## Case Processing

## nPOD Case Processing

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Purpose: To provide a diverse set of high quality human tissues for Type 1 Diabetes research to approved investigators in order to enhance their ability to study the disease as it occurs in humans.

Methods: Through partnerships with Organ Procurement Organizations, nPOD is able to regularly obtain pancreas, spleen, duodenum, lymph nodes, blood, and serum. On occasion, thymus, skin, bone marrow and vertebral bodies are also received. In order to consistently provide investigators with high quality tissues, each case is processed following a standard operating procedure. The sample quality is optimized and maintained through quality control measurements. Each tissue is processed into several different sample types in order to best fit the needs of nPOD investigators. The sample types are as follows: paraffin blocks, fresh frozen blocks (OCT), snap frozen vials, snap frozen vials with RNALater, DNA isolated from received tissues, cells isolated from spleen, pancreatic lymph nodes, non-pancreatic lymph nodes, thymus, blood marrow aspirate, and mononuclear cells from peripheral blood.

Summary of Results: nPOD is providing rare and previously difficult to obtain human tissues to investigators. nPOD is constantly expanding and to date more than 170 cases have been processed with over 550 distributions to investigators. This growth has allowed researchers to receive a greater variety of human tissue samples providing them the opportunity to increase the depth and scope of their research.

## Conclusions: nPOD has consistently provided a variety of high quality human tissues related to Type 1

 Diabetes to approved investigators and has continued to grow according to the needs of affiliated investigators.