

Subcommittee for Dose Reconstruction Reviews

Meeting of the Advisory Board on Radiation and Worker
Health

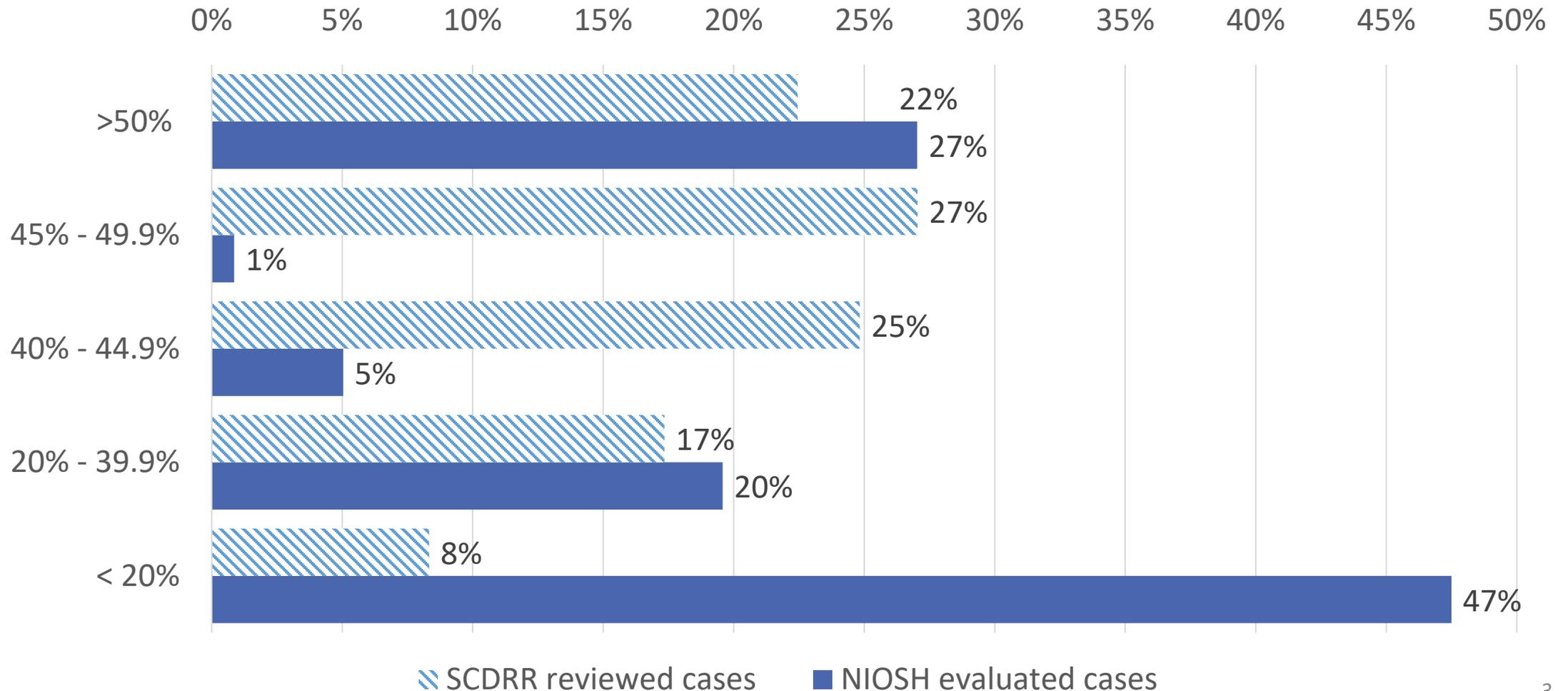
April 28, 2022

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Lockey, David Richardson, Loretta Valerio

Criteria currently considered when selecting cases

- Focused on cases with 45%–52% probability of causation (POC) (best estimates)
- Representation of DOE and AWE facilities
- Employment dates
- Career duration
- Occupation
- Gender
- Cancer diagnoses

