Inference at $*$ 1 1
 of proof for Lemma choicef_wf:

1. xm : $\forall P{:}\mathbb{P}.\ P \vee (\neg P)$
2. T : Type
3. P : $T \to \mathbb{P}$
4. $\exists a{:}T.\ P(a)$
5. z : $\{y{:}T|\ P(y)\} \vee (\neg\{y{:}T|\ P(y)\}\ )$
6. $xm(\{y{:}T|\ P(y)\}\ ) = z$

$\vdash$case z of inl(z) => z | inr(w) => "???" $\in T$
 by ((((D 5)
 CollapseTHEN (Reduce 0))·)
 CollapseTHEN ((Auto_aux (first_nat 1:n
) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

 1:

 5. y : $\neg\{y{:}T|\ P(y)\}$
 6. $xm(\{y{:}T|\ P(y)\}\ )$ = (inr y)
 $\vdash$ "???" $\in T$

 .