DEBRIS/ROUND CELL ASSESSMENT of SEMEN SAMPLES on the SQA

OVERVIEW:

Grading the degree of debris/round cells in semen samples run on the SQA Vision and SQA-iO is important because these components (that are the size of sperm heads or larger) can influence the accuracy of reporting automated concentration. This technical bulletin provides guidance for assessing/grading the % of sample debris/round cells by category.

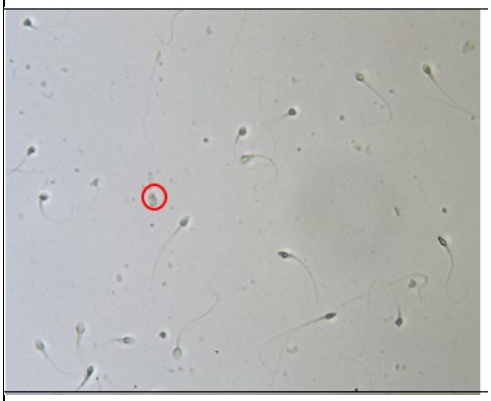
ASSESSMENT TECHNIQUE:

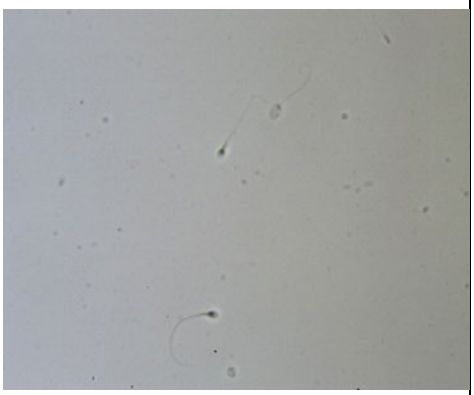
1. Debris/round cells are graded as a percentage in proportion to the number of sperm cells
2. Only particles without tails that are **the size of sperm heads or larger** should be counted as debris/round cells
3. Several fields may be required to estimate the % range of debris/round cells in the sample
4. The absolute number of debris/round cells is only important for determining the **percentage range of these components vs. sperm** and to properly select how to classify them by **category** (refer to table below)

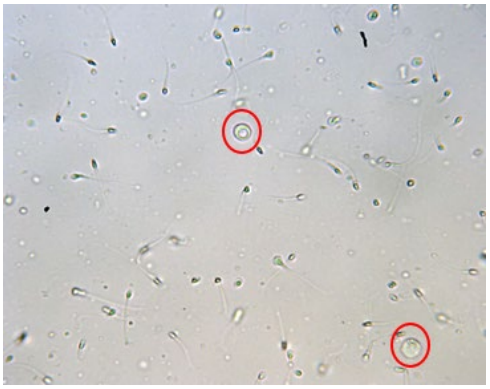
#	% Range of Debris/Round Cells vs Sperm	Example	Debris Category in SQA
1	Less than 10%	# Sperm 50 and # Debris 1 = 2%	None/Few< 10%
2	10 to 30%	# Sperm 50 and # Debris 10 = 20%	Moderate 10%-30%
3	31 to 99%	# Sperm 50 and # Debris 30 = 60%	Many 31%-99%
4	≥ 100%	# Sperm 50 and # Debris 60 = 120%	Gross >=100%

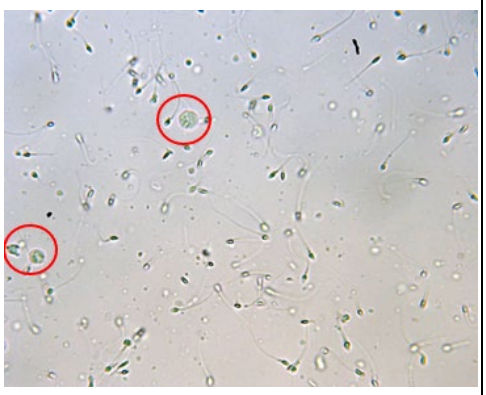
SAMPLE IMAGES with CATEGORIES of DEBRIS/ROUND CELLS

Images of <10% Debris/Round Cells (None/Few Category)

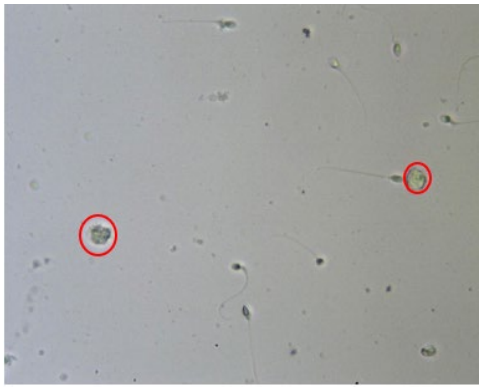
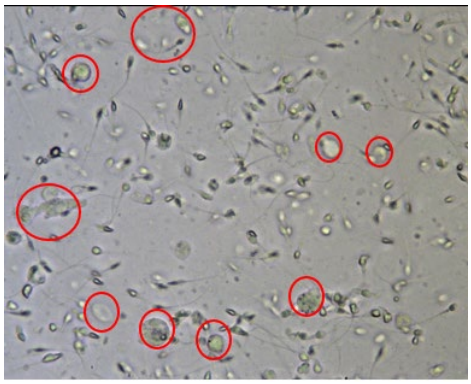
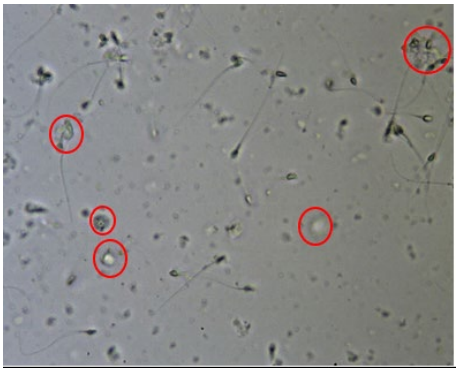