Comparison of POC distribution selected by SCDRR with population of claims reviewed by NIOSH

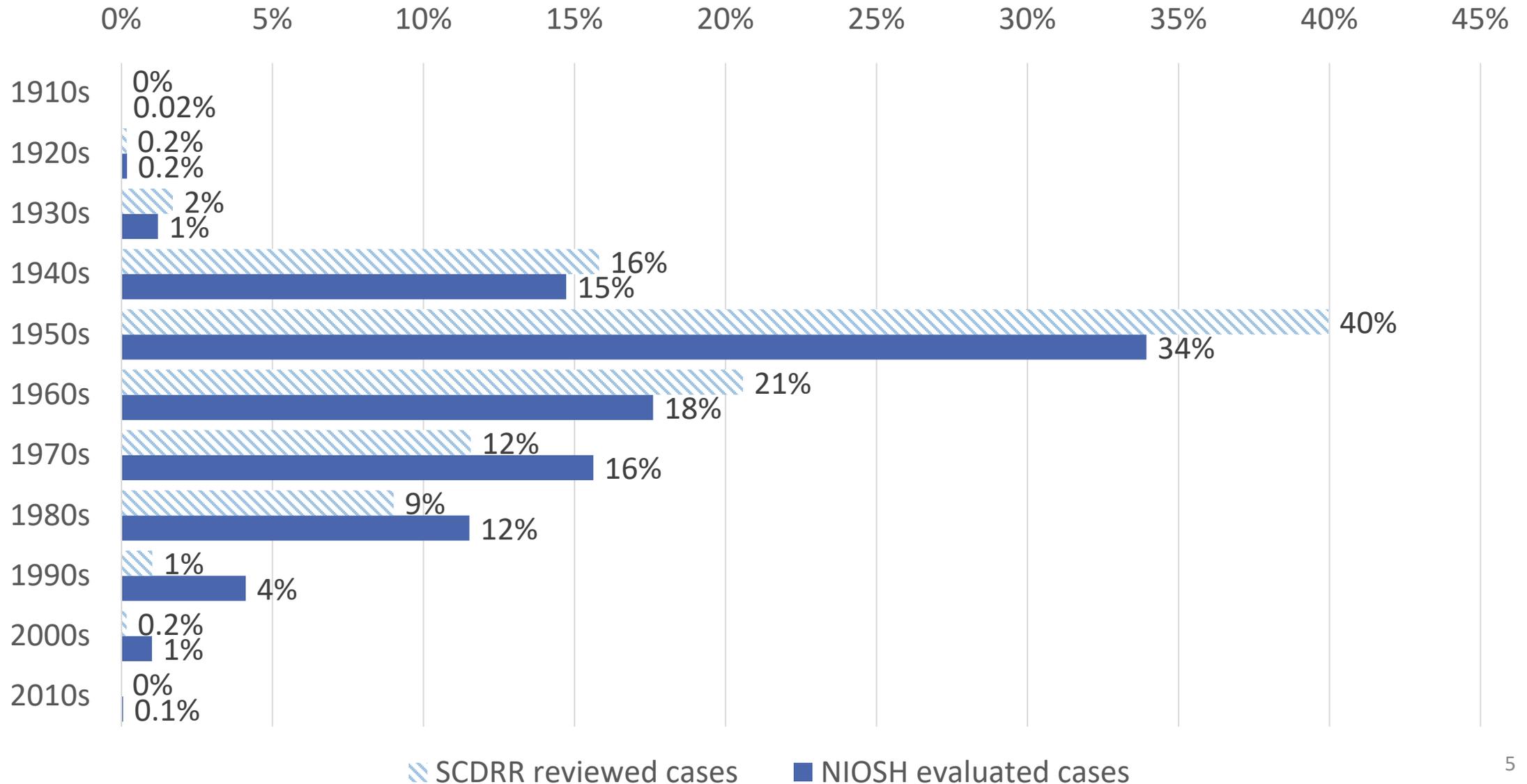


SC&A Recommendation 1

The SCDRR should continue selecting cases with POCs near 50%.

