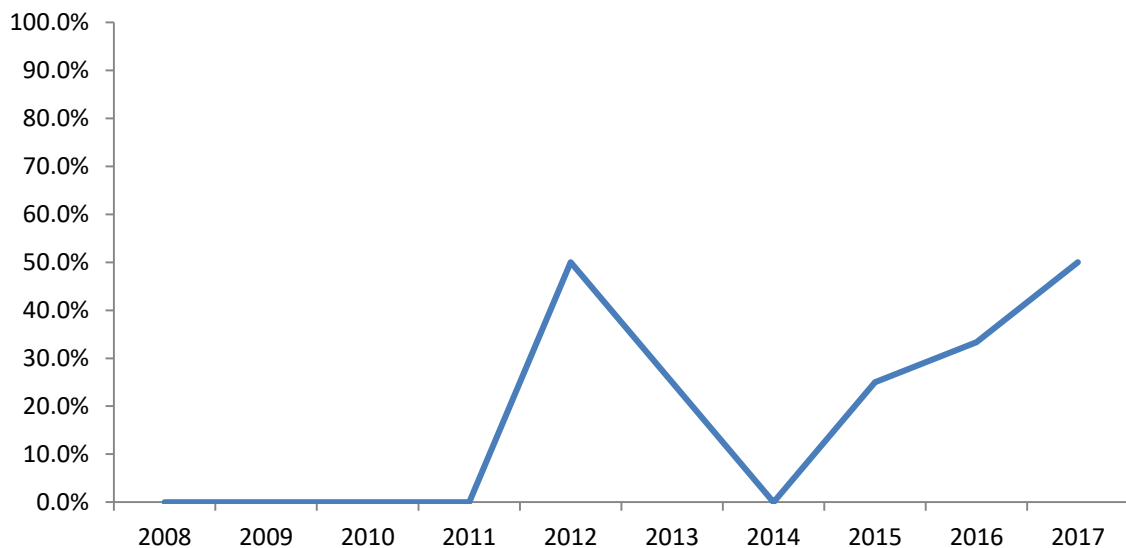
## Plastic Surgery – Residency and Fellowship Graduates

**Table 35: Annual Plastic Surgery Retention, 2008-2017**  
**Residency** **Fellowship**

Year	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	1	0	0.0%	1	0	0.0%
2009	2	0	0.0%	0	0	-
2010	2	0	0.0%	1	0	0.0%
2011	2	0	0.0%	1	0	0.0%
2012	2	1	50.0%	0	0	-
2013	1	0	0.0%	3	1	33.3%
2014	1	0	0.0%	0	0	-
2015	2	1	50.0%	2	0	0.0%
2016	2	1	50.0%	1	0	0.0%
2017	2	1	50.0%	2	1	50.0%
<b>Total</b>	<b>17</b>	<b>4</b>	<b>23.5%</b>	<b>11</b>	<b>2</b>	<b>18.2%</b>

\*\* Fellowship programs contain: *Craniofacial and Plastic/Reconstructive Breast Surgery*

**Figure 28: Annual Plastic Surgery Retention, 2008-2017**



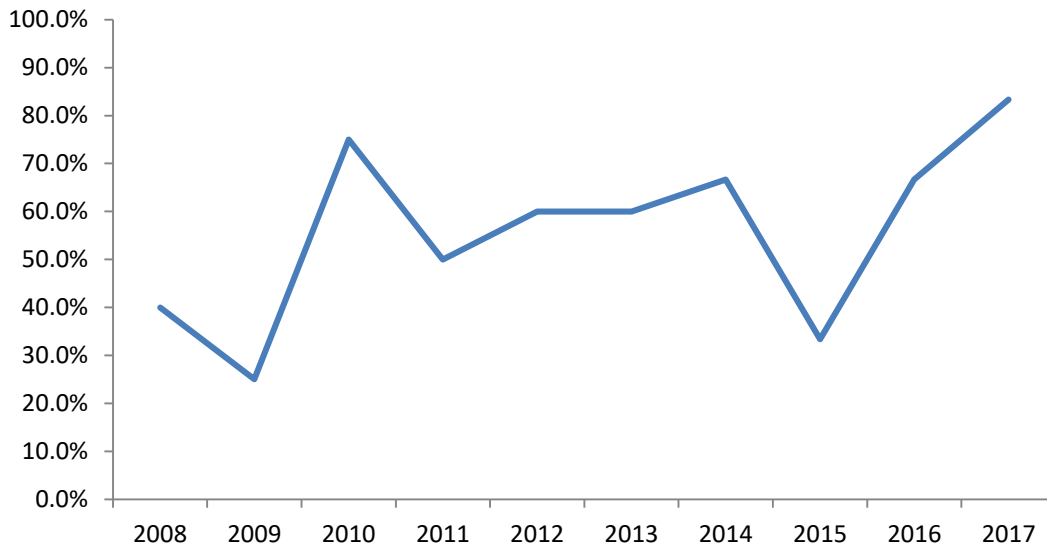
With so few residents and fellows, their numbers have been combined with the residents.