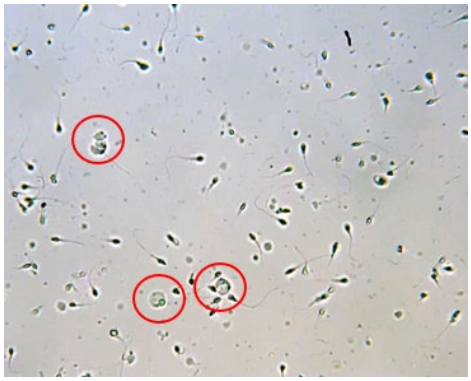
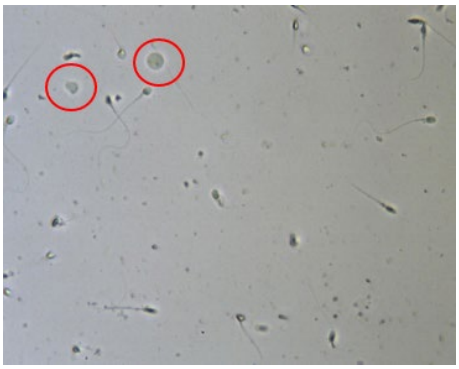




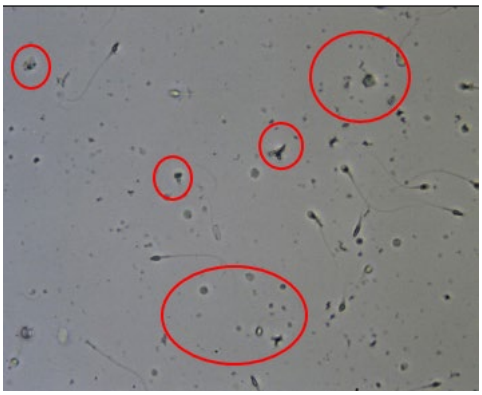
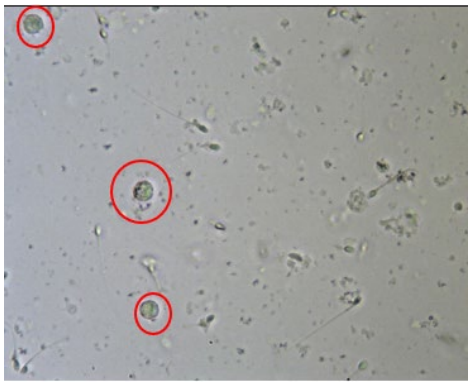
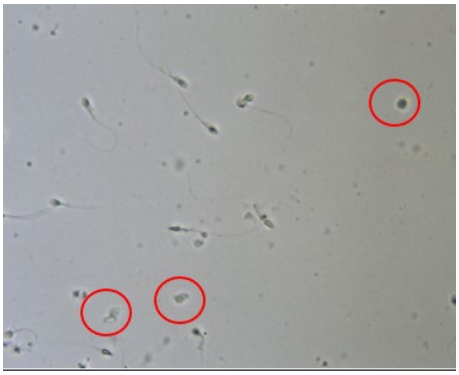


Images of 10-30% Debris/Round Cells (Moderate Category)

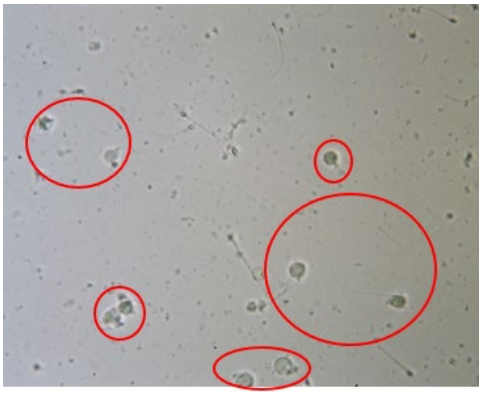
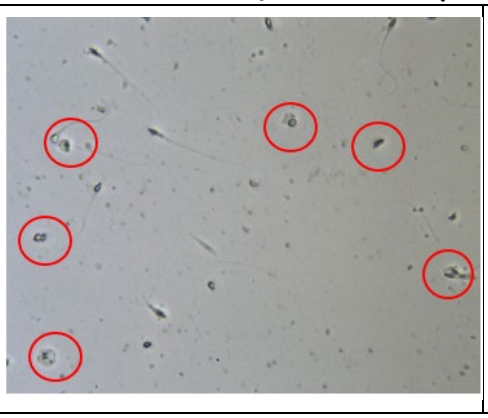




Images of 31-99% Debris/Round Cells (Many)

Images of >= 100% Debris/Round Cells (Gross)

Distribution: All SQA Vision and SQA-iO distributors and users

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