Inference at $*$ 1 1 4
 of proof for Lemma gen_hyp_tp:

1. A : Type
2. e : A
3. H : A→Type
4. z : $H(e)$
5. $A \in$ Type
6. $e \in A$
7. $\forall x{:}A.\ (e = x) \in$ Type

$\vdash z \neq 0$

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 by (\p.
 let i = get_int_arg ‘i‘ p
 inlet x = get_term_arg ‘x‘ p

   in let e = get_term_arg ‘e‘ p
 in let A = get_term_arg ‘A‘ p
 in
   AssertAtHyp

      i
     (mk_exists_term (dv x) A (mk_equal_term A e x))
     p)
```

1: . . . . .assertion. . . . . NILNIL

$\vdash \exists x{:}A.\ (e = x)$

2:

4. $\exists x{:}A.\ (e = x)$
5. z : $H(e)$
6. $A \in$ Type
7. $e \in A$
8. $\forall x{:}A.\ (e = x) \in$ Type

$\vdash z \neq 0$

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