**Podiatry – Residency Graduates Only**

**Table 36: Annual Podiatry Retention, 2008-2017**

Year	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	5	2	40.0%
2009	4	1	25.0%
2010	4	3	75.0%
2011	4	2	50.0%
2012	5	3	60.0%
2013	5	3	60.0%
2014	6	4	66.7%
2015	6	2	33.3%
2016	6	4	66.7%
2017	6	5	83.3%
<b>Total</b>	<b>51</b>	<b>29</b>	<b>56.9%</b>

**Figure 29: Annual Podiatry Retention, 2008-2017**

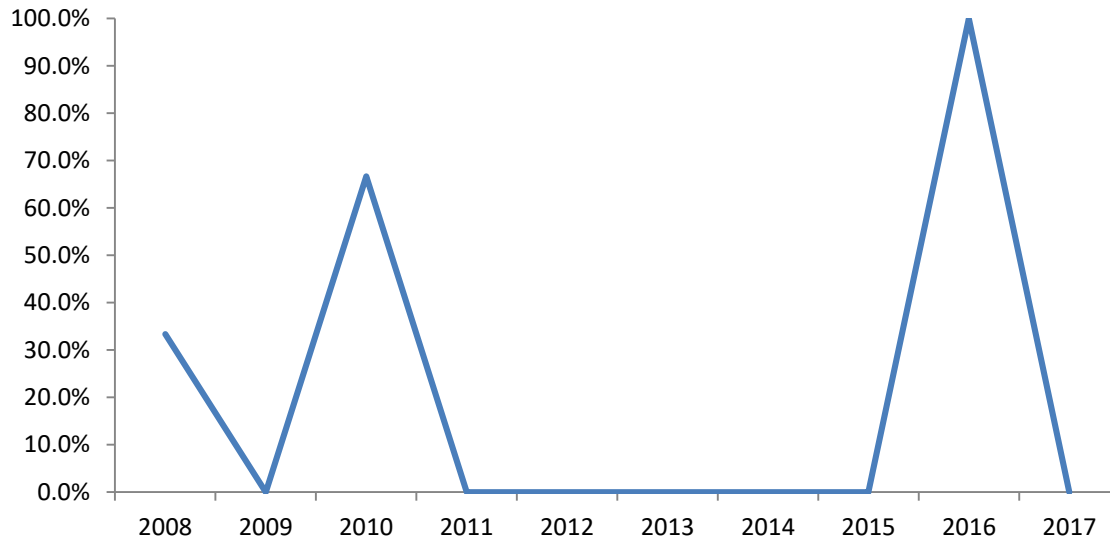


## Radiation Oncology – Residency Graduates Only

**Table 37: Annual Radiation Oncology Retention, 2008-2017**

Year	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	3	1	33.3%
2009	0	0	-
2010	3	2	66.7%
2011	1	0	0.0%
2012	2	0	0.0%
2013	1	0	0.0%
2014	3	0	0.0%
2015	2	0	0.0%
2016	1	1	100.0%
2017	3	0	0.0%
<b>Total</b>	<b>19</b>	<b>4</b>	<b>21.1%</b>

