

**Correction to PIO 2019 and 2020 Reports**

*released December 2022*

**Issue:** A recent longitudinal data request triggered a series of checks against OPRC’s published annual dataset and compiled longitudinal dataset. The checks resulted in the identification of a misalignment of the data, specifically with the age range in 2019 and 2020 where physicians were identified in an incorrect age range.

**Scope:** The age range assignment discrepancy was identified for a subset of the records in the 2019 and 2020 PIO reports. In total, 3,336 physicians in the 2019 PIO Report (10.5% of total physicians) and 59 physicians in the 2020 PIO Report (0.2% of total physicians) were incorrectly assigned to the next higher age range.

**Cause:** Processing Error.

**Impact:** The error resulted in a larger percentage difference between the published counts and the corrected counts for the youngest and oldest age ranges.

The tables below provide details on the difference between the published age range and corrected age range assignment for the 2019 and 2020 PIO Reports.

**2019**

- 3,336 of physicians (see Table 1A) were incorrectly assigned to the next higher age range.
- The shift in age range assignment resulted in a larger percentage difference between the published counts and the corrected counts within the youngest and oldest age ranges. Based on corrected age range assignment, the published count of physicians in the 25-29 age range was 34% too low, 9% too low for the 30-34 age range, and ranged from 6% to 15% too high for the 65 and older age ranges (see Table 1B).

PIOyear	Corrected	Published	Errors
2019	25-29	30-34	133
2019	30-34	35-39	421
2019	35-39	40-44	434
2019	40-44	45-49	437
2019	45-49	50-54	439
2019	50-54	55-59	417
2019	55-59	60-64	337
2019	60-64	65-69	362
2019	65-69	70-74	194
2019	70-74	75-79	111
2019	75-79	80-84	39
2019	80-84	85+	12
<b>2019 Age Range Errors</b>			<b>3336</b>

Table 1A. Number of incorrectly assigned age ranges for 2019 PIO Report

PIOyear	Age Range	Corrected	Published	Difference	Percent
2019	25-29	395	262	-133	-34%
2019	30-34	3109	2821	-288	-9%
2019	35-39	4294	4281	-13	0%
2019	40-44	4202	4198	-4	0%
2019	45-49	4156	4155	-1	0%
2019	50-54	3896	3918	22	1%
2019	55-59	3523	3603	80	2%
2019	60-64	3255	3230	-25	-1%
2019	65-69	2528	2696	168	7%
2019	70-74	1422	1505	83	6%
<b>2019</b>	75-79	650	722	72	11%
2019	80-84	254	281	27	11%
2019	85+	80	92	12	15%
<b>2019 Total</b>		<b>31764</b>	<b>31764</b>		

Table 1B. Difference between previously published and corrected age ranges for 2019 PIO Report

## 2020

- 59 physicians in the main PIO report (see Table 2A) and 161 physicians in the Attritions report (see Table 2C) were incorrectly assigned to the next higher age range.
- For the main PIO report, the shift in age range assignment mostly affected physicians in the lowest age range with the published count of physicians in this age range being 10% too low compared to the corrected count (see Table 2B).
- For the Attritions report, the shift in age range assignment affected physicians across all age ranges with the published counts of physicians being either too low or too high compared to the corrected count (see Table 2D).

PIOyear	Corrected	Published	Errors
2020	25-29	30-34	42
2020	30-34	35-39	13
2020	35-39	40-44	2
2020	45-49	50-54	2
<b>2020 Age Range Errors</b>			<b>59</b>

Table 2A. Number of incorrectly assigned age ranges by age range for 2020 PIO Report

PIOyear	Age Range	Corrected	Published	Difference	Percent
2020	25-29	394	353	-41	-10%
2020	30-34	3140	3169	29	1%
2020	35-39	4522	4533	11	0%
2020	40-44	4301	4303	2	0%
2020	45-49	4195	4193	-2	0%
2020	50-54	3971	3973	2	0%
2020	55-59	3649	3649	0	0%
2020	60-64	3148	3148	0	0%
2020	65-69	2608	2607	-1	0%
2020	70-74	1428	1428	0	0%
2020	75-79	652	652	0	0%
2020	80-84	241	241	0	0%
2020	85+	70	70	0	0%
<b>2020 Total</b>		<b>32319</b>	<b>32319</b>		

Table 2B. Difference between previously published and corrected age ranges for 2020 PIO Report

Please note CPSO changed the date of birth for 2 physicians after the 2020 PIO reports were published. These physicians now land in a different age range but are not included in this table since those changes are not as a result of this internal processing error.

PIOyear	Corrected	Published	Errors
2020	25-29	30-34	5
2020	30-34	35-39	19
2020	35-39	40-44	11
2020	40-44	45-49	8
2020	45-49	50-54	4
2020	50-54	55-59	9
2020	55-59	60-64	20
2020	60-64	65-69	30
2020	65-69	70-74	17
2020	70-74	75-79	24
2020	75-79	80-84	8
2020	80-84	85+	6
<b>2020 Attritions Age Range Errors</b>			<b>161</b>

Table 2C. Number of incorrectly assigned age ranges by age range for 2020 PIO Attritions Report

AttritionYr	Age Range	Corrected	Published	Difference	Percent
2020	25-29	16	11	-5	-31%
2020	30-34	155	141	-14	-9%
2020	35-39	119	127	8	7%
2020	40-44	87	90	3	3%
2020	45-49	71	75	4	6%
2020	50-54	75	70	-5	-7%
2020	55-59	111	100	-11	-10%
2020	60-64	180	170	-10	-6%
2020	65-69	233	246	13	6%
2020	70-74	212	205	-7	-3%
2020	75-79	116	132	16	14%
2020	80-84	69	71	2	3%
2020	85+	35	41	6	17%
<b>2020 Attritions Total</b>		<b>1479</b>	<b>1479</b>		

Table 2D. Difference between previously published and corrected age ranges for 2020 PIO Attritions Report

**Resolution:** 2019 and 2020 PIO reports were reissued on the OPRC website in Excel format. Changes impacted:

- Section 3 – Specialty of Practice and Age Range
- Section 4 - Specialty of Practice Age Range and Sex
- Section 6 – Additions by Specialty of Practice and Sex
- Section 6 –Attritions by Specialty of Practice and Sex

Longitudinal PIO data has been revised so that the corrected ages and age ranges will now be used for all future reporting and data requests. These corrections have been tracked at record-level in the longitudinal dataset.

**Communication:**

- Notified OPRC Steering Committee and PIO stakeholders
- Notified those with data requests where 2019 and/or 2020 age range was used.

**Prevention:** Future annual PIO data will go through a process of additional secondary data verification.