However, due to the small number of claims in this window, SC&A recommends the Subcommittee expand the targeted POC range from 45%–52% to 40%–55%.

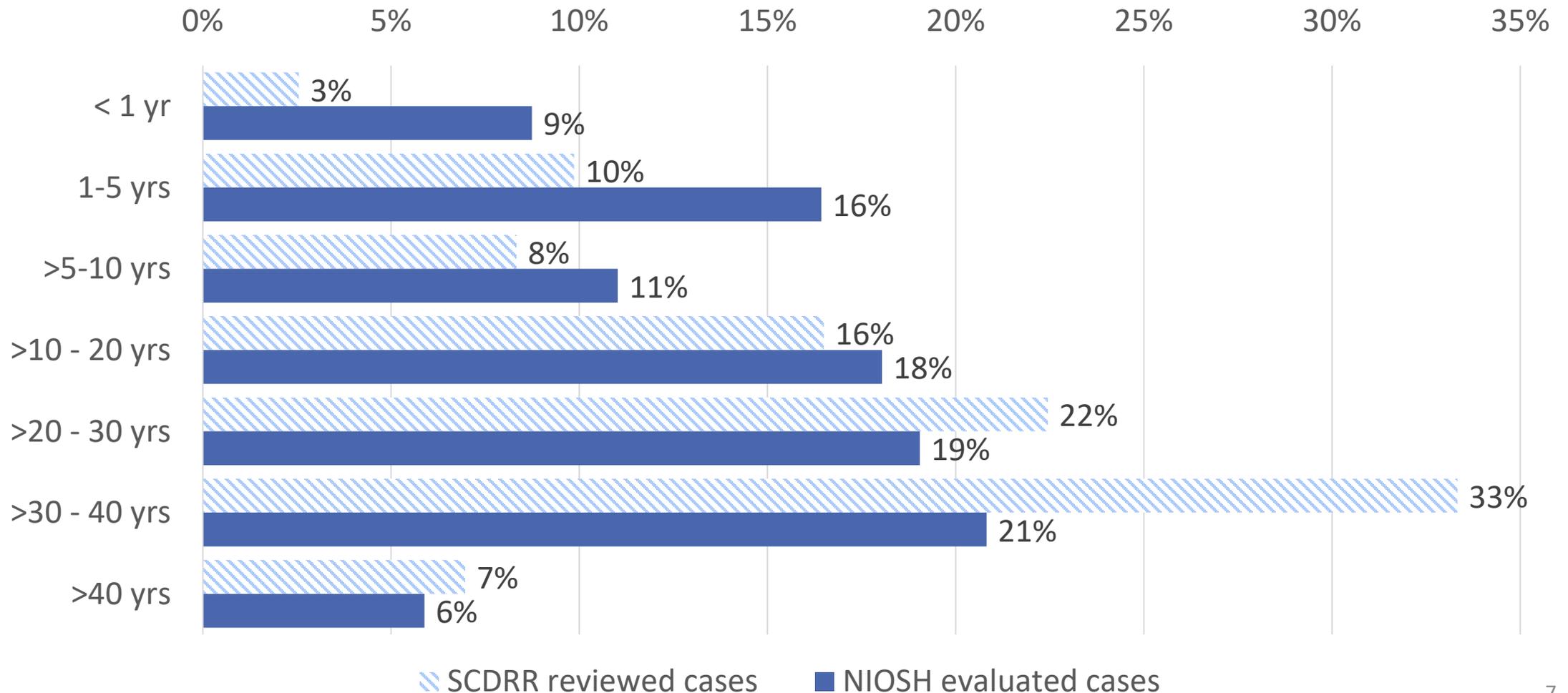
Comparison of decade of first employment evaluated by SCDRR with population of claims reviewed by NIOSH



SC&A Recommendation 2

SC&A recommends that the SCDRR increase the sampling of claims with an initial decade of employment beginning in the 1970s. These claims are underrepresented in the cases reviewed by the Subcommittee to date.

