

Question	Preferred Answer		Raises a Red Flag	
1. What is the basis for the story?	Hypothesis test	<input type="checkbox"/>	Untested assertion. No data to support claims in the article.	<input type="checkbox"/>
2. What is the affiliation of the scientist?	Independent (university or government agency)	<input type="checkbox"/>	Employed by an industry or advocacy group. Data and conclusions could be biased.	<input type="checkbox"/>
3. What is the funding source for the study?	Government or nonpartisan foundation (without bias)	<input type="checkbox"/>	Industry group or other partisan source (with bias). Data and conclusions could be biased.	<input type="checkbox"/>
4. a. If the hypothesis test is a correlation: Did the researchers attempt to eliminate reasonable alternative hypotheses?	Yes	<input type="checkbox"/>	No. Correlation does not equal causation. One hypothesis test provides poor support if alternatives are not examined.	<input type="checkbox"/>
b. If the hypothesis test is an experiment: Is the experimental treatment the only difference between the control group and the experimental group?	Yes	<input type="checkbox"/>	No. An experiment provides poor support if alternatives are not examined.	<input type="checkbox"/>
5. Was the sample of individuals in the experiment a good cross-section of the population?	Yes	<input type="checkbox"/>	No. Results may not be applicable to the entire population.	<input type="checkbox"/>
6. Was the data collected from a relatively large number of people?	Yes	<input type="checkbox"/>	No. Study is prone to sampling error.	<input type="checkbox"/>
7. Were participants blind to the group they belonged to or to the "expected outcome" of the study?	Yes	<input type="checkbox"/>	No. Research participant expectation can influence results.	<input type="checkbox"/>
8. Were data collectors or analysts blinded to the group membership of participants in the study?	Yes	<input type="checkbox"/>	No. Observer bias can influence results.	<input type="checkbox"/>
9. Did the news reporter put the study in the context of other research on the same subject?	Yes	<input type="checkbox"/>	No. Cannot determine if these results are unusual or fit into a broader pattern of results.	<input type="checkbox"/>
10. Did the news story contain commentary from other independent scientists?	Yes	<input type="checkbox"/>	No. Cannot determine if results are unusual or if the study is considered questionable by others in the field.	<input type="checkbox"/>
11. Did the reporter list the limitations of the study or studies on which he or she is reporting?	Yes	<input type="checkbox"/>	No. Reporter may not be reading study critically and could be overstating the applicability of the results.	<input type="checkbox"/>