**Figure 30: Annual Radiation Oncology Retention, 2008-2017**



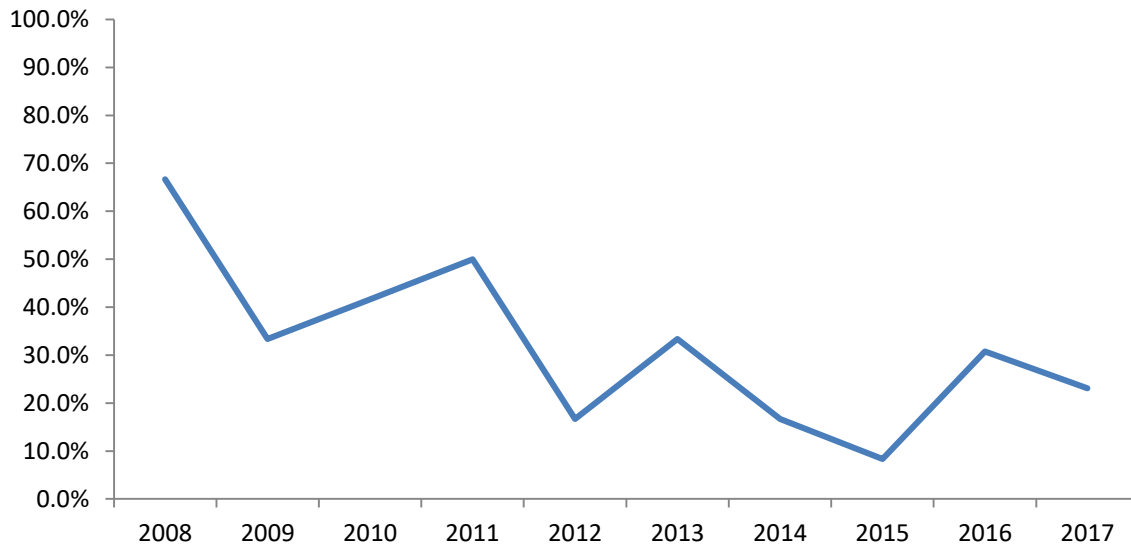
## Transitional Year

**Table 38: Transitional Year Retention (5 year periods), 2008-2017**

Year	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	12	8	66.7%
2009	12	4	33.3%
2010	12	5	41.7%
2011	12	6	50.0%
2012	12	2	16.7%
2013	12	4	33.3%
2014	12	2	16.7%
2015	12	1	8.3%
2016	13	4	30.8%
2017	13	3	23.1%
<b>Total</b>	<b>122</b>	<b>39</b>	<b>32.0%</b>

\*\* Internship programs contain: *Anesthesiology, Dermatology, Radiology Oncology, Diagnostic Radiology, Ophthalmology, Emergency Medicine, Physical Medicine and Rehabilitation, and Otolaryngology.*

**Figure 31: Transitional Year Retention (5 year periods), 2008-2017**

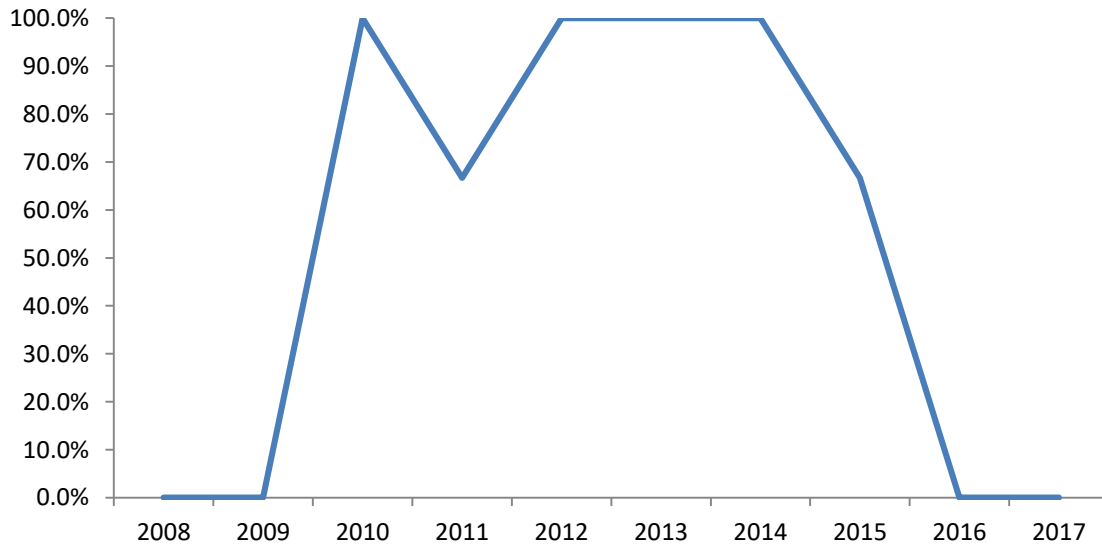


## Triple Board- Residency Graduates Only

**Table 39: Annual Triple Board Retention, 2008-2017**

Year	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	1	0	0.0%
2009	1	0	0.0%
2010	3	3	100.0%
2011	3	2	66.7%
2012	1	1	100.0%
2013	1	1	100.0%
2014	2	2	100.0%
2015	3	2	66.7%
2016	1	0	0.0%
2017	3	0	0.0%
<b>Total</b>	<b>19</b>	<b>11</b>	<b>57.9%</b>

**Figure 32: Annual Triple Board Retention, 2008-2017**





## Urology – Residency Graduates Only

**Table 40: Annual Urology Retention, 2008-2017**

Year	Total Graduates	Retained in Utah (2017)	% Retained in Utah (2017)
2008	2	0	0.0%
2009	2	1	50.0%
2010	2	0	0.0%
2011	2	0	0.0%
2012	2	0	0.0%
2013	2	0	0.0%
2014	2	2	100.0%
2015	2	1	50.0%
2016	3	2	66.7%
2017	2	1	50.0%
<b>Total</b>	<b>21</b>	<b>7</b>	<b>33.3%</b>

**Figure 33: Annual Urology Retention, 2008-2017**