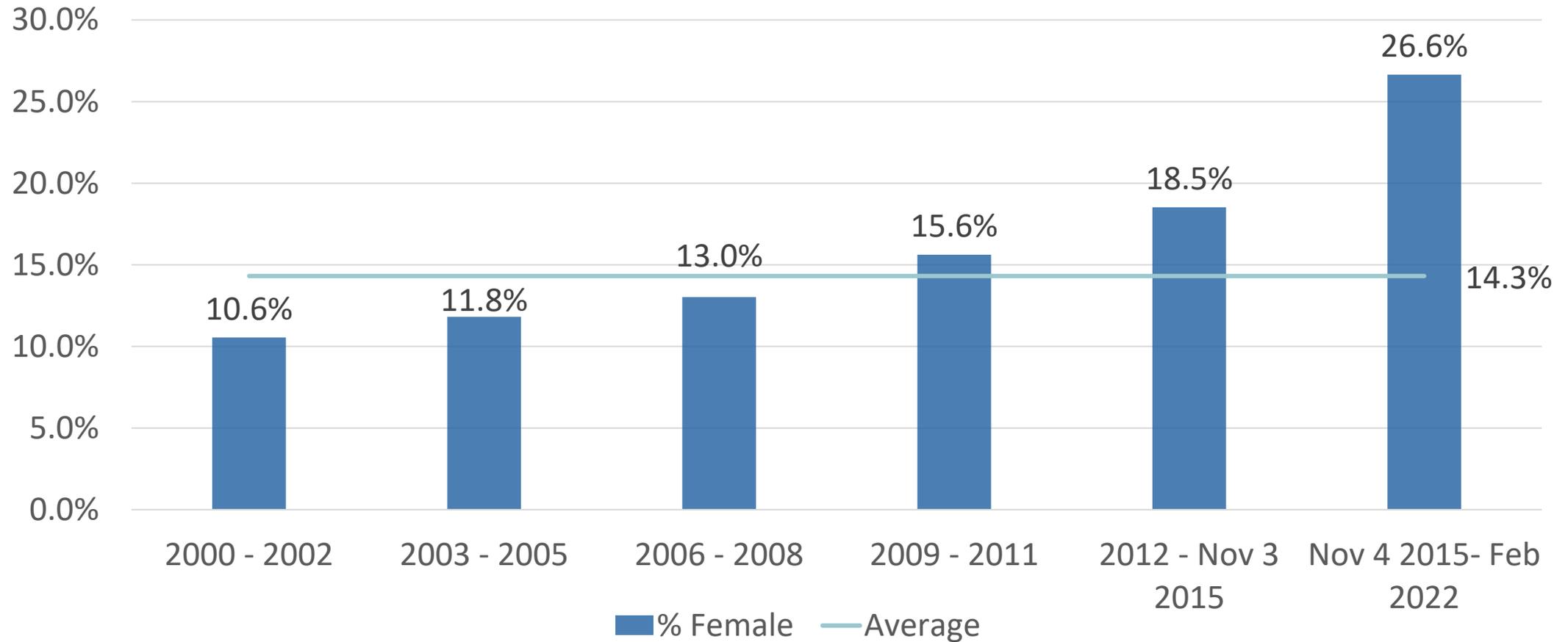
Comparison of employment duration percentages in cases reviewed by SCDRR and the population of claims evaluated by NIOSH



