

There's only one answer to your questions about disposable filter units.

What disposable, presterilized filter units have the most filter surface area for more efficient filtration?

Nalgene Filter Units (17.4 cm²)

What disposable, presterilized filter units are the simplest, most convenient to use?

Nalgene Filter Units. (The 3-piece design eliminates the extra parts that can cause error or contamination.)

What disposable, presterilized filter units have the longest performance record?

Nalgene Filter Units. (Only Nalgene Filter Units have been proven reliable in over 15 years of laboratory use.)

What disposable, presterilized filter units give you the choice of three membrane porosities using a proven nontoxic membrane?

Nalgene Filter Units. (Their membrane is nontoxic to cell cultures and comes in 0.20μ, 0.45μ, and 0.80μ porosities.)

What disposable, presterilized filter units cost least and can be purchased from laboratory supply dealers everywhere?

Nalgene Filter Units. (Ask your dealer.)

Specify NALGENE® filter units from your laboratory dealer. The one right answer to your filtering needs.

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therefore, I cannot comment on the possible effects of the dose revision.

In summary, the new dose estimates—if correct—do *not* strengthen the argument that there is “no” safe “level of exposure to radiation.”

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References and Notes

1. The estimated mortality rates for leukemia and AMN in the 0 rad dose group are $4.4 \times 10^{-5} \pm 0.8 \times 10^{-5}$ and $2.3 \times 10^{-5} \pm 0.06 \times 10^{-5}$ per person-year respectively. The same rates for the 1- to 9-rad dose group are $4.8 \times 10^{-5} \pm 1.3 \times 10^{-5}$ and $2.17 \times 10^{-5} \pm 0.09 \times 10^{-5}$ per person-year. This calculation assumes a rate constant in time. The estimated crude probabilities for these end points at a dose of 0 rad are $28/29,943 = 9.0 \times 10^{-4} \pm 2.0 \times 10^{-4}$ and $1,460/29,943 = 4.9 \times 10^{-2} \pm 0.1 \times 10^{-2}$. The same probabilities for the 1- to 9-rad dose group are $14/13,796 = 1.0 \times 10^{-3} \pm 0.3 \times 10^{-3}$ and $634/13,796 = 4.6 \times 10^{-2} \pm 0.2 \times 10^{-2}$. The corresponding net probability estimates for leukemia were presented by P. G. Groer, T. Ishimaru, M. Ichimaru, Y. Yasunaga, and J. Brodsky at the Radiation Research Society Meeting, Minneapolis, Minn., in June 1981. Net probability estimates for AMN can be obtained by a life-table analysis. The data are from G. W. Beebe, H. Kato, C. E. Land, *Life Span Study Report 8* (TRI-77, Radiation Effects Research Foundation, Hiroshima, Japan, 1977). Errors are expressed as ± 1 standard deviation.
2. W. E. Loewe and E. Mendelsohn, *Health Phys.*, in press.
3. The estimated mortality rates for leukemia in the 0.1- to 9-, and 10- to 49-rad T65 dose groups are $7.1 \times 10^{-5} \pm 2.7 \times 10^{-5}$, $7.4 \times 10^{-5} \pm 2.0 \times 10^{-5}$, and $5.1 \times 10^{-5} \pm 2.0 \times 10^{-5}$, respectively. The estimated crude probabilities of dying from leukemia for the same groups are $7/4004 = 1.7 \times 10^{-3} \pm 0.6 \times 10^{-3}$, $13/7140 = 1.8 \times 10^{-3} \pm 0.5 \times 10^{-3}$, and $1.2 \times 10^{-3} \pm 0.5 \times 10^{-3}$. The results for the corresponding net probability estimates were presented in the paper cited in (1). All estimates for leukemia in Nagasaki use data which incorporate the changes in group sizes due to the relocation of the hypocenter in this city.

Boojums

For the first appearance of the term “boojum” (Research News, 19 June, p. 1378), and for that matter, “snark,” in scientific literature (well, social science), please refer to the presidential address given by Frank Beach to the Division of Experimental Psychology, American Psychological Association, in 1949. The title of that speech was “The snark was a boojum.” The speech was reprinted in, among other publications, *Readings in Animal Behavior* (T. McGill, Ed., Holt, Rinehart and Winston, New York, 1965).

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Mermin need not worry about Anderson's getting credit for introducing the term “boojum” into the scientific literature. Priority goes to noted psychologist Frank Beach, whose article “The snark

was a boojum” appeared in the *American Psychologist* in 1950 (vol. 5, p. 115). Beach cautioned American comparative psychologists against excessive reliance on white rats as their subject of study, lest in virtually exclusively hunting that snark, their own research specialty would “softly and suddenly vanish away.” Beach may well have been right. According to the June 1981 issue of the *American Psychologist*, there is a serious move afoot to change the title of the major American outlet for the kind of work to which Beach himself so eminently contributed—the *Journal of Comparative and Physiological Psychology*. The proposed new title eliminates “comparative” entirely and substitutes modern synonyms for “physiological.” Although in Beach's use, boojum was not a scientific construct, as it seems to be in Mermin's, Beach should be acknowledged for finding in Lewis Carroll's boojum an apt metaphor for the state of an entire scientific discipline.

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With reference to the article “Let us now praise famous boojums,” I would like to point out that boojum has been the common name for *Idria columnaris* Kellogg since 1922 (1). The boojum has been described as a bizarre plant found primarily in Baja California, and the term boojum has been given as the common name for *Idria columnaris* Kellogg in at least two publications in scientific journals (2). It would appear that physicists are not the only scientists who read Lewis Carroll.

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References

1. R. R. Humphrey, *The Boojum and Its Home* (Univ. of Arizona Press, Tucson, 1974).
2. ———, *Cact. Succ. J.* 42, 209 (1970); J. Herrickson, *Aliso* 7, 439 (1972).

Effectiveness of Psychotherapy

I fear that Dawes' perfectly reasonable point (Letters, 29 May, p. 986) regarding the skill of the therapist as a factor in the experimental interaction between psychotherapeutic treatment and patient will obscure the point Strupp was making in the passage quoted by Kolata (Research News, 24 April, p. 432). In the passage quoted, Strupp was warning against too great a reliance on the experimental design applicable to the evalua-