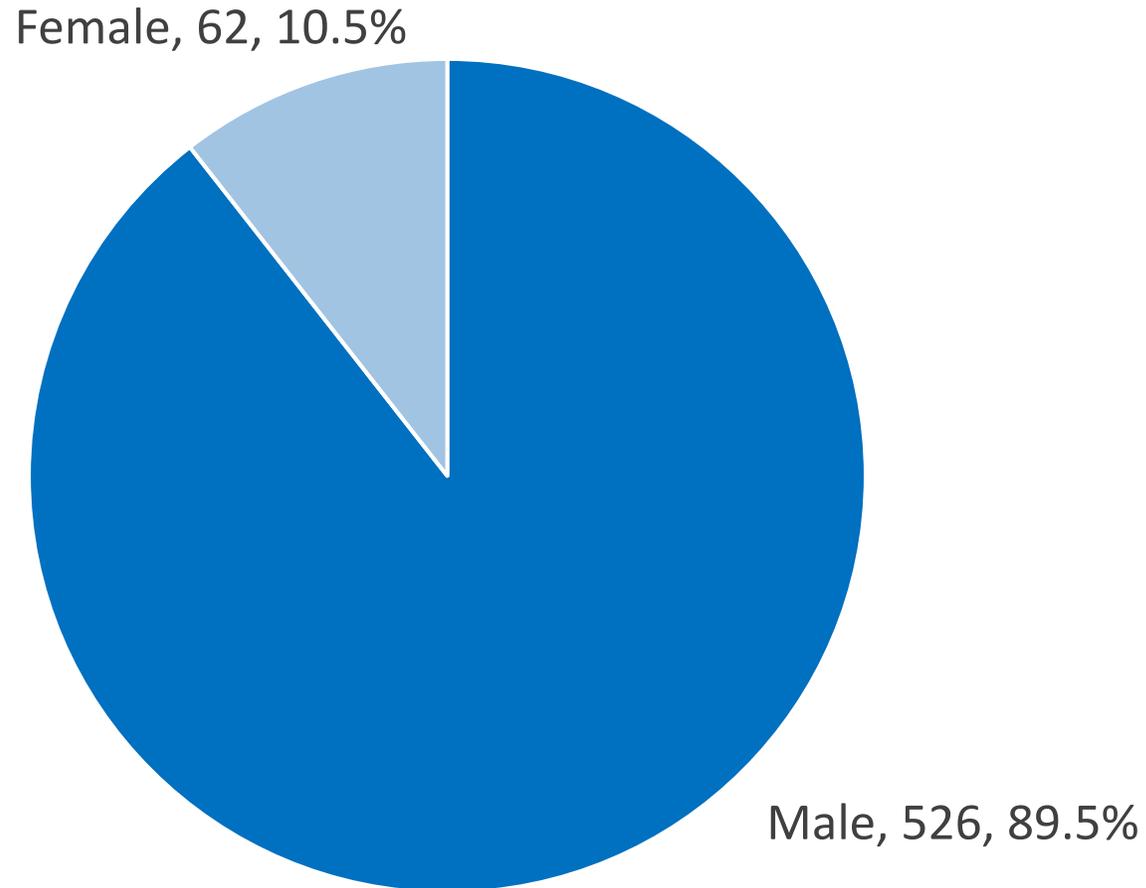
SC&A Recommendation 3

SC&A recommends that the SCDRR make a concerted effort to select some cases to evaluate with shorter employment periods, to ensure shorter employment periods are adequately represented.

Historical breakdown of female claims by file year



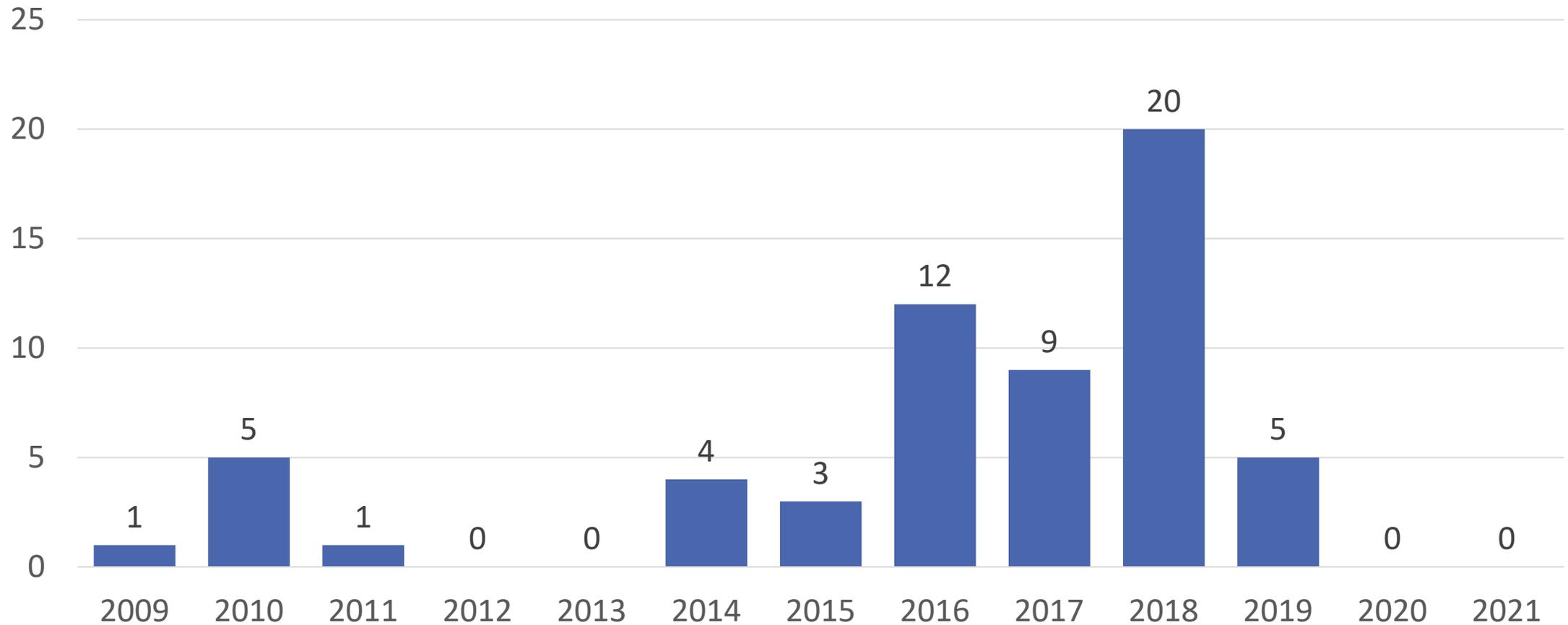
Gender distribution of SCDRR-reviewed claims



SC&A Recommendation 4

SC&A suggests the SCDRR select a minimum of eight female claims per set of 30 cases to increase female representation going forward.

NIOSH case completion date from Sets 27 and 29



27th set completed in 2018
29th set completed in 2019

SC&A Recommendation 5

SC&A recommends that the SCDRR focus on evaluating cases completed by NIOSH within several years of the review date to ensure that the Advisory Board is encountering and reviewing cases that use the most recent revisions of guidance documents.

Large sites underrepresented among SCDRR reviews

Criteria:

- Sites with at least 100 claims
- >1 SCDRR review needed to reach 1% of all DRs from that facility reviewed

Facilities identified:

- Kansas City Plant
- Portsmouth Gaseous Diffusion Plant
- Bethlehem Steel
- Wah Chang
- Iowa Ordnance Plant
- Tonopah Test Range

SC&A Recommendation 6

SC&A identified six locations with 100 or more claims that are underrepresented by at least one SCDRR-reviewed case. SC&A recommends additional cases from these sites be targeted when possible.

Smaller sites adequately reviewed by SCDRR

- The Subcommittee has tried make sure that facilities with less than 100 claims are not overlooked during the selection of cases for its review.
- So far it has succeeded in this effort:
 - SCDRR has so far reviewed 72 from among about 3,150 claims filed by covered facilities with less than 100 claims processed by NIOSH – for 2.3% reviewed at these often-smaller facilities

Summary of SC&A recommendations

1. Expand POC targeted range
2. Increase sampling of claims beginning in 1970s and later
3. Increase sampling of cases with shorter employment (<20 yrs)
4. Select at least 8 female claims per 30 case set
5. Select cases completed within several years of NIOSH review
6. When possible, target underrepresented sites

Questions?